
E v o l D i r

March 1, 2020

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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AthensGA,EvolutionaryMedicine Jul15-18 PlenarySpeakers

A great line-up of plenary speakers has just been announced for The Sixth Annual Meeting of the International Society for Evolution, Medicine, and Public Health in Athens, Georgia, from July 15-18, 2020. <http://isemph.org/2020-Meeting> - Vaughn Cooper, PhD, Professor of Microbiology & Molecular Genetics at the University of Pittsburgh, will speak about “The Roles of Chance, History, and Natural Selection in the Evolution of Pathogenesis and Antimicrobial Resistance.” - Kevin Keel, DVM, PhD, Associate Professor of Pathology, Microbiology & Immunology at the UC Davis School of Veterinary Medicine, will speak about “Urban Wildlife: A One Health Challenge.” - Sudhir Kumar, PhD, Laurel H. Carnell Professor and Director of the Institute of Genomics and Evolutionary Medicine

at Temple University, will speak on how “Evolution Informs Genomic Medicine.” - Nina Marano, DVM, MPH, Chief of the Immigrant, Refugee, and Migrant Health Branch, Division of Global Migration and Quarantine, at the Centers for Disease Control and Prevention, will speak about “One Health in Action at the CDC: Protecting Health in the United States and Around the World.” - Beverly Strassmann, PhD, Professor of Anthropology and Faculty Associate, Institute for Social Research at the University of Michigan, will speak about “Developmental Origins in Evolutionary Perspective: A 20-Year Prospective Cohort Study of the Dogon of Mali.” - Paul Turner, PhD, Rachel Carson Professor of Ecology and Evolutionary Biology at the Yale University School of Medicine, will speak about “Leveraging Evolutionary Trade-Offs and Phage Selection Pressure to Reduce Bacterial Pathogenicity.”

Submit your abstract now! Register now to get the early bird discount! <http://isemph.org/2020-Meeting> The International Society for Evolution, Medicine, and Public Health fosters communication among scientists,

students, clinicians, and public health professionals who use evolutionary insights to improve medical research and practice, and information on human health and disease to advance evolutionary biology. ISEMPH sponsors annual meetings, the journal *Evolution, Medicine, & Public Health*, *The Evolution and Medicine Review*, and *EvMedEd*.

Have questions? Email us at: meeting@isemph.org or visit the website at <http://isemph.org> Hosting Committee Chair: Elizabeth Uhl, Associate Professor of Anatomic Pathology, College of Veterinary Medicine, University of Georgia. Program Committee Chair: Michael Muehlenbein, Professor and Chair, Department of Anthropology, Baylor University

Randolph Nesse <nesse@asu.edu>

AthensGeorgia EvolutionMedicineSociety Jul15-18

Discounted early registration and Abstract submission are now open for the 6th annual meeting of the International Society for Evolution Medicine and Public Health: July 15-18, 2020 at the University of Georgia conference center in Athens. Full information at <https://isemph.org/2020-Meeting> ISEMPH members get a substantial discount on registration fees. New members can receive a 20% discount on membership during February using the code LUVISEMPH.

The Sixth Annual Meeting of the International Society for Evolution, Medicine, and Public Health will be at the University of Georgia Center for Continuing Education and Hotel from July 15-18, 2020. Students, researchers, clinicians and others are all welcome.

ISEMPH 2020 is a profoundly interdisciplinary meeting that emphasizes the multiple interfaces between evolutionary biology and human health in medicine, nursing, veterinary medicine, anthropology, evolutionary psychology, behavioral ecology and epidemiology. Students and clinicians at all stages of professional development are especially welcome. Only 300 seats are available, so please register early. Cancellations before June 1, 2020 are eligible for a refund.

Registration includes welcome reception with hors d'oeuvres, breakfast, lunch and snacks each day of the conference, and a dinner banquet on the last (Friday) evening.

The Hosting Committee is chaired by Elizabeth Uhl,

DVM, PhD, DACVP, Professor in the College of Veterinary Medicine, University of Georgia.

The Program Committee is chaired by Michael Muehlenbein, PhD, MsPH, Professor and Chair in the Department of Anthropology at Baylor University.

Confirmed Keynote Speakers

Kevin Keel, PhD, DVM, Associate Professor, Pathology, Microbiology and Immunology, UC Davis School of Veterinary Medicine

Sudhir Kumar, PhD, Laurel H. Carnell Professor and Director of the Institute of Genomics and Evolutionary Medicine, Temple University

Paul Turner, PhD, Rachel Carson Professor of Ecology and Evolutionary Biology, Yale University School of Medicine

Winners of the George C. Williams Prize and the Gilbert Omenn Prize will also give plenary presentations.

The mission of the International Society for Evolution, Medicine, and Public Health's is to foster communication among scientists, students, clinicians and public health professionals who use evolutionary insights to improve medical research and practice, and information on human health and disease to advance evolutionary biology. Previous meetings have been at Arizona State University, Duke University, Groningen, Netherlands (with ESEB), Park City, Utah, and Zurich, Switzerland. The 2021 meeting will be in Lisbon, Portugal.

In addition to annual meetings, ISEMPH sponsors the Oxford University Press journal *Evolution, Medicine, & Public Health*, *The Evolution and Medicine Review*, and *EvMedEd*.

Topics covered in ISEMPH meetings include:

§Adaptation and host defenses

§Antibiotic resistance

§Cancer evolution

§Cardiovascular disease

§Chronic degenerative diseases

§Developmental plasticity

§Emerging diseases

§Epigenetic causes of disease

§Evolutionary arms races

§Evolutionary aspects of aging

§Evolutionary aspects of pharmaceuticals

§Evolutionary genetics

§Evolutionary psychology

§Gene-environment mismatch
 §Health-related evolutionary trade-offs
 §Hygiene and public health
 §Immunology
 §Life history theory
 §Lifestyle diseases
 §Obesity and diabetes
 §Oral health
 §Mental health and disorders
 §Microbiomes
 §Molecular and population genetics
 §Pathogen evolution
 §Pediatrics
 §Personalized medicine
 §Pharmacogenomics
 §Phylogenomics
 §Reproductive diseases and women's health
 §Sleep disorders
 §Stress response
 §Veterinary medicine
 §Viral evolution
 rmnesse@gmail.com

Budapest MathStatMolBio Apr18-19

Due to uncertainties regarding COVID19, we plan to extend the abstract submission and registration deadlines for MASAMB 2020.

For recent updates, or if you have questions about the event, please use #masamb2020 on twitter or email ssolo@elte.hu!

The 30th Workshop on Mathematical and Statistical Aspects of Molecular Biology (MASAMB) will be held in Budapest on April 18 and 19, 2020.

For details see <http://masamb2020.elte.hu> and below.

Bioinformatics and statistical genetics, twin themes of the long-running series of annual MASAMB meetings, have gained huge impetus from large-scale genome se-

quencing projects and development of high-throughput biological assay systems, including gene-expression, proteomic, metabolomic and single-cell genomics technologies. These immense data resources, and the underlying complexities of molecular and cell biology, provide exciting research opportunities for numerate scientists.

With typically around 80-120 participants from mathematics, statistics, computer science, bioinformatics, biology and related fields, the MASAMB meetings provide an intimate setting for exchanging ideas in methodological and applied research. Research students and scientists newly entering the field of genomic research are particularly welcome and encouraged to submit abstracts. Details of previous meetings are available at the MASAMB archive: <https://www.ebi.ac.uk/goldman-srv/masamb/> Gergely J Szöllősi <sszolo@gmail.com>

Cleveland Evolution2020 Jun19-23

EVOLUTION 2020 – Annual joint meeting of the ASN/SSB/SSE June 19-23, Huntington Convention Center in Cleveland, OH <http://www.evolutionmeetings.org>

* Main conference registration is now OPEN and talk & poster submission are available once you complete main registration. * Talk registration is first-come, first-served and submissions will be accepted until Apr 15 or until capacity is reached, WHICHEVER IS EARLIER. * All posters are accepted until June 1. * Hotel and dorm accommodations are open for booking. Visit the accommodation page on the meeting website. * During talk submission you can indicate that you want your talk to be considered for a Spotlight session. There are several advantages (and no disadvantage) to doing so: <https://www.evolutionmeetings.org/spotlight-sessions.html> * Conference-ending Super social will be a private event (not open to the public) at the Rock & Roll Hall of Fame that includes dinner, a drink (cash-bars also onsite) and FULL access to the spectacular museum (admission is normally \$28 on its own) * Answers to nearly all question you may have about the conference can be found on the meeting website.

APR. 15 IS AN IMPORTANT DEADLINE - Early registration discount ends - Talk submission closes - Applications for ASN and SSE student/pdf travel grants close - Applications to volunteer at the conference in return for 100% rebate on early registration fees close - Applications for Mayr and Hamilton awards close. ***Eligible students wanting to apply should register for a regular talk ASAP as these may fill prior to Apr. 15

(you can edit your talk details later)***

OTHER INFORMATION - Consider giving a poster; our poster invite app will allow you to easily invite up to 3 attendees of your choice to come view it. Past years suggest that invited attendees usually come. This can dramatically change the relative value of a poster compared to a talk as you can speak one-on-one with people you choose. - FREE professional childcare available on-site. Bookings is separate from meeting registration. Details on the website. - There are MANY optional events before and during the conference. Many are accessible ONLY to society members. Joining a society (ASN, SSB, and/or SSE) gets you a discount on meeting registration the EXCEEDS the cost of membership. - Sponsor/exhibitor registration is also open. - Safety, Sustainability and Diversity are all important themes of the meeting. Check out the page about each on the meeting website.

mailto:hrundle@uottawa.ca mailto:hrundle@uottawa.ca

Copenhagen Fungal Adaptation Jun16-17

International Symposium on Fungal Adaptation and Evolution - 16th-17th June 2020 Attendance is free - Abstract deadline 7th April 2020 Organised by Benjamin Conlon and Michael Poulsen

We are bringing together leading researchers from around the world for a two-day conference in Copenhagen; with the aim of strengthening research into fungal adaptation and evolution. With funding from the Carlsberg Foundation, we have invited 6 speakers with expertise in complementary aspects of fungal biology:

- Fungal Evolution and taxonomy i. Professor Lynne Boddy, Cardiff University, U.K. ii. Professor Z. Wilhelm de Beer, University of Pretoria, South Africa
- Fungal genetics and adaptation i. Professor Nina Gunde-Cimerman, University of Ljubljana, Slovenia ii. Professor Duur K. Aanen, Wageningen University, The Netherlands
- Chemical Ecology of fungi i. Dr. Christine Beemelmans, Hans-Knöll-Institute, Germany ii. Professor Thomas Ostenfeld Larsen, Technical University of Denmark, Denmark

We invite abstract submission for one of 15 contributed talks as well as a poster session. To assist with travel

costs, we have also secured funding for 10 hotel rooms for contributing speakers who live outside the Greater Copenhagen area. Attendance will be limited with priority given to those who have their abstract selected for a talk or poster. Remaining places will be offered based on sign-up time.

Please download the abstract submission form from our website (www.socialsymbioticevolution.com/-outreach.php) and email to benjamin.conlon@bio.ku.dk before 23.59 on the 7th of April.

Benjamin Hanson Schantz-Conlon
<benjamin.conlon@bio.ku.dk>

Italy CladoceraXII Oct04-10

Dear colleagues,

we are announcing the upcoming Cladocera XII conference to be held in October 2020 in Verbania, Italy.

The conference will merge the traditional triannual Symposium on Cladocera (12th) with the Daphnia Genomics Consortium meeting. It will cover wide range of topics related to the biology of cladocerans (water fleas) as model organisms, including their ecology, evolutionary biology, genomics, diversity and systematics.

The conference website with key information is available at www.cladocera2020.org . When: October 4 to 10, 2020

Where: Hotel Il Chioistro, Verbania, Italy

Registration will be available soon. In case of interest in the meeting, do not hesitate to subscribe for the conference newsletter (<https://www.cladocera2020.org/-newsletter/>) not to miss any important info!

Please, spread this information to all colleagues who might find this event interesting, and mark the conference dates in your diaries!

With regards

Piet Spaak (EAWAG, Switzerland)

— & Adam Petrusek (Charles University, Prague, Czechia)

Cladocera XII organisers

contact: info@cladocera2020.org

Adam Petrusek <petrusek@natur.cuni.cz>

Lausanne Switzerland ModellingEcolEvol Jun25-26

Come to MEEM2020!

The Modelling in Ecology and Evolution Meeting (MEEM2020) will take place in Lausanne, Switzerland on June 25-26, 2020.

It is a conference by and for early-career researchers in ecology and evolution who work with mathematical and computational models.

Submit an abstract before March 15! Keynote speakers: Sébastien Lion, Silvia De Monte, Elisa Thébault, Damaris Zurell. Website: meem2020.org Facebook: @meem2020lausanne

Twitter: @MEEMLausanne

Claire <claire.guerin@evobio.eu>

Lucca Italy Speciation Jan31-Feb5

We are pleased to announce SPECIATION 2021: The Origin and Persistence of Species, the fourth Gordon Research Conference (GRC) dedicated exclusively to speciation research. The conference will be held at the beautiful Renaissance Tuscany Il Ciocco in Lucca, Italy during the week of January 31-February 5, 2021 and is co-chaired by Katie Peichel (University of Bern, Switzerland) and Dan Bolnick (University of Connecticut, USA).

The conference will be directly preceded by a two-day Gordon Research Seminar (GRS) on January 30-31, 2021. The GRS is co-chaired by Joana Meier (Cambridge University, UK) and Jenn Coughlan (University of North Carolina, USA) and offers opportunities for early-career scientists to get involved at the forefront of modern speciation research.

Invited presentations and discussion sessions at both the GRC and GRS will cover a broad array of timely topics in speciation research. Please see the conference website for more details: <https://www.grc.org/speciation-conference/2021/> The list of speakers will be announced

at the end of April, and registration for both conferences will open during the summer of 2020.

Please send questions to: catherine.peichel@iee.unibe.ch

We look forward to seeing you in Italy!

Katie Peichel, Dan Bolnick, Joana Meier, and Jenn Coughlan

Prof. Dr. Catherine (Katie) Peichel Head of Division, Evolutionary Ecology Institute of Ecology and Evolution University of Bern Baltzerstrasse 6 3012 Bern Switzerland website: <http://www.ee.iee.unibe.ch> email: catherine.peichel@iee.unibe.ch phone: 41 31 631 30 22 phone: 41 31 631 30 09 (secretary)

“catherine.peichel@iee.unibe.ch”
<catherine.peichel@iee.unibe.ch>

ManchesterUK EcoEvoMicrobialCommunities Mar19

Dear Evoldir,

Manchester’s first Ecology and Evolution of Microbial Communities symposium (E2MC) will take place this year on Thursday 19th March 2020. Registration and abstract submission are now open!

We are pleased to announce our plenary speakers, Prof. Chris Creevey (Queens University, Belfast), Dr Rachael Antwis (Salford) and Dr Kat Coyte (Manchester).

The goal of the symposium is to bring together a broad group of people studying ecological and evolutionary dynamics within both host-associated and environmental microbial communities. As a bonus, the next day, Manchester’s Molecular and Genome Evolution Symposium will be occurring, studying these evolutionary dynamics at the finer scale (check out their website here).

E2MC is free to attend, but places are limited so please register at <https://eemcmanchester.wordpress.com/-registration/> E2MC will be held at the Manchester Institute of Biotechnology (M1 7DN), easily accessible from both Manchester Oxford and Manchester Piccadilly rail stations.

Do please pass this on to interested people and encourage your colleagues to register and submit abstracts.

For full details please visit: <https://->

eemcmanchester.wordpress.com/ Hope to see you in March!

Chris Knight (chris.knight@manchester.ac.uk), Susanne Shultz (susanne.shultz@manchester.ac.uk) and Kat Coyte (katharine.coyte@manchester.ac.uk)

Danna Gifford <danna.gifford@manchester.ac.uk>

ManchesterUK MolecularGenomeEvolution Mar20

Dear Evoldir,

Manchester's Molecular and Genome Evolution Symposium (#MaGE2020) will take place again this year on **Friday 20th March 2020***. Registration and abstract submission are now open!

We are pleased to announce our plenary speakers, Dr Lucy van Dorp (UCL) and Professor Greg Hurst (Liverpool).

The remit of the symposium is broad, including all aspects of molecular and genome evolution, ranging from genomic analyses or computational algorithm development, to molecular ecology, population genetics, and experimental evolution.

MaGE is free to attend, but places are limited so please register at: <https://manchestermage.wordpress.com/-registration/> Please note we have a different venue this year. MaGE2020 will be held at the Manchester Institute of Biotechnology (M1 7DN), easily accessible from both Manchester Oxford and Manchester Piccadilly rail stations.

Do please pass this on to interested people and encourage your colleagues to register and submit abstracts.

For full details please visit: <https://manchestermage.wordpress.com/> As a bonus this year, Manchester is also hosting E2mc: Ecology and Evolution in Microbial Communities. Please check out their website at: <https://eemcmanchester.wordpress.com/> Hope to see you in March!

MaGE2020 Organisers

Danna Gifford (danna.gifford@manchester.ac.uk) Chris Knight (chris.knight@manchester.ac.uk) Mato Lagator (mato.lagator@manchester.ac.uk)

danna.gifford@manchester.ac.uk

Marseilles EvolBiology Sep22-25

24th Evolutionary Biology Meeting at Marseilles: September 22 - 25.2020 (social events 26-27)

registration Dead line June 30

web : aeb.fr <https://ebm24.sciencesconf.org/> twitter :EvolBiolMeetingMarseilles

The Evolutionary Biology Meeting at Marseilles is an annual congress which gather together International scientists interested in the mechanisms of evolution that generate the incredible diversity of living things found on Earth (and possibly beyond)

If the congress was initially a local meeting, it quickly gained an important weight in the scientific life. Indeed, whereas the number of participants has been increasing, the geographical origin of the researchers has been diversifying and widening year by year.

Today, the Evolutionary Biology Meeting at Marseilles has reached a worldwide dimension and plays a paramount role in the international scientific life: allowing the gathering of high level specialists, it encourages the exchange of ideas and stimulates the works of the researchers all through the world.

The following subjects will be discussed:

- * Evolutionary biology concepts and modeling;
- * Biodiversity and Systematics;
- * Comparative genomics and post-genomics (at all taxonomic levels);
- * Self non Self Evolution
- * Holobiome evolution
- * Environment and biological evolution;
- * Origin of life and exobiology;
- * Non-adaptative versus adaptative evolution;
- * The « minor » phyla: their usefulness in evolutionary biology knowledge;
- * Convergent evolution
- * Evolution of complex traits (Evo-Devo)

Pierre Pontarotti DR CNRS Evolutionary Biology team. 1)Aix Marseille Univ IRD, APHM, MEPHI, IHU Méditerranée Infection,Marseille France 2)SNC5039 CNRS

19-21 Boulevard Jean Moulin 13005 Marseille

tel 33 (0) 4 13 7 32425 <https://sites.google.com/view/pontarotti/> we are organizing the 24th evolutionary biology meeting at Marseilles September : 22-25 2020 web : aeb.fr twitter :EvolBiolMeetingMarseilles <https://ebm24.sciencesconf.org/> < <https://twitter.com/pontarotti> >

PONTAROTTI Pierre <pierre.pontarotti@univ-amu.fr>

Montpellier InfectiousDiseases Jun14-17

Dear Colleagues,

We would like to announce that registration for the 18th Ecology and Evolution of Infectious Disease meeting in Montpellier, 14 - 17 June 2020 is now open. Early bird registration available until 31st March.

The EEID Conferences is a major international scientific meeting that brings together more than 400 participants each year on the study of the epidemiology and evolution of infectious diseases. The purpose of this conference is to bring together a very active scientific community working on infectious diseases and combining approaches from epidemiology, ecology and evolutionary biology. The meeting will be centred around 4 key themes, with 8 keynote speakers

1. 'The crazy life of microbes', keynote speakers Stéphane Blanc and Kimberley Seed.
2. 'Disease control: epidemiological, ecological and evolutionary consequences', keynote speakers Jessica Metcalfe and Scott Nuismer.
3. 'Diversity of host resistance to pathogens', keynote speakers Anne Chevallereau and Jean-Benoit Morel.
4. 'Using genomics and immunity to infer pathogen dynamics', keynote speakers Tanja Stadler and Henrik Salje.

For more information about the event you can check our website at 'www.eeidconference2020.org' our Facebook page and follow us on Twitter '@EEID_2020'.

We look forward to seeing you there.

The Organising Committee, Thierry Boulinier, Nathalie Charbonnel, Alison Duncan, Sylvain Gandon, Ana Rivero, Benjamin Roche and Philippe Roumagnac.

alison duncan <Alison.Duncan@umontpellier.fr>

Montpellier Marine Epigenetics May13-14

Dear evoldir lister,

Some places are still available for EPIMAR 2020 (EPIgenetics in MARine biology congress EPIMAR) that will be held on May 13th-14th, 2020 in Montpellier, France.

We have extended the deadline for abstract submission and inscription. Registration (up to the 1st of April) and abstract submission (up to the 1st of March) on the epimar website <http://epimar.univ-perp.fr/>. This first edition will explore cutting-edge aspects of epigenetics in marine biology: environmental epigenetics, developmental epigenetics and epigenetics in aquaculture. EPIMAR2020 aims at gathering scientists with interest in this field which has recently gained an increasing interest among all the scientific communities in biology.

Do not hesitate to share this message through your department and institution mailing list colleagues.

Looking forward to welcome you in Montpellier,

Celine, Rossana, Guillaume and Jeremie

"Jeremie.Vidal.Dupiol@ifremer.fr"

<Jeremie.Vidal.Dupiol@ifremer.fr>

Montpellier MathCompEvolBiol Jun1-5

PLEASE FORWARD THIS ANNOUNCEMENT! REGISTRATION DEADLINE IS APPROACHING!!

MCEB - Mathematical and Computational Evolutionary Biology - 2020, June 1-5th

Hameau de l'Etoile, Montpellier, South of France

Webpage: <http://www.lirmm.fr/mceb2020/> Pre-registration and abstract submission deadline: 2020 March 2nd Notification to applicants: 2020 March 23rd Final list of attendees: 2020 April 15th

Scope: Mathematical and computational tools and concepts form an essential basis for modern evolutionary studies. The goal of the MCEB conference (at its 12th edition) is to bring together scientists with diverse backgrounds to present recent advances and discuss open problems in the field of mathematical and computational evolutionary biology. The theme of this year's edition will be on "Climate Changes and their

Impacts on Evolution", in particular the preservation of biodiversity, the conservation of species, the study of ecosystems and their dynamics, and the reconstruction of major past changes of climate and living conditions on Earth. All speakers will be kindly asked to say a few

words (or a full talk!) on these crucial questions and how they interfere with their own research. Moreover, special attention will be given to Machine Learning approaches, which should be key in the development of complex models and the analysis of big data sets. General concepts, models, methods and algorithms will also be presented and discussed, just as during the previous conference editions.

Where and when: Hameau de l'Etoile, near Montpellier, in the South of France,

June 1-5, 2020. The conference will begin Monday evening with an aperitif and dinner, and will end at about 2pm on Friday.

Cost: around 500 euro (includes accommodation for four nights, meals, coffee breaks, bus shuttle service, etc.).

Keynote speakers:

* Bastien Boussau (Laboratoire de Biométrie et Biologie Evolutive, CNRS, Lyon, FR) <https://lbbe.univ-lyon1.fr/-Boussau-Bastien-.html> Adaptation of grasses to climate change: past and present

* Lounes Chikhi (Instituto Gulbenkian, Lisboa, and CNRS, Toulouse, FR) <http://www.igc.gulbenkian.pt/-lchikhi> Population and Conservation Genetics

* Christophe Dessimoz (University of Lausanne, CH) <https://lab.dessimoz.org/people/christophe-dessimoz> The Quest for Orthologs

* Simon Gravel (Mc Gill University, Montreal, CA) <http://simongravel.lab.mcgill.ca/research.html> Population Genetics and Genomics

* Michel Milinkovitch (Université de Genève, CH) <https://www.lanevol.org/> Convergent evolution of pattern formation

* Ophélie Ronce (ISEM, Montpellier, FR) <http://www.isem.univ-montp2.fr/en/personnel/teams/-metapopulation/ronce-ophelie.index/> Evolutionary and Demographic Dynamics

* Tandy Warnow (University of Illinois, USA) <http://tandy.cs.illinois.edu/> Large Scale Phylogenomic Estimation

For more information and online registration: <http://www.lirmm.fr/mceb2020/> PLEASE FORWARD THIS ANNOUNCEMENT!

Olivier GASCUEL <olivier.gascuel@pasteur.fr>

Montpellier MathComputEvolBiol Jun1-5 LastCall

PLEASE FORWARD THIS ANNOUNCEMENT!

LAST CALL

DEADLINE EXTENSION TO MARCH 10

MCEB - Mathematical and Computational Evolutionary Biology - 2020, June 1-5th

Hameau de l'Etoile, Montpellier, South of France

Webpage: <http://www.lirmm.fr/mceb2020/>

Pre-registration and abstract submission deadline: 2020

March 10 Notification to applicants: 2020 March 23rd

Final list of attendees: 2020 April 15th

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* Lounes Chikhi (Instituto Gulbenkian, Lisboa, and CNRS, Toulouse, FR) <http://www.igc.gulbenkian.pt/-lchikhi> Population and Conservation Genetics

* Christophe Dessimoz (University of Lausanne, CH) <https://lab.dessimoz.org/people/christophe-dessimoz> The Quest for Orthologs

* Simon Gravel (Mc Gill University, Montreal, CA) <http://simongravel.lab.mcgill.ca/research.html> Population Genetics and Genomics

* Michel Milinkovitch (Université de Genève, CH) <https://www.lanevol.org/> Convergent evolution of pattern formation

* Ophélie Ronce (ISEM, Montpellier, FR) <http://www.isem.univ-montp2.fr/en/personnel/teams/-metapopulation/ronce-ophelie.index/> Evolutionary and Demographic Dynamics

* Tandy Warnow (University of Illinois, USA) <http://tandy.cs.illinois.edu/> Large Scale Phylogenomic Estimation

For more information and online registration: <http://www.lirimm.fr/mceb2020/> PLEASE FORWARD THIS ANNOUNCEMENT!

Olivier GASCUEL <olivier.gascuel@pasteur.fr>

Napoli EvoDevo Registration

Dear EvoDevo community,

We are pleased to announce that the registration for the 8th Euro Evo Devo Conference in Napoli is now open! The conference website is: <https://www.evodevo2020.eu/> For social media posts related to the conference please use the hashtag *#EEDNapoli*.

Please note:— It has come to our attention that companies (e.g.Ehotelservices.org) have contacted EuroEvoDevo members or symposium speakers regarding hotel bookings. *This is a scam. *The EED does not book rooms for speakers, and we will not email or call you and request credit card information. Official partner hotels for the Euro Evo Devo conference are listed on the conference webpage (<https://www.evodevo2020.eu/-hotels/>), but bookings have to be made by contacting the hotels directly.

We are looking forward to seeing you in Napoli!

On behalf of the executive and local organizing committee, Rainer Melzer Secretary

EuroEvoDevo <eed.soc@gmail.com>

Netherlands NLSEB Apr21

Dear colleague

Last chance to submit your abstract for the third conference of the Netherlands Society for Evolutionary Biology (NLSEB): <http://nlseb.nl/nlseb2020/> The deadline for abstract submission and registration has been slightly extended until February 21.

Don't miss this opportunity to connect with your fellow evolutionary biologists!

The program contains exciting plenary talks as well as parallel sessions with presentations selected from the abstracts. There will be two poster sessions, and there are plenty of networking opportunities during lunch and dinner, including a meet-the-editors with Vera Dos Santos Domingues (Editor Nature Ecology & Evolution) and Jon Slate (Editor Evolution Letters).

NLSEB 2020 will be held on April 21 at Akoesticum in Ede. For the provisional program and registration, see <http://nlseb.nl/nlseb2020/> . The NLSEB 2020 Conference organising committee

Marian Bemer | Jacintha Ellers | Casper van der Kooij | Jeroen Meijer | Katja Peijnenburg | Sijmen Schoustra | Arjan de Visser

e-mail: meeting@nlseb.nl

NewYorkU EvoDevo May18

Dear evolutionary biologists,

Come for free, participate in our round table discussions, and honor a great scientist and person, that did so much for the study of evolution and development, particularly of musculoskeletal structures. Free and open to anyone interested, with an amazing list of speakers and talks, covering different parts of the body and all types of chordates, as none of the most renowned scientists in

our field that was invited wanted to miss this unique opportunity to honor the amazing Drew Noden.

The full list of talks is below:

Adachi, Noritaka: Cardiopharyngeal mesoderm origins of musculoskeletal and connective tissues in the mammalian pharynx

Charvet, Christine: Translating time from structural and transcriptional variation

Christaen, Lionel: The cardiopharyngeal paradigm: lessons from a simple chordate

Diaz, Raul: Comparative development of Squamate musculature

Diogo, Rui: From Noden to Evolutionary Developmental Pathology: anatomy, evolution, development, variations, and pathologies

Kelly, Robert: Patterning the second heart field

Laitman, Jeffrey: Developmental change in the human larynx and aerodigestive tract

Lescoart, Fabienne: Cardiac and skeletal myogenic potential of cardiopharyngeal mesoderm

Marcucio, Ralph: Learning How the Embryo Teaches Us

Newman, Stuart: Drew Noden's assimilation of the neural crest into evolutionary developmental biology

Noden, Drew: The Legacy of Experimental Embryology: Is It Relevant Today

Sambasivan, Ramkumar: Genetic program regulating head mesoderm specification

Schneider, Richard: Neural crest and the origins of species-specific pattern

Tajbakhsh, Shahragim: Facing cranial muscle diversity

Trainor, Paul: Plasticity in Neural Crest Cell Development, Disease and Evolution

Tzahor, Eldad: The head musculature and heart developmental link

Ziermann, Janine: From Noden's Avian Craniofacial Muscle Differentiation to Sequence Heterochrony in Amphibians and beyond

Svoboda, Kathy: The contribution of Gli1 cells to anterior eye postnatal development in mice

Rui Boliqueime Martins Diogo
<ruidiogo@gwmail.gwu.edu>

Paris Evolution Alternative Splicing Jun22-23

Dear all,

It is my pleasure to announce the upcoming meeting

“From A to S: the FunctionS of Alternative Splicing” which will be held on June 22-23 2020 at Sorbonne University, in Paris, France.

With this conference, we aim at bringing together theoreticians and experimentalists working on the subject of alternative splicing. A session will be specifically dedicated to the emergence of new isoforms and splicing patterns in evolution. The advent of RNA-seq has enabled deep surveys of the splicing complexity across species. Contributions presenting new developments to leverage on these data toward elucidating how splicing has evolved and has contributed to tissue diversification will be particularly welcome.

Maybe you would be interested in contributing with a talk or simply attending the conference? Please, could you spread the word and send your students if you cannot attend?

For more information visit the conference website: <https://fas.sciencesconf.org> . Registrations are now open and will be free until the end of March. They will be closed on May 7th or earlier if the maximum number of attendees is reached (100 participants).

We hope to see you in June!

Best regards,

FAS 2020 scientific committee: Elodie Laine Reini F
Luco Hugues Richard

– Elodie LAINE Assistant Professor LCQB Sorbonne Université 7-9, quai Saint-Bernard | 75005 Paris +33(0)1.44.27.73.25 <http://www.lcqb.upmc.fr/laine/-elodie.laine@sorbonne-universite.fr>

Elodie Laine <elodie.laine@upmc.fr>

QuebecCity SMBE Jun28-Jul2 AbstractDeadlineExtended

SMBE 2020 - Late-breaking Abstract submission deadline for posters extended to 30 March

The abstract submission deadline for posters only has been extended to 30th March 2020 23:59 GMT. Please be aware that this deadline will not be extended and that applications for SMBE awards 2020 can now no longer be considered. Abstracts should be no longer than 2500 characters (~250 words), with a title no longer than 300 characters. Full details on abstract topics, guidance and the submission portal can be found [here](#).

A range of sponsorship opportunities have been developed for the meeting, if interested please contact SMBE2020@mci-group.com.

For any queries over abstracts or registration, please contact SMBE2020@mci-group.com.

Society for Molecular Biology & Evolution
sambe@allenpress.com

Society for Molecular Biology & Evolution
<sambe@allenpress.com>

QuebecCity SMBE Jun28-Jul2 RegistrationIsOpen

SMBE 2020, June 28th-July 2nd 2020, Québec City, QC, Canada Registration is Open

Dear Colleague, We are delighted to announce that registration for SMBE 2020 is now live. SMBE 2020 is taking place in Québec city, QC, Canada on June 28th-July 2nd 2020 at the Québec Convention Center. Full details on the symposia programme and confirmed keynote speakers can be viewed [here](#). Information on the registration fees can be viewed [here](#). Register before the early bird deadline on April 1st, 2020 in order to secure discounted registration rates. Please note that in order to receive a discounted member-rate registration you will be asked to provide your SMBE member number. You can book your accommodation from a range of city centre properties from inside the registration system.

As always SMBE are keen to ensure good international representation. Support will be provided to all delegates that may require additional documentation in order to secure a visa to Canada. Please check if you require a visa for Canada. You can request support for your Visa application within the registration portal. Select the Visa application support letter and submit the required details. You will then receive a covering letter confirming your attendance at SMBE 2020. Childcare facility will be provided on-site for SMBE 2020 delegates. During the registration process please advise whether you would like to make use of the facility and add details on the age of your child. Further details will be shared on the facility nearer the time. Attendees can apply for Carer Awards as part of conference registration or by email to sambe.contact@gmail.com if an earlier response is needed. SMBE will make available up to \$2000 to SMBE members with children or dependent adults (including adult children with a disability or elderly relatives) to spend as they wish to facilitate the member's attendance at the annual SMBE meeting. Examples of eligible expenses include (but are not limited to) providing airfare for your child or for your caregiver to accompany you, flying a relative out to help with care at your home while you're at the meeting, or extra help paying for on-site daycare. A range of sponsorship opportunities have been developed for the meeting, if interested please contact SMBE2020@mci-group.com. For any queries over abstracts or registration, please contact SMBE2020@mci-group.com.

Society for Molecular Biology & Evolution
sambe@allenpress.com

sambe.contact@gmail.com

Rochester GreatLakesEvolutionaryGenomics May29

The Great Lakes Annual Meeting in Evolutionary Genomics will be held on Friday May 29, 2020 at the University of Rochester. GLAM-evogen is an annual symposium that brings together faculty and trainees in the Great Lakes region from a range of backgrounds who work at the interface of genomics and evolutionary biology. The meeting is trainee-oriented and a great venue to meet others, present your work, and hear about undergraduate, graduate, and postdoctoral research projects. Registration for the meeting is now open [here](https://-): <https://->

forms.gle/249gw1NaPUTB8rbK7. The registration and abstract submission deadline is April 1st. More information is online at: http://blogs.rochester.edu/EEB/?page_id=3D30552. Last year's meeting at the University of Buffalo had over 100 attendees, and enthusiasm for this year's meeting is high. We hope you will join us for GLAM-evogen 2020 at the University of Rochester.

If you would like to stay updated and receive information about the meeting, you can join the GLAM-evogen group here: <https://groups.google.com/forum/#!forum/glamevogen>
< [*Nancy Chen, Ph.D.* Assistant Professor Department of Biology University of Rochester \[popgenchen-lab.github.io/\]\(https://popgenchen-lab.github.io/\)](https://urldefense.proofpoint.com/v2/url?u=3Dhttps-3A-groups.google.com_forum-23-21forum_glamevogen&d=DwMFaQ&c=-kbfwr1YoJg42sGEpaQh5ofMHBeTl9EI2eaqQZhHbOU&r=PZvE7x2LvYJ78I9H70aZpSKHm_ikz9f4Ltg6YHGsyPE&m=yBczC1rycuaxLn37n_Zurl5qESc51geNYOT5bVKgKAs&s=I0qDWtsKk-AYUvt0VlvPTjPaO6_ehuOw7nMprIY6KR4&e=></p>
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Pronouns: she/her/hers

"nancy.chen@rochester.edu"
<nancy.chen@rochester.edu>

Snowbird Utah GenesAsEnvironment May31-Jun2

Early Registration is now open for AGA2020: Genes as Environment: Indirect Genetic Effects in Evolution, Agriculture, and Medicine The American Genetic Association 2020 President's Symposium May 31 through June 2 in Snowbird, Utah

Indirect genetic effects (IGE) are genetic effects of an individual on the trait values of others in the same species. These effects are also known as social or associative genetic effects. IGE provides a unifying framework for traditional quantitative genetics, maternal and paternal genetic effects, inclusive fitness, and multilevel selection.

We hold the friendliest symposia - small meetings in lovely settings, providing great opportunities to interact with the best in the field.

AGA members receive significant discounts on symposium registration. Student and postdoc members receive free registration if they submit a poster abstract early,

and have the chance to be selected for an oral presentation and travel award.

Check out our speaker lineup: Key Distinguished Lecture: Allen J. Moore Nathan Bailey Amelie Baud Piter Bijma Butch Brodie Nancy Chen Niels Dingemans Kathleen Donohue Courtney Fitzpatrick Maren Friesen Andrew McAdam Joel McGlothlin Stephanie Porter David Rand Julia Saltz Nora Underwood Michael Wade Alastair Wilson

Join us in Snowbird! <https://www.theaga.org/agatwentytwenty.htm> theaga@theaga.org

Switzerland NicheEvolution Jul19-23

Conference on "Constraints on species' \hat{A} ranges and niche evolution", from 19 to 23 July 2020 in Ascona, Switzerland.

The aim of the conference is to synthesize perspectives on the causes of range limits and constraints on the evolution of the ecological niche. Our goal is to bring together researchers with ecophysiological, genomic, quantitative genetic, and community ecology perspectives to share ideas and find ways to generate new insights by combining these complementary approaches to study ecological niches.

There will be a maximum of 80 participants. We aim for close interaction among participants during scientific presentations and informal conversations in a beautiful setting at Monte Verit \hat{A} \hat{A} in southern Switzerland. The scientific program will consist of posters, short talks, keynote talks, and breakout sessions. For more information about the program, focus topics, keynote speakers, venue and registration please go to the homepage <https://duw.unibas.ch/de/csf-2020/> Deadline for registering is 15 March 2020. Young researchers (PhD students and early postdocs) may apply for financial support to franziska.grob@unibas.ch by 15 February 2020 (for specific information see <https://duw.unibas.ch/de/csf-2020/>).

We hope to see you in Switzerland in July 2020. Feel welcome to contact us if you have any questions regarding the conference.

The organizers,

Yvonne Willi, Univ. Basel Torsten Kristensen, Univ. Aalborg Josh Van Buskirk, Univ. Z \hat{A} 'rich Jake Alexan-

der, ETH Z Ä 'rich

Emails to Franziska Grob, Univ. Basel:
franziska.grob@unibas.ch

Yvonne Willi <yvonne.willi@unibas.ch>

UMalaga NatureConservation Sep17-20

Dear all,

Nature and Oceans of Americas and Botanical Garden of University "Marta Abreu" de las Villas, Cuba in collaboration with The Center of Scientific Collections of the Almer  a University (CECOUAL) and The Andalusian Center for the Assessment and Monitoring of Global Change(CAESCG), is also glad to announce the 5th Symposium on Biodiversity and Nature Conservation: Dissemination and transfer of knowledge among all social sectors.

The fifth annual Symposium will take place on September 17-20th, 2020 at the University of Malaga, Spain.

This will become a great venue for a diversity of researchers, managers, conservationists, environmental journalists, and the general public, so we hope to attract a diverse group.

Information about our meeting:

Our goal is to better integrate all society sectors focused on conservation. We plan to continue annual workshops in every corner of Spain. This will be our 5th annual meeting and we have been attracting scientists from all over the country and overseas.

Registrations are now open.

Abstract and early bird registration is due on June 1st, 2020.

Symposium has a limited capacity of students.

Link to meeting information: <https://congresoconserbio.com> <http://www.facebook.com/conserbio/> For further information, please feel free to contact us: infoconserbio@gmail.com

The organizing committee

marga lopez rivas <margafflor13@hotmail.com>

YosemiteNatIPark Symbiosis May15-17

Dear Colleagues,

Registration is NOW OPEN for the 10th Annual Yosemite Symbiosis Workshop!

<http://www.sachslab.com/symbiosis-2015.php> The TENTH annual Yosemite Symbiosis Workshop will take place on May 15-17, 2020 at the Sierra Nevada Research Institute, Yosemite National Park.

Keynote speaker 2020: Martin Kaltenpoth Professor, Johannes Gutenberg University, Mainz

Information about our meeting:

Why: Our continuing goal is to better integrate the broad groups of scientists that focus on symbiosis and microbiome research. Yosemite serves as an ideal site as it is both beautiful and secluded. This will be our TENTH annual meeting and we have been consistently attracting scientists from all over the United States and overseas.

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

When: The talks and formal meeting will be held 16-17, 2020, though we make accommodation arrangements available for attendees to arrive on Friday the 15th to provide opportunities to enjoy the park. Since time at the conference is limited, we ask attendees to submit an abstract and a preference (talk versus poster). Priority will be given to those presenting.

Past attendees and talks can be found here: <http://www.sachslab.com/symbiosis-2015.php> Where: SNRS has a set of cabins in Wawona and all within a short walk of the conference room. Costs: See details in the registration page (up soon). We will only be able to accept credit card payments this year

Please follow the below link to the registration page. You must register and provide payment to be fully reg-

istered to attend the meeting. The payment link can be found within the registration page and is also found below.

Registration Page: <https://snri.ucmerced.edu/-form/symbiosis-workshop-2020-registration> Pay-

ment Link (found on the registration site) https://commerce.cashnet.com/cashneti/selfserve/-EditItem.aspx?PC=F103_W2-SYWK&ItemCount=1
More information: <http://www.sachslab.com/symbiosis-2015.php> “joels@ucr.edu” <joels@ucr.edu>

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Basel Switzerland SexualSelection

PhD on “Sexual Selection and Sexual Conflict in Hermaphrodites”

A PhD position, funded by the Swiss National Science Foundation (SNSF), is available in the Schärer Group (<http://evolution.unibas.ch/scharer/>) at the Zoological Institute, University of Basel, Switzerland. The ideal start date is 1. April 2020 (with some flexibility).

Research in our group focuses on the evolutionary biology of reproduction in simultaneous hermaphrodites,

and uses small and transparent free-living flatworms of the genus *Macrostomum* as models, permitting the study of many reproductive processes in vivo. We employ diverse approaches, including laboratory experiments, field work, transgenesis, genomics, phylogenomics, and the comparative method. Moreover, one species we study, *Macrostomum lignano*, is a well-established model whose genome was recently published, and that is used to study stem cell biology, regeneration, ageing, and bioadhesion.

The PhD is part of a larger project aimed at deepening our understanding of two closely related *Macrostomum* species. One species, *Macrostomum cliftonensis*, shows the ‘reciprocal mating syndrome’, where worms mate and transfer sperm reciprocally into the partner’s female genitalia. This leads to sexual conflicts over the

fate of the received ejaculate, and involves an intriguing post-copulatory 'suck' behaviour aimed at removing received sperm. The other species, *Macrostomum hystrix*, shows the 'hypodermic mating syndrome', where sperm is transferred via hypodermic insemination. Here the sperm have to navigate through the partner's body to the site of fertilisation. A primary aim of the PhD is to study and contrast different processes of post-copulatory sexual selection between the two mating syndromes, by taking advantage of sperm tracking in these transparent worms (as done previously for *Macrostomum lignano*), using immunocytochemical labelling of sperm and/or the establishment of transgenic worms with GFP-expressing sperm.

The successful PhD candidate will be independent, hard-working, inquisitive, creative, and collaborative. Moreover, he/she should have a keen interest in evolutionary biology and must be willing to learn new techniques and approaches. Documented skills in molecular biology and microinjection are a clear advantage, as is experience with working with small organisms. But the willingness and determination to learn new skills is much more important. A MSc or equivalent education is required for this position.

The Zoological Institute is a stimulating and international research environment with English as the primary language (<http://evolution.unibas.ch/research.htm>). The Institute has a strong background in experimental design, statistics, population genetics, quantitative genetics, genomics and molecular biology. It is an ideal place for a PhD in modern evolutionary biology. Basel is the third largest city in Switzerland and attractively situated at the foot of the Jura mountains. It has the beautiful river Rhine, and directly borders Germany and France, thus offering rich culinary, cultural, and outdoor activities.

To apply, please send a letter of motivation, a CV, contact details of 2 referees, and a copy of your MSc thesis (if available) to lukas.scharer@unibas.ch (electronic applications in a single file preferred). Review of applications starts on February 28, but applications will be considered until the position is filled.

PD Dr. Lukas Scharer University of Basel Department of Environmental Sciences Zoological Institute Vesalgasse 1 4051 Basel Switzerland

Tel: ++41 61 207 03 66 Fax: ++41 61 207 03 62
Email: lukas.scharer@unibas.ch Skype: [lukas.scharer](https://www.skype.com/en/contacts/lukas.scharer)
Homepage: <http://evolution.unibas.ch/scharer/> Lukas Schärer <lukas.scharer@unibas.ch>

CharlesU Prague 2 PlantEvolution

***ERC-funded PhD Position in Adaptive value of Polyploidy

Group of Ecological Genomics (Filip Kolař) Department of Botany, Charles University, Prague, Czech Republic <https://botany.natur.cuni.cz/ecolgen> Whole genome duplication (WGD, polyploidization) is a dramatic genome-wide mutation whose ubiquity across eukaryotes suggests an adaptive benefit, although underlying mechanism remains unknown. In the project, the successful applicant will test if WGD promotes adaptation in natural plant populations and aim to uncover the mechanism. To move beyond correlative studies, the work will combine transplant experiments and population genomics. We will build on our previous research in *Arabidopsis arenosa* model that demonstrated that WGD can increase the capacity of natural populations to accumulate adaptive variation. This project will extend to additional plant species in order to discern generality.

The successful applicant will join a multidisciplinary team of Ecological Genomics lead by Filip Kolař and will interact with international collaborators Prof. Christian Parisod (Univ. Bern, CH) and Prof. Levi Yant (Univ. Nottingham, UK). The position will be funded by a new ERC Starting Grant DOUBLE ADAPT.

**The potential range of methodologies will be - field-work in natural populations and ploidy screening using flow cytometry - transplant experiments addressing adaptive response towards model stress environment (challenging soil) - experiments with experimentally synthesized polyploid lineages to isolate the net effect of WGD - inference of selection in genomes of natural and experimental populations

**We offer - creative and supporting atmosphere in international team of Ecological Genomics - monthly salary of ~1000 EUR net, competitive within the city of Prague (with subsequent rise with the progress of the study duties) - additional experience through international collaboration - work in the historical centre of a vibrant cultural Prague city

**We require - strong motivation for interdisciplinary research at the border of ecology, evolutionary biology and population genetics - a MSc degree in Biology or related fields (in summer 2020 at the latest)

**Desirable but not required - experience with design

and evaluation of ecological experiments - background in population genetics/experience with processing high-throughput sequence data - experience with fieldwork and flow cytometric analyses

Please send your CV, contact details for two referees and a half-page motivation letter to Filip Kolař (filip.kolar@natur.cuni.cz). Review of the applications will begin on February 28th 2020 and will continue until the position has been filled. The exact start date is negotiable.

– Filip Kolař Department of Botany Faculty of Science, Charles University Benatska 2, CZ - 128 01, Prague, Czech Republic *<https://botany.natur.cuni.cz/ecolgen/>

***PhD Position in Polyploid speciation in plants

Group of Ecological Genomics (Filip Kolař) Department of Botany, Charles University, Prague, Czech Republic <https://botany.natur.cuni.cz/ecolgen> Genome duplication is a dominant force in sympatric speciation but our recent investigations demonstrated that the barrier posed by doubled genome is leaky. Yet mechanisms allowing genome permeability between individuals of different ploidy and its evolutionary consequences remain elusive. In this project, we aim at dissecting mechanism of ploidy-related crossing barrier, testing its conservation across different flowering plant species and inferring role of selection in shaping inter-ploidy gene flow in natural populations. The results can shift our perception of polyploidy towards speciation-with-gene-flow scenarios.

The successful applicant will join the multidisciplinary team of Ecological Genomics at Charles University in Prague lead by Filip Kolař. The work will be done in close collaboration with Clement Lafon Placette (Charles Univ., <https://lab-alliance.natur.cuni.cz/plantproevo>) and Mario Vallejo Marin (University of Stirling, UK, <http://www.plant-evolution.org>).

**The main focus of the work will be - fieldwork in natural populations and ploidy screening using flow cytometry - crossing experiment addressing range of barriers against gene flow between individuals of different ploidy - addressing parallelism in the mechanism of triploid block using transcriptomic analysis (RNAseq) and confocal microscopy of seeds - population genomic investigations of gene flow in natural populations (analysis of genome-wide variation by genome resequencing)

**We offer - creative and supporting atmosphere in closely interacting Ecological Genomics and Plant Reproduction Evolution Labs

— / —

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>

CityU HongKong MammalEvoDevo

Our newly established lab at the Jockey Club College of Veterinary Medicine and Life Sciences, City University of Hong Kong has vacancy for fully funded Ph.D. student positions. The group is mainly interested in the embryology, evolution, development, and paleontology of mammalian body structure. Our group is equipped with two cutting-edge microCTs, histological instruments, and fluorescent microscopes). For previous publications from the lab, see <https://scholar.google.com/citations?user=Y4PkKWQAAAAJ&hl=ja> City University of Hong Kong is a fast-growing international university ranked #15 in Asia and #52 globally (QS World ranking). The official language of the University is English, and all university activities are done in English.

The successful candidate should have a strong background in evolutionary biology or developmental biology. Masters' degree is preferable but not required. Students will receive fully-funded salary of 16,500 HKD (c.a. 2,100 USD) per month, up to four years. Start dates are flexible, but should be later than July 2020. The successful candidate will initiate research in one of following areas. - Developmental genetics of anatomical innovations in bats - Developmental genetics and paleontology of skull bauplan in amniotes - Skull cartilage (chondrocranium) evolution in mammals - Taxonomic and biodiversity studies of Hong Kong local mammals

Interested candidates should send the following documents to Prof. Koyabu by email (dkoyabu@cityu.edu.hk). Applications will be considered until the positions are filled.

1) CV 2) A brief account of the your research interests and motivation for applying for the position 3) The names and contact information of two reference persons

Lab page: <https://sites.google.com/site/daisukekoyabuen/home> dkoyabu@cityu.edu.hk

CologneU Evolutionary Genetics- Floodplain Species

A PhD position is available in the research group of Prof. Juliette de Meaux at the University of Cologne. The PhD student will investigate the Genetics of Arabis Floodplain Species.

The lab has recently discovered that the closely related species *Arabis nemorensis*, *A. sagittata* and *A. hirsuta* are all present in floodplain meadows along the Rhine, Danube and Elb rivers. Phenotypic studies have shown that these species differ in various traits affecting their ability to cope with abiotic stress and competition. For this project, the PhD candidate will use quantitative genetics and transcriptomics approaches to determine the genetic basis of these differences. The PhD candidate will acquire a broad array of skills ranging from genomics to molecular genetics and ecology, and develop a solid basis in data management and analysis.

The applicant must hold a Master degree in Biology (or Bioinformatics) and prove interest in plant molecular, population or ecological genetics. Experience in plant stress physiology or statistical analysis of quantitative data is welcome. This position is open to applicants of all nationalities but the usual language in the lab is English. Applications or questions regarding the position should be sent by mail to jdemeaux@uni-koeln.de, with the following subject line - PhD application Floodplain species - de Meaux lab. A letter of motivation, a CV and the contact to at least 2 referees should be provided, all in a single pdf file.— Revision of applications will begin immediately and continue until the position is filled. Funding is for 3-4 years starting at earliest convenience. For more information on our lab and research visit our website <http://www.botanik.uni-koeln.de/1146.html> Interested students currently completing their Master thesis are encouraged to informally contact the PI because the starting date can be adjusted.

Cologne is Germany's vibrant Metropolis on the Rhine. The city is well known for its wild carnival, its famous Kölsch beer, its Cathedral and its vivid contemporary art and musical scene. Cologne is the fourth biggest city in Germany with over a million inhabitants from all over the world and an interesting mix of restored historic buildings and modern post-war architecture. Most importantly, Cologne University is one of the oldest and largest Universities in the Country. Our research

group is hosted at the Biological Center of the University of Cologne and associated to the Excellence Research Cluster CEPLAS (<http://ceplas.eu/de/>), which fosters active interactions between plant scientists of the Universities of Cologne, Düsseldorf and the Max Planck Institute of Plant Breeding Research. In this context, our PhD students are assured to start their scientific career in a world-class scientific environment.

Juliette de Meaux <jdemeaux@uni-koeln.de>

EstonianU Fish Genome Adaptation

PhD position on bioinformatic analysis of molecular mechanisms of humic adaptation in fish

We are looking for an enthusiastic PhD student for studying molecular mechanisms of humic substance-driven (darkwater) adaptation in Eurasian perch. The successful PhD candidate will be part of an active international team working with genomics and molecular ecology of aquatic organisms at the Estonian University of Life Sciences.

Analysis of local adaptation is one of the most active fields of research in evolutionary biology but despite enormous interest and a growing number of analysis tools, molecular mechanisms of local adaptation at different levels of biological complexity are still largely unknown. In this project, we combine whole-genome and transcriptome sequencing, measurements of ecologically relevant phenotypic variation and whole-organism performance within the common-garden framework to shed light on causes and consequences of adaptation to extreme humic conditions in aquatic environment. By using Eurasian perch (*Perca fluviatilis*) as a model species, we aim to: 1. Identify humic substance-driven selective footprints in boreal lakes based on whole-genome SNP analysis testing the hypothesis that humic-acid driven adaptation in perch involves multiple biological processes, traits and genes associated with both abiotic (low pH and O₂, impaired visual environment) and biotic factors, such as differences in parasite fauna. 2. Characterize structural variation in perch and evaluate potential links to humic substance-driven adaptation. 3. Predict and characterize slightly deleterious protein-coding variation in perch genome evaluating how small population sizes lead to increased frequency of slightly deleterious mutations.

Qualifications required: To be eligible for a PhD-student position the applicant must hold a master's degree (or

equivalent) in Evolutionary Biology, Population Genetics, Bioinformatics or a related field. Candidates must be able to express themselves in spoken as well as written English.

Qualifications desired: We are looking for a highly motivated candidate with experience in bioinformatics, evolutionary biology, genomics, or other closely related fields of research. Applicants with a strong background in next-generation sequencing data analysis, transcriptomics, population genomics or related fields will be highly ranked. It is desirable that candidates are familiar with one or more programming languages (such as Python, Perl, or R).

Application: The application should include 1) a letter of intent describing yourself, your research interests and motivation of why you want to do a PhD, and why you are suitable for the position, 2) your complete CV, including a short description of your education, 3) a copy of your master thesis if available and your course grades, 4) the names and contact information to at least two reference persons (e-mail address and phone no.). The application should be written in English and sent to: anti.vasemagi@slu.se and riho.gross@emu.ee.

Starting date: September 2020 or as otherwise agreed.

Salary/Scholarship: According to local agreement for PhD students.

Position: Fixed term position of junior research fellow according to the Higher Education Act chapter 5 § 33-34 (<https://www.riigiteataja.ee/en/eli/ee/Riigikogu/act/529082019022/consolide>). The PhD program covers four years of full-time study. The salary/scholarship will be set according to local agreements. Rules governing PhD candidates are set out in the Higher Education Act Chapter 3, §§ 12-13 (<https://www.riigiteataja.ee/en/eli/ee/Riigikogu/act/529082019022/consolide>) and in Estonian University of Life Sciences' rules and guidelines (<https://www.emu.ee/en/admissions/doctoral-studies/admission-requirements/>). More information about PhD studies at Estonian University of Life Sciences is available at <https://www.emu.ee/en/admissions/doctoral-studies/> and about studies in Estonia in general at <http://www.studyinestonia.ee/en>. Please submit your application at the latest by 31st of March 2020

Who we are: Estonian University of Life Sciences (<https://www.emu.ee/en/home/>) is the only university in Estonia whose priorities in academic and research activities provide the sustainable development of natural resources necessary for the existence of Man as well as the preservation of heritage and habitat. According to QS World University Rankings by Subject (2019), the

Estonian University of Life



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>

FlindersU KoalaMicroevolution

The Weisbecker Lab at Flinders University is looking for a motivated PhD candidate for a geometric morphometrics-focused investigation to assess the drivers of skull shape variation in koalas. This is a part of a wider research project on how extrinsic and intrinsic factors can influence the shape of the skull of marsupials and potentially other mammals as well. This PhD opportunity is part of a funded Australian Research Council (ARC) Future Fellowship Project awarded to Assoc. Prof. Vera Weisbecker.

Mammalian diversity is the result of different selection pressures over time creating a variety of adaptive shapes. However, the origins of this shape variation within single species are difficult to discern. In particular, the degree to which genetic variability and phenotypic plasticity drive intraspecific shape variation is not well known in non-model organisms. This is an exciting evolutionary problem but also a conservation-related issue in iconic mammals such as the koala, whose survival as a species might depend on their capacity to adapt their shape - particularly their skull shape - to changing conditions and dietary regimes. The lab's preliminary data on koalas even suggest that captivity might have a considerable impact on the skull shape of individuals, raising the question of whether captive conditions might impede success in the wild.

The project is an exciting opportunity to assess the interaction between short-term extrinsic factors and longer-term intrinsic influences to understand the origins of within-species shape variation in the iconic koala. The project will amalgamate investigations in evolutionary mammalian biology with explorations of using geometric morphometrics as a tool for population phenomics. A particular focus will be on how quickly skull shape can change in the short term, and how much of this response is driven by individual plasticity vs. heritable, microevolutionary change. For an impression of the work involved, see <https://doi.org/10.1186/s12983-019-0338-5>. Numerous research avenues can be taken

within this topic, depending on the interest of the candidate. This can be negotiated, but generally, the more of their own ideas the candidate brings into the project, the better.—

Essential skills for this position are good R skills, ideally in the phylogenetics and geometric morphometrics packages. Good spoken and written English is also essential, as are independence and self-motivation .

The Scholarship is open to students wishing to commence a PhD in mid-2020 and is valued at the the AGRTPS of AUD \$28,092 (2020 full time rate) per annum (tax free).—The scholarship will be awarded for a maximum of three years. Additional funding for conference and research support is available from College research support schemes. The Scholarship will be suitable for students with an Honours degree or international equivalent in vertebrate evolution, veterinary sciences, ecology, palaeontology, anatomy, or any other relevant discipline.

AUSTRALIAN AND OVERSEAS APPLICATIONS ARE ENCOURAGED. For UK applicants, a Master's degree is essential. If you have not finished your degree yet, you can still register your interest.

The successful candidate will work within the vibrant and diverse environment of evolutionary biologists and palaeontologists at Flinders University, and work in close affiliation with the Flinders University Palaeontology hub (<https://www.flinders.edu.au/study/science/-palaeontology>). The lab has state-of-the art 3D data acquisition and computation facilities.

Interested applicants should email Dr Vera Weisbecker (vera.weisbecker@flinders.edu.au) with 'PhD Scholarship EOI' in the subject heading and the following as attachments: . CV contact details for 2 professional referees . Scanned copies of Academic Transcripts . Brief statement of previous research experience and any publications.—

“vera.weisbecker@flinders.edu.au”
<vera.weisbecker@flinders.edu.au>

FlindersU LizardParasites

PhD Opportunity PhD student opportunity for an exciting project examining the potential for parasites to cause population divergence in a well-studied lizard system.

We are looking for a highly motivated student with a strong undergraduate and honours (or masters) in evolutionary biology and genomics.

The project is based around a recently funded ARC Discovery Project centred on a 38-year continuous study on sleepy lizards and their parasites in the mid-north of South Australia. The student will be based at Flinders University (Adelaide, South Australia) in Mike Gardner's lab. The project investigates if the immune gene region - the major histocompatibility complex, MHC - provides a trait that can drive speciation in the host lizard. The candidate will have the flexibility to co-develop a project based on one or more of the following areas: genomic work; hybrid zone analysis; parasitology; vertebrate immune systems; host/tick interactions; evolutionary biology. Collaborators on this project include Steve Cooper and Terry Bertozzi (The University of Adelaide and South Australian Museum); Steph Godfrey (University of Otago); Andy Sih (University of California, Davis) and Rob Miller (University of New Mexico).

The candidate will need to have an outstanding academic track record to obtain a scholarship through Flinders University, but a bridging stipend is available ahead of the scholarship rounds for the right person. Scholarships are open to Australian citizens, permanent residents of Australia, and New Zealand citizens.

For more information contact Associate Professor Mike Gardner Michael.gardner@flinders.edu.au or Professor Steve Cooper Steve.Cooper@samuseum.sa.gov.au. Applications will be considered until the 9th of March.

Thanks, Mike Gardner

Mike Gardner <michael.gardner@flinders.edu.au>

LMU Munich ComparativeGenomics

PhD position available at LMU Munich at the Institute of Systematic Botany and Mycology (TV-L E13, 50% position)

We seek applicants with interests and background knowledge in the fields of Comparative Genomics, Bioinformatics, Population Genomics, Evolutionary Biology or Fungal Ecology to perform PhD research on comparative genomics, in order to understand which genomic features have expanded or diminished in symbiotic taxa, relative to their free-living relatives. Applicants should have the ability to work independently and publish their results in well-respected peer-reviewed journals. Applicants are required to have effective communication

skills, both oral and written, and should be able to work and integrate in a team.

Basic experience with bioinformatics for genomic analyses is required. R programming and analytical skills are considered advantageous. Experience with fungi or algae is desirable, but not required. Advantageous are skills in python or another programming language.

Teaching duty includes 2.5 hours weekly during the semester, which can be taught in the form of supervising BSc and MSc students.

Salary and benefits are in accordance with a public service position in Germany (collective agreement TV-L E13, 50%). The contract shall start as soon as possible and will be limited to 36 months. Equally qualified handicapped applicants will be given preference.

Our major research areas are population genetics, systematics and ecology of symbiotic fungi. The main study systems of our group are the model lichen lungwort (*Lobaria pulmonaria*) and other species of the Peltigerales. Lungwort is an epiphytic lichen which has been studied extensively regarding its ecology and dispersal biology. Extensive genome sequence datasets are already available for lungwort, including multiple assembled and annotated genomes of the mycobiont and of its primary photobiont, the green alga *Symbiochloris reticulata*. Our group has recently sequenced, assembled and annotated the genomes of additional lichen symbionts.

The greater Munich area hosts two large Universities and several large research institutes. Faculty of biology of the LMU is characterized by a vibrant, international research environment setting the stage for fruitful collaborations. The candidate's workplace will be located near the premises of the beautiful Botanical Gardens of Munich in the Nymphenburg area.

With its beautiful old town, green spaces such as the forests along the Isar river, English Garden, Nymphenburg castle, numerous beer gardens and active night life, arguably, Munich is one of the cities with highest life quality in Germany. An interesting feature of Munich is its location proximate to the Alps, providing interesting opportunities both for biological studies and for various recreational activities.

Applications consisting of a CV, publication list, possible starting date, and a statement of research interests (at least 1 single-spaced page in length), names and contact information for up to three references should be prepared in a single pdf file and sent by email to Tanja Ernst at

Tanja.Ernst@lrz.uni-muenchen.de. Review of applications will start February 25th 2020, but applications will

be accepted until a suitable candidate has been found.

Silke Werth Systematics & Ecology of Cryptogams Faculty of Biology, LMU Munich

Menzingerstraße 67

80638 Munich Germany Phone: +49 89 2180 74754

Email: werth@bio.lmu.de

Silke Werth <werth@biologie.uni-muenchen.de>

MacquarieU 2 EvolutionVisualCommunication

Two funded PhD opportunities

The ecology and evolution of dynamic colour signalling (Macquarie University, Sydney, Australia)

Many animals communicate using vivid colour signals that appear shiny, metallic or iridescent. These signals arise from innovative surface nanostructures that showcase the wonder of adaptive evolution. Little is however known about how they are viewed and perceived, what information they communicate, and how they are controlled genetically. This project will explore one or more of these questions using laboratory-tractable organisms such as tropical butterflies and fishes.

The positions You will be guided to develop and pursue a distinctive, integrative doctoral research program in the evolutionary ecology of iridescent colour signalling. Possible components of your program span the measurement and manipulation of behaviour, genetic breeding experiments, experimental evolution, phylogenetic comparative analyses, and the physiology of visual signal reception. There are opportunities for fieldwork in tropical Australia and for the use of innovative technology such as custom-engineered drones to visualize how animals respond to colour signals in their environment. You will gain skills and expertise with broad applicability and discover knowledge that may inform communication in human society. Your project will embed within a dynamic research group aligned with the Australian Research Council (ARC) Future Fellowship program of Associate Professor Darrell Kemp (Macquarie University). You will be co-supervised by Dr. Thomas White (University of Sydney) and additional expert collaborators according to project direction.

The environment Sydney is a vibrant global power city rated in the world's top-ten for economy, research and development, cultural interaction, lifestyle, envi-

ronment, and accessibility. Macquarie University is a major research institution situated in the heart of Sydney's high technology precinct. It is considered one of Australia's best universities and is rated among the top 1% of universities globally. Macquarie's department of Biological Sciences provides an outstanding environment for the study of whole-organism biology and boasts world-leading strengths in all disciplines relevant to this position.

Scholarship package and research support The Macquarie University Research Excellence Scholarship consists of a living allowance of AUD \$28,092 per annum (tax-exempt & indexed annually for inflation) and a full waiver of tuition fees. The total value of this award is AUD \$214,794. Scholarship holders are not obliged to teach but may take advantage of abundant teaching opportunities to supplement their income. Macquarie offers well-structured research support for PhD students that includes generous funding for equipment, project maintenance, travel and conference attendance.

Eligibility criteria - The positions are open to applicants from any country. - Candidature must begin prior to July 2020. - Applicants must have a strong academic record at a level equivalent to a research MSc. - For more information on eligibility rules refer to: www.mq.edu.au/research/-phd-and-research-degrees/scholarships/scholarship-requirements-and-how-to-apply

Application process The positions will remain open until suitable candidates are identified. Interested applicants should email A/Prof Kemp (darell.kemp@mq.edu.au) in the first instance with an expression of interest that includes a recent curriculum vitae, copies of academic transcripts and a brief statement of research experience and interests.

thomas.white@sydney.edu.au

MaxPlanck Ploen 10 EvolutionaryBiology

The International Max Planck Research School for Evolutionary Biology is offering up to 10 PhD positions and fellowships.

The graduate school is dedicated to highest level of research and training in all areas of contemporary Evolutionary Biology. It is a joint initiative of the Max Planck Institute for Evolutionary Biology, the University

of Kiel and the Helmholtz Center for Ocean Research Kiel (GEOMAR). The school offers an internationally competitive research environment with state of the art facilities. The participating groups are working on a broad variety of scientific topics including molecular, behavioral, theoretical and organismal approaches.

The graduate program starts with a rotation period of three months followed by a PhD project of three years including seminars, courses and workshops. The language of the graduate school is English. Financial support is provided throughout the program.

To obtain further information about our PhD program and application details, please visit our website at <http://www.evolbio.mpg.de/imprs>. Note that only online applications via the link on our homepage are being processed. Please do not send any other type of application by regular mail or email as they will be rejected.

Well-motivated and highly-qualified students from all countries are welcome to apply. A Master of Science degree or a Diploma as well as a strong interest in Evolutionary Biology and flexibility in the research project are prerequisites for entering the program. We are looking forward to your online application for a PhD project in the beautiful landscape of Northern Germany.

The deadline for applications is March 15, 2020. The personal interviews will be held from June 22-25 and the program itself starts on September 21, 2020.

Contact: Dr. Kerstin Mehnert, August-Thienemann-Str. 2, 24306 Plön, Germany email: imprs@evolbio.mpg.de phone: +49(0)4522 763 233

Kerstin Mehnert <mehnert@evolbio.mpg.de>

MichiganTechU 2 EvolutionaryEcol

Two PhD positions are available with Dr. Erika Hersch-Green at Michigan Technological University to join a 5-year NSF-funded project. The overall premise of this research is to examine whether and how nutrient availabilities and plant genome size together contribute to the structuring of biodiversity patterns from the molecular and functional attributes of organisms to multi-species assemblages. One PhD student will combine field data collection from across the United States with phylogenetic approaches to examine how changes in nutrient conditions affects functional traits and multi-species biodiversity patterns across sites that vary in multiple environmental factors. Another PhD student's

research will primarily focus on whether resource allocations influence genome, transcriptome, and metabolic properties of plants. Both students will be expected to work well in a dynamic research group that includes collaborators, graduate and undergraduate students and to develop related independent research projects (with guidance from Dr. Hersch-Green). Students will also be trained in scientific teaching and communication skills and will have an opportunity to work with G6-12 and undergraduate students.

Four years of RA funding (including tuition) are available to support each student, and teaching opportunities are also available in the Department of Biological Sciences at Michigan Tech. Candidates must have prior experience working in the field and/or molecular genetics settings, work well with a team as well as independently, and have skills and interest in plant ecology and evolutionary biology. Desired qualifications also include an excellent academic record, a good quantitative background (including statistics), and strong writing and computing skills. Candidates with an M.S. in a related discipline are preferred; only substantial research and prior publication experience will be considered in lieu of a Master's degree.

Qualified and interested candidates should contact Dr. Erika Hersch-Green immediately for full consideration by email (eherschg@mtu.edu), and include a statement of interest that specifies which position of the described research they are interested in, and an updated CV; reference letters/contact information will be solicited at a later date. Suitable candidates will then be encouraged to submit a formal application to the graduate school at Michigan Technological University; Details on Michigan Tech, the Department of Biological Sciences, and the application procedure can be found at <http://www.mtu.edu/biological/>. Erika Hersch-Green <eherschg@mtu.edu>

MNH Cleveland 2 DungBeetleBiogeography

2 PhD positions in phylogeography and systematics of Australian dung beetles.

The Cleveland Museum of Natural History (CMNH) invites applications for two 5-year PhD positions in evolutionary biology. Graduate students will be enrolled in the Biology Department at Case Western Reserve University (CWRU) but primarily be based at CMNH.

The graduate students will work under the supervision of Dr. Nicole Gunter and will participate in an NSF funded project that investigates evolutionary history of Australian dung beetles to gain a better understanding of species distribution. Graduate students will conduct independent research on the evolution and biogeography of Australian dung beetles combining niche modelling, systematics and phylogenetic research on one of the two biogeographically distinct lineages.

Position 1: Northern Miocene element comprised of the cosmopolitan genus *Onthophagus*. This project will have a greater focus on colonization history, diversification and adaptation on the Australian continent.

Position 2: Southern Gondwanan element comprised of genera from Australasian endemic clade. This project will have a greater focus on systematics, ecological niche modelling and influence of habitat fragmentation on diversification.

By reconstructing the phylogeographic history of this model system, students will explore the heritability of environmental tolerance and its influence on species distribution and diversification. The research will include training in integrative systematics, molecular phylogenetics and ecological niche modelling and will involve international travel including field work, recuration of museum collections and collaboration. The projects involve remote field work in Australia so prior field experience is an asset, and an international passport will be required.

The successful candidates will be highly motivated and independent, have research experience and a strong academic record in evolutionary biology, entomology or ecology, a MSc in one of these field is preferred. Experience in systematics, phylogenomics or niche modelling is a plus but not essential.

If you are interested, you need to apply to posted advertisement on the Cleveland Museum of Natural History website

https://workforcenow.adp.com/mascsr/default/mdf/-recruitment/recruitment.html?cid=49c26a0f-b438-4d50-910e-e2fca33d6a29&ccId=19000101_000001&jobId=-306906&source=IN&lang=en_US Applications will include a CV, a 1 page cover letter, research experience and area of interest, and the names of two potential references. Only 1 application is necessary if you are interested in both positions, please indicate a project if you have a strong preference. Preferred starting date Fall Semester 2020, interviews with selected candidates will be conducted as soon as possible.

Successful applicants will then be required enroll to the Department of Biology graduate degree program at Case

Western Reserve University. The additional information can be also found in the Biology Department website (<https://biology.case.edu/graduate/admission/>). Please note there will be exemption to the normal application deadline.

Potential graduate students are encouraged to make contact with Dr. Nicole Gunter. Do not hesitate to contact Dr. Gunter if you have further questions.

Nicole L. Gunter PhD Associate Curator of Invertebrate Zoology Cleveland Museum of Natural History 1 Wade Oval Drive Cleveland, OH 44106 216.231.4600 x. 3282 ngunter@cmnh.org

PotsdamU PlantStressGenomics

PhD position Evolutionary genomics of heat stress responses in Brassicaceae at Potsdam University

The Bäurle lab studies the long-term adaptation of plants to abiotic stress (see <https://baurlelab.org>). The successful candidate will be investigating the plasticity of heat stress responses in the genus *Capsella*. The aim of the project is the genetic analysis and molecular characterization of genes that cause differential heat stress acclimation in *Capsella* spec., and will provide insights into the adaptation to elevated temperatures, as well as into the evolution of heat stress response and its plasticity. The project is part of a newly established focus area on “Evolutionary Systems Biology” at the University of Potsdam.

The PhD position is funded for three years. Salary is according to TV-L 13 (50%). A Masters degree in molecular Life Sciences and previous experience in molecular biology and genetics are required, ideally matched with an evolutionary understanding. A strong interest in the research question, flexibility, and the ability to work both independently and in a team are essential. The working language of the laboratory is English.

The University of Potsdam is an equal opportunity employer. If equally qualified, disabled applicants will be preferably considered. The University of Potsdam aims at increasing the number of female researchers and encourages qualified females to apply.

The Potsdam/ Berlin area provides a vibrant scientific environment for molecular plant research. The area is renowned for its high quality of life. Potsdam University takes an effort to assist its members in family-related issues and has repeatedly been awarded the total e-quality

award.

To apply please send your application including a complete CV, a copy of your degree certificate, a letter detailing your motivation to apply, and contact information of two referees to Isabel Bäurle (isabel.baeurle@uni-potsdam.de). Applications will be considered until the position is filled.

tiedeman@uni-potsdam.de

StockholmU BirdsOfParadiseGenomics

PhD position in Systematics and Evolutionary Research, with a focus on the evolutionary importance of inter-specific gene flow among Birds-of-Paradise. Stockholm University

A fully supported 4-year PhD position is available under the joint supervision of Dr. Martin Irestedt (Naturhistoriska Riksmuseet) and Dr. Mozes Blom (Museum für Naturkunde). The prospective candidate will be mostly based in Stockholm, but frequent visits to Berlin are encouraged. Both primary investigators are evolutionary biologists by training, with a keen interest in the evolution of avian and non-avian reptiles. For more information, see https://www.researchgate.net/profile/Martin_Irestedt and <https://mozesblom.com>. The deadline to apply is February 28, 2020.

Project description. The objective of this project is to study the evolutionary importance of interspecific gene flow and its role in promoting phenotypic change. In particular, the project focuses on ancient and more recent hybridization in Birds-of-Paradise as they are notorious hybridizers even across genera. Several species display plumage ornamentations that are surprisingly similar to those found in distant relatives and our previous research using genomic data has shown that hybridization between such lineages is not uncommon. This suggests that the genetic variants underlying, e.g., plumage ornamentation might have been transferred between distantly related lineages through adaptive introgression. Birds-of-Paradise are thus an ideal system to study the adaptive potential of past hybridization and investigate how this can ultimately facilitate macroevolutionary change. In addition, the genomic data sets generated within this project will also create opportunities to study biogeographical patterns, demographic changes through time, and genome evolution. The project builds on an ongoing project on evolutionary genomics in Birds-of-

Paradise led by the Swedish Museum of Natural History in collaboration with other research groups in Sweden and abroad.

Qualifications. In order to join our team, we are looking for someone with a background in biology, life sciences, genetics, bioinformatics, or related subjects. Applicants should have knowledge and skills pertaining to evolutionary biology, phylo- and population genomics and bioinformatics. Equally important, we are looking for a creative, curious and motivated person with excellent communication and interpersonal skills. No fieldwork is expected to be part of the project.

Position. The position is located at the Department of Bioinformatics and Genetics, at the Naturhistoriska Riksmuseet in Stockholm. We offer a friendly working environment, access to professional training in both project related as well as soft skills and access to the scientific research infrastructure (e.g. High-Performance Computing Infrastructure, Wet-labs etc) needed to successfully complete this project. Moreover, other working groups within the department include Fredrik Ronquist, Love Dalen and Per Ericsson. Strong existing connections are in place with the lab groups of Alexander Suh (Uppsala University) and Knud Jonsson (University of Copenhagen). Additional support can be obtained from the Museum für Naturkunde Berlin and includes access to collections, working space and the opportunity to collaborate with research groups throughout both museums. Finally, in line with the Scandinavian tradition, we strongly encourage a healthy work-life balance and both Stockholm and Berlin have plenty of attractive sights, activities and possibilities to relax.

Application. Incoming applications will be considered until the 28th of February or until the position is filled. To apply, please navigate to the application portal of Stockholm University and submit all requested documentation. For more information see: <https://www.su.se/english/about/working-at-su/-phd?rmpage=job&rmjob=11271&rmlang=UK> For any queries with regards to this position feel free to contact us.

Dr. Martin Irestedt - martin.irestedt@nrm.se Dr. Mozes Blom - mozes.blom@mf.n.berlin

Moos Blom <mozes.blom@gmail.com>

UBielefeld EvolEcolChemodiversity

A PhD position to study the ecology and evolution of intraspecific plant chemodiversity in interactions with aphids is available in the group of *Chemical Ecology (Biology)*//*at Bielefeld University*, starting in spring 2020. The candidate will investigate this topic in the laboratory and in the field using bioassays, chemical ecological, behavioural and analytical approaches. The position will be available for three years and is funded by the German Research Foundation (DFG) within the research unit FOR 3000/./ In this research unit, ten groups across Germany work together on the /Ecology and Evolution of Intraspecific Plant Chemodiversity/.

Your Tasks

- Research on the effects of intraspecific chemodiversity in plants and interactions with aphids: - Bioassays on plant-aphid interactions in the laboratory and in the field - Chemical analysis of plant compounds, including method establishment

Your Profile

- University degree (by start of position) in a relevant scientific discipline, e.g. Master in biology, ecology or entomology - Experience in ecological and chemical-ecological techniques (e.g. analytics using HPLC or GC-MS; bioassays) - Practical experience in handling of plants or rearing of insects - Practical experience in field work - Knowledge in statistics (in particular use of R!) - Excellent command of scientific English - Motivation and communication skills to work as part of an interdisciplinary research team - Enthusiasm in the establishment of new experimental methods

Preferable qualifications

- Advanced knowledge in chemical analysis of natural products and comprehensive laboratory experience - Advanced knowledge in analysis of GC-MS and LC-MS data - Experience in multivariate statistics

Remuneration

Salary will be paid according to Remuneration level 13 of the Wage Agreement for Public Service in the Federal States (TV-L). As stipulated in §2 (1) paragraph 1 of the WissZeitVG (fixed-term employment), the contract will end on March 31, 2023. In accordance with the provisions of the WissZeitVG and the Agreement on Satisfactory Conditions of Employment, the length of

contract may differ in individual cases. The employment is designed to encourage further academic qualification. The position is advertised as 65 % part-time job. In individual cases, this percentage may be reduced on request, as long as this does not conflict with official needs. Bielefeld University is particularly committed to equal opportunities and the career development of its employees. It offers attractive internal and external training and further training programmes. Employees have the opportunity to use a variety of health, counselling, and prevention programmes. Bielefeld University places great importance on a work-family balance for all its employees.

Application Procedure

For full consideration, your application should be received via email (as a single PDF document) sent to caroline.mueller@uni-bielefeld.de by March 15, 2020. Please include

- a cover letter describing your suitability, motivation, and possible starting date
- a detailed CV
- your credentials and certificates
- contact details of two potential references

Prof. Dr. Caroline Müller

Email: caroline.mueller@uni-bielefeld.de

– Prof. Dr. Caroline Müller Department of Chemical Ecology W1-142 Faculty of Biology Bielefeld University Universitätsstraße 25 D-33615 Bielefeld GER-MANY Phone: +49 (0) 521 106 5524 [https://www.uni-bielefeld.de/\(en\)/biologie/ChemOekologie/index.html](https://www.uni-bielefeld.de/(en)/biologie/ChemOekologie/index.html)

Caroline Mueller <caroline.mueller@uni-bielefeld.de>

UCopenhagen Paleogenomics

PhD position - Paleogenomics of ancient dogs Inferring patterns of natural selection and complex trait evolution

The Racimo group invites applications for a PhD student position at the University of Copenhagen. Our group focuses on using ancient and present-day genomes to understand patterns of selection and admixture over time, and to develop methods to jointly analyze population and functional genomic data. This position would be particularly focused on analyzing a large panel of ancient dog genomes and to develop methods to infer patterns of natural selection in dogs in the last 15,000

years.

Objectives

The candidate will be able to work with an unprecedentedly large ancient genomic dataset of canine samples, from a period spanning the last 15,000 years. The focus of the project will be on integrating ancient genomics with population genetic theory and quantitative genetic resources.

The candidate will have freedom to design their project in consultation with the advisor. Research topics can include: 1) Utilizing canine trait-association data to learn about the evolution of complex traits in ancient dogs from the Paleolithic, Neolithic, Bronze Age and Iron Age; 2) Developing methods to detect genes under positive selection when working with multiple populations related to each other in complex ways; 3) Searching for functional variants that were positively selected in dogs over time during major human cultural transitions, like the advent of agriculture; 4) Testing among different models of co-evolution between humans and dogs.

The PhD position is funded by the Villum Foundation, and will be carried out at the Globe Institute, a newly-created research institute in Denmark. The candidate will have to opportunity to collaborate with international leaders in the fields of population genetics of domesticated species, statistical genetics and paleogenomics, including Greger Larson, Laurent Frantz, Alicia Martin, Anders Hansen and Evan Irving-Pease. The University of Copenhagen is a world-leading institution of higher learning and provides excellent PhD programs in biology, statistics, computer science and mathematics. The candidate will have the opportunity to take courses in bioinformatics, computer science, statistical inference, machine learning, data science, population genetics, paleogenomics, paleoproteomics, and archaeological science, among many others.

For more information about the Racimo group, see here: <https://sites.google.com/site/fernandoracimo/> Qualifications

The candidate will have an MSc degree or equivalent, with a background in one or more of the following areas: evolutionary biology, population genetics, computational biology, bioinformatics, genomics, mathematics and/or statistics. The ideal candidate will demonstrate a working proficiency in one or more programming languages commonly used in data science (e.g. experience in Python, R, C/C++, Java or Julia) and have experience in the UNIX operating environment.

Salary and terms of employment

The employment as PhD fellow is full time and for 3

years. The student will have to enroll as a PhD student at the Graduate School at the Faculty of Health and Medical Sciences, University of Copenhagen. This requires submission and acceptance of an application for the specific project formulated by the applicant, together with the PI, during an initial three-month employment as a research assistant.

The PhD study must be completed in accordance with The Ministerial Order on the PhD programme (2013) and the Faculty's rules on achieving the degree. Salary, pension and terms of employment are in accordance with the agreement between the Ministry of Finance and The Danish Confederation of Professional Associations on Academics in the State. Depending on seniority, the monthly salary begins around 27,363 DKK /approx. 3,661 EUR (October 2019-level) plus pension.

Application

The application should include the following items. Applications that do not follow these requirements may not be evaluated:

- A cover letter (max. one page) describing your background, personal qualities, research interests and specific reasons for applying to this position.
- Curriculum vitae (max. two pages)
- List of peer reviewed publications (if any). You may include papers that have been accepted for publication or are in review.
- Transcripts of Diplomas (Master's degree or equivalent)
- Contact details of two people for references and a very brief description of your relationship to them. Do not attach reference letters.

The main criterion for selection will be the research potential of the applicant and the above mentioned skills. The successful candidate will then be requested to formally apply for enrollment as a PhD student at the PhD school of Science.

The application, in English, must be submitted electronically via this

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UHaifa SocialEvolutionaryGenomics

Ph.D. student and postdoc positions in evolutionary genomics of ants, University of Haifa, Israel.

NSF-BSF funded positions for a Ph.D. student and a postdoc are available in the Privman lab at the Institute of Evolution, University of Haifa, Israel. The lab studies evolutionary genomics of social behavior in ants, employing tools from population genomics, genomic mapping, and phylogenomics. Ongoing research includes several projects combining population sampling, behavioral experiments, chemical analysis of pheromones, genomic sequencing, and computational analysis (see <http://privman.haifa.ac.il/>).

The new positions will be funded by an NSF-BSF grant for a collaboration with the group of Prof. Deborah Gordon at Stanford University. The project aims to unravel the genomic basis of social evolution, focusing on foraging behavior in variable climate conditions. The successful candidates will work in collaboration with teammates from both labs, to contribute to any or all stages of the research, including behavioral and genomic surveys, laboratory procedures and computational analyses. The research plan includes genomic sequencing of hundreds of samples, population genomic and genomic mapping analyses. The genomic work will be conducted in Haifa, using a liquid handling robot for both DNA extraction and genomic library construction. The analysis of the genomic sequencing data will also be conducted in Haifa, using our high-performance computer cluster. Therefore, candidates should have experience and/or motivation to learn genomics and bioinformatics. All the necessary protocols and knowhow for both molecular lab and bioinformatics procedures are already well established in the Privman lab.

The Institute of Evolution offers a supportive, dynamic, diverse, multicultural and multilingual working environment. The Institute hosts research groups working on a diverse, interdisciplinary spectrum of topics in ecology and evolution (see <http://evolution.haifa.ac.il/>). Students will have access to leading researchers with expertise in ecology and evolution, population genetics, phylogenetics and molecular evolution, as well as genomics and bioinformatics, including genomic mapping. Professional training opportunities in these fields are available in the Institute, the University of Haifa, and

in other Israeli institutes, including advanced courses, workshops and conferences. Although the common language in Israel is Hebrew, there are many foreign researchers and students in the Institute and all activities are conducted in English, including seminars, advanced courses, workshops and conferences. The Institute offers state-of-the-art facilities and professional support for molecular biology research in general and genomics in particular, as well as a high-performance computer cluster for bioinformatic analysis.

Please send your application to Dr. Eyal Privman: eprivman@univ.haifa.ac.il

Informal inquiries are also welcome. The application should include a cover letter with a short description of research experience, research interests, and why you are interested to join our lab, your CV, and the contact details of 2-3 referees.

“eprivman@univ.haifa.ac.il”
<eprivman@univ.haifa.ac.il>

UKentucky InsectEvolutionGenomics

PhD position in insect evolution & genomics

I am seeking a highly motivated PhD student to join my research group at University of Kentucky in Fall 2020. Work in my lab focuses on insect evolution, speciation, integrative taxonomy, and molecular systematics using genomic approaches. The exact research project topic for this potential student is somewhat flexible, but will ideally focus on the genomic architecture of speciation and hybridization in North American swallowtail butterflies. Other potential projects include investigating ways that machine learning can be used to facilitate species delimitation, evaluating ecological drivers of diversification in buck moths, and developing molecular diagnostic tools for species identification and pathway analysis in invasive insect pests. I am also open to ideas and encourage potential applicants to contact me directly to discuss their interests and suitability. For more information, see www.julianrdupuis.com. The Department of Entomology at University of Kentucky offers excellent graduate training in diverse areas of insect biology. The Entomology graduate program is ranked in the top 10 nationally and is consistently rated as one of the most productive programs at the University of Kentucky, measured by the total number of student publications and presentations. Students from our de-

partment go on to have successful careers in a variety of sectors, including academia, industry, government science, and extension, to name a few.

I am looking for a student with a strong background in biology, entomology, or ecology and evolution (BSc or equivalent, MSc preferred). Experience with field research, molecular biology/genomics, and bioinformatics is preferred, as well as demonstrated research experience through completion of a MSc or undergraduate research. This position includes a competitive stipend, tuition waver, and health coverage.

Interested applicants should submit 1) a cover letter detailing research experience, interests, and career goals, 2) a CV and unofficial transcript, and 3) name and contact information for three references to julian.dupuis@uky.edu, preferably by 14 Feb 2020. The successful applicant will be required to apply to the University of Kentucky Graduate School, although application to the graduate school can come a later time. See <https://entomology.ca.uky.edu/academics/graduate> for more information on how to apply.

Julian R. Dupuis, Ph.D. Assistant Professor Department of Entomology University of Kentucky Lexington, KY 40546 (859) 562-2544 julianrdupuis.com

“Dupuis, Julian R.” <Julian.Dupuis@uky.edu>

ULausanne SocialEvolution

PhD position in evolutionary biology, social supergene maintenance, University of Lausanne

A Ph.D. position in evolutionary biology is available in the group of Prof. Michel Chapuisat at the Department of Ecology and Evolution, University of Lausanne, Switzerland. The group studies social evolution. We are currently investigating the evolution and maintenance of a supergene controlling social organization in ants. Our approach combines genomics, genetics, behavioral experiments and ecological surveys in the field. For more information, see <http://www.unil.ch/dee/page7000.html>. Animal societies vary greatly in social organization, yet the genomic, behavioral and ecological processes causing this diversity are poorly understood. The Alpine silver ant *Formica selysi* provides an ideal system to study the evolution of alternative social organization, because a supergene 'V' a large group of linked genes 'V' determines whether the colony has one or multiple queens. The successful candidate will perform experiments to better

understand the genomic, behavioral and/or ecological factors contributing to the maintenance of this social polymorphism.

Your qualifications: In order to complete our team, we are looking for someone with a Master's degree in biology, life sciences, genetics, bioinformatics, or related subjects. Applicants should have knowledge and skills pertaining to evolutionary biology, genetics, genomics, behavior or ecology. We are looking for a creative, curious and motivated person with excellent communication and interpersonal skills.

What the position offers you: We offer a nice working place in a multicultural, diverse and dynamic academic environment, with opportunities for professional training. The Department of Ecology and Evolution in Lausanne University hosts research groups working on a broad range of topics, producing a rich intellectual and social life. Although French is the common language in Lausanne region, the department research activities and seminars are conducted in English. The University of Lausanne offers state-of-the-art facilities, including excellent computer facilities and molecular labs.

Contact for further information: Prof. Michel Chapuisat
:Michel.Chapuisat@unil.ch

Your application:

Deadline:24.02.2020.

Incoming applications will continue to be considered until the position is filled. To apply, please upload a single pdf document containing: a cover letter with a short description of your research interests, research experience, and why you are interested in joining our group; Your CV; The contact details of 2-3 referees; A copy of your Master degree; Your Master's thesis summary.

To receive full consideration, application documents should be uploaded online through the University of Lausanne recruitment platform. Please apply through this webpage:<https://bit.ly/31vIvgh> Michel Chapuisat <michel.chapuisat@unil.ch>

UMainz 2 AntCoevolutionGenomics

2 PhD positions in Genomics of Coevolution

between a slavemaking ant and its host

Susanne Foitzik and Barbara Feldmeyer IomE JGU Mainz and Senckenberg Bik-F Senckenberg Frankfurt

We invite you to apply for one of two open 3-year PhD positions (65% TV-L E13) on a project investigating the genomic basis of coevolution between the slavemaking ant *Temnothorax americanus*, an obligate social parasite, and its related host *T. longispinosus*, two species that coevolve in an evolutionary arms race and for which we recently obtained the genomes. We will use populations of a 'natural experiment', in which host and parasite evolve in sympatry (=coevolve) or allopatry. The aim of this study is to identify genomic signatures of this coevolutionary arms race and to functionally validate candidate genes playing a role in the reciprocal host-parasite co-adaptation. For these goals, we will use a suit of different techniques such as behavioral assays, cuticular hydrocarbon profiling (GCMS), transcriptome analyses (RNA-seq), population genomics (Pool-seq, individual genome resequencing) and gene knockdown (dsRNAi).

We are looking for two highly motivated candidates with an MSc degree (or equivalent) in Biology, Bioinformatics or related fields. The successful applicant should have a strong background in evolutionary biology, population genetics, behavioral ecology and / or bioinformatics. Experience with social insects are advantageous, but not a must. The working language of our laboratories is English. The University of Mainz / the Senckenberg Bik-F Institute aim to increase the number of women in science, and applications by women are strongly encouraged. Similarly, qualified candidates with disabilities will be preferred.

Successful applicants will join an international and dynamic scientific environment. Associations with the GenEvo Graduate School might be possible <https://www.imb.de/about-imb/joint-research-initiatives/genevo>. Both PhD students will start at the JGU Mainz with one of the two students conducting the population genomics project parts in Frankfurt after 1 year (both labs are only 30 min apart by car). Mainz and Frankfurt are beautiful, lively cities located at the Rivers Rhine and Main with high students numbers and rich social and cultural life. The positions are funded by the German Research Foundation (DFG) for a period of 3 years. Salary is at the scale 13 TV-L (65%). Starting date should be April 1st 2020 or soon thereafter.

If you wish to apply, please send your application as a single pdf file containing your CV, a 1- page motivation letter, your research experience and interest, BSc and MSc grades, publications (if any), and the names of two potential references. Applications should be sent to Prof. Dr. Susanne Foitzik (foitzik@uni-mainz.de) or Dr. Barbara Feldmeyer (barbara.feldmeyer@senckenberg.de) until February 4th, 2020. Skype interviews with selected candidates will likely take place on February 6th and on-

site interviews on February 13th 2020. Do not hesitate to contact us if you have further questions.

Prof. Dr. Susanne Foitzik Dr. Barbara Feldmeyer Institute of Organismic and Molecular Evolution Molecular Ecology Group Johannes Gutenberg University of Mainz Biodiversity and Climate Research Centre (BiK-F) Hanns-Dieter-H¹sch-Weg 15 Georg-Voigt-Str. 14-16 55128 Mainz, Germany 60325 Frankfurt am Main, Germany foitzik@uni-mainz.de barbara.feldmeyer@senckenberg.de

Prof. Dr. Susanne Foitzik Institute of Organismic and Molecular Evolution Johannes Gutenberg University Mainz Biozentrum Hanns Dieter H¹sch 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>

UMunich CucurbitalesPhylogenomics

A Doctoral student position in Molecular Phylogenomics of plants is available in the Plant Biodiversity group of Hanno Schaefer at Technical University of Munich in Freising (www.biodiv.wzw.tum.de). The project focusses on Phylogenomics of Cucurbitales and will be based on existing data plus some additional sequence generation using Oxford Nanopore and Illumina. Applicants are expected to be highly motivated and have a very good Master’s degree.

PhD position (m/f/d)

in Cucurbitales Phylogenomics

(TV-L E13, 50% position)

Your tasks

- Library preparation and genome sequencing - Genome assemblies and annotation - Phylogenomic analyses of different types of sequence data

Your profile

- Master or equivalent Diploma in biology, bioinformatics or related subjects - Experience with handling large amounts of sequence data - Experience and exceptional interest in Phylogenomics and Evolutionary biology - Ability to effectively communicate and organize workflows, to closely collaborate in interdisciplinary teams - Proficient use of the English language

Salary and benefits are in accordance with a public service position in Germany (collective agreement TV-L E13, 50%). The contract shall start as soon as possible and will be limited to 36 months. Equally qualified handicapped applicants will be given preference. The place of work is the TUM School of Life Sciences at the Weihenstephan campus in Freising near Munich.

Review of applications will start February 25th 2020 but applications will be accepted until a suitable candidate is found. Please send your application by email attachment in a single pdf document (max 2 MB) including

- a cover letter describing your suitability, motivation, and possible starting date - a detailed CV - your credentials and certificates - and contact details of one potential reference to:

Prof. Hanno Schaefer - hanno.schaefer@tum.de

Hanno Schaefer <hanno.schaefer@tum.de>

UNorthDakota WildlifeGenomicsPaleoecology

U. North Dakota. WildlifeGenomicsPaleoecology.

The Laboratory of Evolutionary and Forensic Genetics at the University of North Dakota (www.und.edu) is inviting applications from highly motivated students who pursue a PhD degree. MS candidates will be also considered.

Students will be engaged in a project on the historic, current and future status of bison herds from biological, archaeological, and cultural perspectives. This cross-disciplinary project represents an opportunity to get intensive training in the methods of ancient and modern DNA analyses including high-throughput genome sequencing, stable isotope studies, computational analysis and statistical modelling. The examples of our recent publications: Ovchinnikov et al. Diversity and Origin of the Feral Horses in Theodore Roosevelt National Park. PLoS One, 2018, 13(8); Davies et al. Isotopic Paleoecology of Northern Great Plains Bison during the Holocene. Scientific Reports, 2019, 9(1): 16637. Although the wildlife project is focused on bison genetics and paleoecology, we have opportunities to develop new projects on computational analysis of big oral and environmental microbiome data as well as on genomics and microbiome study of human migrations and evolution.

Candidates should demonstrate motivation for hard

laboratory work and strong interest in genomics and computational biology. Preference will be given to candidates with a proven record of computational analysis and bioinformatics skills. Additional experience in sequencing technologies is a plus.

If you are interested, you need to apply to the University of North Dakota Biology Graduate Program using the regular procedure. Requirements and How to Apply procedure can be found in the UND Biology Graduate School websites:

<https://und.edu/programs/biology-phd/-requirements.html> <https://und.edu/programs/biology-phd/how-to-apply.html> The additional information can be also found in the Biology Department website:

<https://arts-sciences.und.edu/academics/biology/> The position starts in August 2020. To receive full consideration, the Biology Graduate Program needs to receive your applications and required materials by February 15, 2020.

Potential graduate students are also encouraged to make contact with Dr. Igor Ovchinnikov.

Contact information:

Dr. Igor Ovchinnikov Associate Professor Lab. of Evolutionary and Forensic Genetics Department of Biology Forensic Science Program University of North Dakota

Email: igor.ovtchinnikov@und.edu

“Ovtchinnikov, Igor” <igor.ovtchinnikov@und.edu>

UTartu 2 Evolutionary Genetics Bioinformatics

PhD position in Evolutionary Genetics at Institute of Genomics, University of Tartu, Estonia

Deadline: 10.02.2020

Position description: We are looking for a motivated PhD student with a background in archaeology, genetics and/or bioinformatics who is interested in completing their PhD program at the University of Tartu and in being part of the cGEM research group.

Recent methodological advances to extract ancient DNA from human fossils have provided an opportunity to study genetic variation and selection over time. The growing number of large cohorts with genotype and phenotype data (such as biobanks) has provided resources to

link this genetic variation to disease phenotypes. Recent studies that have connected diseases to selective pressures have shown that in some instances an advantage in the past may have come with a price for present-day populations: for example, many genetic variants associated with immune-mediated, cardiovascular and metabolic diseases show signs of having been recently favoured by natural selection.

This project focuses on genetic adaptations to environmental and cultural changes in human populations of West Eurasia during the last 20,000 years, a time period that covers major shifts in climate, diet and pathogen exposures in this region. The project will take advantage of high-quality genetic and biomedical datasets, including ancient DNA from dated human fossils, whole genome sequences from modern populations, and case-control and biobank datasets with associated genetic, biomarker and health information (such as the Estonian Biobank).

The main aim of this project is to systematically map how natural selection has shaped human genetic variation during this time period and the consequences of these adaptations for health in present-day populations. With some of the genetic variation in present-day non-Africans being inherited from admixture with Neandertals ~55,000 years ago, the project will further investigate which role this admixture has played in shaping these adaptive processes.

The outcome of this project will (1) provide important information about the role of selection and admixture in the interplay between genetics and environments over long time scales, which are difficult to obtain from contemporary populations and environments. The project will (2) help resolving the role of different dietary and environmental (life-style) factors in the susceptibility for metabolic and cardiovascular diseases in present-day populations, which are important when using genetic information to personalise the prediction, prevention and treatment of these diseases.

Who we are: The Institute of Genomics of the University of Tartu was formed in 2018 through a merger of the Estonian Genome Center and the Estonian Biocentre, bringing together world class expertise in medical, population and evolutionary genomics. We host the Estonian Biobank (www.geenivaramu.ee) which has 200,000 participants and is connected to national health registries for phenotypic information. Starting in May 2018, we opened a brand-new ancient DNA laboratory, we have a core facility for DNA/RNA sequencing and genotyping and have access to a High- Performance Computing Cluster (www.hpc.ut.ee). The Centre of Genomics, Evolution and Medicine (cGEM) was founded in 2018 with

the aim to develop a centre with world-leading expertise in personalized medicine to manage the risks, prevention, and diagnostics of diseases for contemporary populations by considering the unique evolutionary history of the human genome. We publish widely in top journals and sport a vibrant and international research community of 70 researchers and students.

Web page of our institute: <https://www.genomics.ut.ee/en> Center for Genomics, Evolution and Medicine (cGEM): <https://cgem.ut.ee> Duties and responsibilities: PhD student will be carrying out research activity in the field of evolutionary genomics including but not limited to curation and analysis of matching genetic, environmental and biomedical datasets and writing publications.

Required qualifications: MSc in archaeogenetics, biological anthropology, genetics, medical genomics, molecular biology or related subjects. Having some basic knowledge of basic knowledge and experience of bioinformatic analysis and of current software use would be ideal.

Starting at: September 1st 2020

Stipend (per month): 1,100- 1,300
 — / — / The position is funded for 4 years

Application documents and notification of results: In order to be considered for the PhD student position, the candidate must submit an application to the Institute of Genomics, Estonian Biocentre (postal address: Riia 23b, 51010 Tartu, Estonia) OR e-mail to:

— / —

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UWageningen ExpEvolutionMicrobialCommunities

UWageningen.ExpEvolutionMicrobialCommunities

PhD position Experimental evolution in the context of microbial eco-systems

Closing date: 15 March 2020. Start date of the position is flexible, yet at the latest on 1 September 2020.

Respond via: <https://www.wur.nl/en/vacancy/PhD-position-Experimental-evolution-in-the-context-of-microbial-eco-systems.htm> We are looking for We

are looking for a PhD candidate with keen interest in (experimental) evolution and evolutionary ecology. The successful candidate will be based at the Laboratory of Genetics of Wageningen University. This laboratory is specialized in addressing evolutionary questions using various model systems and (experimental) tools.

This specific PhD project will focus on experimental evolution in the context of eco-systems. Microbial and other ecosystems generally consist of communities with a complex composition. Here we aim to study how these communities and their species composition evolve using experimental approaches. Repeated propagation cycles (experimental evolution) can be used to for instance study effects of in initial species composition and pressure from the environment on species composition and ecosystem functioning. We use traditionally fermented foods from Zambia and other African countries that harbour microbial communities of around 10 species as experimental model system. Laboratory experiments may be complemented by field experiments and theoretical work.

This PhD project is part of a larger INREF funded research program on traditional fermented foods that not only includes fundamental research on (microbial) evolution and ecology, but also aspects of nutrition, food technology and women entrepreneurship. The successful candidate will work within a multidisciplinary and international team of 10 other PhD candidates and project staff in Wageningen and Africa. <https://www.wur.nl/en/project/Traditional-fermented-foods-to-promote-food-and-nutrition-security-in-Africa.htm> A full project description is available upon request.

We ask

aMSc degree in a discipline relevant to the PhD project (e.g. biology, experimental evolution, ecology, environmental life sciences); demonstrated experience and knowledge of experimental methods in evolutionary research (e.g. experimental evolution, microbial ecology, bacteriology); optional knowledge in modelling related to evolutionary theory; willingness to travel to Africa for workshops and field visits/experiments; ability to work in an interdisciplinary and international project team.

More information For more information about this position, please contact Dr Sijmen Schoustra, Laboratory of Genetics, Wageningen University, the Netherlands. Sijmen.Schoustra@wur.nl;

Phone 31 317 483142. <https://www.wur.nl/en/vacancy/PhD-position-Experimental-evolution-in-the-context-of-microbial-eco-systems.htm> “Schoustra, Sijmen” <sijmen.schoustra@wur.nl>

WageningenU FungicideResistance

PhD position in unravelling the causes and consequences of fungicide resistance in the human fungal pathogen *Aspergillus fumigatus* (<https://www.wur.nl/en/vacancy/PhD-position-in-unravelling-the-causes-and-consequences-of-fungicide-resistance-in-the-human-fungal-pathogen-Aspergillus-fumigatus.htm>)

WE ARE:

The mission of Wageningen University & Research is “To explore the potential of nature to improve the quality of life”. Within Wageningen University & Research, nine specialised research institutes from the Wageningen Research Foundation and Wageningen University have joined forces to help answer the most important questions in the domain of healthy food and living environment.

With approximately 30 locations, 5,000 employees, and 10,000 students, Wageningen University & Research is one of the leading organisations in its domain worldwide. An integrated approach to problems and the cooperation between various disciplines are at the heart of the unique approach of Wageningen.

For further information about working at Wageningen University & Research, take a look at the special career site.

Wageningen Plant Sciences Group, Laboratory of Genetics: The Laboratory of Genetics investigates causes and consequences of natural genetic variation within species. Because genetic variation plays an essential role in ecological and evolutionary processes, we ask ecologically and evolutionary motivated research questions. We use a wide array of model organisms, ranging from bacteria, fungi, plants and insects (<https://www.wur.nl/en/Research-Results/Chair-groups/Plant-Sciences/Laboratory-of-Genetics.htm>).

Radboud University Medical Centre The Radboud University Medical Centre is an academic hospital and centre of expertise in medical mycology, providing care and consultation for patients with complex fungal diseases. Antifungal drug resistance is an important research topic which is approached from a One-Health perspective.

WE LOOK FOR:

We are looking for an enthusiastic and motivated PhD candidate with a keen interest in evolutionary biology

and genetics and/or medical microbiology/mycology.

You will work in a project that addresses the One-Health consequences of circularity through the resistance development to environmental and medical azoles in the fungus *Aspergillus fumigatus* in accumulated organic residues. The objectives are to (i) use the diversity of organic waste disposal in the bulb growing sector to discern the key factors driving resistance development, (ii) use these factors to draw up an intervention plan that will be tested in the laboratory and on-site, and (iii) extend the obtained knowledge to general organic waste disposal to assess resistance, transmission routes and health risk across the system. Throughout, patient-risk will be monitored via local, regional, and national spore-trapping as well as patient isolates through hospital surveillance. The project is expected to deliver a quantitative and qualitative One-Health risk-assessment for the pressing problem of rapidly spreading azole-resistance world-wide.

The project has been recently awarded to the Laboratory of Genetics (Wageningen) and the Radboud University Medical Center (Nijmegen) by the Dutch funding organization NWO (see <https://www.nwo.nl/en/news-and-events/news/2019/12/three-awards-for-groundbreaking-research-in-agriculture-and-horticulture.html>, and full application available on request). The project contains a Postdoc and technician position, and this PhD position. Thus, you will be working in this team with clear own responsibility and ample intellectual freedom to pursue the various biological aspects of azole resistance. Moreover, the consortium contains a variety of relevant stakeholders (e.g. from the bulb sector, waste disposal and composting companies, the chemical sector, and several governmental organizations) with which you will interact during for instance progress meetings.

WE ASK:

Our ideal candidate,

- is highly motivated and enjoys working in a team with the Postdoc, technician, and the supervisors;
- has a strong background in evolutionary biology and genetics. Some experience with handling large (genomic) datasets and bioinformatics will be a bonus;
- likes the combination of field and on-site sampling in combination with state-of-the-art laboratory experiments and analyses;
- is proficient in the English language, is good in communication, and enjoys working in a team.

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Jobs

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ArizonaStateU VertebrateCollectionsManager

Inquiries to nico.franz@asu.edu are strongly encouraged.
 Research Specialist: Vertebrate Collections Manager

The School of Life Sciences at Arizona State University (<https://sols.asu.edu/>) is seeking a full-time Research Specialist who will act as Vertebrate Collections Manager. The position is part of a dynamic, collaborative Biocollections and biodiversity data science group of faculty, staff, students, volunteers, and other researchers that recently relocated into a unified, 28,000 sq. ft. facility. This new and highly accessible infrastructure is located ca. 2 miles from the main ASU Tempe Campus,

and forms part of ASU's BioKIC 'V Biodiversity Knowledge Integration Center (<https://biokic.asu.edu/>). As of 2018, our facility and personnel also constitute the primary Biorepository for NEON, the National Ecological Observatory Network (<https://biorepo.neonscience.org>).

The ASU Vertebrate Collections focus mainly on documenting vertebrate diversity in the Southwest U.S. and Sonoran Desert Region; and comprise the following four collections. (1) Ichthyology Collection; built most prominently by Wendell Minckley, with 24,000 registered lots (70% online) and more than 1,000 stained specimens. (2) Herpetology Collection; with 36,000 specimens (90% online). (3) Ornithology Collection; with 1,000 specimens (80% online). (4) Mammalogy Collection; with 9,000 specimens (95% online). These research collections are complemented by teaching collections located in the same facility. They are now also being complemented by annual additions of 20,000 vertebrate specimens, samples, and DNA extractions being received and accessioned by the continental-scale NEON Biorepository. A related, 4,000 sq. ft. cryo collections infrastructure addition will be completed in the summer of 2020. Although the NEON Biorepository has independently supported personnel, curatorial and managerial responsibilities are frequently coordinated across all collections.

BioKIC is a leading promoter of the Symbiota software platform (<http://symbiota.org/>), and is co-/managing an increasing range of biodiversity data portals that also feature vertebrate occurrence records. We therefore seek a candidate with a demonstrated background and/or willingness to become skilled in biodiversity informatics, portal management, and digitization workflows. We also strongly encourage the candidate to develop an active field- and collections-based research program at a level commensurate with the position, and possibly including systematic, biodiversity inventory, and ecological forecasting-related themes. The successful candidate will work in close collaboration with curators, collection managers, students, and researchers affiliated with the Biocollections and the School of Life Sciences. Contributing to our diverse biodiversity/data learning programs is strongly encouraged. A wide range of applicant profiles will be considered. Candidates who may not be immediately available to start in the position are nevertheless encouraged to apply.

Close date: March 13, 2020.

For more information and to apply:

1. Go to <https://cfo.asu.edu/applicant> 2. Select "Non- / ASU employees" (as applicable) 3. Search for position "59589BR"

Or directly: <https://sjobs.brassring.com/TGnewUI/>

[Search/Home/Home?partnerid=25620&siteid=5494#jobDetails=4001436_5494](https://www.asu.edu/Search/Home/Home?partnerid=25620&siteid=5494#jobDetails=4001436_5494) ———

Nico M. Franz, Ph.D. *Professor & Curator of Insects*
Director of Biocollections & BioKIC

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

E-mail: nico.franz@asu.edu iSearch: <https://isearch.asu.edu/profile/1804402> Nico Franz
<nico.franz@asu.edu>

Barcelona Bioinformatics

Dear all,

—We would like to inform you about a new job opportunity offered by BSC:

- Research Support Engineer - Data Science and AI in Bioinformatics and Systems Medicine (RE123).—

————— Deadline: 31 March, 2020 Link here < <https://www.bsc.es/join-us/job-opportunities/4620lsicbre123> >

We would appreciate that you share the information with your contacts.

Sincerely,

— /Human Resources/* Barcelona Supercomputing Center - Centro Nacional de Supercomputación* Tel. +34-934137745 <<mailto:anais.delastre@bsc.es>>www.bsc.es

<http://bsc.es/disclaimer> BSC Human Resources
<rrhh@bsc.es>

BowdoinC Maine 1yr MarineEvolution

The Biology Department at Bowdoin College invites applications for a one-year position as a Visiting Assistant Professor beginning July 2020 with the possibility of renewal for a second year. We seek a candidate with a focus on marine ecology. Teaching load is 1-2. In the fall semester of the first year, the successful candidate will teach the course The Biology of Marine Organisms with weekly lab/field sections; in the spring semester teaching duties will consist of a non-majors course and

an advanced seminar. The three courses in the second year include a lecture and lab/field course in Ecology in the fall, with two spring courses to be determined by departmental needs. A full time lab instructor will aid in the lab/field sections. The position offers opportunities to advance one's research, along with the expectation that the successful candidate will be available to mentor student research.

Bowdoin is a community that warmly welcomes people of all backgrounds. We encourage applications from candidates committed to the instruction and support of a diverse student population and from those who will enrich and contribute to the College's multifaceted diversity. In your application materials, please address how your teaching, scholarship, and/or mentoring would support our commitment to diversity and inclusion.

Bowdoin College accepts only electronic submissions. Please visit <https://careers.bowdoin.edu> to submit a c.v.; a letter of application that includes a description of your approach to teaching and your teaching experiences, your research accomplishments and research goals for the period of the appointment; and the names and contact information for three references who will provide letters of recommendation.

Review of applications will begin on February 21, 2020 and continue until the position is filled.

Founded in 1794, Bowdoin is one of the oldest and most selective coeducational, residential liberal arts colleges in the country. It is located in Brunswick, a 30-minute drive north of Portland. The College maintains exceptional facilities for research in the marine environment, including research vessels, an instrumented pier, a flowing-seawater marine lab, and expanding dry-lab facilities at the Schiller Coastal Studies Center (<https://www.bowdoin.edu/coastal-studies-center/>), which is a short drive from the main campus. Additional research support includes a range of shared field equipment and on-campus instrumentation, the opportunity to apply for internal research funding, and a generous annual conference travel allocation. Bowdoin's reputation rests on the excellence of its faculty and students, intimate size, strong sense of community, and commitment to diversity (32.7% students of color, 6% international students and approximately 15% first generation college students). Bowdoin College complies with applicable provisions of federal and state laws that prohibit unlawful discrimination in employment, admission, or access to its educational or extracurricular programs, activities, or facilities based on race, color, ethnicity, ancestry and national origin, religion, sex, sexual orientation, gender identity and/or expression, age, marital status, place of birth, genetic predisposition, veteran status,

or against qualified individuals with physical or mental disabilities on the basis of disability, or any other legally protected statuses. For further information about the College and our department, please visit our website: <http://www.bowdoin.edu> . Mary Rogalski

Assistant Professor of Biology and Environmental Studies
6500 College Station Bowdoin College Brunswick,
ME 04011 Office: Druckenmiller 120C tel: 207-721-5108
pronouns: she/her/hers

Mary Rogalski <mrogalsk@bowdoin.edu>

ClemsonU SouthCarolina HerbariumCuratorLecturer

Position: Clemson University Herbarium (CLEMS) Curator and Lecturer

The Department of Biological Sciences at Clemson University (Clemson, South Carolina, U.S.A.) seeks applicants for a 12-month, full-time Herbarium Curator and Lecturer. This is a renewable, non-tenure track position with opportunity for promotion. The regionally focused collection includes approximately 90,000 specimens of vascular plants and lichens that is the second largest herbarium collection in South Carolina and part of the Bob and Betsy Campbell Museum of Natural History.

For more information about the herbarium, please see our website at <https://www.clemson.edu/science/departments/biosci/research/herbarium> .For more information about the department, please see our website at <https://www.clemson.edu/science/departments/biosci> .
Position Responsibilities

Responsibilities as Curator will include inventory and loan management, specimen preparation, repair, and maintenance, and maintenance of the Herbarium digital collection information system and library. Responsibilities as Lecturer will include teaching 1-2 lecture courses with associated labs per year on topics including plant taxonomy/systematics and field-based botany, as well as supporting inquiry-based learning related to the Herbarium. This role will also collaborate with the Curator of the Vertebrate Collection to promote the discovery, learning, and engagement missions of the Museum of Natural History through outreach associated with plant identification, public presentations, tours, and special events. The Curator/Lecturer will supervise students and volunteers, and work closely with faculty, students, and staff to facilitate use of the collection as a resource

for research and education. The Herbarium is moving into renovated space in Summer 2020, providing an ! expanded location for the collection and its use by researchers and students. The Curator/Lecturer will be responsible for overseeing the move, and for developing new exhibits that promote the use of the collection for discovery, learning, and engagement.

Qualifications

Successful candidates must have an M.S. in Botany, Biology, or a related discipline at the time of appointment, with a Ph.D. preferred. Ideal candidates will demonstrate significant herbarium curatorial experience, strong computing skills (including experience working with database management systems and GIS), expertise in vascular plant identification, successful experience teaching university-level biology lecture and laboratory courses, and a commitment to promoting and enhancing diversity and inclusion. Knowledge of the flora of the Southeastern US is preferred, as is experience with specimen digitization, collections information systems and standards (e.g., Symbiota, Darwin Core, GBIF), georeferencing, and digital collection access management.

Application Process

Apply today at: <https://apply.interfolio.com/74178>
Please submit a (1) cover letter, (2) curriculum vitae, (3) statement of curatorial/collection management experience, (4) statement of teaching philosophy, experience, and interests including strategies currently used or planned to foster diversity and inclusion, as well as strategies for integrating use of the herbarium in teaching, and (5) names and contact information for three professional references. For full consideration, applications should be submitted by March 13, 2020. Review will continue until the position is filled.

For inquiries about the position, please contact Richard Blob (rblob@clemson.edu), chair of the search committee.

Clemson University is committed to a policy of equal opportunity for all persons and does not discriminate on the basis of race, color, religion, sex, sexual orientation, gender, pregnancy, national origin, age, disability, veteran's status, genetic information or protected activity (e.g., opposition to prohibited discrimination or participation in any complaint process, etc.) in employment, educational programs and activities, admissions and financial aid. This includes a prohibition against sexual harassment and sexual violence as mandated by Title IX of the Education Amendments of 1972.

Jason Paul Joines <joines@clemson.edu>

Gabon ResearchManager Mandrills

Research manager for a scientific research base in Gabon

The Mandrillus Project (www.projetmandrillus.com), created in 2012, is a long-term scientific project to study the ecology and sociality of a Gabonese forest primate, the mandrill (*Mandrillus sphinx*). The study population consists of +200 individuals living in a large social group in the Lekedi private park, in southern Gabon, near the village of Bakoumba. The study population is monitored daily.

The Mandrillus Project is recruiting a research manager to supervise this research station, which employs 6-10 persons (volunteers and field assistants) and regularly hosts students and researchers for short or long stays.

The tasks / activities related to the manager position are:

- behavioral data collection in the field and daily follow-up of the mandrills
- laboratory work for the management of biological samples collected in the field
- management of the scientific data sent regularly to researchers
- management of scientific protocols developed by researchers and students.
- administration (planning, payrolls and administration with the Gabonese authorities, budget management) and human resource management of a team of Gabonese and European field assistants
- welcoming and facilitating stays of students and researchers
- management of the car park
- management of scientific/telecom equipment
- writing of monthly reports on project events
- management of the relationships with local communities and employees of the Lekedi Park

Required skills for the manager:

- Previous experience in the field is *mandatory* (preferentially in Equatorial/tropical countries)
- Previous experience in the study of animal behavior is a real plus

- Experience(s) abroad and / or in isolated conditions
- Previous experience(s) in management / logistics is a plus
- Excellent communication skills
- Be **physically** and **mentally** resistant (the field is very rough, harder than expected!)
- Be open to cultural differences
- Abilities to live in isolated areas
- *-Excellent level of French (mandatory)**
- Excellent physical conditions (mandatory)
- *Desirable assets:**
- Bachelor degree
- Skills in car mechanics and maintenance
- Scientific rigor

We are looking for a very organized, motivated and serious person. The recruited person must be ready to live in isolated conditions and in an Equatorial environment, in an intercultural context. Although weekly days off are scheduled, this position often requires **a daily investment**. The hired person must be ready to manage their time optimally for the project.

Because of the isolated conditions, couples are welcome.

The manager will be housed on site, in the private park, in good material conditions (shared house equipped with air conditioning, water and electricity). The Lekedi Park is located 7kms away from a small Gabonese village, Bakoumba, and an hour away from a small town, Moanda.

Contract length:

1 renewable year (3 months probationary period)

Salary and benefit:

- Manager: local stipend roughly corresponding to a French salary of an engineer assistant.

- Housing included.

- An international round-trip (at the beginning and at the end) for the manager reimbursed at the end of the contract if the duties have been respected.

Starting date:

As soon as possible. Auditions will be done 'au fil de l'eau'.

Application file:

Please send your CV (with names and addresses of three references) and a detailed and personalized letter of motivation (standard letters are not encouraged) by email

only to: projetmandrillus@gmail.com

Alice Baniel <alice.baniel@gmail.com>

HarvardU LabManager AncientProteinsZooMS

Prof. Christina Warinner announces a new full-time Research Assistant position opening in her Ancient Biomolecules Research Group at Harvard University in Cambridge, MA, USA. Competitive candidates should have lab manager skills and mass spectrometry experience. Prior experience with either ZooMS or proteomics is preferred. Prior work with ancient biomolecules is beneficial.

For more information, see: <https://sjobs.brassring.com/-TGnewUI/Search/Home/Home?partnerid=-25240&siteid=5341#jobDetails=1506499.5341>

Position open until filled. First application review will begin 28 February 2020.

Dr. Christina Warinner (Ph.D.) Department of Anthropology, Harvard University warinner@fas.harvard.edu
www.christinawarinner.com twarinner@gmail.com

INRAE Avignon-France EntomologyPopBiol

INRAE, the French Institute for research on Agronomy, food and the environment is looking for a full time, junior scientist in entomology and population biology in Avignon, southern France.

This is a permanent position.

See: <https://jobs.inrae.fr/en/open-competitions/open-competitions-research-scientists-crcn/crcn20-ecofa-2> Rationale: The overarching goal of the INRA research unit "Ecology of Mediterranean Forests" (URFM) is the sustainable management of forests and the conservation of biodiversity. In this context, URFM studies the processes involved in the dynamics and functioning of Mediterranean forests, as well as mixed and disturbed forests, through approaches combining experimentation and modelling. Knowledge of these processes contribute to the science of ecology and is integrated into general

workflows and methods to propose adaptive management solutions for these ecosystems in the context of global change.

Job description: The successful candidate will develop a project in entomology and population biology to study how Mediterranean phytophagous insects, through their biology and host use strategies, can affect the forest ecosystem. Reciprocally, you will also study how other disturbances (drought and fire) affect insect demography. Your research will be based on experimental approaches at the individual and population levels, both on the insect and its host, to specifically address plant-tree insect interactions. This will include the assessment of how climate change affects these interactions and how they can in turn affect the direct impact of climate change and disturbances on the dynamics of Mediterranean forests. For this purpose, you will benefit from the scientific and technical expertise of URFM on the study of the role of insects in the dynamics of forest dieback, with particular expertise at the interface between the functioning of insect populations and tree populations.

Work conditions: You will conduct your research in close association with an entomologist from URFM's Population Biology and Evolution team whose expertise is in the biology, the dynamics and the genetics of insect populations. URFM also provides an excellent transdisciplinary framework for developing the research program proposed for this position. URFM's research closely combines population biology and the evolution of trees and insects, functional ecology and tree community dynamics, and fire physics and ecology. The entomofauna is considered a major biotic factor involved in forest disturbance processes, and as such, is the subject of more general ecological work, including disturbance modelling, forest adaptation to disturbances, and the role of forest management in this adaptation.

Contact: Thomas Boivin <thomas.boivin@inrae.fr>, INRAE Avignon, France

Bruno Fady <bruno.fady@inrae.fr>

INRAE Orleans Phenotypic Genomics

Please, could you post the following announcement? Thanks! Open permanent position at INRAE Orléans (France) to work on integrative genomic prediction of complex phenotypes. See detailed description at the following link <https://jobs.inrae.fr/en/open-competitions/open-competitions-research-scientists-crcn/crcn20-ecofa-1> - Opening date for applications: January 30, 2020 - Deadline for applications: March 5, 2020 - Pre-selections: April-May 2020 - Final selections: May-June 2020 - Starting date for appointments: from September 2020

NEW INRAE-mail!!! leopoldo.sanchez-rodriguez@inrae.fr

Leopoldo Sanchez Rodriguez, Directeur de Recherche (HdR), Délégué Scientifique UMR

Centre Val de Loire INRAE Biologie intégrée pour la valorisation de la diversité des arbres et de la forêt (UMR BioForA)

leopoldo.sanchez-rodriguez@inrae.fr

Tél: 33 (0) 2 38 41 78 14 Tél_IP Fax: 33 (0) 2 38 41 78 79

2163 Avenue de la Pomme de Pin CS 40001 ARDON 45075 ORLEANS Cedex 2 France <https://www6.val-de-loire.inra.fr/biofora> Leopoldo Sanchez-Rodriguez <leopoldo.sanchez-rodriguez@inrae.fr>

KielU Evolutionary Ecol

W2 Professorship in Evolutionary Ecology at Kiel University, Germany

Location: Zoological Institute at Kiel University. **Starting date:** 1. April 2021. **Deadline for applications:** 20. March 2020.

Details: The successful applicant is to represent the field of Evolutionary Ecology in research and teaching. Current topics in evolutionary ecology should be addressed experimentally with animals and also with the

help of theoretical approaches (e. g. mathematical modelling). A connection to marine or field ecological topics would be desirable. In general, the applicant should work on fundamental biological questions that can be integrated into existing or future research initiatives at Kiel University and/or that can strengthen the research focus areas of Kiel University, especially Kiel Marine Science (<http://www.kms.uni-kiel.de/en>) and/or Kiel Life Science (<http://www.kls.uni-kiel.de/en/>). The applicants research should ideally strengthen the topics of the Kiel Evolution Center (<http://www.kec.uni-kiel.de/>), including for example the topics addressed within the Collaborative Research Center CRC 1182 (<https://www.meta-organism-research.com/>) or the Research Training Group GrK 2501 (<http://www.kec.uni-kiel.de/-training/TransEvo.php>).

The successful applicant should have an excellent track record in one of the following areas: (i) evolutionary ecology of biotic interactions and (ii) the development of new theoretical concepts on the evolutionary ecology of biotic interactions, ideally using mathematical models or statistical analysis of complex data sets. The applicant should have teaching experience at the bachelor and master level in the field of evolutionary ecology and ideally theoretical biology and should have excellent student evaluations.

Applications with the usual documents (curriculum vitae, list of publications, list of courses taught, copies of academic certificates) along with your private and business address, telephone number and email address should be sent preferably in electronic form to the following address by 20.03.2020 to The Dean, Faculty of Mathematics and Natural Sciences, Kiel University, 24098 Kiel, Germany, (berufungen@mnf.uni-kiel.de).

For further information, see: <https://www.berufungen.uni-kiel.de/de/dateien/oeffentl.-dateien/w2/evolutionsoekologie-evolutionary-ecology-deutsch-englisch> Hinrich Schulenburg

Evolutionary Ecology and Genetics Christian-Albrechts-Universitaet zu Kiel Am Botanischen Garten 9 24118 Kiel Germany Tel: +49-431-880-4143/4141 Fax: +49-431-880-2403 Email: hschulenburg@zoologie.uni-kiel.de

Hinrich Schulenburg <hschulenburg@zoologie.uni-kiel.de>

Liverpool John Moores U Human Evolutionary Genetics

The School of Biological & Environmental Sciences at Liverpool John Moores University is seeking to appoint a full-time Lecturer/Senior Lecturer in Human Evolutionary Genetics. The School has thriving research programmes and outstanding facilities. You will be expected to contribute to undergraduate and postgraduate programmes in Forensic Anthropology and Biology.

You will have an internationally recognised profile of research and scholarship eligible for inclusion in the Hefce Research Excellence Framework exercise. You should also have practical and analytical experience of working with ancient DNA.

The School/ department is committed to promoting equality and diversity, including the Athena SWAN Gender Equality charter for promoting the career of Women in STEM (science, technology, engineering, mathematics) in higher education. We particularly welcome applications from women for this post and all appointments will be made on merit.

Informal enquiries may be made to Professor Joel Irish (Subject Leader in Anthropology) email j.d.irish@ljmu.ac.uk.

<https://jobs.ljmu.ac.uk/vacancy/lecturer-or-senior-lecturer-in-human-evolution-genetics-412748.html>

“Reddon, Adam” <A.R.Reddon@ljmu.ac.uk>

Lyon Bioinformatics Genomics

A professor position is susceptible to open early 2021 in the Laboratoire de Biométrie et de Biologie Évolutive (LBBE, UMR 5558 CNRS, Université Lyon 1). The profile being currently contemplated is given below (the definitive profile will be notified upon the opening of the call, early 2021). Any person interested is invited to contact nicolas.lartillot@univ-lyon1.fr their earliest convenience.

Models, algorithms and machine learning in bioinformatics and in genomics.

Biology is currently undergoing a major technological and conceptual revolution. This shift in paradigm is stimulated by the production of massive amounts of data, which open new perspectives on complex processes at the molecular, cellular, population or macro-evolutionary scales. In turn, these ongoing developments call for an increased integration between data analysis, stochastic modeling, statistical and machine learning, algorithmics and computer science.

In this context, a new professor position is susceptible to open early 2021 in the Laboratoire de Biométrie et de Biologie Évolutive (LBBE, Université de Lyon, France), for a teaching and a research activity in the fields of mathematics, statistics and/or algorithmics, such as applied to bioinformatics and genomics. Owing to the specific challenges raised by the inherently multi-disciplinary nature of bioinformatics, a special emphasis in the recruitment will be put on the ability of the candidate to develop and promote an ambitious strategic and pedagogical perspective concerning the place of mathematics, statistics, computer and data sciences in the teaching programs and the current research in bioinformatics.

Teaching. Teaching will be primarily targeted to the bioinformatics master, with additional teaching effort also devoted to the local undergraduate and graduate programs of biosciences, ecology and health. In this context, the person recruited will have much freedom in the design of innovative courses in mathematics, statistics, stochastic modeling and/or algorithmics applied to bioinformatics and genomics. She/he will also have the opportunity to participate in the development of new multi-disciplinary programs, in partnership with the math and computer sciences departments of the university. Of note, some of the courses (in particular undergraduate programs) will have to be given in french (within two years after recruitment).

Research. The person recruited will be affiliated to the LBBE, where she/he will have the opportunity to develop a research project with a strong theoretical and methodological component, in relation with stochastic modeling and data analysis in bioinformatics, evolutionary, molecular or cellular biology. Her/his research activity may pertain to a broad range of themes, including: methods, algorithms and stochastic models applied to multi-omics; machine learning, AI and deep learning applied to the analysis of molecular and functional data; models and methods in population genetics, evolutionary or statistical genomics. Finally, the methodological research developed by the person recruited in the context of the present call may also happen to meet some of the current needs in ecology, evolution and health sciences, and as such, offer an opportunity for a broad range of

possible collaborations within the host laboratory.

LARTILLOT NICOLAS <nicolas.lartillot@univ-lyon1.fr>

OIST Okinawa CephalopodEvolution

Team Leader for Cephalopod Support

The Okinawa Institute of Science and Technology Graduate University (OIST) invites applications for the position of Team Leader for Cephalopod Support in Animal Resources Section. The Team Leader for Cephalopod Support will provide all aspects of cephalopod acquisition, breeding and husbandry primarily at the OIST Marine Station and on the OIST main campus as necessary and lead Cephalopod Support Staff.

OIST has developed a new interdisciplinary model for education and research that brings together the best international graduate students and postdoctoral researchers to work side by side with world-class faculty members in modern well-equipped laboratories. Situated in a stunningly beautiful ecological setting on the island of Okinawa. OIST is a university that has no departments or artificial barriers that separate investigators in different fields. Its international student body and faculty represent nationalities from all over the world.

Concentrating initially on Neuroscience, Molecular Sciences, Mathematical Sciences, Environmental and Ecological Sciences and Physical Sciences, OIST attracts the best minds in the world to Okinawa to transform the way science and education is done in the global academic world.

The Team Leader for Cephalopod Support will be responsible for all aspects of cephalopod acquisition, breeding and husbandry primarily at the OIST Marine Station and also on the OIST main campus as necessary. The Team Leader for Cephalopod Support and will develop of first-class facilities, animal husbandry and research techniques in collaboration with the OIST Cephalopod researchers. Location OIST Marine Science Station 656-7 Seragaki-hara, Onna Village Okinawa, 904-0404 Japan Responsibilities

1. Leading care and use program for Cephalopod research through discussion with faculty/researchers and collaboration with Okinawa Marine Science Support Section (OMSSS).
2. Making a business plan for near

future and next 10 years. 3. Team/Staff management: Environmental Improvement (workplace and desk area), Work Sharing (Daily, Weekly, monthly and annual job: adequate workload), and irregular operation. 4. Budget management 5. Career development of staff

Qualifications

1. Minimum 5 years of relevant experience in cephalopod research or husbandry
2. Experience in managing a team
3. Business level communication skills in English
4. Good collaborative skills relevant to a multi-user environment
5. Good communication and interpersonal skills
6. The ability to establish and maintain effective work relationships Report to the Head of Animal Resources Section, Research Support Division

Starting Date As early as possible Term & Working Hours

Term: Full-time, fixed term appointment for 2 years. Contract initially with 3 month probationary period (inclusive). This contract may be renewed.

Working hours: 9:00-17:30 (Discretionary) Compensation & Benefits

Compensation: In accordance with the OIST Employee Compensation Regulations Annual salary: 5.8 million yen ~

Benefits: - Relocation, housing and commuting allowances - Annual paid leave and summer holidays - Health insurance (Private School Mutual Aid <http://www.shigakukyosai.jp/>), welfare pension insurance (kousei-nenkin), workers accident compensation insurance (roudousha-saigai-hoshou-hoken)

How To Apply

Apply by uploading your submission documents HERE* < <https://asp.gigacc.com/user/~sa/-rp1ktrp0gi1emmmi503md6h1mg> >.

*This is a secure file uploading system for handling confidential materials.

If you have any questions, please contact us at [recruiting\[at\]oist.jp](mailto:recruiting[at]oist.jp). (replace [at] with @ before using this email address) Submission Documents

- Cover letter in English (and Japanese if possible) - Curriculum vitae in English (and Japanese if possible)

* Please be sure to indicate where you first saw the job advertisement. Application Due Date Applications deadline will continue until the position is filled. Decla-

ration

- OIST Graduate University is an equal opportunity, affirmative action educator and employer and is committed to increasing the diversity of its faculty, students and staff. The University strongly encourages applications from underrepresented groups. - "Information provided by applicants or references will be kept confidential, documents will not be returned. The personal information you provide will only be used to recruitment selection. OIST Privacy Policy < <https://www.oist.jp/careers/-team-leader-cephalopod-support> >" - Please view OIST policy for rules on external professional activities

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PennsylvaniaStateU ResTech PlantMicrobeInteractions

RESEARCH TECHNOLOGIST II - PLANT MICROBE INTERACTIONS

The Burghardt lab in the Plant Sciences department at The Pennsylvania State University Park is hiring a lab technician (Research Technologist II). The Burghardt lab focuses on understanding legume-rhizobia-climate interactions in natural and managed landscapes. Responsibilities include independently conducting controlled laboratory, greenhouse, and field-based experiments with legumes and rhizobia, ensuring lab safety compliance and performing lab management tasks including training and supervision, methods development for creative, high-risk projects measuring plant-microbe interactions, and coordinating lab broader impacts and outreach efforts. Valued traits include independence, creativity, collaboration, meticulousness, persistence, and the ability to work with a diverse team and effectively prioritize tasks. Desired (but not required) technical skills include experience with lab/field experiments with plants and microbes, molecular biology and microscopy techniques, DNA extractions, sterile technique, physiological and functional assays of microbes/plants, experience with data, lab management, and collaborative software, data analysis and visualization (e.g., R and Inkscape), and scientific writing. There will be opportunities for the technician to participate in data analysis and production

of publications (co-authorship) and other professional development activities.

Details: This fixed-term position is based at the University Park campus of the Pennsylvania State University in Central Pennsylvania and includes a competitive salary (commensurate with experience) and benefits. Typically requires a Bachelor's degree or higher plus four years of related experience, or an equivalent combination of education and experience. Research experience can be obtained concurrently with the degree. The Burghardt Lab values diversity of thought, perspective, experience, and people, and is actively committed to a culture of inclusion and respect. Along with the online application on the psu.jobs site (<https://psu.jobs/job/93671>), please submit a CV, and cover letter addressing your qualifications and scientific interests. This is a fixed-term appointment funded for one year with an excellent possibility of re-funding. For more information, contact Liana Burghardt (liana.burghardt@psu.edu) or see her website <http://lianaburghardtlab.com> . “liana.burghardt@psu.edu” <liana.burghardt@psu.edu>

SaltLakeCity VertebrateCollectionsManager

Collections Manager, Vertebrate Zoology Regular Full-Time Salt Lake City, UT, US

The Natural History Museum of Utah(UMNH)seeks a Collection Manager for its Vertebrate Zoology collections of approximately 90,000 specimens(44,000 mammals, 23,000 birds, and 23,000 reptiles and amphibians), including dry specimens (study skins & skeletal elements), fluid-preserved specimens (in ethanol), and tissues (in 95% ethanol). The collections are among the largest from the Great Basin and Colorado Plateau regions, and include important material from Mexico, Central America, Australia, southeast Asia, and Pacific Islands. This position is directly supervised by the Curator of Vertebrate Zoology.

The Collection Manager will oversee all aspects of the management and utilization of the Museum's vertebrate zoology collection including processing incoming and outgoing loans, collaborating with NHMU Collections and Research colleagues, facilitating the use of the collection by researchers, and supporting the needs of other NHMU departments including Exhibitions, School Programs, Public Programs, Outreach, Development, Mar-

keting, and Public Relations. The Collection Manager will have primary responsibility for collection maintenance, preparation and integration of new specimens, specimen cataloging, database management, digitization projects, physical improvements, and coordinating the activities of student assistants and volunteers.

Other duties include participation in institutional planning, preparation of grant proposals for collection support. The successful applicant may also lead or participate in field and collections-based research, and engage in other areas of professional development.

At the Natural History Museum of Utah, we recognize that our strength and sustainability as an organization stem from diversity and inclusion. For this reason, we are committed to fostering equity, recruiting and retaining a diverse workforce that reflects the communities we serve, and empowering staff members in developing an accessible and inclusive work environment.

We also place a strong emphasis on providing an exceptional experience to every guest who visits the museum or participates in any of our programs. We believe that everyone, at every level and in all departments, are a critical part of providing this level of experience. Therefore, all staff members receive ongoing training and are expected to consistently contribute to creating exceptional, memorable, and inclusive experiences for our guests, partners, and the community.

RESPONSIBILITIES

- Cares for the vertebrate collection on a day-to-day basis, including organizing and conserving specimens. Plans and oversees the digitization, rehousing, and movement of the collection as necessary and/or directed by the Curator(s). Assists with the development and implementation of plans and goals for the collection. Facilitates visits by outside researchers using the collection. - Responsible for collection maintenance and documentation including database management, loan processing, and collection digitization. - Plans for collection growth and improvement. Works cooperatively with other collection management staff to achieve the highest level of collection care and productivity across the Museum.
- Processes incoming and outgoing specimens and/or materials including new field specimens, donations, exchanges and loans in collaboration with the Registrar. Maintains extensive knowledge concerning specimens in the collections and the organisms they represent. - Supports the planning, installation, and maintenance of temporary and permanent exhibits. Expedites the use of collection of materials for display. - Participates in public and school educational program activities of the Museum including, but not limited to, tours for the public and Museum members, training of Museum

volunteers and Gallery Interpreters, engagement with Youth Development Program participants, and participation in public Museum events. - Facilitates outside research visits of scientists using the collection. - Prepares or assists in preparing permits, grant proposals, audit reports, protocols, publications and articles. - Assesses related training needs and coordinates training programs to meet those needs for collections staff, students, and volunteers. Supervises work of part-time staff, students, and volunteers. - Stays abreast of current professional standards and legal or other related changes impacting the collection and makes recommendations for improvement and compliance. - Advocates for natural history collections and effectively communicates their importance to members of the public and the scientific community. - May lead or participate in ongoing or original research related to the collection.

MINIMUM QUALIFICATIONS

- Bachelor's degree in a related field plus two years of related

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SanDiegoZoo BankDirector

Biodiversity Banking Director at San Diego Zoo Global's Institute for Conservation Research.

https://urldefense.proofpoint.com/v2/url?u=https-3A__usr57.dayforcehcm.com_CandidatePortal_en-2DUS_sdzg_Posting_View_1397&d=DwIDAw&c=-vIOdJwicfNn5sbaTeWY_FB3E5rEPYTYfTbyfJrTJqcc&r=Z1LxhcLnh9NSqMUE2BjsVd2Mw73J__5-Cvo4YWvQMwg&m=_rbWOJGBupv7JWQIblSGCENXVxyZ7M9ztEN1MSvwQPo&s=rRh-cR8RkDHYwptBjpr72c7MvBlo4PblyjqSuSOq0GM&e=

Marlys Houck <MHouck@sandiegozoo.org>

SGN Frankfurt OomycetesFunctionalComparativeGenomics

Job offer Ref. # 12-20004

The Senckenberg Gesellschaft für Naturforschung (SGN) is a member of the Leibniz Association and is based in Frankfurt am Main, Germany. LOEWE Centre for Translational Biodiversity Genomics (LOEWE-TBG) is a joint venture of the Senckenberg Gesellschaft für Naturforschung (SGN), Goethe-University Frankfurt, Justus-Liebig-University Giessen and Fraunhofer Institute for Molecular Biology and Applied Ecology IME aiming to intensify biodiversity genomics in basic and applied research. We will establish a new and taxonomically broad genome collection to study genomic and functional diversity across the tree of life and make genomic resources accessible for societal-demand driven applied research.

The Senckenberg Gesellschaft für Naturforschung and the LOEWE-TBG invite applications for a

PhD position (m/f/d)

Functional Comparative Genomics of Oomycetes

(TV-H E13, half time position)

Your tasks

§Library preparation and genome sequencing using latest technologies (including oxford nanopore sequencing)

§Genome assemblies and annotation

§Comparative genomics focusing on functional aspects, such as pathogenicity genes and regulatory networks

§Pattern analyses using standard algorithms and deep learning approaches

Your profile

§Master or equivalent Diploma in biology, bioinformatics or related subjects

§Experience with handling large amounts of sequence data

§Experience and exceptional interest in comparative genomics and evolutionary biology research

§Ability to effectively communicate and organize workflows, to closely collaborate in interdisciplinary teams

§Proficient use of the English language (C1 or native)

What is awaiting you?

§An interesting task in a dynamic team of researchers in an international research group

§Exposure to an additional 20 research groups in the LOEWE excellence centre

§A workplace close to the city center of Frankfurt, a lively and diverse city with high life quality

§Flexible working hours -company pension scheme - Senckenberg badge for free entry in museums in Frankfurt - a family-conscious personnel policy

Salary and benefits are in accordance with a public service position in Germany (collective agreement TV-H E13, 50%). The contract shall start as soon as possible and will be limited to 36 months. Equally qualified handicapped applicants will be given preference. The place of work is in Frankfurt am Main at the Senckenberg Biodiversity and Climate Research Centre (SBiK-F). The employer is the Senckenberg Gesellschaft für Naturforschung.

We look forward to your application!

Please send your application, mentioning the reference of this job offer (ref. #12-20004) by March 8th, 2020 (deadline) by e-mail (attachment in a single pdf document) and including

- a cover letter describing your suitability and motivation
- a detailed CV
- your credentials and certificates
- and contact details of two potential references to:

Senckenberg Gesellschaft für Naturforschung

Senckenberganlage 25 60325 Frankfurt

E-Mail: recruiting@senckenberg.de

For scientific enquiries please get in contact with Prof. Dr. Marco Thines (marco.thines@senckenberg.de).

– Mit freundlichen Grüßen / Best Regards

Jessica Helm Personalsachbearbeiterin

SENCKENBERG Gesellschaft für Naturforschung (Rechtsfähiger Verein gemäß § 22 BGB) Senckenberganlage 25

60325 Frankfurt am Main

Besucheradresse: Mertonstraße 17-21, 60325 Frankfurt am Main (1. OG)

Telefon/Phone: 0049 (0)69 / 7542 -

Leiterin Personal & Soziales - 1458 Loke, Uta

Stellv. Leiterin Personal & Soziales - 1319 Elsen, Carina

Team Personalbeschaffung (Recruiting) - 1564 di-Biase, Maria - 1313 Helm, Jessica - 1478 Gajcevic, Isabel

Fax: 0049 (0)69 / 7542-1445

Mail: recruiting@senckenberg.de

Direktorium: Prof. Dr. Dr. h.c. Volker Mosbrugger, Prof. Dr. Andreas Mulch, Stephanie Schwedhelm, Prof. Dr. Katrin Böhning-Gaese, Prof. Dr. Karsten Wesche

Präsidentin: Dr. h. c. Beate Heraeus Aufsichtsbehörde: Magistrat der Stadt Frankfurt am Main (Ordnungsamt)

Mitglied der Leibniz-Gemeinschaft

Vernetzen Sie sich mit uns: www.senckenberg.de/socialmedia recruiting <recruiting@senckenberg.de>

StCloudStateU EvolutionaryEcol

JOB POSTING: Ecologist at St. Cloud State University

Please visit: <https://stcloudstate.peopleadmin.com/postings/2094> Classification Title Assistant/Associate Professor

Working Title Ecologist Professor

Position Type Faculty

Division Academic Affairs

Department College of Science & Engineering/School of Computing, Engineering & Environment

Unit Biology

Location Robert H. Wick Science Building, Main Campus, 720 Fourth Avenue South, St. Cloud MN 56301

FLSA Exempt

Full/Part Time Full Time

FTE 1.00

Employment Condition Fixed Term

Work Shift Days

Work Schedule/Hours/Days

Posting Details

The Department of Biological Sciences at St. Cloud State University invites applications for a fixed-term, non-tenure track position in Ecology at the rank of assistant professor. We seek a broadly-trained biologist, with an emphasis on either zoological or botanical organisms, who addresses questions with an innovative approach

to ecology. Of interest are individuals with expertise among the following fields that address current issues in ecology and computational biology: informatics, statistics, predictive modeling, theoretical ecology, community ecology, and/or evolutionary ecology. The successful candidate will be expected to teach undergraduate and graduate-level courses in the areas of ecology, informatics, statistics, and biodiversity. The successful candidate will also have opportunities to develop undergraduate and graduate-level research. We especially encourage applications from candidates in underrepresented groups in the biological sciences.

The ideal candidate will share St. Cloud State's commitment to our mission and values, especially our commitment to the holistic education of our racially and socioeconomically diverse student population. Applicants will be expected to establish and maintain a professional goal to become outstanding teachers through the use of research-based, best-practices pedagogy. They should be willing to participate in teaching using alternative delivery methods such as online and hybrid. They will regularly engage in ongoing professional development and innovation opportunities focused on pedagogical growth offered within the College and at St. Cloud State University.

More about the College of Science and Engineering and the Department of Biology

*Employment for this position is covered by the collective bargaining agreement for the Inter Faculty Organization (IFO) which can be found here.

Salary Minimum Commensurate with qualifications and experience.

Salary Maximum Commensurate with qualifications and experience.

Salary Type Annual

Bargaining Unit/Plan 209, IFO

Job Description

The responsibilities of the faculty position include teaching Bachelors and Masters-level courses such as Ecology, an upper-division ecology-related elective (e.g., Community Ecology), Statistical Design (Biostatistics), General Zoology or Plant Biology, Graduate Seminar, and other courses dependent upon expertise (e.g., Aquatic Ecology, Entomology, Ornithology).

Required Qualifications

Ph.D. in Biology or related discipline by the hire date

Evidence of teaching experience

Evidence of demonstrated ability to teach and work

with persons from culturally diverse backgrounds

Preferred Qualifications

Demonstrated experience teaching courses listed including laboratories

Post-doctoral experience

Evidence of working with ecology, statistics, and informatics

Experience mentoring students including underrepresented groups in STEM fields

Other Requirements

About

Founded in 1869, St. Cloud State is an award-winning regional public university and proud member of the Minnesota State Universities & Colleges system. The 100-acre campus is about an hour northwest of Minneapolis and St. Paul, along the oak-crowned west bank of the Mississippi River. St. Cloud State students prepare for life, work and citizenship by exploring the world around them and making it better. St. Cloud State employees value active and applied learning, community engagement, sustainability, and global and cultural understanding. These commitments complement more than 200 majors, minors and pre-professional programs, 60 graduate programs and 250 student clubs and organizations. St. Cloud State began as a normal school in 1869 and became St. Cloud State Teachers College in 1921. Bachelor's degrees were first offered in 1925. Master's degrees debuted in 1957. In 1975, the institution became St. Cloud State University. In recent years, the University added applied doctoral programs in Higher Education Administration and Educational Administration and Leadership. A diverse mix of students from Midwestern towns and U.S. metropolitan areas are learning alongside more than 1,000 international students from about 80 nations.

Additional information on St. Cloud State University can be found at:

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StMarysC Maryland 1yr EvolutionaryMolecularGeneticist

Evolutionary molecular geneticists are encouraged to apply.

Molecular Geneticist - The Department of Biology at St. Mary's College of Maryland invites applications for a one-year visiting assistant professor position beginning August 2020. Teaching responsibilities include participating in the biology core courses Genetics and Principles of Biology, an upper division elective in molecular biology, and an upper division elective in their specialty. Ph.D. required; postdoctoral training and/or teaching experience preferred. Employment will be contingent upon successful completion of a criminal background check. The successful candidate must produce the necessary documentation to legally work in U.S. upon hire.

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

St. Mary's College (www.smcm.edu) embodies diversity and inclusion in its mission. We create an environment that recognizes the value of individual and group differences and we encourage inquiries from applicants who will contribute to our cultural and ethnic diversity. Application materials should include a cover letter in which candidate addresses how his/her teaching will contribute to an inclusive classroom, curriculum vitae (including e-mail address), statement of teaching philosophy, statement of research interests, and evidence of teaching effectiveness (if available). Applicants should also arrange for the submission of three confidential letters of recommendation. Applicants can request confidential letters through their Interfolio Dossier account, and may be uploaded for free by the letter writer directly to our Interfolio-hosted account for committee review. Applications are being accepted online at: apply.interfolio.com/74202. Questions may be directed to

Dr. Aileen Bailey at ambailey@smcm.edu. Review of applications will begin March 2, 2020 and continue until the position is filled. St. Mary's College of Maryland is an affirmative action/equal opportunity employer. Visit our website: www.smcm.edu/hr Kevin J Emerson, PhD Associate Professor of Biology Biology Department St. Mary's College of Maryland 18952 E. Fisher Rd St. Mary's City, MD 20686-3001 kjemerson@smcm.edu <http://faculty.smcm.edu/kjemerson> Office: 240 - 895 - 2123, Schaefer Hall 231

"kjemerson@smcm.edu" <kjemerson@smcm.edu>

UArkansas SeniorResearchAsst EvoGenetics

Prof. Jeffrey Lewis (www.thelewislab.com) seeks applications for a Senior Research Assistant position for a newly-funded 5-year NSF CAREER award. The goal of the project is to understand the mechanisms underlying natural variation in yeast stress defense and signaling. The major duties for this position will be to assist in the development of tools for high-throughput genetic screens (including CRISPR screens and high-throughput genetic mapping). The minor duties for this position will include assisting with lab management. For more information, see: <https://jobs.uark.edu/postings/39612> Application review will begin on February 20th, 2020.

Jeffrey A. Lewis, Ph.D. Assistant Professor of Biological Sciences

University of Arkansas Department of Biological Sciences Science and Engineering 526 Fayetteville, AR 72701 479-575-7740

"Jeffrey A. Lewis" <lewisja@uark.edu>

UCalgary EvolutionaryBiomechanics

The Department of Biological Sciences, Faculty of Science, at the University of Calgary invites applications for a full-time, tenure-track position in the area of Evolutionary and Comparative Animal Biomechanics. The appointment is at the rank of Assistant Professor with an anticipated start date of September 1, 2020.

We seek a candidate studying animal biomechanics, in an explicitly evolutionary comparative context. We seek a broadly trained person who will complement existing strengths in animal physiology, development, comparative anatomy and paleobiology.

Applicants must hold a Ph.D. in biomechanics or other appropriate field, with research interests in the area of Evolutionary and Comparative Animal Biomechanics, and have at least one year of postdoctoral experience. Applicants must have a record of research scholarly output demonstrating the potential to attract and sustain external funding. Teaching experience in vertebrate biology/anatomy, and a demonstrated commitment to high quality teaching as evidenced by teaching accomplishments and accolades, teaching evaluations, and other lines of evidence, are also required.

The successful applicant will be expected to conduct innovative research and to establish an outstanding, externally funded research program. The successful candidate will be expected to teach vertebrate biology/anatomy and other courses in their area of expertise. The candidate will also have a strong commitment to excellence in teaching at both the undergraduate and graduate level and to graduate student training and supervision.

Interested individuals are encouraged to apply online via the 'Apply Now' link found on this page: <https://careers.ucalgary.ca/jobs/5029475-assistant-professor-department-of-biological-science-faculty-of-science>

.Applicants should submit a single pdf including curriculum vitae, statements of research interests, teaching philosophy, and the names and contact information of three references.

Questions may be addressed to:

Dr. Douglas Storey, Head, Department of Biological Sciences University of Calgary, 2500 University Drive Calgary, AB T2N 1N4 Fax: (403) 289-9311 Email: head-bio@ucalgary.ca

Application deadline is March 18, 2020.

The Department of Biological Sciences at the University of Calgary is committed to High impact research and teaching and to creating an innovative, student-centered learning environment. Information about the Department and its programs can be found at <http://bio.ucalgary.ca>. The University of Calgary recognizes that a diverse staff/faculty benefits and enriches the work, learning and research experiences of the entire campus and greater community. We are committed to removing barriers that have been historically encountered by some people in our society. We strive to recruit individuals who will further enhance our diversity and will support their academic and professional success

while they are here. All qualified candidates are encouraged to apply; however Canadians and permanent residents will be given priority. In this connection, at the time of your application, please answer the following question: Are you a Canadian citizen or a permanent resident of Canada? (Yes/No)

Additional Information

To learn more about academic opportunities at the University of Calgary and all we have to offer, view our Academic Careers website < <http://careers.ucalgary.ca/-pages/academic-careers> >. For more information about the Faculty of Science visit Careers in the Faculty of Science < <https://science.careers.ucalgary.ca/> >.

About the University of Calgary

The University of Calgary is Canada's leading next-generation university 'V a living, growing and youthful institution that embraces change and opportunity with a can-do attitude. Located in the nation's most enterprising city, the university is making tremendous progress on its Eyes High journey to be recognized as one of Canada's top five research universities, grounded in innovative learning and teaching and fully integrated with the community it both serves and leads. The University of Calgary inspires and supports discovery, creativity and innovation across all disciplines. For more information, visit [ucalgary.ca](http://www.ucalgary.ca) < <http://www.ucalgary.ca> >.

About Calgary, Alberta

Calgary is one of the world's cleanest cities and has been named one of the world's most livable cities for years. Calgary is a city of leaders - in business, community, philanthropy and volunteerism. Calgarians benefit from a growing number of world-class dining and cultural events and enjoy more days of sunshine per year than any other major Canadian city. Calgary

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**UCalgary Instructor
BiologicalSciences**

Instructor, Biological Sciences Department of Biological Sciences, Faculty of Science, University of Calgary

The Department of Biological Sciences, Faculty of Science, at the University of Calgary invites applications for a full-time, tenure-track, Instructor in Biological Sciences, with an anticipated start date of July 1, 2020. The primary activity for faculty members in the Instructor stream is in teaching and learning, especially in undergraduate programs. Scholarship (pedagogical and discipline-specific) and service are also expected, but form smaller components of the position.

The successful candidate will teach in and enhance the Department's current undergraduate courses in the Biological Sciences program. These will include foundational (core) courses, quantitative courses and capstone courses. The foundation (core) for the Biological Sciences program, the largest in the department, is a series of first- and second-year core courses that span a range of topics including introductory biology, cell biology, ecology, genetics, organismal biology and biochemistry. The successful individual would contribute to teaching in and coordination of one or more of these core courses, according to their expertise. Descriptions of these core courses (BIOL 241, 243, 311, 313, 331, 371 and BCEM 393) are available at <https://www.ucalgary.ca/pubs/calendar/current/-biology.html> and learning outcomes for the courses are provided at https://bio.ucalgary.ca/undergraduate/-current_students/academics/learning_objectives. The successful applicant will be expected to contribute to teaching in at least one of the core courses at the first- or second-year level. They would also contribute to teaching and developing quantitative courses, such as BIOL 315 (Quantitative Biology I), for students at the second-year level. Our BIOL 315 (Quantitative Biology I) course introduces students to programming with R and thus the successful applicant requires experience with R programming.

The successful candidate will also be expected to contribute to the development and delivery of capstone courses that provide experiential education to students in the Biological Sciences program, through authentic undergraduate research experiences and/or community-based learning.

A PhD in one of the biological sciences with strong working knowledge of advanced quantitative analysis is required by the time of application. The successful candidate will have a strong record of teaching experience and possess a broad knowledge of and interest in undergraduate biology education. Post-doctoral experience and/or direct experience with the scholarship of teaching and learning, or discipline-based biology education research, as well as authentic undergraduate research experiences or community-based learning is a requirement.

Candidates must demonstrate a strong commitment to teaching and learning as evidenced by established successes and use of contemporary approaches to teaching, a strong commitment to evidence-based pedagogy, and a desire to support student learning inside and outside of the classroom.

The successful candidate will demonstrate excellent interpersonal skills, a collaborative approach to undergraduate teaching, and the ability to work effectively as part of a teaching team and within the department.

Interested individuals are encouraged to submit an application online at the University of Calgary Careers web site (<https://careers.ucalgary.ca>) via the 'Apply Now' link. Applications should include a curriculum vitae, statement of teaching interests, evidence of teaching effectiveness, and the names and contact information of three references.

Questions may be addressed to:

Dr. Douglas Storey, Head, Department of Biological Sciences University of Calgary, 2500 University Drive Calgary, AB T2N 1N4 Fax: (403) 289-9311 Email: head-bio@ucalgary.ca

Application deadline is March 2, 2020. Short-listed candidates will be contacted for an interview.

The University of Calgary recognizes that a diverse staff/faculty benefits and enriches the work, learning and research experiences of the entire campus and greater community. We are committed to removing barriers that have been historically encountered by some people in our society. We strive to recruit individuals who will further enhance our diversity and will support their academic and professional success while they are here. In support of University of Calgary's promotion of a diverse workforce, the Faculty of Science is committed to showing leadership in diversity, equity and inclusion and nurturing a healthy and respectful workplace environment for all.

All qualified candidates are encouraged to apply; however, Canadians

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UConnecticut Technician VertParasites

University of Connecticut: Research Technician One Research Technician position is available in Dr. Daniel Bolnick's research group in the Department of Ecology and Evolution < <http://eeb.uconn.edu/> > at the University of Connecticut.

Tasks: The technician will be funded by a National Institutes of Health grant to study immunology and genetics of a vertebrate host's resistance to a helminth parasite, and parasite evasion of host immunity. Previous work by the Bolnick lab identified naturally evolved variation in stickleback fishes' resistance to a severe cestode parasite (Weber et al 2017 American Naturalist; Weber et al 2017 Proceedings of the National Academy of Sciences). The technician will contribute to this research by assisting with fish care, experimental infection and immune challenge assays.

Minimum Qualifications: Applicants must have a BS, BA, or MA degree in biology or a closely related field. Prior research experience is essential, including some experience with animal care (which is a core function of this job appointment). Previous research experience and work records should demonstrate a commitment to research, good work ethic, lab skills, and organizational ability.

Preferred qualification: laboratory skills related to genetics, immunology, and/or parasitology.

Duration: This appointment will initially be for one year, with the intent to extend for a second year conditional on performance. Additional years will be available contingent on external funding. The start date is negotiable, but an April or May start is preferred.

Applications should electronically submit a single pdf file containing the following, in order: 1) Coverletter, including a summary of research experience and career goals 2) CV 3) List of three references, with contact information (email, telephone, and mailing address). We will request letters directly from these references, after identifying top candidates.

The application pdf file should be emailed to Dr. Daniel Bolnick (daniel.bolnick@uconn.edu). Include the subject line "Research Technician Application: <YOUR NAME>". Applications must be received by February

28, 2020 for full consideration, though late applications may be considered.

For questions about this position, please email Dr. Bolnick (daniel.bolnick@uconn.edu). For information about the Bolnick Lab visit the lab website (<https://bolnicklab.wordpress.com>), lab photostream <<https://www.flickr.com/photos/98765823@N08/-albums>>, and Dr. Bolnick's Google Scholar page < https://scholar.google.com/citations?hl=en&user=cfwxm0AAAAAJ&view_op=list_works&sortby=pubdate >.

The University of Connecticut is an Equal Opportunity Employer. Applicants with questions about disability services can privately discuss their application with the University of Connecticut Disability Services Office. The Bolnick Lab is simultaneously searching for a postdoctoral researcher.

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

PLEASE NOTE NEW ADDRESSES
daniel.bolnick@uconn.edu

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

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

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

UEdinburgh 3 Bioinformatics Genomics EnvChange

Academic Posts at the University of Edinburgh

Three faculty positions are available in the School of Biological Sciences at the University of Edinburgh. Appointments will be made at the level of Lecturer (Assistant Professor), Senior Lecturer or Reader (Associate Professor). We seek people in the areas of Bioinformatics, Genomics, and Environmental change biology. Appointments are likely to be held within the Institute of Evolutionary Biology:

<https://www.ed.ac.uk/biology/evolutionary-biology>
Deadline for applications 12 March 2020.

For more details, see:

<https://www.jobs.ac.uk/job/BYQ105/lecturer-senior-lecturer-or-reader-in-bioinformatics> <https://www.jobs.ac.uk/job/BYQ014/senior-lecturer-or-reader-in-genomics> <https://www.jobs.ac.uk/job/BYQ057/-lecturer-senior-lecturer-or-reader-in-environmental-change-biology> Paul M. Sharp paul.sharp@ed.ac.uk

The University of Edinburgh is a charitable body, registered in Scotland, with registration number SC005336.

SHARP Paul <paul.sharp@ed.ac.uk>

U**Edinburgh** Paid**FieldAssistant** Blue**Tits**

We are looking to recruit field assistants for our blue tit project in Edinburgh. The positions run from mid April until the end of June 2020 and are paid (4547.50 GBP). Duties involve intensive nest box monitoring, catching and handling of adults and young birds. Any applicants should be physically fit, have good spatial memory, and be happy to work both in a team and independently. Bird handling experience would be useful (but is not essential). The work is physically demanding, and involves working long hours, often in poor weather conditions, with irregular days off. Applicants should have the right to work in the UK, and would have to live in Edinburgh during the field season and be responsible for finding their own accommodation. To apply, please email a CV (with details of references) and short cover letter to joel.pick@ed.ac.uk. Applications will be accepted until 24th Feb, but available positions may be given away before that date.

Dr. Joel Pick Post-doctoral Research Associate Hadfield Group Institute of Evolutionary Biology School of Biological Sciences University of Edinburgh Edinburgh, UK

<http://joelpick.wixsite.com/research> The University of Edinburgh is a charitable body, registered in Scotland, with registration number SC005336.

PICK Joel <joel.pick@ed.ac.uk>

U**Georgia** Pathogen**Evolution**

The Department of Infectious Diseases in the College of Veterinary Medicine, and the Odum School of Ecology at the University of Georgia invite applications for a joint appointment, tenure-track Assistant Professor in the area of vector ecology and global change. This faculty position is intended to strengthen ties between units that offer much support for collaboration in areas of undergraduate education, graduate training and research.

The successful candidate will be expected to maintain a rigorous, externally funded research program, and will contribute to undergraduate and graduate teaching and mentoring.

Areas of research might include, but are not limited to: pathogen and vector responses to climate change or land use, emerging vector-borne diseases, evolutionary strategies for limiting the spread of insecticide and drug resistance in pathogens and vectors, determinants of host shifts within and between ecosystems, behavioral influences of infectious disease dynamics, terrestrial-aquatic linkages, and modeling infectious disease dynamics across scales of organization.

Link to job ad:<https://www.uga.jobsearch.com/-postings/140882> Assistant Professor–Vector Ecology and Global Change

www.uga.jobsearch.com Questions may be directed to Andrew Park (awpark@uga.edu)

DrAndrewPark, BS, MS, PhD AssociateProfessor Odum School of Ecology & Dept. Infectious Diseases UniversityofGeorgia

Office: Room 34, Ecology, 140 E. Green St, Athens GA 30602 Tel: +1(706)-542-5373 Web:<http://parklab.ecology.uga.edu/> Andrew W Park <awpark@uga.edu>

UMaryland LabTech PlantDiseasesEvolution

The Bruns lab at the University of Maryland, College Park is seeking a full-time lab and field technician to assist with ongoing research into the evolutionary-ecology of infectious disease in wild plant populations. The main duties of the technician would be to assist with lab work, greenhouse inoculation experiments and summer field-work at the nearby Beltsville Agricultural station. Additional duties include assistance ordering reagents for the lab, supervising hourly undergraduate workers, and participation in weekly lab meetings.

Duties and Responsibilities:

- Setup and maintain greenhouse experiments (planting, transplanting, labeling, inoculation, data collection).
- Assist with setup and day-to-day management of summer field experiments at local Beltsville station.
- Assist with ordering and setting up lab equipment and supplies.
- Assist with lab work including propagation of haploid fungal cultures, spore quantification, DNA extraction and PCR.
- Organization and management of datasets.
- Supervision of undergraduate researchers.

Minimum Qualifications:

- Bachelor's degree in a relevant field of study
- Research experience in a biology lab or lab of similar field
- Field or greenhouse experience
- Strong interpersonal skills and organizational skills

Preferences:

- Bachelor's degree in Ecology, Evolutionary Biology, Biology, Plant Sciences, Environmental Sciences
- Skill in basic molecular techniques
- Ability to coordinate with and communicate with lab personnel
- Strong experience with data management
- Solid understanding of various biological systems
- Strong troubleshooting/problem solving and analytical

skills

- Strong project management skills
- Ability to manage multiple projects amid shifting priorities
- Ability to work independently and in group settings

Duration: 1 year with possibility of extension

The position will remain open until filled, but for best consideration, please apply by 02/28/2020

The University of Maryland, College Park, an equal opportunity/affirmative action employer, complies with all applicable federal and state laws and regulations regarding nondiscrimination and affirmative action; all qualified applicants will receive consideration for employment. The University is committed to a policy of equal opportunity for all persons and does not discriminate on the basis of race, color, religion, sex, national origin, physical or mental disability, protected veteran status, age, gender identity or expression, sexual orientation, creed, marital status, political affiliation, personal appearance, or on the basis of rights secured by the First Amendment, in all aspects of employment, educational programs and activities, and admissions.

To apply:

Please provide a cover letter, CV, and arrange to have two letters of reference emailed directly to ebruns@umd.edu

The job posting can be found at: <https://ejobs.umd.edu/postings/76924> Emily (Emme) Bruns Assistant Professor of Biology University of Maryland College Park, MD 20741 (301) 405-7684 ebruns@umd.edu <http://biology.umd.edu/emily-bruns.html> ebruns@umd.edu

UMichigan LabTech ExperimentalMicrobialAndComputationalEvolution

Full Time Research Lab Tech - Experimental Microbial Evolution University of Michigan (Ann Arbor)

The Zaman Lab (<http://zeelab.com/>) at the University of Michigan is housed in the Ecology and Evolutionary Biology Department and is part of the Center for the Study of Complex Systems. We do a mix of computational and microbial experiments to understand how host-parasite interactions shape the biological world. To

test and develop coevolutionary theories in the lab, we use model communities of *E. coli* and bacteriophage, viruses that specifically infect bacteria.

We are looking to hire a full-time research technician to support our work primarily in the wet lab, but computational skills/interests are a definite plus.

Note: This is a one (1) year term limited appointment with a start date of approximately April 1, 2020.

Responsibilities 50% - Daily transfers of microbial cultures, developing assays for measuring evolved microbial traits (e.g., growth curves, competition assays, flow cytometry, sequencing), daily maintenance of ongoing experiments. 20% - Analysis of results, preparation of figures for publication and presentation, aid in writing for papers and grants. 20% - Training of temporary, hourly, and undergraduate students, maintaining lab safety training records, Overseeing undergraduates in basic lab maintenance tasks. 10% - General lab maintenance, ordering and inventory of laboratory supplies, managing shared equipment sign up, etc.,

Required Qualifications - Associate's degree in biology, genetics, or microbiology with 1-2 years of previous experience performing independent research in a microbiology lab. - Expertise with aseptic technique and microbial culturing. - The ability to work well in a collaborative environment, and the willingness to mentor undergraduates.

Desired Qualifications Experience with basic molecular techniques (e.g., primer design, PCR, cloning), and programming (e.g., python, R) are desirable.

****TO APPLY**** Search for keyword 183987 on <https://careers.umich.edu/search> to ensure you find the most up to date application.

“zamanlh@umich.edu” <zamanlh@umich.edu>

UppsalaU ResAssist EvolutionaryGenetics

Research assistant in Evolutionary Genetics at Uppsala University

A position as a Research assistant in Evolutionary Genetics is available at the Department of Ecology and Genetics, Evolutionary Biology Program, Uppsala University.

Uppsala University is a comprehensive research-intensive

university with a strong international standing. Our mission is to pursue top-quality research and education and to interact constructively with society. Our most important assets are all the individuals whose curiosity and dedication make Uppsala University one of Sweden's most exciting workplaces. Uppsala University has 44.000 students, 7.100 employees and a turnover of SEK 7 billion. The Department of Ecology and Genetics is an international environment with staff and students from all over the world. Our research spans from evolutionary ecology and genetics to studies of ecosystems. For more information, see www.ieg.uu.se. The Evolutionary Biology Program excels in many aspects of genetics and evolution and offers an inspiring international atmosphere. There are ample opportunities for interaction with researchers working on related topics. We are tightly linked to the Science for Life Laboratory (<https://www.scilifelab.se/>) and have access to advanced laboratory infrastructure, high performance computing resources and bioinformatics support.

Project description: The research at the program of Evolutionary Biology revolves around core questions in the fields of evolutionary genetics, including genomics, molecular ecology, molecular evolution and population genetics. The position will be focused on development and preparation of cells for ATACseq from frozen and fresh tissues of birds, insects and fungi. Our final aim is to identify transcriptionally active regions of the genome in these organisms and several downstream analyses will be done to investigate the molecular mechanisms and evolutionary processes associated with transcription activity. Depending on the progress of the method development, other techniques in molecular biology and genetics might be included in the work description. For any further questions, please visit the program website (<http://www.ieg.uu.se/evolutionary-biology>) or contact Niclas Backström (contact information below).

Application: The application should include 1) a letter of intent describing yourself, your research interests, potential previous experience with relevant methods and why you want this position, 2) a short description of your education, 3) a CV and 4) the names and contact information to at least two reference persons (e-mail address and phone no.). The application should be written in English.

For further information about the position please contact: Niclas Backström, niclas.backstrom@ebc.uu.se, +46-18-471 6415.

You are welcome to submit your application no later than March 23, 2020, UFV-PA 2020/299. Formal applications should be made using our online application form available via link here: <https://www.uu.se/en/>

[about-uu/join-us/details/?positionId=316567](http://www.uu.se/om-uu/dataskydd-personuppgifter/?positionId=316567) Niclas Backström Evolutionary Biology Program Department of Ecology and Genetics Uppsala University, Sweden Email: niclas.backstrom[at]ebc.uu.se

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> niclas.backstrom[at]ebc.uu.se

URhodeIsland LabManager ConservationGenetics

University_of_Rhode_Island.Lab_Manager.Conservation_Genetics

Perform independent research work at the Wildlife Genetics & Ecology Laboratory at the University of Rhode Island. Organize, coordinate, and supervise support staff, including volunteers and students, engaged on the projects. This position is limited to 09/26/2020 with extension contingent on funding. Visit the URI jobs website at: <https://jobs.uri.edu/postings/7055> to apply and view complete details for jobposting# (SF00918). Please attach two documents (PDF) to the online Employment Application: (1) A cover letter, and (2) Resume, which includes the names and contact information of three references. Applications will close February 28, 2020. Only online applications will be accepted. The University of Rhode Island is an AA/EEOD employer and values diversity.

Office of Human Resources University of Rhode Island
80 Lower College Road Kingston, RI 02881 USA Phone:
401-874-2416 Fax: 401-874-5741 Humanres@etal.uri.edu

Thomas McGreevy Jr <tjmcg@uri.edu>

USorbonne Paris ComparativeEthology

The Laboratory of Experimental and Comparative Ethology (LEEC) - UR 4443, Université Sorbonne Paris Nord (previously named Université Paris 13), is inviting applications for the position of an Associate Professor in Ethology, with tenure status and salary commensurate with qualifications and experience. Applicants should have a strong track record of international excellence in behavioural sciences or related topics. The successful candidate will be expected to develop an innovative research program in ethology corresponding to the lines of research of the LEEC on aspects of social behaviour, communication and cognition, individual differences in behaviour, or on reproductive strategies. The position includes teaching in ethology and in neuroscience in different modules of Bachelor in Psychology and of Master in Ethology. The candidate must be able to teach in French. Application is electronic via the national portal Galaxie (https://www.galaxie.enseignementsup-recherche.gouv.fr/ensup/cand_postes_GALAXIE.htm) - deadline for application 26 March 2020, 16:00 h. The position is advertised as a position at UNIVERSITE PARIS 13, ref. 4345. Interested candidates can contact us for further information on the position and on the electronic application procedure.

Contact:

Prof. Heiko G. Rödel; Director of the Laboratory of Experimental and Comparative Ethology Dr. Christophe Féron, Vice-director of the LEEC christophe.feron@univ-paris13.fr

Dr. David Sillam-Dussès; Director of the Teaching Department of Psychophysiology sillamdusses@univ-paris13.fr

Address:

Laboratoire d'Ethologie Expérimentale et Comparée (LEEC) UR 4443, Université Sorbonne Paris Nord, 99 avenue J.B. Clément, F-93430 Villetaneuse, France. <http://leec.univ-paris13.fr/> The University of Paris 13 is an Equal Opportunity Employer. <http://www.univ-paris13.fr/> Prof. Heiko G. Rödel Directeur Laboratoire d'Ethologie Expérimentale et Comparée-EA 4443 (LEEC) Université Sorbonne Paris Nord 99 av. J.-B. Clément, F-93430 Villetaneuse, France Phone +33(0)14940 3218 Website LEEC < <http://leec.univ-paris13.fr> > — | Publication list < https://scholar.google.de/citations?hl=en&user=-CYj8VnoAAAAJ&view_op=list_works&sortby=-pubdate > — | Twitter < https://twitter.com/-LEEC_USPN >

“Heiko G. Rödel” <rodel@univ-paris13.fr>

UUtah LabTech EvolutionaryGenetics

Lab Technician in Evolutionary Genetics/Genomics

The Nathan Clark lab (<http://nclarklab.org/>) at the University of Utah is seeking a Lab Technician or Lab Specialist, depending on experience. The Technician will advance projects in the evolutionary genomics of adaptation to extreme environments, embryonic development, and gene expression. Expertise in molecular cloning, nucleic acid manipulation and analysis are required, as is a willingness to work with zebrafish. Experience with zebrafish is a bonus but not required. The Technician will also be responsible for keeping the wet lab functioning and organized. The position will begin with responsibilities in genetic construct creation, preparation of libraries for genomics, data analysis, and lab oversight.

As part of our dynamic lab, the Technician will have the opportunity to develop skills in genomics, bioinformatics, embryology, CRISPR mutagenesis, microscopy and live imaging, and evolutionary and comparative genomics. Applicants should submit their CV along with references.

The Clark lab is part of a recent expansion of 5 new labs in the area of Evolutionary Genetics and Genomics at the University of Utah. The Cluster builds from existing strength in this area at Utah to form a highly interactive group of researchers with great colleagues in EvoDevo, population genetics, phylogenetics, speciation, adaptive evolution, and host-pathogen co-evolution. Some labs in the Cluster include those of Mike Shapiro, Nels Elde, Ellen Leffler, Nitin Phadnis, Kristen Kwan, Dean Castillo, Gab Kardon, Talia Karasov, Richard Clark and Michael Werner. Come join us!

Posting on University of Utah website: <https://utah.peopleadmin.com/postings/103222> Nathan Clark <nclark@utah.edu>

UWinnipeg EvoDevo

Tenure-track Assistant Professor - Developmental or Cell Biology Department of Biology

University of Winnipeg, Canada

URL for job ad: <https://www.northstarats.com/-University-of-Winnipeg/Tenure-track-Assistant-Professor-Department-of-Biology/53840> The Department of Biology at The University of Winnipeg invites outstanding candidates to apply for a tenure-track appointment at the rank of Assistant Professor. The candidate will possess a Ph.D. in Biology or a closely related discipline in the areas of Developmental or Cell Biology. Postdoctoral experience is preferred.

We seek an outstanding colleague with a demonstrated commitment to excellence in research, with the ability to engage with industry, government and/or community partners. Candidates with a strong publication record and a high potential to attract funding from a Canadian Tri-Council agency are encouraged to apply for this position. The successful candidate will teach at the undergraduate level in the area of cell or developmental biology, and will supervise undergraduate and graduate research students. Demonstrated teaching ability is considered a strong asset. The successful candidate will also be expected to meaningfully contribute to departmental and university service.

The selection committee will begin reviewing applications on March 2, 2020 and will continue until the position is filled; full consideration is assured for applications received by February 28, 2020. Subject to budgetary approval, this position will be effective from July 1, 2020. Salary levels will be commensurate with qualifications and experience.

Applicants are requested to submit a complete application that will include (all documents in PDF):

- a cover letter
- a current curriculum vitae
- a research statement describing past achievements and future plans
- a teaching statement and evidence of teaching effectiveness, including teaching evaluations, if available
- three representative peer-reviewed publications

Applicants must submit all of the above materials

through The University of Winnipeg's online recruitment system.

Candidates should also arrange to have three letters of reference e-mailed directly to:

Ian Burley, Acting Chair Department of Biology e-mail: biology@uwinnipeg.ca

The University of Winnipeg is located on the original lands of the Anishinaabeg, Cree, Oji-Cree, Dakota, and Dené Peoples, and on the traditional homeland of the Métis Nation. Applicants can learn more about the Department of Biology and current faculty research interests at <https://www.uwinnipeg.ca/biology/>. The successful applicant will have opportunities to collaborate with researchers in the Department of Biology, and a cluster of associated academic and research agencies in the region.

The University of Winnipeg is committed to equity, diversity and inclusion and recognizes that a diverse staff/faculty benefits and enriches the work, learning and research environments, and is essential to academic and institutional excellence. We welcome applications from all qualified individuals and encourage women, members of racialized communities, Indigenous persons, persons with disabilities, and persons of any sexual orientation or gender identity to confidentially self-identify at time of application. All qualified candidates are encouraged to apply; however, Canadian citizens and permanent residents will be given priority.

Additional information on The University of Winnipeg is available at <http://www.uwinnipeg.ca> Susan Lingle <lingle.uw@gmail.com>

UWisconsin StevensPoint GeneticsLabManager

The USGS Wisconsin Cooperative Fishery Research Unit at UW-Stevens Point is hiring a lab manager. The lab uses genomic tools (e.g. RAD, GTseq, eDNA metabarcoding, whole genome resequencing) to address questions related to fisheries management, ecology, and evolution in the Great Lakes region (see <https://larsonlab.wordpress.com/> for description of research). Preferred applicants will have a Master's degree and experience with population genomics. No prior experience working on fish is necessary. Please see job posting here: <https://www.uwsp.edu/hr/jobs/Pages/-AcademicJobView.aspx?UWSPJobsCode=16302> "Wes-

ley A. Larson" <wl Larson1988@gmail.com>

Vienna ComputationalMedicine

The Department of Biomedical Sciences of the University of Veterinary Medicine Vienna, is inviting applications for the *Professor for Computational Medicine* in accordance with § 99 (1) of the 2002 Universities Act. *The role:*

The successful applicant will provide significant expertise in the discipline of Computational Medicine. He or she will contribute to the University's teaching, research, programme development and service at a national and international level and will promote the university within the academic and professional communities. The Vetmeduni Vienna provides a modern research and teaching infrastructure with state-of-the-art equipment and facilities. The successful candidate will collaborate with scientists across disciplines both intra- and extramurally, mentor junior scientists and attract third-party funding. He or she will be expected to manage the development and implementation of statistical methods and mathematical models for integration of genotypes and phenotypes across species. High-throughput data in the context of translational medicine will be the basis of this active and competitive research profile.

*Job profile: *

- Initiating an innovative research profile and supporting existing areas of research in the field of Computational Medicine - Development and implementation of statistical methods and mathematical models for integration of genotypes and phenotypes across species - Teaching and supervising students within the Curricula of the Vetmeduni Vienna and postgraduate training at the Vetmeduni Vienna - Development of interdisciplinary cooperation networks on the University campus and with external partners - Leadership of the respective area of research

Required training, qualifications and skills:

- Degree in natural sciences/mathematics/informatics - Habilitation (venia docendi) or equivalent international qualification (PhD) in a relevant discipline - Outstanding contributions to scholarship and research in a relevant discipline as evidenced by high-quality peer-reviewed publications in leading journals and/or acquisition of third-party funding - Experience in the field of network science and data science - A proven record of

achievement in teaching and supervision at undergraduate and postgraduate levels - Record of successful conception, fund-raising and conductance of third-party funded projects in the area - social, communicative, strategic and leadership skills - Very good command of English (C1)

*Further desired qualifications and skills: *

- Interest and experience in interdisciplinary research - Enthusiasm for the diversity of the research facilities of Vetmeduni Vienna

Salary scheme:

Salary scheme of the Collective Bargain Agreement for University Staff, job group A1

*Minimum salary: *

The minimum salary according to the Collective Bargain Agreement for University Staff is euro 73.438,40 gross/year (14 monthly salaries). A higher salary may be agreed during the appointment negotiations. The position will be associated with a temporary (5 years) contract of employment.

*Application deadline: 15.03.2020 *

*Reference no.: CM_2019 *

To apply for this position, please send your documents in English to the Office of the Senate at the University of Veterinary Medicine by e-mail to: senat@vetmeduni.ac.at

The *application documents *should comprise:

- Application letter including a brief description of:
- Current research interests and research plans for the immediate future - Previous and planned focuses in academic teaching and supervision of young researchers
- Curriculum vitae including:
- Information about esteem factors (e.g. experience as a publisher, functions in research societies or programme committees) - List of talks given including information about invited keynote lectures at international conferences - List of acquired third-party funds (subject, duration, origin, volume) as well as, if applicable, inventions/patents - Overview of academic teaching and supervised theses, especially doctoral theses - Information about experience in organization, management and leadership
- List of publications including specification of five key publications which the applicant considers particularly relevant to the advertised professorship - Further documents to prove the required training, qualifications and skills

Applications are free of charge.

The Vetmeduni Vienna is keen on increase the proportion of female staff, particularly in senior positions, it is striving to attain a balanced representation of men and women, especially on its scientific staff. Applications from qualified women are thus particularly welcomed. If women are underrepresented (below 50%), female applicants who are as well qualified as the best qualified male applicants will be given preference,

— / —

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>

Villefranche-sur-mer Bioinformatics

Position in bioinformatics and genome analysis, funded by the HFSP grant “The architecture of the post-synaptic density scaffold”

Location: Villefranche-sur-mer, France

Availability: The position is available immediately, for 1 year with the possibility of extension.

Deadline: Please apply before 21st February 2020 to ensure full consideration.

Context:

The genome and protein evolution group (Copley) at the Laboratoire de Biologie du Développement de Villefranche-sur-mer seeks a talented bioinformatician with an interest in comparative genomics and structural biology. We are participating in an HFSP project grant, together with Andre Hoelz (Caltech), Adam Claridge-Chang (Duke-NUS, Singapore) and Bob Robinson (Okayama, Japan), aiming to perform structural studies on the proteins of the metazoan Post-Synaptic Density (PSD) scaffold. The role of the lab in the project involves development of sequence resources, including a genome sequence and transcript libraries, from a thermal vent annelid worm. We will identify key components of post-synaptic density within these resources, and study their evolution, and likely protein-protein interactions using bioinformatics tools. The work will be tightly integrated with the other groups involved, who will be performing experimental assays to determine likely interactions and structural studies using a variety of approaches including Cryo-EM.

Role:

The appointed person will be responsible for the analysis of genome and transcriptome sequence datasets, and the analysis of those data for PSD components. More broadly, they will explore the utility of different species for metazoan protein complexes of interest to structural biology. They will liaise with other project partners to integrate additional experimental information and provide data and advice on target selection and other relevant information.

Requirements:

Experience with analysing large-scale sequence datasets
Experience with phylogenetic analysis of proteins
Good written and spoken English

Desirable:

PhD in a relevant discipline
Scripting ability in a language such as Python, Perl or R
Experience in structural bioinformatics

To apply:

Please contact Richard Copley (copley@obs-vlfr.fr) for further details, or apply directly through the CNRS portal: <https://emploi.cnrs.fr/Offres/CDD/-UMR7009-FREBON-018/Default.aspx> Richard Copley <copley@obs-vlfr.fr>

WageningenU ResTech Genetics

Research technicians in the Laboratory of genetics (<https://www.wur.nl/en/vacancy/Research-technicians.htm>)

WE ARE: The mission of Wageningen University & Research is “To explore the potential of nature to improve the quality of life”. Within Wageningen University & Research, nine specialised research institutes from the Wageningen Research Foundation and Wageningen University have joined forces to help answer the most important questions in the domain of healthy food and living environment.

With approximately 30 locations, 5,000 employees, and 10,000 students, Wageningen University & Research is one of the leading organisations in its domain worldwide. An integrated approach to problems and the cooperation between various disciplines are at the heart of the unique approach of Wageningen.

For further information about working at Wageningen

University & Research, take a look at the special career site.

Wageningen Plant Sciences Group, Laboratory of Genetics: The Laboratory of Genetics investigates causes and consequences of natural genetic variation within species. Because genetic variation plays an essential role in ecological and evolutionary processes, we ask ecologically and evolutionary motivated research questions. We use a wide array of model organisms, ranging from bacteria, fungi, plants and insects (<https://www.wur.nl/en/Research-Results/Chair-groups/Plant-Sciences/Laboratory-of-Genetics.htm>).

WE LOOK FOR: We are looking for two enthusiastic, motivated and broadly-skilled research technicians to join our team at the Laboratory of Genetics. You will work in the current team of six research technicians that supports our ongoing research in evolutionary biology and genetics. As such, you will work on different systems, including insects, plants, fungi, and bacteria. You may be asked to support our teaching activities in various BSc and MSc courses.

WE ASK: You have an University of Applied Sciences (HBO) BSc degree in Biology or Medical Laboratory Research (HLO) and preferably some years of work experience.

You have experience and interest in the following research fields and activities:

- Evolutionary biology and genetics;
- Molecular genetics/biology (DNA extraction, PCR, DNA/RNA sequencing, transformation, DNA-cloning, et cetera);
- (Environmental) sampling, culturing, and rearing of among others, bacteria, fungi, insects, and plants.

You feel comfortable in an international team consisting of research staff, PhD students, technicians, and BSc and MSc students. You take responsibility for your tasks and help out others when needed. You have good organizational skills and are able to oversee multiple research projects. You can communicate well with researchers and project staff in English.

Important competencies for this position are: - Competent learner; - Team player; - Accurate with a good eye for detail; - Planner and organiser.

WE OFFER: Two positions, each comprising a challenging and exciting job for about 32 hours per week (0.8 fte) in an (inter) national leading organization in the field of research and education. Each position is initially for a period of one year, with prospects of extension to four years. Moreover, pending good evaluations, one or both positions have the potential to result in a permanent contract.

The organization has good and flexible employment conditions, including good education and training facilities, good work/life balance, development opportunities, and flexible working hours. The salary is derived from scale 7 or 8, (min. 2261 max. 3445,= gross) in accordance with CAO NU. The ultimate starting salary scale will depend on knowledge, education, competences, and experience.

MORE INFORMATION: Enthusiastic and curious? For more information about the jobs, please contact:

Prof. Bas Zwaan, Head of the Laboratory of Genetics, telephone: +31 317 484619, email: bas.zwaan@wur.nl.

We would like to receive your letter of application and motivation, with CV before the 28th of February 2020.

Please note that you can only apply via the website of Wageningen University & Research; www.werkenbij.wur.nl "Zwaan, Bas" <bas.zwaan@wur.nl>

WesternConnecticutStateU PopGenetics

Western Connecticut State University's Macricostas School of Arts & Sciences is pleased to announce that applications are being accepted for a tenure track Assistant Professor position, in the field of population genetics, in the Department of Biological & Environmental Sciences. WCSU is a public university serving approximately 6,000 students that offers a wide range of undergraduate majors in the arts and sciences, professional studies, visual and performing arts, business, as well as selected graduate programs. It is located in Danbury, CT, just 60 miles from New York City and less than three hours from Philadelphia and Boston. The region offers an excellent quality of life and Danbury is often cited as one of America's best small cities.

The Macricostas School of Arts and Sciences is home to 13 departments, 21 undergraduate majors and five (5) graduate majors. The Department of Biological and Environmental Sciences offers a Bachelors of Arts in Biology and a new Master of Science in Integrative Biological Diversity. Additional information may be found at <https://www.wcsu.edu/biology/> WCSU has available resources for teaching and research, and the department is housed in a modern building with access to state-of-the-art equipment and technology. Resources available to faculty include dedicated research space,

tissue culture equipment, animal facility, fluorescent microscopes, molecular equipment, environmental chambers, greenhouse, laundry facility, canoes, and nature preserve. WCSU offers opportunities to support student and faculty research, conference attendance, and professional development.

Position Summary: The successful candidate will teach courses in genetics and evolution to undergraduate biology majors. Our ideal candidate would also contribute to teaching courses in scientific writing, in capstone/senior research, for students interested in health-related professions, and would contribute to the department's new Master of Science in Integrative Biological Diversity. The candidate should have an existing research program that can successfully integrate students. While the specific research area is open, possible areas of expertise may include (but are not limited to): ecological genetics, conservation genetics, evolutionary genetics, or human disease systems.

Qualifications: The successful candidate will have a Ph.D. or equivalent terminal degree as well as post-doctoral and research experience. Candidates must be qualified to teach undergraduate courses in genetics and evolution designed for biology majors. Preference will be given to candidates who have teaching experience and are familiar with science teaching pedagogy that encourages active learning and critical thinking. WCSU is committed to enhancing our diverse university community by actively encouraging people with disabilities, minorities, veterans, and women to apply. We take pride in our pluralistic community and continue to seek excellence through diversity and inclusion.

Salary & Benefits: The salary range is \$64,422 - \$85,896 and is commensurate upon candidates' experience. WCSU offers a comprehensive benefits package. Additional information on benefits can be found at www.wcsu.edu/hr/benefits/. **Application Process:** Interested applicants must submit: curriculum vitae; cover letter; statement of teaching interests, experience and qualifications; research statement; and the names and contact information for three (3) professional references who can comment on the applicant's teaching, scholarship, and/or service/leadership. All materials should be submitted as PDF files and emailed to facultyvitae@wcsu.edu. In the Email Subject Line Reference Search #900-009.

Applications must be received by Friday, March 20, 2020. Late applications will not be accepted.

State and Federal requirements expect that organizations with 100 or more employees invite applicants to self-identify gender and race. We kindly request all applicants to complete the Affirmative Action Data Question-

naire via the following link. <http://wcsu.edu/diversity/-affirmative-action-data-questionnaire/>. Any questions may be directed to Ms. Keisha Stokes in the WCSU Office of Diversity and Equity at stokesk@wcsu.edu. Completion of this data will not affect your opportunity for employment, or terms or conditions of employment. This form will be used for reporting purposes only and will be kept separate from all search records and only accessed by the Office of Diversity and Equity. WCSU is an Affirmative Action Equal Opportunity Educator/Employer

Hannah Reynolds <reynoldsh@wcsu.edu>

WilliamMaryU 1yr TeachingBioStatsEvolution

Visiting Assistant Professor, Department of Biology

The Department of Biology at William & Mary invites applications for a 1-year non-tenure-track visiting faculty position that will begin August 10, 2020. We seek an individual with expertise in biostatistics and evolution who will teach core undergraduate courses in biostatistics, behavior, and evolution. The successful candidate will be expected to be an effective teacher and will teach a 3:3 load, with small upper-level undergraduate seminars and lab/discussion sections counted toward the load.

Required: a PhD in biology, evolution, behavior, or a related field is required at the time appointment begins (August 10, 2020).

Preferred: Previous experience teaching undergraduate courses and postdoctoral research experience would be reviewed favorably.

Candidates must apply online at <https://jobs.wm.edu>. Submit a curriculum vitae, a cover letter, teaching statement, and diversity statement. You will be prompted to submit online the names and email addresses of three references who will be contacted by the system with instructions on how to submit a letter of reference.

For full consideration, submit application materials by the review date, March 6, 2020. Applications after the review date will be considered if needed.

Information on the degree programs in the Department of Biology may be found at: <http://www.wm.edu/-as/biology> William & Mary values diversity and invites applications from underrepresented groups who

will enrich the research, teaching, and service missions of the university. William & Mary is an Equal Opportunity/Affirmative Action employer and conducts background checks on applicants for employment.

“Murphy, Helen A” <hamurphy@wm.edu>

WSL Switzerland EctomycorrhizaGenomics

The research group Ecological Genetics of the Swiss Federal Institute for Forest, Snow and Landscape Research WSL is searching for a

Scientist in ecological genomics of ectomycorrhizal fungi (80?100%)

You study the adaptation of mycorrhizal fungi to a changing environment and their role in the resistance resilience, and sustainability of forest ecosystems. You apply various methods of molecular biology, genomics, and transcriptomics, and keep track with the latest methodological and technical developments in these fields. You develop innovative research projects, seek third-party funding and cooperate in international networks. You carry out the research projects in collaboration with technical staff, supervise students, publish the results in international scientific journals and present them at international conferences. Contributions to outreach activities and teaching are welcome. For this Tenure-track position we are looking for a long-term scientific employee.

You have a PhD in biology or environmental, natural or forest sciences and are competent in the analysis of next-generation sequencing data. You possess a solid background in molecular ecology and biology of ectomycorrhizal fungi and/or fungal-plant interactions and are experienced in designing field and laboratory experiments, as well as in statistical analysis of data. As a highly motivated and creative team player you have an independent scientific working style. You are experienced in writing scientific articles, speak and write fluent English and enjoy communicating your results to the scientific community and the broader public.

Please send your complete application to Michèle Bucher, Human Resources WSL, by uploading the requested documents through our webpage (<https://-apply.refline.ch/273855/1020/pub/2/index.html>). Applications via email will not be considered. Martina Peter, group leader Ecological Genetics, phone +41 (0)44

739 22 88 or martina.peter@wsl.ch, will be happy to answer any questions or offer further information. WSL strives to increase the proportion of women in its em-

ployment, which is why qualified women are particularly called upon to apply for this position.

christian.rellstab@wsl.ch

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AmphibianFoundation ConservationProgram

Hello Evoldir,

The Amphibian Foundation (AF) has exciting news! We're pleased to announce our new Bridge Program

for Conservation Research, an academic experience for adults focused on the conservation of imperiled amphibians in the southeast United States. Interested adults can apply today!

Please read and share the below information with your students, colleagues, and others who might be interested in applying to our new program. For more information, visit our website at <http://-bridge.amphibianfoundation.org/> . Thank you for help-

ing us spread the word about this unique opportunity for conservationists.

Sincerely,

Tobias Landberg

—
Call for Applicants! Apply to the Amphibian Foundation's Bridge Program for Conservation Research

What is the Bridge Program?

AF's Bridge Program offers the opportunity for adult students to explore and conduct research focused on the conservation of imperiled amphibians in the south-east United States. This academic program is designed to help students gain career experience and scientific skills. Students are mentored by globally-recognized scientists and directly contribute to the conservation of amphibians.

*Who can apply? *

All interested adults (age 18+) can apply to AF's Bridge Program. The program is intended for

- high school graduates who want to explore conservation and gain skills before attending college
- college students who want research experience during their studies
- college graduates seeking opportunities to develop their biology and conservation training

Where is the program located? When does it start?

The Amphibian Foundation is headquartered in Atlanta, Georgia, US. Students are required to be on site during the session. The summer session runs May 11 to August 21, 2020 (deadline for deposit is Saturday, April 11, 2020). The fall session starts September 8, 2020 (deadline for deposit is Saturday, August 8, 2020).

What is the curriculum?

Unique to the Bridge Program, curriculum is specifically tailored for each student based on conservation interests and career goals. All curriculum includes contextualized instruction, opportunities to explore areas of specialization, and career development and transition into conservation research. Students rotate working in the captive propagation (breeding) and husbandry labs of diverse reptiles and amphibians, including threatened and endangered amphibians, and may participate in

- field work (e.g., contributing to research projects monitoring flatwoods salamanders and gopher frogs)
- guided research (e.g., designing a project, drafting manuscripts)
- creative expression (e.g., illustration, photography, writing)
- education and outreach

Our program also includes certificate courses in Master Herpetologist and Venomous Reptile Handling.

*For more information, visit: <http://-bridge.amphibianfoundation.org/> Tobias Landberg, Ph.D *Director of Research* The Amphibian Foundation 4055 Roswell Rd NE. Atlanta, GA 30342 USA p. 562 7 RIBBIT (742248) | about.me/tobias < <https://www.amphibianfoundation.org/index.php/tobias> >

tobias.landberg@gmail.com

ASSAB StudentResearchGrants

Applications for the Australasian Society for the Study of Animal Behaviour's 2020 student research grants are now open. ASSAB is committed to supporting behavioural research within the Australasian region, with an emphasis on providing opportunities for earlier-career scientists. As such, in 2020 ASSAB will support innovative research by providing \$2500 towards research expenses for particularly promising projects and students undertaking research in the Australasian region.

About the awards: - Up to 2 Grant Awardees, each receiving \$2500 (AUD) - Up to 2 Highly Commended applications - Both successful and highly commended applicants will receive \$200 towards registration for the annual ASSAB Conference in the year following their award, at which grant winners will be asked to report on their project via spoken presentation.

How to apply: Applicants are required complete a very brief form detailing the significance, structure, and timeline of the proposed research, which is available to download via the society's website at www.assab.org/student-grants. Once completed, applications should be emailed in PDF format to grants@assab.org. The closing date for applications in 2020 is May 1st. Full details are available at the society's website (www.assab.org/student-grants).

Dr. Thomas E. White Grants Officer Australasian Society for the Study of Animal Behaviour www.assab.org
ASSAB Grants Officer <assabgrants@gmail.com>

Hee-Jin Noh hjnoh891@gmail.com

AustralianNatIU VoluntaryAvianFieldAssist

We are looking for one field assistant to help search nests of a small bird, mangrove gerygone and large-billed gerygone in Darwin. The main objective of this research is to gain a better understanding of the breeding ecology of gerygone species, and the coevolution between gerygone species and little bronze-cuckoo. Research will be conducted in Darwin, Australia. We will be based in Darwin city, and travel to several sites. A volunteer field assistant is needed from the beginning/mid of March to April/May 2020 for two months. The exact dates are flexible but need to be around this time.

Overall duties will include nest searching and monitoring, recording begging calls and adult calls for cuckoos, and data entry. Previous experience with fieldwork is highly desired, and nest searching experience is also preferred, but not required. The large-bill gerygone build nests over the water, and the height of nests varies from 1m to 5m. The mangrove gerygone's habitat is open salt flats. The study site is rugged, hot, and venomous snakes and ticks are quite common. Working days are long, with early starts, six days a week. Therefore, applicants must have good physical fitness to walk along the creek with a heavy ladder, withstand harsh conditions at the site, and maintain an energetic attitude despite long hours in hot and humid conditions. Work schedules and duties will vary, so flexibility is a must. Applicants should work well alone and in a small group and have a sense of direction to work in remote areas. Previous experience with fieldwork is highly desired, and nest searching experience is also preferred, but a positive attitude is much more important than tons of field experience.

Housing will be provided, and you can get reimbursed for food and flights up to \$750 AUD per month and you will enjoy fantastic wildlife viewing opportunities in Darwin.

To apply, send a cover letter detailing interests, previous relevant field research experience, dates of availability and a CV as well as a list of names and contact information for 2 referees to Hee-Jin Noh (hjnoh891@gmail.com).

Please feel free to enquire with any questions related to the application process or on the project in general.

ChicagoBotanicGarden SUMMER REU

Hey all

Can you pass onto potentially interested undergraduate students...

Applications for the Undergraduate Internships in Plant Biology and Conservation at The Chicago Botanic Garden are still open. The deadline has been extended to Friday 14th February 2020. (<https://pbcinternships.org/-summer-reu-genes-ecosystems>). The program runs from June 15th-Aug 21st 2020.

Jeremie Fant

Associate Conservation Scientist, Molecular Ecologist
Chicago Botanic Garden 1000 Lake Cook Rd | Glencoe, IL 60022 Ph 847-835-6959 | Lab 847-835-8346

Pronouns: he/him/his

<http://www.chicagobotanic.org/research>
<http://sites.northwestern.edu/fant-lab/>-
| <http://pbcinternships.org/> | <https://www.plantbiology.northwestern.edu/> We cultivate the power of plants to sustain and enrich life.

Genetics Lab <Lab@chicagobotanic.org>

CurrentZoology CallForPapers SexualSelection

Call for Abstract Submission: Current Zoology special issue on "Sexual Selection and Environmental Change"

We are looking for both theoretical and empirical studies that address (i) how environmental change affects sexual selection, (ii) how sexual selection might influence adaptation to changing environments, or (iii) feedback loops between these processes.

Abstract submission: *February 29, 2020* Manuscript submission: July 30, 2020

Articles will be published as they are accepted and the full issue will appear in February 2021.

Please see the manuscript call for more details: <https://academic.oup.com/CZ/pages/sexual-selection-and-environmental-change> . *Guest editors*:

Murielle Ålund, Department of Integrative Biology, Michigan State University, murielle.alund@gmail.com

Natalie Pilakouta, School of Biological Sciences, University of Aberdeen, n.pilakouta@gmail.com<mailto:n.pilakouta@gmail.com>

Issue information:

Human-induced environmental changes are the most significant threat to biodiversity in the 21st century. Rapid changes in environmental conditions impose novel selection pressures on organisms and increase the risk of population extinction. Understanding what affects the capacity of populations to adapt to environmental change is now one of the most important issues in ecology and evolutionary biology. The role of sexual selection in influencing a population's ability to cope with environmental change has been a topic of increasing interest in recent years. In addition, there is accumulating evidence that environmental change may influence the strength and/or direction of sexual selection in natural populations. The aim of this Special Column is to highlight new insights on these potential feedback loops and complex interactions between sexual selection and environmental change. We are thus interested in studies that investigate (i) how environmental change may influence sexual selection and/or (ii) how sexual selection may influence adaptation to environmental change. Empirical and theoretical studies are welcome.

Researchers interested in contributing to this special column should send a title and abstract to the guest editors. Manuscripts should be submitted before the deadline. Manuscripts received after the deadline will be considered as submissions for regular issues.

Submitted papers should not have been published previously, nor be under consideration for publication elsewhere. Submitted manuscripts are accepted with the understanding that they are subject to peer review and editorial revision. Publication is free of page charges. All articles are available for readers to find and read for free online complying with the Open Access policies of many research funding bodies.

EvolutionaryProc NSF ProgramDirector

NSF Permanent Program Director Positions

The Directorate for Biological Sciences, Division of Environmental Biology at the National Science Foundation has initiated searches for three permanent Program Directors, one each in Ecosystem Science, Evolutionary Processes, and Population and Community Ecology, all of which close on March 5, 2020.

These are full-time positions within the Federal Government. The responsibilities of Program Directors include program planning and management; representation of the program, Division, and the Foundation within the scientific community; communication within and outside of NSF; and scientific and programmatic leadership. Additionally, these positions involve professional development, including active participation in professional activities, as well as pursuing individual research, as workload and travel funds permit. The Division of Environmental Biology supports research and training on evolutionary and ecological processes acting at the level of populations, species, communities, and ecosystems. You can read more about DEB's structure and mission here:<https://www.nsf.gov/bio/deb/about.jsp> For more details and how to apply, please visit the job announcement: <https://www.usajobs.gov/GetJob/-ViewDetails/558925200> . Diana Pilson Program Officer, Population and Community Ecology Cluster Division of Environmental Biology National Science Foundation 2415 Eisenhower Avenue, Suite W12189 Alexandria, VA 22314 Phone: 703-292-2592 Fax: 703-292-9461 Email: dpilson@nsf.gov

Check out the DEB Blog at: <http://-nsfdeb.wordpress.com/> "Pilson, Diana" <dpilson@nsf.gov>

Jory Weintraub <jory@duke.edu>

Evolution Video Contest

Enter the 9th Annual Evolution Video Contest/Film Festival!

Do you have an interesting story about evolution that you'd like to share with the world? If so, start working on your entry for the 9th Annual Evolution Video Contest/Film Festival, which will occur at this year's Evolution Conference in Cleveland, OH. The deadline to submit is Monday, June 1st at midnight, EST.

The rules are simple: we invite scientists, science educators, science communicators, artists, musicians, students at any level and, really, anyone else to make and submit a 3-minute-or-less video telling an interesting evolution story in a creative way. Entries may be related or unrelated to your own research, and should be suitable for use in a classroom (K-12, undergraduate, graduate - your choice) or for viewing by a general public audience. Videos should be both informative and entertaining. (In other words, no taped lectures or narrated Powerpoint presentations!) Animations/claymations, music videos, NatGeo-style shorts and mini documentaries are all fair game.

You do not need to attend the conference in order to submit a video, and you do not need to be present to win.

The winner receives \$1,000 and "The Chucky" (the 1st-place trophy; see: evolutionfilmfestival.org/trophy). Runner-up receives \$500.

The Evolution Film Festival is always one of the highlights of the Evolution conference. We hope you will consider submitting your own video this year. Even if you don't, if you're going to be at the Evolution 2020 conference in Cleveland, please plan to attend the Film Festival on Saturday, June 20th from 8:00 - 9:30 PM, view all the terrific submissions and vote on your favorite!

The Evolution Film Festival/Video Contest is being sponsored by the Duke Initiative for Science & Society, the Society for the Study of Evolution and the BEACON Center for the Study of Evolution in Action.

For more information and to view previous years' submissions: evolutionfilmfestival.org For details on how to submit: evolutionfilmfestival.org/how-to-submit Questions? Contact Jory Weintraub (jory@duke.edu)

Finland Field Assist Avian Lekking

Field Assistant in evolutionary biology

We are seeking a field assistant with an interest in field-work experience and evolutionary biology. The field assistant will collect data related to two PhD projects on ruff breeding and movement ecology in Finland. This research is a collaboration of the Max Planck Institute for Ornithology (Germany) and the University of Oulu (Finland).

Background: Ruffs are sexually dimorphic lekking waders with a fascinating mating system making them a classic model organism for evolutionary biologists. Ruff males have three Alternative Reproductive Tactics (ARTs), that is ruff males differ in morphology and reproductive behaviour to avoid direct competition. Part of our lab focuses on understanding the maintenance of these distinct ARTs on an evolutionary time scale. In order to do this, two PhD students are researching the wild demographics and male movement ecology of ruffs.

Activities: The position starts 27 April 2020 and requires a minimum stay of 2 months. The housing is in close proximity to the field-site, in the Liminganlahti area, about 1 hour away from Oulu, Finland.

In the first part of the field season, the field assistant will do regular lek observations, focusing on male courtship displays, mating events and lek visitations. The field assistant will also assist in the capture and radio-tagging of lekking males. As the season progresses, the field assistant will collect ruff nesting and chick survival data. Duties during the nesting phase will include nest searching, egg measurement and transport, female ruff capture, and nest protection. During the chick rearing phase, the field assistant will assist in radio tracking of ruff chicks, capture of tagged and untagged chicks and classification of chick mortality causes. He or she will also assist in establishing a network of solar powered automated tracking stations and its regular maintenance. We will cover housing costs at the field-site and transportation from Munich. If eligible, the field assistant may apply for a living stipend through an Erasmus internship with the University of Oulu, otherwise we will cover essential living costs.

Acquire skills: The field assistant will gain experience in handling, ringing, and blood sampling of live birds, as

well as nest roping, specimen photography, artificial incubation, navigation with hand GPS and radio tracking of live birds.

Required skills: The field assistant should be willing to work in harsh environmental conditions such as low and high temperatures, harsh winds, and high humidity. He or she should be able to work in the presence of biting insects and under variable/flexible schedules. The field assistant must be in good enough physical condition to walk several kilometres over muddy and uneven ground in a single day with a 10 'V 18 kg of equipment on their back. Finally, they should be meticulous in note taking and data recording.

Contact: If you are interested or have questions please contact: Hanna Algora (halgora@orn.mpg.de) or James D.M. Tolliver (jtolliver@orn.mpg.de). When applying please include a short cover letter describing how you meet the position requirements and your CV/resume.

For further information about our research groups visit: <https://www.orn.mpg.de/Research-Group-Kuepper>; <https://www.oulu.fi/ecology/> James D. M. Tolliver

IMPRS Doctoral Student IMPRS Seewiesen Student Representative

Research Group for Behavioural Genetics and Evolutionary Ecology

Max Planck Institute for Ornithology

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82319 Seewiesen

Germany

E-mail: jtolliver@orn.mpg.de

Office: 49 8157 932-442

Mobile: 49 1525 1919036

Skype: tolliverjdm

“Tolliver, James Douglas Morgan” —
<jtolliver@orn.mpg.de>

Florida FieldAssist Anolis

Field Assistant needed for Anolis Research in Fort Pierce, FL

We are looking for a field assistant to help us conduct behavioural research on Anolis sagreion small dredge-

spoil islands near Ft. Pierce, FL, from April 22 to May 21. Daily activities include searching for and observing marked lizards as well as collecting habitat data. We will work long hours on most days (beginning 7-8am). Applicants should be prepared for hot and humid work conditions as well as travel on a small boat. Applicants must be comfortable handling lizards and using binoculars and should be adaptable to changing plans. All expenses (airfare, food, lodging) will be covered and a stipend will be provided.

If interested, please contact Ambika Kamath: ambikamath@gmail.com and Nick Herrmann: nicholas.carl.herrmann@gmail.com with a brief letter describing why you are interested in this position and any relevant research experience along with your CV and the names and contact information of a professional reference whom we may contact by email. We will review applications as they arrive until the position is filled.

Ambika Kamath, Ph.D. Postdoctoral Fellow, Dept. of Environmental Science Policy and Management Miller Institute, University of California, Berkeley

www.ambikamath.wordpress.com

Pronouns:

she/her/hers

Ambika Kamath <ambikamath@gmail.com>

Gabon VolResAssist Mandrills

Dear all,

We are looking for a research assistant to work on the Mandrill project in Gabon, for six months from April to September 2020. Please circulate in your network of interested students. Thanks.

Role description

The Mandrillus Project aims at longitudinally studying wild mandrills in Southern Gabon. We are currently recruiting Volunteer Field Assistants for our 2020 field season. These positions combine practical research with training and are entirely field-based. The volunteers are trained by and work alongside local field assistants, field managers, students and researchers, contributing to the research activities of the Mandrillus Project. Following established protocols, the fieldwork will primarily involve daily follows of a natural population of mandrills on foot, collecting data on the

behavior of individually recognizable animals, together with the collection of non-invasive measurements and samples. Please visit the website of the project to get an idea of the scientific programs that are currently running (<http://www.projetmandrillus.com/research-and-conservation.html>).

Positions available

A Volunteer Field Assistant positions is currently available running for six months from April to September 2020.

What we cover

Once the volunteers arrive in the field site, the Mandrillus Project covers all their work-related costs, including accommodation (private equipped room with air-con and private bathroom, shared kitchen) and a stipend for meals (about 200 euro /month).

Volunteers need to take at their own charge, an repatriation and health insurance for their entire stay (we will ask for a proof).

Who are we looking for?

This position is open to all with an interest in animal behavior and ecology. We are particularly keen to hear from applicants who:

- Are friendly, easy-going people, happy to live in small team at a remote field site
- Are strongly motivated, reliable, honest and committed
- Have good levels of physical fitness and stamina - you will be following the mandrills on foot several hours a day, 6 days per week, over mountainous terrain, in heat
- Show good initiative, with a willingness to learn and show attention to detail
- A good level in French is mandatory

What do volunteers get out of it?

- An amazing opportunity to share the lives of wild mandrills in an equatorial forest landscape
- An opportunity to learn new skills and gain experience, especially those relevant to research in behaviour and ecology
- An opportunity to be involved in a long-term project on African wildlife, hosted by an international research institution
- An opportunity to use this field experience with the Mandrillus Project as a stepping stone on to future Masters and PhD degree courses
- Experience a new culture and share knowledge with local assistants

Further information

For further details about the position, including the work involved, our living conditions in the field, preparations prior to departure, and what to bring with you, please see below (and additional information will be provided to successful candidates).

How to apply

If you would like to apply, please prepare a CV and a detailed covering letter that should explain why you would like to work on the project. The CV should include the names of two referees with e-mail contact details.

Applications must be sent at projetmandrillus@gmail.com by March 15th 2020. We will notify successfully shortlisted candidates few days after this deadline, and interviews will be held in Montpellier (for local successful candidates) or by skype the following week. Telephone/skype interviews will be possible for overseas applicants.

* * * * *

The Study Site

Weather

Gabon has an Equatorial climate with little seasonality. Precipitations are important, almost every day from October to May, and days may be hot (up to 30°C), although the Lekedi Park benefits from a cooler weather because of its altitude (600m). The long dry season, from June to September, is characterized by cool weather (temperatures can fall below 18°C) with no precipitation.

Landscape

The Lekedi Park is characterized by a mix of savannas and gallery forests interspersed with rivers and riverbeds. Equatorial Marantaceae forests are found in the area.

Wildlife

The Lekedi park is home to a variety of wildlife including forest buffalos, several Apes (chimpanzees, gorillas) and other primates (cephus, nictitans) and, of course, mandrills! Predators include, occasionally, leopards (but don't expect any encounter with them!). Birds and reptiles also abound.

Location

The Lekedi park is located in Southern Gabon. It is only a 1 hour drive from Moanda, the nearest town that comprises hotels, petrol stations, banks, basic shops and markets.

Working Conditions

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>

Grants PlantFungalInvasions Brazil Jun20-23

Dear all,

We have a number of grants available for early career researchers (student and post-doctoral researchers with up to five years' experience since gaining/defending their PhD, excluding career breaks) wishing to attend the 45th NPS: Ecological and evolutionary consequences of plant-fungal invasions, which will take place in Campinas-SP, Brazil, on 20-23rd June 2020.

ECRs have until Thursday 19th March 2020 to apply (www.newphytologist.org/grants/index/49).

Please share with anyone who may be interested in applying for a grant. Promotional tweet: twitter.com/NewPhyt/status/1221742189878878208 Facebook post: [facebook.com/NewPhytologist/photos/a.5129210321601812/2812806975416528/?type=3&likes](https://www.facebook.com/NewPhytologist/photos/a.5129210321601812/2812806975416528/?type=3&likes)

The poster abstract deadline is Thursday 16th April 2020 < <https://www.newphytologist.org/posters/index/49> >, and further information can be found on the symposium website: www.newphytologist.org/symposia/45 . Please let me know if you have any questions.

Best wishes, Freja

Freja Kärman-Bailey (pronouns: she/her they/them)
Events and Promotions Co-ordinator, New Phytologist Trust

New Phytologist Trust, Bailrigg House, Lancaster University, Lancaster, LA1 4YE, UK Tel: +44 1524 594691

The New Phytologist Trust, registered charity number 1154867

Hominid 3D Skulls

Dear friends, is there a website with hominids 3D skulls to be used in evolution classes? I would like to use a tool with the possibility of rotating the skulls. Any help?

Prof. Dr. J  lio Cesar Voltolini

Grupo de Pesquisa e Ensino em Biologia da Conserva  o - ECOTROP. Universidade de Taubat  , Departamento de Biologia. Taubat  , SP. Brasil. E-Mail: jvoltol@uol.com.br. Curr  culo Lattes: <http://lattes.cnpq.br/8137155809735635>. Fotos de Cursos e Projetos: https://www.facebook.com/ecotrop/-photos_albums jvoltol@uol.com.br

KalahariSouthAfrica LabManager Mar

Social evolution: Field/Lab Manager position is available, starting in March - April 2020, at the Kalahari Research Centre in South Africa

We are seeking a highly motivated, organized, and independent individual to perform wet lab data generation, sample tracking, and sample export based at the Kalahari Research Centre field site in South Africa (<http://kalahari-meerkats.com/kmp/>). These activities support collaborative research on the molecular correlates and consequences of alternative social roles in meerkats, led by Dr. Jenny Tung (Duke University), Dr. Luis Barreiro (University of Chicago/University of Montreal), and Dr. Tim Clutton-Brock (University of Cambridge).

This position serves as the on-site coordinator for a unique set of studies that combine behavioral, demographic, and morphological data with functional genomic and cell culture approaches rarely performed under field conditions. The manager will be based in a custom-built, temperature-controlled cell culture lab at the field site, and will be responsible for isolating blood cells, performing *in vitro* challenge experiments, extracting DNA, and culturing primary cells from wild meerkats and wild and captive mole rats. Additional duties include ordering and tracking reagents and supplies, performing regular maintenance of lab equipment and instruments, and communicating with other team members in England and the United States.

The ideal candidate will have previous experience with molecular techniques and, preferably, cell culture. However, we will provide additional training in wet lab protocols to the successful applicant. Excellent communication skills, the ability to work long-term in a remote field location, and attention to detail and careful record-keeping are essential. A bachelors degree and previous research experience are required.

We require a 12-month commitment to the position, pending receipt of the appropriate South African visa; the first month will be spent training at a US-based institution. All travel to the field site and basic food and board expenses while living at the KRC will be covered by the research project, in addition to a modest monthly allowance to support additional living costs. The manager will reside in KRC-provided housing at the beautiful Kuruman River Reserve in Northern Cape Province, South Africa, along with a lively complement of researchers and volunteers from around the world. Xaf-fording an opportunity to observe meerkats, oryx, elands, and bat-eared foxes while simultaneously performing cutting-edge work in ecological genomics.

To apply, please send a cover letter, CV, and the name of three references to Tawni Voyles (voyles.tn@gmail.com).

Minnesota 1yr 4mnth Internships Echinacea

Research Experience for Undergraduates 2020 with the Echinacea Project (Kensington, MN)

Are you interested in gaining field research experience and learning about the ecology and evolution of plants and plant-animal interactions in fragmented prairie? The Echinacea Project is offering summer research internships for undergraduate students funded by the National Science Foundation. We have diverse potential projects for students with a background or interest in plant ecology, pollination biology, evolution, statistics, conservation, and computer science. In the past, interns have completed projects on a variety of topics including pollination biology, prairie restoration, and plant-herbivore interactions.

No experience is necessary, but you must be enthusiastic and hard-working. You will survey natural plant populations, measure plant traits in experimental plots, hand-pollinate plants, observe & collect insects, and assist in all aspects of research. Housing is provided and there is a stipend.

Information about our offerings for summer 2020 are here, as well as examples of past REU projects: <http://echinaceaproject.org/opportunities/>. Direct any and all questions to echinaceaproject@gmail.com. Review of applications will begin on March 1st for REU internships. The team and I are happy to answer any questions.

Year-long research interns 2020-2021 with the Echinacea Project

Are you interested in gaining field research experience and learning about the ecology and evolution of plants and plant-animal interactions in fragmented prairie? The Echinacea Project is offering a year-long research internship for recent college graduates with opportunities to conduct original research both independently and collaboratively. We have diverse potential projects for recent graduates with a background or interest in plant ecology, pollination biology, evolution, statistics, conservation, and computer science. In the past, interns have completed projects on a variety of topics including pollination biology, prairie restoration, and plant-herbivore interactions.

No experience is necessary, but you must be enthusiastic and hard-working. In the summer, you will survey natural plant populations, measure plant traits in experimental plots, hand-pollinate plants, observe & collect insects, and assist in all aspects of field research. Interns will also manage and analyze data, mentor high school and undergraduate students and supervise volunteer scientists at the Chicago Botanic Garden through the rest of the year. Summer housing is provided and there is a stipend.

Information about our offerings for summer 2020 are here: <http://echinaceaproject.org/opportunities/>. Direct any and all questions to echinaceaproject@gmail.com. Review of applications will begin on March 8th. The team and I are happy to answer any questions.

Riley Thoen <RThoen@chicagobotanic.org>

Molecular Ecology Prize Call For Nominations

Nominations for Molecular Ecology Prize

We are soliciting nominations for the annual Molecular Ecology Prize.

The field of molecular ecology is young and inherently interdisciplinary. As a consequence, research in molecular ecology is not currently represented by a single scientific society, so there is no body that actively promotes the discipline or recognizes its pioneers. The editorial board of the journal **Molecular Ecology** therefore created the Molecular Ecology Prize in order to fill this void, and recognize significant contributions to this area of

research. The prize selection committee is independent of the journal and its editorial board.

The prize will go to an outstanding scientist who has made significant contributions to molecular ecology. These contributions would mostly be scientific, but the door is open for other kinds of contributions that were crucial to the development of the field. The previous winners are: Godfrey Hewitt, John Avise, Pierre Taberlet, Harry Smith, Terry Burke, Josephine Pemberton, Deborah Charlesworth, Craig Moritz, Laurent Excoffier, Johanna Schmitt, Fred Allendorf, Louis Bernatchez, Nancy Moran, Robin Waples, and Scott Edwards.

Please send your nomination with a short supporting statement (no more than 250 words; longer submissions will not be accepted) and the candidate's CV directly to Andrea Sweigart (sweigart@uga.edu) by Thursday, April 2, 2020. Organized campaigns to submit multiple nominations for the same person are not necessary and can be counterproductive. Also, note that nominations from previous years do not roll over.

With thanks on behalf of the Molecular Ecology Prize Selection Committee

– Andrea L. Sweigart Department of Genetics 120 East Green Street Davison Life Sciences Building, C218 University of Georgia Athens, GA 30602-7223

office phone: (706)-542-7001 sw eigart@uga.edu

Andrea Sweigart <sweigart@uga.edu>

New Zealand J Zoology DNA special

The New Zealand Journal of Zoology invites submissions of papers focused on environmental DNA (eDNA) with some connection to animals. Environmental DNA is generally regarded as DNA extracted from environmental samples such as soil or water without first isolating the target organism(s), however we will also include papers discussing sequencing of bulk samples of entire organisms isolated from various environmental samples. The special issue's wide scope means we will also welcome papers discussing microbiology topics connected to animals.

The guest editors are Dr Jonathan Banks (Cawthron Institute and Lincoln University) and Associate Professor Gavin Lear (The University of Auckland, NZ). Jonathan's research interests include identifying the source of faecal contamination of freshwaters using

eDNA, and characterising freshwater fish communities from eDNA collected from water samples. Gavin's research principally explores the complex interactions among microbial communities, their DNA and the varied environments in which they reside. As a recent leader of New Zealand's Biological Heritage National Science Challenge 'eDNA project', Dr Lear's research interests include investigations into the fate of fish, plant and insect environmental DNA.

Expressions of Interest (EOI) are being sought for papers from researchers wishing to publish in the eDNA special issue. Please send a preliminary title, author list and a short descriptive paragraph outlining the scope of your proposed manuscript as soon as convenient to the chief guest editor, by 21st February 2020. EOIs and other questions can be directed to Jonathan.Banks@cawthron.org.nz.

The guest editors will make a decision on which manuscripts to invite for the special issue and will notify the invited authors by 28 February 2020. Note that an invitation to submit does not guarantee acceptance for publication; this will depend on the outcome of peer review process and authors meeting critical time schedules.

The issue is scheduled for publication in late 2020 or early 2021. We anticipate that the deadline for manuscript submission will be June 2020 and peer-reviewing and revision completed by November 2020. Each manuscript will be published online as soon as the manuscript receives final acceptance; the special issue in its entirety is expected to be published by late 2020 or early 2021.

The New Zealand Journal of Zoology has no page charges, offers free colour printing, and has a supportive editorial team to assist all researchers with the publishing process. The journal welcomes submissions from researchers at all stages of their careers.

Jonathan Banks Coastal and Freshwater Group

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Lincoln University, Canterbury, New Zealand

Jonathan Banks <Jonathan.Banks@cawthron.org.nz>

Jonathan Banks <Jonathan.Banks@cawthron.org.nz>

Obituary Christian Lexer Molecular Ecology

Dear colleagues,

as some of you may know, Prof. Dr. Christian Lexer passed away in December much too early, leaving a big gap among the community.

An obituary is now online in Molecular Ecology, written by Christian Schlötterer on behalf of the Vienna Graduate School of Population Genetics and the Viennese community of evolutionary biologists:

<https://onlinelibrary.wiley.com/doi/epdf/10.1111/mec.15363> With kind regards, Julia

– Dr. Julia Hosp Vienna Graduate School of Population Genetics Coordinator

www.popgen-vienna.at <https://twitter.com/PopGenViennaPhD> c/o Institut für Populationsgenetik Veterinärmedizinische Universität Wien (Vetmeduni Vienna) Veterinärplatz 1, 1210 Wien

T +43 1 25077 4338 F +43 1 25077 4390

<http://www.vetmeduni.ac.at/en/population-genetics/> <https://twitter.com/PopGenVienna>
julia.hosp@gmail.com

Oklahoma State U Summer Undergraduates Frog Diversity

repost to correct link

NSF funded Summer Research Experience for Undergraduates (REU) investigating morphological diversity of frogs and toads

The Moen Lab at Oklahoma State University in Stillwater is seeking applications from a group of highly motivated and diverse undergraduate students to conduct independent research projects concerning the morphological diversity of frogs and toads under the supervision of a postdoctoral mentor. As part of the program, the successful applicants will be trained to conduct scientific

research and receive mentoring to advance their careers as scientists. Successful projects may lead to future research opportunities in the Moen lab and publication of a manuscript. Successful applicants will also receive a \$3600 stipend and housing through OK State University.

Brief description of the program

The program runs for 8 weeks, from 1 June - 24 July 2020. Students will work with a research mentor to choose a project, collect and analyze data, and present the results of the project at the end of the summer. Students will also travel to the Biodiversity Institute at the University Kansas to see one of the world's largest amphibian collections, select specimens for research, and talk to curators and graduate students about collections-based research and careers.

Research projects will focus on the evolution, morphology, and mechanics of movement of anurans (frogs and toads). Potential subjects include:

- (1) The relationship of body form and function
- (2) Evolutionary biomechanics
- (3) Macroevolution of ecology, morphology, and biogeography

Eligibility

Currently enrolled, non-graduating undergraduate students majoring in biology, or biology-related discipline are eligible to apply. Previous research experience is desired, but not strictly necessary. Students from historically underrepresented groups in the STEM-related fields are strongly encouraged to apply.

How to apply

The application will have four parts: a general form, an essay, a transcript, and contact information for a reference. Applications are due March 1st, 2020. Successful applicants will be notified within two weeks following the application deadline. For detailed instructions, follow this link: <https://moenlab.okstate.edu/reu-apply/> If you have questions or concerns, please contact either the principle investigator Dr. Daniel Moen (daniel.moen@okstate.edu) or his postdoc Dr. Gen Morinaga (gen.morinaga@okstate.edu).

Gen Morinaga, PhD. Postdoctoral Fellow Dept. Integrative Biology, Oklahoma State University 501 Life Sciences West Stillwater, OK 74078, USA Email: gen.morinaga@okstate.edu

“Morinaga, Gen” <gen.morinaga@okstate.edu>

Plant Invasion Genomics Summer Undergrad Positions

The Consortium for Plant Invasion Genomics (CPING; <https://www.invasiongenomics.com/>) is seeking applicants for five undergraduate research positions for Summer 2020.

Each student will be paired with a CPING mentor and will gain experience in field collection, use of herbarium specimens, genomics, and bioinformatics. Specific projects will vary by CPING mentor, but students will form an interactive cohort that will receive training in career development, research best practices, and scientific communication.

Research sites include The University of Alabama Tuscaloosa, University of Louisiana at Lafayette, South Dakota State University, and West Virginia University. Undergraduates in their second year and beyond (including graduating seniors) with interests in invasive species, botany, and/or genomics are encouraged to contact individual CPING mentors prior to application. List of mentors can be found here: (<https://www.invasiongenomics.com/participants.html> < <https://www.invasiongenomics.com/participants.html> >). Students are encouraged to contact potential mentors prior to applying.

Due to funding restrictions, students must be U.S. citizens or permanent residents, but students who come from underrepresented groups in STEM, have limited research opportunities at their home institutions, and/or live or study in EPSCoR states (https://www.nsf.gov/od/oia/programs/epscor/nsf_oia_epscor_EPSCoRstatewebsites.jsp) are encouraged to apply!

Successful applicants will receive a stipend of \$4,000, another \$2000 for travel and living expenses, \$1000 in research funds and full travel funds to the CPING annual conference in 2021. Applications are due March 2nd, 2020.

Consortium for Plant Invasion Genomics
<invasiongenomics@gmail.com>

Quebec City SMBE Jun28-Jul2 Best Student Paper

Best Graduate Student Paper of 2019

Dear SMBE Members,

SMBE is calling for nominations for Best Graduate Student Papers of 2019. These awards provide recognition for outstanding papers in both our SMBE journals, Molecular Biology & Evolution (MBE) and Genome Biology & Evolution (GBE). There will be one Best Graduate Student Paper award for each journal.

All articles published in the calendar year 2019 are eligible for nomination. This corresponds to papers published in the printed volume 36 in MBE and volume 11 in GBE. Please see below for additional information on eligibility.

Winners will be given a certificate, a prize of \$2,000 and a travel award to either the 2020 or 2021 SMBE meeting.

Best Regards, Marta L. Wayne President, SMBE

Eligibility & Nomination

1. All articles published in the two SMBE journals, Molecular Biology & Evolution and Genome Biology & Evolution (one prize for each journal), in the calendar year 2019 are automatically eligible if the final publication date of the nominated paper is not more than two years later than the date of the nominee's Ph.D.
2. The nominated graduate student must be the first author or joint first-author of the nominated paper.
3. An article and its first author can be nominated by anyone; self-nominations are acceptable.
4. A signed letter from the Ph.D. advisor, MSc advisor, or equivalent, confirming that the paper was part of the nominee's thesis or graduate work is required.
5. The deadline for submitting nominations is March 11, 2020.

How to Enter

Please send the name of the nominee, a scan of the signed advisor letter, and the name of the paper for which the award is to be considered as a SINGLE PDF to smbe@allenpress.com. Please use the email subject line "MBE/GBE Best Student Paper Nomination", deleting journal name as appropriate.

Society for Molecular Biology & Evolution
smbe@allenpress.com

Society for Molecular Biology & Evolution
<smbe@allenpress.com>

RoyalSocietyPubl TransposonsGeneRegulation

Royal Society Publishing has recently published a special issue of Philosophical Transactions B entitled Crossroads between transposons and gene regulation organized and edited by Miguel R Branco and Edward B Chuong and the articles can be accessed directly at www.bit.ly/PTB1795. A print version is also available at the special price of £35.00 per issue from publishing@royalsociety.org

Felicity Davie Royal Society Publishing

T +44 20 7451 2647

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

Felicity.Davie@royalsociety.org
ity.Davie@royalsociety.org

Felicity

Russia Belarus 2 VolFieldAssist Shorebirds

Two volunteer shorebird fieldwork opportunities in breathtaking Arctic Russia during summer, 2020

Application deadline: 15 March 2020

Description: Within the international project ĀLVONAL Shorebird Science we are investigating in detail sex roles evolution in shorebirds at various locations. Here, we are searching for motivated researchers to work as field assistants with our teams in the high Arctic from 1st June to 20th July 2020.

The first assistant will be based at the Tobseda research station in Western Russia (North of Naryan-Mar).

The location for the second assistant is currently under negotiation, spanning options from Kola peninsula to Chukotka.

Both fieldwork consists mostly of detailed observations of courting pairs and families with chicks as well as nest searching and monitoring. For details see the fieldwork protocol (Székely and Kubelka 2019): <https://elvonashorebirds.com/documents/>. Skills requested: Ideal candidates will have fieldwork experience with breeding shorebirds or at least birds, a good health condition and are willing to work in remote field areas within international team.

Experience with bird ringing and expeditions in Russia or knowledge of Russian language is beneficial but not essential.

Training offered and benefits: Resighting of colour-ringed/banded birds with binoculars and scope, detailed standardized behavioural observations of pairs and families, nest searching, floating eggs, trapping ground nesting birds, ringing/banding birds with metal and colour rings, taking blood samples.

ĀLVONAL project will cover research costs and accommodation during the fieldwork for the chosen candidate. Contribution to travel cost is possible, but depending on the travel route and the distance.

Interested? Please contact VojtĀKubelka (kubelkav@gmail.com) with applications that include max one page motivation letter and max three pages CV highlighting relevant experience and referees. These documents are requested in English. Please send your application to Dr Kubelka until 15 March 2020.

Engaged to shorebird science? Volunteer fieldwork position offers great possibility to gain experience working with shorebirds in Turov Meadow, Belarus. Arpil - May 2020 **Application deadline: 15 March 2020**

Description: Within the international project ELVONAL Shorebird Science we are investigating in detail sex roles evolution in shorebirds at various locations. Here, we are searching for a motivated researcher to work as a field assistant with our team in Belarus (Turov meadows) from 10 April to 31 May 2020. Fieldwork consists mostly of detailed observations of courting pairs and families with chicks as well as nest searching and monitoring. For details see the fieldwork protocol (Székely and Kubelka 2019): <https://elvonashorebirds.com/documents/>. Skills requested: The ideal candidate will have fieldwork experience with breeding shorebirds or at least birds, a good health condition and is willing to work in remote field areas within international team. Experience with bird ringing, a driving licence and knowledge of Russian language is beneficial but not essential.

Training offered and benefits: Resighting of colour-ringed/banded birds with binoculars and scope, detailed standardized behavioural observations of pairs and families, nest searching, floating eggs, trapping ground nesting birds, ringing/banding birds with metal and colour rings, taking blood samples. ELVONAL project will cover research costs and accommodation during the fieldwork for the chosen candidate.

Interested? Please contact Vojtech Kubelka (kubelkav@gmail.com) with applications that include max one page motivation letter and max three pages CV highlighting relevant experience and referees. Documents in English should be sent to Vojtech Kubelka before deadline: 15 March 2020

Fanni Takács <fannitakacs.94@gmail.com>

SMBE
Call Best Graduate Student Paper
2019 Nominations

Best Graduate Student Paper of 2019

Dear SMBE Members,

SMBE is calling for nominations for Best Graduate Student Papers of 2019. These awards provide recognition for outstanding papers in both our SMBE journals, Molecular Biology & Evolution (MBE) and Genome Biology & Evolution (GBE). There will be one Best Graduate Student Paper award for each journal.

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Winners will be given a certificate, a prize of \$2,000 and a travel award to either the 2020 or 2021 SMBE meeting.

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Eligibility & Nomination

1. All articles published in the two SMBE journals, Molecular Biology & Evolution and Genome Biology & Evolution (one prize for each journal), in the calendar year 2019 are automatically eligible if the final publication date of the nominated paper is not more than two years later than the date of the nominee's Ph.D.

2. The nominated graduate student must be the first

author or joint first- author of the nominated paper.

3. An article and its first author can be nominated by anyone; self- nominations are acceptable.

4. A signed letter from the Ph.D. advisor, MSc advisor, or equivalent, confirming that the paper was part of the nominee's thesis or graduate work is required.

5. The deadline for submitting nominations is March 11, 2020.

How to Enter

Please send the name of the nominee, a scan of the signed advisor letter, and the name of the paper for which the award is to be considered as a SINGLE PDF to smbes@allenpress.com.

Please use the email subject line "MBE/GBE Best Student Paper Nomination", deleting journal name as appropriate.

Society for Molecular Biology & Evolution
smbes@allenpress.com

Society for Molecular Biology & Evolution
<smbes@allenpress.com>

Software RootDigger

Dear Community,

Today, we have released our new RootDigger tool for rooting given phylogenetic trees via non-reversible models of DNA substitution.

It can also calculate root placement uncertainties which we believe/hope might yield it more useful.

For details, see here:

<https://www.biorxiv.org/content/10.1101/2020.02.13.935304v1> Alexis

Alexandros (Alexis) Stamatakis

Research Group Leader, Heidelberg Institute for Theoretical Studies Full Professor, Dept. of Informatics, Karlsruhe Institute of Technology

www.exelixis-lab.org Alexandros Stamatakis
<alexandros.stamatakis@gmail.com>

SouthAfrica VolFieldAssist Meerkat

The Kalahari Meerkat Project is a long-term field project investigating the ecological causes and evolutionary consequences of cooperative breeding. We are looking for volunteer field assistants to spend one year at our study site in the South African Kalahari Desert, collecting behavioural data on our habituated meerkat population.

We offer our volunteers extensive training in field- and data skills such as animal handling, radio-tracking, observing animals in the wild and working with databases. Accommodation, food and a small living allowance will be provided, and we will contribute \hat{A} 300 towards travel expenses following successful completion of the 12 month field season. We also offer a limited number of full travel stipends for applicants from the African continent.

Successful applicants usually have a good degree in the biological sciences and will be enthusiastic, hardworking and physically fit. As it takes some time to learn the necessary field skills, we will only consider volunteers who are able to stay for a full 12 months. We are also only able to accept volunteers who have a driving license. We are currently short-listing applicants to start from June to December 2020. Anyone interested should visit our website (<http://kalahari-meerkats.com/kmp/-volunteering/>) for more info and details of how to apply.

Deadline: 1 March (spontaneous applications beyond this date are welcome)

Frank Groenewoud & Jack Thorley Contact: meerkat.volunteers@gmail.com

Frank Groenewoud <fg376@cam.ac.uk>

Spain VolFieldAssist PlantEvolEcol JunJul

Nick Barton's group at the Institute of Science and Technology (IST) Austria is recruiting volunteers to assist with fieldwork on plant adaptation in the Pyrenees (Spain) this coming summer (June-July).

The project: We are studying the evolutionary processes underlying population divergence in wild *Antirrhinum*

majus (snapdragons). We focus on natural hybrid zones between two subspecies with different flower colours. Most of the field work is contributing to a long-term pedigree project aimed at establishing a direct link from genotype to phenotype to fitness. With tens of thousands of samples collected over ten years so far, this provides an exciting and powerful system to examine many outstanding questions about adaptation and quantitative genetics in wild populations.

The work: We are seeking volunteers to assist with the field research, which involves mapping the location of individual plants (GPS), tagging and sampling them for leaves and flowers, measuring quantitative traits, and processing samples back at the field station. There may also be opportunities to be involved in other projects on plant-insect interactions. The work is highly team-orientated, typically in groups of 2-3. This is a great opportunity for anybody looking to obtain experience in fieldwork relating to evolutionary biology and plant ecology.

The field site is located near Ripoll in a beautiful part of the Pyrenees of North Eastern Spain (Catalonia). We stay in comfortable apartments overlooking a picturesque valley, with close access to hiking trails and small villages. All food, accommodation and travel (WITHIN EUROPE) are covered. However, we cannot offer any further stipend.

For these positions we are looking for hard working and enthusiastic biology students/graduates with a strong interest in working outdoors with plants. You must be meticulous with recording data and also be comfortable working as part of a team. Experience with field-based projects and plants is preferred but not essential.

We require a minimum stay of 3 weeks between May 28 and July 30. To apply, send your CV or resume by March 15. Include a few sentences about your background and why you are interested, and include the approximate date range you are available. Send any questions and your application to carina.baskett@ist.ac.at.

Carina BASKETT <carina.baskett@ist.ac.at>

Sussex FieldAssist SocialInsects

We are seeking field assistants to help with research social behaviour in the ground nesting sweat bee, *Halictus rubicundus* for periods of between 2 and 5 months. This could be early April to early June, or late June to late August, or both combined. Start and end dates can be negotiated to some extent within these constraints, but the successful candidate/s must be available for the entire period agreed.

The assistant will be working alongside a Postdoctoral researcher at the Knepp rewilding estate in Sussex, UK. *H. rubicundus* is a medium sized bee that nests in small colonies (fewer than 10 individuals) in the ground and has an insignificant sting. Work will involve: observing foraging behaviour, handling and marking bees, setting up video cameras, uploading video footage and excavating nests from the ground. In warm weather, field assistants will work long days in the field; in bad weather there will be tasks to carry out back at the accommodation/opportunity for time off. Because the work involves recording colour marks on individual animals, the job would not be suitable for someone who is colour-blind. See our research group website for more information about the kind of work we do (https://biosciences.exeter.ac.uk/staff/-index.php?web_id=Jeremy_Field).

Experience of working with insects and a Degree (or working towards a Degree) in a Behaviour/Evolution/Ecology-related topic are desired. The successful applicants must have enthusiasm for fieldwork and be prepared to work hard. They will obtain excellent experience of cutting-edge social insect research.

Shared accommodation near Knepp is provided, but assistants are required to pay for their own food/personal expenses. Assistants receive 125 per week to cover costs. At the time of applying, candidates must be able to demonstrate that they have the right to work in the UK.

Please contact Dr Rebecca Boulton (r.boulton@exeter.ac.uk) and CC Prof. Jeremy Field (j.p.Field@exeter.ac.uk) to discuss these positions further.

Dr Rebecca Boulton

Postdoctoral Research Fellow College of Life and Envi-

ronmental Sciences University of Exeter Cornwall Campus TR10 9FE Email: r.boulton@exeter.ac.uk Website: <https://drbeckyb.wordpress.com/> “Boulton, Rebecca” <R.Boulton@exeter.ac.uk>

SystematicsResearchFund DeadlineFeb20

The Linnean Society (<https://www.linnean.org/>) and the Systematics Association (<http://www.systass.org/>) jointly administer the Systematics Research Fund (SRF) that provides grants annually for small-scale research projects in the field of systematics.

Typical activities supported include contributions to fieldwork expenditure, the purchase of scientific equipment or expertise (e.g. buying time on analytical equipment), specimen preparation (including the cost of temporary technical assistance), and contributions to publication costs. However, please note that it is unable to fund the cost of article publication charges. Projects of a more general or educational nature will also be considered, provided that they include a strong systematics component. Typical activities not supported include attendance at scientific meetings and contributions to student maintenance or tuition fees. The fund does not provide payments for Bench Fees. Projects already substantially funded by other bodies may be disadvantaged. Applications of all nationalities are welcome but applicants must be a current member of the Systematics Association or Linnean Society of London.

Successful projects are selected by a panel of systematists who represent a wide range of conceptual interests and taxonomic groups. Generally, applications in the range of 500-1000 are preferred, the value of any single award will not exceed 1500.

Deadline: 20 February 2020

More information on SRF on the Systematics Association webpage: <https://systass.org/grants-and-awards/-srf/> Questions about the application procedure can also be sent to the SRF Administrator (srf@systass.org)

Dr. Anne D. Jungblut Grants & Awards Secretary for SRF The Systematics Association

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

Teaching Human Evol Using Online Skull Videos answers

Dear friends,

Human evolution is more easy if we have 3D skull copies but they are very expensive and I cannot find places that donate the skulls. I was sad about it but... I move my focus and now I am searching for 3D skulls online (animated videos). Until now I know about three good sources and I thank all the people of this list for sharing this information:

1 - <http://humanorigins.si.edu/evidence/3d-collection> Smithsonian Institute have this tool but it is not working because they are renewing the skull material. I wrote them today asking about when the website will be available again.

2 - <http://www.boneclones.net> They have animated files of several skulls but using Adobe Flash Player and Microsoft is planning to stop using this tool in Google Chrome in 2020. I wrote today to boneclones asking them to maintain this good option.

3 - <https://sketchfab.com> They have several skulls online and you can rotate them in several directions.

Thanks for all :)

Prof. Dr. Jãlio Cesar Voltolini Grupo de Pesquisa e Ensino em Biologia da Conservação - ECOTROP. Universidade de Taubaté, Departamento de Biologia. Taubaté, SP. Brasil. E-Mail: jcvoltol@uol.com.br. Currículo Lattes: <http://lattes.cnpq.br/8137155809735635>.

Fotos de Cursos e Projetos: https://www.facebook.com/ecotrop/photos_albums
VOLTOLINI <jcvoltol@uol.com.br>

Thailand VolFieldAssist Pheasant Tailed Jacana Project

Volunteer Field Assistant Position on the Pheasant-tailed jacana in Thailand

Project description: The Pheasant-tailed jacana project

was started by Prof. András Liker, University of Pannonia, Veszprém (Hungary) with Dr. Nolwenn Fresneau as a postdoctoral researcher in 2019. This project focuses on understanding the demographic drivers of sex-role reversal and skewed sex adult ratio in this fascinating polyandrous and sex-role reversed shorebird. During the first year of this project (2019) Dr. Nolwenn Fresneau spent 3 months in Taiwan in order to conduct field studies. In 2020 the field work will move to a new study site in Thailand as part of a newly made collaboration with Dr Wangworn Sankamethawee, Khon Kaen University. This project is also in collaboration with the "Elvonal Shorebird Science project" which is an international project involving some world leading researchers in shorebird (elvonalshorebirds.com).

Role description: We are currently recruiting a Volunteer Field Assistant for our 2020 field season. The position will be available for a 2 or 3 months period, starting from mid/early May 2020. The study site will be situated near Khon Kaen city (Thailand). The fieldwork will involve daily behavioural observation of jacanas as well as nest monitoring and nest finding. The field assistant will also participate in the catching, measuring and ringing of the birds. This position will be under the supervision of Dr. Nolwenn Fresneau who will be on the field through the whole season. The assistant is expected to work 5 days per week with sometimes long working days. However, schedule and day off can be adapted according to the bird and nest timetable.

What expenses we cover: This is an unpaid position, the field assistant has to arrange his/her own transport to the field site as well as VISA, insurance and needed vaccination. However, from the moment the volunteer arrives at the field site all the work-related costs, including accommodation and meals will be covered.

Who we are looking for: We are looking for someone strongly motivated with an interest in evolutionary and behavioural ecology and working in the field with animals. The assistant should be able to handle some hard-working condition with sometimes long working days: Pheasant-tailed jacanas get up with the sun (between 5 and 6 am) and are quite active until dusk (between 7 and 8pm) with every now and then small breaks around noon. Some evenings might be used for bird catching. Temperature during the day will be above 30°C with numerous heavy but short rainfall.

We are especially looking for applicant with the following skills: §reliability, §resourcefulness (good problem solving ability), §good levels of physical fitness (can handle being all day in the field and hot weather), §adaptability (can handle being in a different country and can adapt to the culture), §easy-going, §good level of English (is

able to communicate with the team).

We also would appreciate experience in bird handling or other previous fieldwork experience.

What to get out of it: §an amazing opportunity to learn new skills, §discover a new culture and observe the amazing Thai wildlife, §get involved in an international research project, §this experience can be extremely useful especially for future Master or PhD student §this work can be part of a small project to get credit points from an university.

How to apply: If you are interested in this position or need more information, you can send an email to nolwenn.fresneau@gmail.com. Application should be sent by the 1st of March 2020 the latest to this email address with “Volunteer position application” as the subject. It should contain a CV including the name and e-mail contact of at least two referees as well as a cover letter.

We will notify the successful shortlisted candidates on the 6th of March 2020 the latest and job interview by skype meeting will be held during the week of the 9th of March 2020. Decision will be made around the 13th of March 2020. *Nolwenn Fresneau* *PhD* *University of Pannonia, Veszprém, Hungary* *Twitter: @NolwennFresneau*

nolwenn.fresneau@gmail.com

TravelGrants Training SticklebackGenetics

Travel grants for training in experimental genetics for stickleback We are pleased to offer at least five travel grants of up to \$3,000 each in support of between-lab exchanges to learn experimental genetic methods related to genetic study of stickleback fish. These grants are supported through a U.S. National Science Foundation Integrative Organismal Systems (IOS) Edge grant, “IOS-EDGE: Expanding the toolkit for functional genetics in threespine stickleback to place genomics into its natural context” IOS-1645170, awarded to Daniel Bolnick (PI, University of Connecticut), with co-PIs Alison Bell (University of Illinois Champaign-Urbana), Craig Miller (University of California Berkeley), Kathryn Milligan-Myhre (University of Alaska Anchorage), and Mike White (University of Georgia).

These grants will be given to students or postdocs seeking to visit another research lab for a minimum of one

week, with the goal of learning lab techniques relevant to gene editing or other experimental genetic manipulations. The EDGE grant has been supporting developments in genome annotation, and developments in gene editing via microinjection of embryos, viral transfection, and nucleoporation of cell cultures, as well as establishment of a stock center. Travel grants can be to obtain experience with these methods, or other genetic manipulation procedures. Training in genetic mapping methods like QTL or GWAS will not be supported, per the terms of the NSF grant. This opportunity is open to participants from, and traveling to, any university. The host lab or the trainee must be engaged in or plan to pursue research on stickleback genetics. The research exchange must occur between April 2020 and June 2021.

To apply, the student or postdoc planning the travel exchange should email an application as a single pdf to Daniel Bolnick (daniel.bolnick@uconn.edu), with the subject line “Stickleback Travel Grant ----{yourname}----”. The application should contain:

- 1) A one page coverletter. In the coverletter, briefly explain your overall research. Confirm in writing that you will provide a written report of your activities, on request, for reporting to the NSF.
- 2) CV of the student or postdoc
- 3) CV of the PI of the host lab
- 4) An explanation of the scientific goals of the visit, up to 250 words
- 5) An explanation of how the training will be conducted (e.g., who actually supervises the work in practice, is there the necessary regulatory approval for animal care, transgenics, etc? Are the needed animal and laboratory resources available?). Up to 250 words.
- 6) A brief letter from the host PI confirming their intent to host and provide training.
- 7) A budget of up to \$3,000 to cover travel (lodging, flights, etc) for the single lab exchange trip. We anticipate most requests will be for less than this maximum, possibly permitting more than five travel grants to be awarded. The budget cannot cover research expenses.

Preference is given to applicants and host labs that are registered via the sticklewiki website where protocols, data, collections, and related materials can be widely shared across the stickleback community (<http://sticklewiki.pbworks.com/w/page/124292094/FrontPage>).

We will begin to review applications on May 23, 2020. The call for proposals will remain open until all five grants are awarded.

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

PLEASE NOTE NEW ADDRESSES

daniel.bolnick@uconn.edu

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

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

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

Trinidad Interns GuppyEvolution

Research Internships 'V Evolutionary Biology

Research interns are needed to assist in a multi-disciplinary, multi-investigator, experimental study of the interactions between ecology and evolution in Trinidad, West Indies. The research is led by Professor David Reznick at the University of California, Riverside in collaboration with Joseph Travis (Florida State), Tim Coulson (Oxford), Ron Bassar (Williams), and Paul Bentzen (Dalhousie U.). We seek to integrate multiple biological fields for the study of these interactions in experimental populations of guppies in Trinidad. Duties include assisting in monthly censuses of guppy populations in montane streams. The monthly censuses include long hours in the field and laboratory. There will also be 12 days off between each census when interns can pursue an independent project.

Interns will be required to spend a minimum of 3-months in Trinidad, with possibility of extension. There are potential start dates in March 2020 and every month thereafter until early 2021. We will cover all travel and living expenses and provide housing.

Qualifications: We seek interns who are entertaining the possibility of pursuing graduate studies in some area of ecology and evolution and who wish to gain some additional field research experience before doing so. Research will take place in semi-remote areas of Trinidad sometimes under bad weather conditions. Applicants must be able to live and work well with others. Research will involve carrying heavy packs over slippery and steep terrain. Applicants must be in good physical condition and be able to meet the demands of field research under these conditions. Ability to drive a standard transmission vehicle is desirable but not required. Applicants with first-aid/first responder training, skills in automobile maintenance, and construction skills are highly

desirable. Please address these skills when applying.

Please see our website www.theguppyproject.weebly.com for more information on the project and access to reprints. Be sure to check out our video menu, which includes a "guppy censuses" as submenu VII. It details the main tasks associated with the internship.

Applicants should send cover letter, CV and the names and e-mail addresses of three or more professional references to David Reznick (gupy@ucr.edu). At least two of the references should be academics.

Ron Bassar Assistant Professor Department of Biology Williams College 59 Lab Campus Drive Williamstown, MA 01267 Phone: 413-597-2119 College Webpage: <https://biology.williams.edu/profile/rdb4/>- Personal Webpage: www.ron-bassar.squarespace.com The Guppy Project: www.theguppyproject.weebly.com Ron Bassar <rdb4@williams.edu>

Tunisia VolFieldAssist Shorebirds

Volunteer shorebird fieldwork opportunity in Tunisia, spring 2020

Description: We seek an enthusiastic volunteer field biologist to aid with monitoring, capturing, and behavioural observations of shorebird species including Kentish plover inhabiting coastal regions of Tunisia (2nd April-30th June 2020). Research expenses and accommodation during the field season will be covered by project funding.

Our objective is to investigate the evolutionary diversity of breeding behaviour across shorebirds species. The project is supported by international project EILVONAL Shorebird Science (elvonalsorebirds.com), University of Debrecen (Hungary) and University of Veterinary Medicine Budapest (Hungary).

Duties: Daily duties include walking through salt-marsh/coastal beach habitat searching for nests and broods and resighting plovers and other shorebird species with binoculars or scope. Once a nest is located, it is marked on a handheld GPS and the eggs are measured and floated to determine expected hatch date. Adult plovers are caught on nests with funnel traps and ringed/banded, measured, and sampled for blood. Behavioural observations of brood care and nest attendance are also needed. The volunteer will work as part of an international team that includes experienced researchers from the UK, Hungary and Tunisia.

Knowledge/skills required: A candidate must have the ability to work long hours and independently while maintaining a positive and enthusiastic attitude. Experience with bird ringing and knowledge of French language is desirable but not essential. A valid driver's license is needed. Colour vision and the ability to walk on uneven terrain for up to 6 km per day.

Skills and training offered: Resighting colour-ringed/banded birds with binoculars and scope, nest searching, floating eggs, trapping ground nesting birds, ringing/banding birds with metal and darvic rings/bands, taking blood samples and behavioural observations. If the applicant is inexperienced in any of the aforementioned skills but demonstrates high potential, enthusiasm, and keen knowledge of ornithology or evolutionary biology during the recruiting process, we will seriously consider your application and provide the relevant training needed in the field.

To apply: Interested candidates should contact Dr Grant McDonald (gcmcdon@gmail.com) with applications that include max one page motivation letter and max three pages CV highlighting relevant experience and mentioning referees. Documents in English should be sent to Grant McDonald before deadline: 28 February 2020.

Grant McDonald <gcmcdon@gmail.com>

UppsalaU JagiellonianU FieldAssist BirdEvolEcol

Expenses paid field assistant positions to study the breeding ecology of blue tits and collared flycatchers on the wonderful island of Gotland.

For the upcoming field season (20 April-20/30 June 2020) we are looking for an expenses-paid field assistant to join the team working on the Swedish island of Gotland. It is a famous bird study site, with over 40 years of bird ecology monitoring. Additionally an amazingly beautiful and unique location for all bird lovers, a major birding and bird migration hotspot.

The period of stay is flexible - longer stays will be preferred but in your application please specify which period in the field season you would be able to cover.

Our current project concerns two species: the blue tit and the collared flycatcher. Apart from general monitoring of both species' breeding we conduct specific research, which now concentrates on colour biology and

expression in the blue tit. The work requires long hours spent in the forest in variable weather conditions (although the weather has been very gentle the past few seasons on Gotland), precision in handling the birds and recording the data, and the ability to work in a team. Daily workload varies from a couple of hours to 8-9 hours, depending on the time in the season. The team will consist of 7-11 assistants, plus an additional collaborating team of similar size from France, staying in another location close by. Basic procedures used during fieldwork involve catching adult birds with mist-nets, ringing of adults and nestlings, morphological measurements, blood-sampling of some birds for genetic analyses. We provide training on the procedures, but a basic knowledge of bird morphology and bird handling experience is more than welcome.

Qualifications: (1) BSc/MSc in Biology, Ecology, Evolution or similar qualification (current students will also be considered on a case by case basis) (2) Previous field experience will be a big plus (3) Ability to work in small teams and sociable personality (4) Bird ringing and mist-netting experience is desired but can also be learned on site (5) EU-valid driving licence will be an advantage (6) Good English (it is a working language in the team)

We will cover for the accommodation (lodging in rooms shared with other field assistants - usually up to 2 persons per room - in a beautiful & comfortable, large house in the middle of the fieldwork area), travel expenses from and to the—study site (within reasonable limits and up to 450 EUR; if more is expected - let's discuss possibilities on a case by case basis), as well as the living expenses.

Applications - including a CV, a lshort letter of motivation (1/2 A4 page) and the name of one referee - should be send to Szymon Drobnik szymek.drobnik@gmail.com, ideally as a single PDF file.

Full consideration will be given to applications received until the 15th of March. After that date applications will be monitored if any additional assistants would be required.

Please do not hesitate to write to us if you have more and specific questions.

Dr Szymon Drobnik Jagiellonian University (PL) & University of New South Wales (AU)

Prof. Lars Gustafsson Uppsala University
geralttee@gmail.com

UTexasElPaso REU Evolution

APPLICATION DEADLINE MARCH 13, 2020

The University of Texas at El Paso (UTEP) Department of Biological Sciences invites applicants for the NSF sponsored Research Experience for Undergraduates (REU) in Chihuahuan Desert Biodiversity. This is a 10 week summer program. The goal of this program is to provide undergraduate students with experience in hypothesis-driven collaborative research utilizing field based and/or laboratory methods and fully engage students in projects associated with the ecology and evolution influencing Chihuahuan Desert biodiversity.

The program provides:

- * High quality research experience in ecology and evolutionary biology in the field and/or lab
- * Research opportunities at the Indio Mountains Research Station (IMRS), a 40,000 acre facility controlled by UTEP and/or other Chihuahuan Desert field sites
- * One-on-one and group mentoring from active research faculty in multidisciplinary fields
- * Training in bioethics and other relevant professional skills

The program includes:

- * \$6000 stipend for 10 weeks
- * Housing in shared apartments and field station
- * Travel reimbursement of up to \$600

For more information on the program, research projects or to apply please visit: <http://science.utep.edu/cdb-reu/> Enquiries: CDB-REU@utep.edu

“mlmoody@utep.edu” <mlmoody@utep.edu>

VideoContest TropicalConservation

Short Video Contest: Success Stories in Tropical Biology and Conservation

In partnership with Mongabay, BAND Foundation, and the Smithsonian Earth Optimism Summit, the Association for Tropical Biology and Conservation is hosting the ATBC Short Video Contest on Science Communication with the theme “Success Stories in Tropical Biology and Conservation”.

Deadline for submissions: *** FEBRUARY 10 *** Submit here: <https://filmfreeway.com/ATBCvideocontest>

Biodiversity refers to the variety of life on Earth in all of its levels, constituting an integral component of any ecosystem. Despite that, we are currently facing an alarming biodiversity loss due to species displacement or extinction, especially in the Tropical regions of the World. Humans are capable of incredible growth, learning, resilience, and change in the face of challenge. We need to tap into these core traits to step up to the growing challenges facing biodiversity and our ecosystems. *Create a short video that shares your success conservation story, biodiversity research, opportunity, and/or optimism for tropical biology and conservation*. Videos must be no longer than four minutes, including title and credits. Creativity is encouraged, and participants may use various forms of media, including slow motion, animation, illustration, and claymation, among others.

All three (3) winners will be notified by email on or around February 20, 2020. The winners will be invited to attend the Smithsonian Earth Optimism Summit <<https://earthoptimism.si.edu/>> in Washington, D.C. on April 23-25, 2020. Winners will also have a chance to attend the Earth Day Rally on the National Mall, which follows immediately after the end of the summit on April 25. The winner will have the opportunity to speak about their conservation work and show their video at a summit session organized by the Smithsonian Institution. Airfare, lodging, and registration fees will be fully covered but winners will be responsible for obtaining a visa to attend the summit.

communications@tropicalbio.org

PostDocs

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Barcelona PDF PhD Bioinformatics

Dear all,

We are afraid that the last e-mail was wrong and it had a typo. The new job opportunities we wanted to inform you are offered by BSC - CNS:

-PhD student in Computer Science and Bioinformatics (R1). Deadline: 30 Jun, 2020 Link here < <https://www.bsc.es/join-us/fellowships/19419lsicbr1> >

-Post-doc Researchers in Computer Science and Bioinformatics (R2). _____ Deadline: 30 Jun, 2020 Link here < <https://www.bsc.es/join-us/job->

[opportunities/18019lsicbr2](#) >

-Bioinformatics and Computer Science - TranSYS Project - PhD Student (R1). _____

_____ Deadline: 30 Jun, 2020 Link here < <https://www.bsc.es/join-us/fellowships/33519lsiconbir1> >

We would appreciate that you share the information with your contacts. Sincerely,

/Human Resources/* Barcelona Supercomputing Center - Centro Nacional de Supercomputación* Tel. +34-934137745 anais.delastre@bsc.es www.bsc.es <http://bsc.es/disclaimer>

Canberra FungalGenomics

Postdoctoral Researcher Position in Fungal Genomics and Evolution

Location: Canberra, Australia Deadline for applications: 22 March 2020

A post-doctoral position under the direction of Drs. Melania Figueroa, Peter Dodds (CSIRO, Canberra, Australia) and Eric Stone (Australian National University, Canberra, Australia) is available and open for applications.

The appointee will join an international project investigating the biology of the pathogenic stem rust fungus, *Puccinia graminis* f. sp. *tritici*, which inflicts significant yield losses in wheat. The overarching goal of the project is to determine haplotype diversity and genetic variation in virulence genes to enable the development of molecular diagnostic tools to monitor and predict pathogen evolution. The postdoctoral researcher will participate in discovery of effectors in *Puccinia graminis* f. sp. *tritici* through bioinformatic and functional analyses and will be expected to travel internationally in fulfillment of research responsibilities. The postdoctoral researcher will be located at the CSIRO Black Mountain Laboratories.

Summary of Selection Criteria

A PhD (or awarding of a PhD within six months of appointment commencement) in a field relevant to biological data science (e.g. genomics, bioinformatics, mathematics, statistics, biostatistics, computer science, statistical genetics, etc.) as applied to plant pathology or equivalent qualifications and experience in a related area.

A track record of science innovation and creativity, including the ability & willingness to incorporate novel ideas and approaches into scientific investigations as evidenced by publications in peer-reviewed journals and conferences and/or authorship of scientific papers, reports, grant applications or patents.

Evidence of experience that includes the application of biological data science methodology to problems in biology and especially genetics of plant fungal pathogens.

For more information and applications visit: <https://jobs.anu.edu.au/cw/en/job/534919/postdoctoral-fellow>
Dr.Melania Figueroa

Group Leader Crop Immunity Traits

CSIRO Agriculture & Food E.Melania.figueroa@csiro.au
| T +61 2 6218 3416 | Twitter @Figueroa_MM
GPO BOX 1700 Canberra ACT 2601 Australia
www.csiro.au <https://people.csiro.au/F/M/Melania-Figueroa> “Figueroa, Melania (A&F, Black Mountain)”
<Melania.Figueroa@csiro.au>

CharlesU PlantGenomeDuplicationGenomics

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

*Start (negotiable): autumn 2020 *Duration: 2 years (with possibility for an extension) *Place: Department of Botany, Charles University, Prague, Czech Republic, EU

We seek a highly motivated, independent early career researcher interested in leading a research program within the context of an ERC-funded project focused on the evolutionary consequences of whole genome duplication (for details see below). The successful candidate will join the team of Ecological Genomics lead by Filip Kolář (<https://botany.natur.cuni.cz/ecolgen>). This project will involve close collaboration with other labs focused on ecological and evolutionary genomics of polyploidy, Levi Yant (University of Nottingham, UK) and Christian Parisod (University of Bern, Switzerland).

**Requirements - innovative thinking, enthusiasm for evolutionary biology - keen interest in leading an independent research program and collaborating both within the group and internationally - a strong background in structural, statistical, and/or population genomics - PhD in evolutionary biology, genetics, bioinformatics, or related fields

**We offer - competitive monthly salary of 2,400 EUR (note that average gross salary in the Czech Republic was ~1,350 EUR monthly in 2019 and living expenses are generally lower in CZ) - work in a young, dynamic and international environment, situated in an inspiring city centre - co-supervision of a PhD student in the same project - involvement in international collaboration including stays in collaborating labs

**Optional - further possibilities for strengthening academic career - take part in teaching relevant courses - supervision of master project(s) in the Bioinformatics or

Evolutionary Biology program - participate in fieldwork in Europe or North America - opportunity to develop independent research follow-up project - support for seeking additional self-funded projects in national (e.g. Junior Researcher projects within The Czech Science Foundation) and international funding schemes (e.g. Marie Curie, EMBO fellowship)

***Project details Whole genome duplication (WGD, polyploidization) is a dramatic genome-wide mutation whose ubiquity across eukaryotes suggests an adaptive benefit, although the underlying mechanism remains unknown. In the project, the successful applicant will test the hypothesis that WGD promotes formation and/or later accumulation of structural changes in a genome (gene duplications, inversions, repetitive DNA proliferation), potentially providing adaptive benefits when facing novel environmental challenges. The project will build on our research in *Arabidopsis arenosa* that demonstrated that WGD can increase the capacity of its natural populations to accumulate adaptive variation, but the candidate will extend well-beyond this system to additional species to discern the generality of initial findings from the *A. arenosa* system. The core work will focus on analysis of population genomic data from field surveys of ploidy-variable systems (diploid-autotetraploid), providing replicates of the WGD process in natural conditions. There will be possibility to expand to analyses of variation in experimental populations involving newly synthesized polyploids. General conclusions will be drawn taking advantage from replicated ploidy-variable plant species, which are partly already sampled and sequenced. Alongside the head-start with available data, the candidate is expected to be fully involved in the overall project design and lead the analytical part of the project. For overall info on the Starting ERC project see <https://botany.natur.cuni.cz/-ecolgen/node/48> . **Please send your CV, contact details for two referees and a half-page motivation letter to Filip Kolář (filip.kolar@natur.cuni.cz). Review of the applications will begin on March 15th 2020 and will continue until the position has been filled.

– Filip Kolář Department of Botany Faculty of Science, Charles University Benatska 2, CZ - 128 01, Prague, Czech Republic *<https://botany.natur.cuni.cz/ecolgen/> < <https://botany.natur.cuni.cz/ecolgen/> >*

Filip Kolar <filip.kolar@gmail.com>

Eawag Switzerland AquaticEcolEvolution

The yearly call for the prestigious Eawag-Postdoc, a 2-year postdoctoral fellowship at Eawag, the Swiss Federal Institute of Aquatic Science and Technology, is open:

<https://apply.refine.ch/673277/0764/pub/1/-index.html> The deadline for applications is 8 April 2020. Please refer to the advert for details. The call is open for researchers in any field within the area of aquatic sciences, and we encourage ecologist and evolutionary biologists to apply.

Information on our research in these fields is available via the following links: <https://www.eawag.ch/en/-department/eco/organisation/> <https://www.eawag.ch/en/-department/fishec/> <https://www.eawag.ch/en/-department/umik/> Interested candidates have the opportunity to define their own research project at Eawag. Feel free to contact me or any of Eawag's group leaders to discuss possibilities.

Christoph Vorburger Eawag, Swiss Federal Institute of Aquatic Science and Technology & Institute of Integrative Biology, ETH Zürich Äberlandstrasse 133 8600 Dübendorf Switzerland

Phone: +41 58 765 5196 e-mail: christoph.vorburger@eawag.ch or vorburgc@ethz.ch
group homepage: <http://homepages.eawag.ch/~vorburch/> ***

“Vorburger, Christoph” <Christoph.Vorburger@eawag.ch>

Eawag Switzerland MetabolicAdap- tationToEnvironmentalChange

The Narwani Lab at Eawag in Switzerland invites applications for a 2-year postdoctoral fellowship in the Department of Aquatic Ecology. The project aims to understand how warming affects metabolism and growth of phytoplankton under different types of resource limitation. The researcher will determine whether temperature sensitivities of different metabolic processes, and their resource requirements, scale up to affect

population-level properties. Are these metabolic traits conserved across the tree of life, or is there intraspecific genetic variation in these traits, providing scope for evolutionary adaptation? This position is supported by significant in-house technical expertise and the ability to leverage new, high-throughput metabolomics pipelines being implemented at Eawag. A more detailed description of the position and how to apply can be found here:

<https://apply.refline.ch/673277/0772/pub/1/-index.html> Applications will be considered after March 10, or until a suitable candidate is identified. website: www.anitanarwani.com email: anita.narwani@eawag.ch

“Narwani, Anita Julianne Tricia”
<Anita.Narwani@eawag.ch>

Fribourg Switzerland PDF PhD Evolutionary Biology

PhD in Evolutionary biology We are offering a fully funded PhD position in evolutionary biology, with a focus on modeling evolutionary processes using fossil and phylogenetic data. The specifics of the PhD project will be defined together with the PhD candidate based on their interests and skills and on the fit within the overall scope of the research in the lab. The PhD candidate will be offered ample opportunities to learn new methods in computational biology, theory and practice in Bayesian analysis, and machine learning. Additionally, through a wide international network of collaborations already established in the lab, they will have the opportunity to travel and learn from world-leading experts in paleontology, phylogenetics, and geology.

The successful candidate will be: -Highly motivated to pursue their research project -Willing to learn new methods and at least one programming language

The working language is English and the ability to communicate and write in English is a requirement. The bilingual setting in Fribourg will offer the possibility for the candidate to learn French and German, if they are interested.

The successful PhD candidate will enroll in the Fribourg Graduate School of Life Sciences (<https://www3.unifr.ch/bio/en/studies/doctorate/>) and have access to the Doctoral Program in Ecology and Evolution (<https://biologie.cuso.ch/ecologie-evolution/>) providing high-quality education opportunities to complement the

laboratory training. PhD positions are fully funded for 3 years, with a possible 1-year extension. In addition, PhD students will have the possibility to apply to generous international postdoctoral fellowship from the Swiss National Science Foundation after completion of their PhD.

Please send your application via e-mail to Daniele Silvestro (daniele.silvestro@unifr.ch) including:

- Short cover letter (1-2 pages) explaining background, motivation, research interests
- A complete CV (including any publications, pre-prints, or manuscripts, if applicable)
- Contact information for 2-3 referees who may be contacted during the evaluation of the applicant

The application deadline is April 30 (included). Applications will be evaluated by a committee and shortlisted candidates will be invited for an interview (by Skype or in person).

For more information: Silvestro group: <https://www3.unifr.ch/bio/en/research/eco-evol/silvestro-group.html> Research groups in Ecology and Evolution: <https://www3.unifr.ch/bio/en/research/eco-evol/> Research groups in Bioinformatics: <https://www3.unifr.ch/bio/en/research/bioinformatics/> Department of Biology: <https://www3.unifr.ch/bio/en/> 2-year Postdoc in Computational paleobiology We are looking for a postdoctoral researcher with a strong background in computer science or computational biology/geology to develop new methods to analyze large paleo-biological data sets. The postdoc will have access to large fossil datasets and time series from past and ongoing drilling projects and will use them to make inferences about evolutionary processes. Their research will focus on implementing new models to date the fossil record based on biostratigraphy using Bayesian and/or machine learning algorithms. The details of the projects will be developed together with the postdoc based on their interests and skills.

Required skills: - PhD in Computer Science, Biology, or Earth Sciences - Excellent ability to communicate and write in English - Demonstrated ability to program in Python or R - Experience with Bayesian methods and/or machine learning algorithms - Strong publication record

Additional desirable skills: - Experience in other programming languages such as C/C++ - Knowledge in the fields of macro-evolutionary biology, geology, paleontology, biostratigraphy

We offer: The positions are funded by the Swiss National Science Foundation. We offer a stimulating, friendly and interdisciplinary work environment, with excellent working conditions and a very wide international net-

work of collaborators. Funding will also be available for travel and research visits in research institutions abroad. The postdoc will also have the possibility to co-supervise a PhD project in the lab.

The Department of Biology of the University of Fribourg (Switzerland) gathers very dynamic and diverse researchers with a strong commitment toward innovation and excellence in science. It offers a stimulating and international environment, with an open-minded atmosphere ideal to foster synergies.

The Postdoc position is fully funded for 2 years with a possibility

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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>

GEOMAR UKiel Marine Invert Comparative Genomics

3-year Postdoc position in Comparative Genomics of Marine Invertebrates GEOMAR Helmholtz Centre for Ocean Research Kiel and the University of Kiel (Germany) Deadline: 9th March 2020 Job Description: The position is central to the recently funded collaborative DFG project IMMUBASE that brings together microbiology, genomics, evolutionary biology and immunology (PIs: Dr. Lucia Pita Galan, Prof. Ruth Schmitz-Streit, Prof. Thorsten Reusch). IMMUBASE aims to comparatively characterize the immune systems of basal metazoans to better understand host-microbe interactions. To achieve this goal, the project will obtain chromosomal level de novo genomes of a number of emerging model species (Cnidarians, Ctenophores, Sponges) in collaboration with the newly founded Competence Centre for Genomic Analysis CCGE Kiel. To better understand basal immunity, IMMUBASE will also employ challenge experiments with subsequent RNA-seq analyses as well as population genomic data to identify balancing selection and hence putative immune relevant genes. We look for candidates with experience with analyzing large sequence datasets and interest in evolutionary biology or immunology. The project is embedded into the Kiel Collaborative Research Centre CRC1182-Origin and Function of Metaorganisms. Time and Salary: The position is

for 3 years. The salary depends on qualification and could be up to the class 13 TVöD-Bund of the German tariff for public employees More information at: <https://www.geomar.de/en/service/karriere/job-single-en/article/postdotorandin-porstdokorand-mwd-im-bereich-comparative-genomics-of-marine-invertebrates/> Please forward to your colleagues! Thank you! Lucía Pita Galán, PhD

Senior scientist RD3-Marine Symbioses Unit GEOMAR Helmholtz-Zentrum für Ozeanforschung Kiel Düsternbrooker Weg 20 D-24105 Kiel (Germany) +49 431 600-4487 Fax: +49 431 600-4482 lpita@geomar.de www.luciapita.es "lpita@geomar.de" <lpita@geomar.de>

GeorgetownU Evolutionary Biol

Dear Colleagues,

Candidates with a background in evolutionary biology are encouraged to apply for this postdoctoral position.

The Ecology, Evolution, and Behavior (EEB) Faculty of Georgetown's Department of Biology invites applications for the 21st Century Postdoctoral Fellowship. Recognizing the educational benefits of a diverse scientific workforce, the aim of the fellowship is to encourage the development of an inclusive community of scholars with the background, expertise, and experience to address the multitude of contemporary and future environmental challenges. Thus, one of the goals of this postdoctoral fellowship is to support outstanding scholars who are committed to building a diverse intellectual community. The program is particularly interested in scholars with a demonstrated interest in bringing to their academic careers the critical perspective that comes from a nontraditional educational background and/or understanding of the experiences of members of groups historically underrepresented in EEB and Environmental Biology.

This is a two-year fellowship (with second year renewal required) that combines research and teaching. The primary expectation is that fellows will carry out independent research in collaboration with one or more of our EEB faculty (<https://biology.georgetown.edu/-eeb/> and potentially faculty from other departments). Please contact prospective mentors in advance of your application. The fellow will be fully integrated into the intellectual life of the department, including department colloquia, research presentations, laboratory meetings, journal clubs, and professional mentoring. The fellow

will also teach or co-teach one course on a topic in environmental biology during each year of the program.

QUALIFICATIONS: Candidates must be a US citizen or permanent US resident and should have completed their PhD within the last three years in ecology, evolutionary biology or a related discipline (those who will have documentation of their PhD by August 2020 are also eligible). Fellows are expected to demonstrate a commitment to inclusive scholarship and have a demonstrated record of research productivity and publication.

APPLICATION: We encourage applicants to reach out to prospective mentor(s) to discuss their interests and plans. Review of applications will begin by March 15 and continue until the position has been filled. Applications should be submitted to the following website: <https://apply.interfolio.com/74149>. Be ready to upload (as three separate pdf files):

- a 1-2 page cover letter describing their experience, long-term research and teaching goals and how their interests and background (in terms of culture, race, gender, ethnicity, disability/ability, socioeconomic status, work/life experience, etc.) would contribute to a more diverse (broadly defined) research community
- a 2-3 page proposal for specific research activities to be carried out during this fellowship program
- a short CV including names and contact information of three references

Matthew Hamilton <hamiltm1@georgetown.edu>

GhentU PlantEvolution

Postdoctoral researcher

The Systematic and Evolutionary Botany lab at Ghent University, Belgium, is recruiting a postdoctoral researcher. We offer you a two-year appointment. You are a plant systematist / evolutionary biologist who is passionate about applying novel approaches to the integration of phylogenetics and organismal traits. You will be working in a research group focusing on the systematics and evolution of tropical plants, and your research will focus on phylogenetics and floral evolution of pawpaw and related species (Asimina, Annonaceae).

For further information, please visit our website: <https://larschatrou.wixsite.com/mysite/vacancies> You can apply until 28/02/2020 23:59 (Brussels time)

Lars Chatrou

Professor of Systematic and Evolutionary Botany
Ghent University K.L. Ledeganckstraat 35 9000
Ghent, Belgium Phone: 32 9 264 50 14 E-mail:
lars.chatrou@ugent.be

Lars Chatrou <lars.chatrou@ugent.be>

IBENS Paris EvolutionaryGenomicsPrimates

Applications are invited for an ERC-funded postdoctoral research position at the Institute of Biology of the Ecole Normale Supérieure (IBENS) in Paris, France. Position is for two years, with possibilities for extension. Start date: from May 1st 2020, flexible.

We are hiring an enthusiastic postdoc to work on ERC Starting Grant EVOMENS, which seeks to understand how menstruation evolved in the primate uterus. Menstruation is a recent evolutionary innovation in primates: the trait is present in some species (humans, baboons) but not in closely related others (vervet). The molecular and genetic bases of menstruation are not fully understood, despite its involvement in critical gynecological conditions. EVOMENS aims to profile cellular populations, gene expression and gene regulation in the uterine lining of several primates across the female hormonal cycle to characterize how menstruation evolved at the functional level. The postdoc will be in charge of functional genomics experiments (single-cell transcriptomics, cell sorting, cell population RNA-seq and ATAC-seq) and data analysis.

Applicants must have a PhD degree or equivalent, or have submitted their thesis at the time of application. The applicant should have wet-lab experience relevant to the project such as functional genomics experiments, transcriptomics, experimental genetics, cell sorting and/or cell culture. Computational experience is appreciated, but not required. However, the successful candidate will be expected to develop that skillset and will receive appropriate support. The postdoc will also be expected to write manuscripts, deliver research presentations and be involved in the daily life and management of the laboratory.

The postdoc will join the Dynamics and Organisation of Genomes laboratory, located at the Institute of Biology of the ENS. ENS is a prestigious university with a vibrant academic life and is part of the Paris Sciences et Lettres (PSL) network of universities and research

centers, ranking 1st in France according to the Times Higher Education' *As World University Ranking*. The institute is located in the heart of Paris, in the Quartier Latin known for its lively student life, restaurants and bars.

Salary: pounds 30,000 to pounds 48,000/year depending on experience; includes extensive healthcare and benefits. Position is full-time and funded for two years, with opportunities for extensions.

Application deadline: April 1st 2020

Start date: from May 1st 2020 (negotiable)

Application: Please send your cover letter and detailed CV, with the names of two referees to Dr Camille Berthelot: camille.berthelot@bio.ens.psl.eu

Informal inquiries welcome.

Camille Berthelot <camille.berthelot@bio.ens.psl.eu>

IndianaU MicrobialEvolution

Postdoctoral Fellow in Microbial Evolution at Indiana University

The Lennon lab (<https://microbes.bio.indiana.edu/>) seeks a motivated and curious postdoc to pursue questions regarding energy limitation and the evolution of microbial dormancy. The NASA-supported research will use a combination of modeling, experimental evolution, and phylogenomics to understand how energy limitation maintains complex traits (i.e., sporulation) and its implications for diversification. Qualified applicants will have experience and/or drive to learn about modeling, eco-evolutionary theory, experimental evolution, analysis of high throughput sequencing data, and comparative phylogenetic approaches. The postdoc will have the opportunity to work collaboratively within and between labs, and also participate in mentoring and outreach. A Ph.D. in Microbiology, Ecology, Evolutionary Biology, Computational Biology or related field is required. The position is funded by a multi-year NASA award and is available for 12 months with the opportunity for renewal based on satisfactory performance. Anticipated start date is May 1, 2020 but negotiable. Salary will be commensurate with experience. Full benefits are included. Indiana University has a large and interactive group at the interface of ecology, evolution, and microbiology. 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 theatre. To apply, please submit a letter of application, a C.V, statement of research interests, and the contact information for three references to <https://indiana.peoleadmin.com/postings/9274>. Best consideration for those applying prior to March 15, 2020. Inquires about the position can be directed to Jay Lennon (lennonj@indiana.edu). The College of Arts and Sciences is committed to building and supporting a diverse, inclusive, and equitable community of students and scholars. Indiana University is an equal employment and affirmative action employer and a provider of ADA services. All qualified applicants will receive consideration for employment without regard to age, ethnicity, color, race, religion, sex, sexual orientation, gender identity or expression, genetic information, marital status, national origin, disability status or protected veteran status.

Jay T. Lennon Professor Department of Biology Indiana University 1001 E. 3rd Street Bloomington, IN 47405 812-856-0962 lennonj@indiana.edu web: microbes.bio.indiana.edu

wiki: lennon.bio.indiana.edu

“Lennon, Jay” <lennonj@indiana.edu>

IowaStateU TEgenomics

Summary of Duties and Responsibilities:

The laboratory of Sarah Anderson at Iowa State University is seeking a postdoctoral researcher for a project in transposable element genomics. The Anderson Genomics Lab studies Transposable Element (TE) diversity across genomes using maize as a model. We aim to better understand the consequences of TE insertions on the expression dynamics of genes during seed development and in response to stress. Transposable elements are highly variable among genotypes, and while there are several known examples of naturally varying TE insertions that are the source of classical phenotypes, the genome-wide contributions of TE variability to transcriptome and epigenome dynamics remains under-explored.

This position aims to identify features or sequences within TEs that predict regulatory effects on nearby genes and test these predictions in diverse genotypes with known presence-absence variation in TE insertions. The project will require creating workflows to integrate high-throughput sequencing data across a variety of

genome, epigenome, and transcriptome datasets from multiple genotypes and conditions. The candidate will be expected to collaborate with other members of the lab in addition to colleagues at Iowa State and other institutions. To learn more about the lab, visit our website: <https://andersongenomicslab.github.io/>. The Anderson Genomics Lab values open and reproducible coding practices. Candidates should include a link to their GitHub or equivalent code repository on their CV. For full consideration, please apply by March 23rd.

Required Minimum Qualifications:

- PhD in relevant field

Preferred Qualifications:

- Prior experience in transposable element biology, epigenomics or transcriptomics - Proficiency in analysis of high-throughput sequencing data - Experience coding in Python or Pearl, R, and demonstrated commitment to open and reproducible coding practices - Department/Program & College Description:

Iowa State University is a public, land-grant university located in Ames, IA. This job opening is in the Department of Genetics, Development, and Cell Biology. For more information about the department, see <https://www.gdcb.iastate.edu/>. To apply, please attach the following 1) Curriculum Vitae with link to your GitHub repository, or equivalent 2) Cover Letter 3) Contact information for Three References

Link to job ad: https://isu.wd1.myworkdayjobs.com/IowaStateJobs/job/Ames-IA/Postdoctoral-Researcher_R1872 “Anderson, Sarah N [GDCB]” <e.van.gijn@hum.leidenuniv.nl>

LeidenU PopulationMovements

I have a three-year post-doc position open at Leiden University in data science, inferring historical population movements in western South America. I have a link, which I think works best because there is a submission button there.

<https://www.universiteitleiden.nl/en/vacancies/-2020/q1/20-074-6947-postdoctoral-researcher-in-inferring-human-population-movements-in-western-south-america> “Gijn, E. van” <e.van.gijn@hum.leidenuniv.nl>

London SocialNetworksHoneybees

We are seeking to recruit a postdoctoral researcher to join our research group at Royal Holloway University of London. The successful applicant will join a project in which we are using social network analysis (particularly Network-Based Diffusion Analysis) to study the evolution of communication and information flow in honeybee colonies. This is a full time, fixed-contract post, available for up to one year (end date 31st Jan 2021). The start date is flexible but must be before 30th April 2017, to coincide with our summer field season.

The successful candidate will join an ongoing ERC-funded research project. In the spring and summer months, you will lead the design and implementation of field-based experiments on our parkland campus using our observation hives. Outside of the honeybee foraging season, you will be responsible for data analysis (including Network Based Diffusion Analysis, NBDA) and manuscript preparation. You will be an integral member of our research team and also be closely involved with the projects of other group members (PDRAs and PhD students). You will also work closely with our external project partner, Dr. Will Hoppitt. You can read more about our lab here: <http://ellileadbeater.wixsite.com/insectcognition>, and the website for our ERC project is here: <https://ellileadbeater.wixsite.com/beedancegap>. A related recent publication is here: <https://www.nature.com/articles/s41467-020-14410-0>. The successful candidate will have a PhD in Biology or Psychology (it is acceptable to be in the final phase of a PhD programme), with a strong publication record in peer-reviewed journals, and proven research expertise in Animal Behaviour. A good understanding of social network analysis and a firm mathematical background are important, although support with model implementation will also be available within the research group. The post holder is expected to be highly competent with R. Most importantly, we are seeking a team-orientated individual who has the drive to rapidly learn the techniques needed for one of the most important axes of our project, the commitment to develop the project to its full potential, and the enthusiasm to contribute to our wider projects within the lab as well.

The post is based in Egham, Surrey where the College is situated in a beautiful, leafy campus near to Wind-

sor Great Park and within commuting distance from London. Our department has particular strengths in social insect research, and our research group provides a supportive, lively and stimulating environment for Early Career Researchers. Our apiary facilities include indoor and outdoor apiaries, a bumblebee cognition laboratory and dedicated bee rearing room. We also have the support of a contracted beekeeper.

Candidates are strongly encouraged to contact Professor Elli Leadbeater for more details regarding the project prior to application: Elli.Leadbeater@rhul.ac.uk. The closing date for applications is midnight, 28th February 2020, and details of salary and application procedure are here: <https://jobs.royalholloway.ac.uk/-vacancy.aspx?ref20-041> Elli Leadbeater Professor of Ecology and Evolution, Royal Holloway University of London

“Leadbeater, Elli” <Elli.Leadbeater@rhul.ac.uk>

MIZ Poland Dolphin Evolutionary Genomics

Dear EvolDir subscribers,

A postdoctoral research assistant position is available at the research group led by Dr Andre E. Moura at the Museum and Institute of Zoology of the Polish Academy of Sciences (MIZ-PAS). The research group is focused on cetacean ecology and evolution, and this position will focus on genomic analyses of striped dolphin in relation to Morbillivirus infection.

The position is available for 33 months, and includes a three month probation period. The expected start date is early April 2020, or sooner if the successful candidate is available. The research group is based at the Research Station of the MIZ-PAS in Gdańsk, and maintains strong links with the main research facilities of the MIZ in Warsaw. Therefore, research visits at the main MIZ facilities in Warsaw may be required as part of the job duties. The Research Station also hosts groups working on canid genomics and avian immunogenetics.

The post-doctoral assistant will possess expertise in evolutionary genomics, population genomics or bioinformatics. Candidates can have a background (BSc or MSc degree) in biology, zoology, bioinformatics, computer science, or related fields, and a PhD degree (awarded or to be awarded soon) in a relevant area. The PhD degree should have been awarded no earlier than 7 years

before the start of employment. The candidate must be eligible to work in Poland at the time of appointment. A list of required skills can be seen at the end of this message.

To apply, the following documents should be sent to Andre Moura at avmoura@miiz.waw.pl no later than 28.02. 2020:

1. Copy of a PhD certificate
2. Curriculum vitae including a publication list, with the following statement provided at the end and signed:

“I give my consent to the processing of personal data provided in my application documents by the Museum and Institute of Zoology PAS for the purpose of the recruitment process, pursuant to the Personal Data Protection Act of 10 May 2018 (Journal of Laws 2018, item 1000) and in agreement with Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation; L 119 from 04.05.2016)”.

IMPORTANT: Applications that do not include this statement cannot be processed.

3. Motivation letter (maximum one page)
4. A copy of one research paper to be evaluated in the recruitment process
5. Contact details of two persons who can be contacted for references.

The interviews of shortlisted candidates will take place in early March at the Research Station of the Museum and Institute of Zoology PAS in Gdańsk-Górki Wschodnie. A Skype interview can be arranged. Informal inquiries can also be addressed to Andre Moura.

Essential skills:

1. Experience with preparing NGS libraries and processing NGS data
2. Good knowledge of evolutionary theory and/or population genetic theory
3. Experience of Linux/Unix environment;
4. Experience with at least one coding language (e.g. Python, Perl, Unix Shell scripts);
5. Good organisational skills;
6. Experience with large databases;
7. Ability to work independently and to communicate with a multi-disciplinary team;

Desirable skills:

8. Experience with analysing whole-genome datasets, aligning to reference genomes, SNP detection;
9. Experience with software for evolutionary genomic analyses;
10. Experience with online genomic databases;
11. Good understanding of natural selection theory;
12. Good understanding of mammalian immune system;
13. Experience of working in an international team.

Research environment The research at the MIZ is focused on a broad range of themes in animal biology, including systematics, biogeography, evolutionary biology, ecology and population genetics. Andre Moura research group is part of the Laboratory of the Molecular and Biometric Techniques led by Prof. Wieslaw Bogdanowicz, grouping researchers focused on population genetics, phylogeography and evolutionary genomics of a broad range of animal taxa. MIZ laboratories contain modern equipment for genomic analyses, including Pacific Biosciences RSII long-read sequencer and Illumina MiSeq System. The state-of-the-art ancient DNA laboratory carries out work on mammalian palaeogenetics. The Museum zoological collection is among the largest and most valuable in Europe.

“Andre E. Moura” <avmoura@miiz.waw.pl>

MNHN Paris GastropodEvolution

POSTDOCTORAL RESEARCH POSITION IN EVOLUTIONARY BIOLOGY / GENOMICS

TOPIC: Drivers of diversification in predatory gastropods

One full-time postdoctoral position for 2 years is available at the Muséum National d'Histoire Naturelle (MNHN), located in Paris, France. The position will start the 1st of June 2020. A one-year extension is negotiable.

The post-doctoral fellow will work in the framework of the ERC project “Hyperdiverse” (ERC-COG-2019, # 865101), who seeks at identifying the drivers of diversification in a group of marine predatory snails, the neogastropods. One of the goals of the project is to sequence 15 genomes of species characterized by various feeding and developmental strategies, two characters that might have influenced the evolutionary success of the group.

These genomes would be the first for neogastropods (except for some low-quality, poorly assembled genomes), which are also known to have a large genome size (2-5Gb), with many repeated elements. The post-doc fellow will have to assemble the genomes, combining data from various sequencing technologies (Illumina, Minion, PacBio), and will also be in charge of the genome annotation, in particular to identify candidate genes involved in feeding (e.g. toxins, anaesthetics, etc.) and in larval development, integrating population genomics

approaches.

Within the “Institut de Systematique, Evolution et Biodiversite” of the MNHN, the post-doc fellow will work in the team 3E (“Exploration, Espèces, Evolution”), working on the systematics and evolution of benthic marine invertebrates. The team regularly organizes expeditions that the post-doc fellow may join, to enrich the MNHN collections and provide data for a highly active international network of taxonomists and evolutionists with which the fellow will collaborate.

QUALIFICATIONS - PhD in Biology. The candidates are expected to have a good experience in genome assembly and annotation.

SALARY 2650â€ per month

APPLICATION PROCEDURE: Please submit a CV, detailing your experience in genome sequencing, assembly and annotation. Email your application to puillandre@mnhn.fr, before the 10th of March.

For informal enquires and more details, email puillandre@mnhn.fr

”nicolas.puillandre@mnhn.fr“
<nicolas.puillandre@mnhn.fr>

Mondsee Austria PlanktonicCiliateBiodiversity

Postdoc/PhD position at the Research Dept. for Limnology, Mondsee, Austria

We are offering a postdoc position within the project Functional Diversity of Planktonic Ciliates, funded by the Austrian Science Fund (FWF). This project investigates the taxonomic (TDiv) and, in particular, functional diversity (FDiv) of ciliates in freshwater and the ocean. Our analyses of FDiv will be based upon functional traits (FT) that we will define and weight in their relative significance for the ecosystem level using multivariate statistics. We will use an experimental approach (i.e., numerical and functional responses) and semi-mechanistic models to investigate ciliate responses to food and temperature.

The successful candidate will be responsible for compiling and analysing the existing marine and freshwater FT data and analysing ciliate FDiv using advanced statistics in R. He/she will spend ~9 months in the partner laboratory at Liverpool, conducting experimental laboratory work and field work. The position is also open

for suitable PhD candidates.

Employment will start as soon as possible and last until September, 2022. Salary level is according to FWF project standards (gross salary currently 54,453.00 euro p.a. for Postdocs, see <https://www.fwf.ac.at/en/-research-funding/personnel-costs/>).

To apply, please send a motivation letter, CV and contact details of two references until March 15, 2020 to Thomas Weisse (thomas.weisse@uibk.ac.at). Further information can be found at: <https://www.uibk.ac.at/-limno/personnel/weisse/index.html.en>. Kind regards,

Universität Innsbruck

Forschungsinstitut für Limnologie, Mondsee Sonja Burggraf Institutssekretariat Mondseestraße 9, A-5310 Mondsee Telefon +43 512 507-50201

Fax +43 512 507-50299 E-Mail sonja.burggraf@uibk.ac.at, office-ilm@uibk.ac.at Bürozeiten: Dienstag - Freitag 8:00-16:00

“Burggraf, Sonja” <Sonja.Burggraf@uibk.ac.at>

OhioStateU SnakeConservationGenomics

POSTDOCTORAL POSITION IN SNAKE CONSERVATION GENOMICS

Gibbs Lab (<https://u.osu.edu/gibbslab/>), Department of Evolution, Ecology and Organismal Biology, Ohio State University I am recruiting a Postdoctoral Research Associate to lead a project on the population genomics of endangered Eastern Massasauga Rattlesnakes (*Sistrurus catenatus*). The postdoc will use existing whole genome sequences from 100s of individuals from multiple populations to assess the interaction between levels of adaptive variation and genetic drift in small isolated populations of this endangered reptile (see Sovic et al. 2019. *Evolutionary Applications* 12:664-678). The postdoc will build on existing analyses to address fundamental questions in population/conservation genomics. There is flexibility in the specific question(s) that will be the focus of the research. The position is funded through the Ohio Biodiversity Conservation Partnership (<https://obcp.osu.edu>) and will involve interacting with the Ohio Division of Wildlife personnel. The postdoc will join an active lab which also has ongoing NSF (USA)-funded research on venom evolution in snakes as well as other projects on vertebrate conservation genomics.

MINIMUM QUALIFICATIONS:

- PhD in evolutionary biology, conservation genetics, bioinformatics or a related field
- Expertise in population genomics, evolutionary genetics, or molecular evolution
- Fluency in a programming language such as Perl or Python
- Publication record

DESIRED QUALIFICATIONS:

- Experience with analysis of whole genome data
- Experience with demographic modeling using high performance computing resources

START DATE AND DURATION The position is available 1 September 2020. The initial appointment is for one year with the strong possibility of reappointment for multiple additional years pending satisfactory performance. Salary is \$50K with full benefits.

APPLICATION PROCESS General inquiries and/or applications should be sent to H. Lisle Gibbs (gibbs.128@osu.edu). Interested candidates should send the following: 1) a CV, 2) Statement of research interests and how current professional abilities match possible project goals, 3) Names and contact information for three references. Review of applications will start 1 April 2020 and will continue until the position is filled.

ABOUT COLUMBUS The Ohio State University campus is located in Columbus, the capital city of Ohio. Columbus is the center of a rapidly growing and diverse metropolitan area with a population of over 1.5 million. The area offers a wide range of affordable housing, many cultural and recreational opportunities, excellent schools, and a strong economy based on government as well as service, transportation and technology industries (see <http://liveworkplaycolumbus.com/>). Columbus has consistently been rated as one of the Top U.S. cities for quality of life, and was selected as one of the Top 10 cities for African Americans to live, work, and play by Black Enterprise magazine. Additional information about the Columbus area is available at <http://www.columbus.org>. The Ohio State University is an equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation or identity, national origin, disability status, or protected veteran status.

Dr. H. Lisle Gibbs Professor, Department of Evolution, Ecology, and Organismal Biology Director, Ohio Biodiversity Conservation Partnership 300 Aronoff Laboratory Ohio State University 318 W. 12th Avenue Columbus, Ohio 43210-1242 USA T: 614 688 3861 F:

614 292 2030 E: gibbs.128@osu.edu <https://u.osu.edu/-gibbslab/> “Gibbs, H” <gibbs.128@osu.edu>

PennsylvaniaStateU PlantMicrobeInteractions

POSTDOCTORAL SCHOLAR PLANT-MICROBE INTERACTIONS

The Department of Plant Science < <https://plantscience.psu.edu/> > at The Pennsylvania State University is seeking a Postdoctoral Scholar to work on the functional genomics and evolutionary ecology of plant-microbe interactions in the Burghardt Lab. The postdoc will contribute to a funded, collaborative NSF PGRP grant “Genomics of strain- and host-specific performance in the legume-rhizobia symbiosis < https://www.nsf.gov/awardsearch/showAward?AWD_ID=1856744&HistoricalAwards=false >” (to P. Tiffin, L. Burghardt, K. Heath, N. Young, and M. Sadowsky). In addition to analyzing and writing up data generated in other aims of the grant, the postdoc will use a Select & Resequencing methodology to screen a panel of legume symbiosis mutants for rhizobial candidate genes underlying host-strain specificity. The postdoc will have the opportunity to conduct follow-up studies on the functional genetics of symbiosis and be provided the freedom to develop and pursue novel research interests and directions consistent with lab goals (e.g., modeling mutualism evolution, root and nodule morphology and plasticity, leguminous cover crops, and mutualism response to abiotic/biotic stressors). The postdoc will be provided mentorship and professional development opportunities tailored to their career goals. The Burghardt Lab is located at the Penn State University Park Campus in Central Pennsylvania in a walkable/bikeable community in the heart of the Allegheny Mountains. The geographic setting is one of agricultural valleys situated between tree-covered ridges with abundant opportunities for outdoor recreation.

Qualifications: Applicants are required to have a Ph.D. or equivalent doctorate in Biology, Plant Science, Microbiology, Genetics, Ecology and Evolution, or related field(s). Before the effective date of hire, applicants must be able to provide evidence that all requirements have been met for completion of the Ph.D. and pass standard background checks. This position requires excellent written and verbal communication skills. Preferred candidates will additionally have some of the following

strengths: ability to conduct lab or field experiments with plants or microbes; experience using bioinformatic pipelines to analyze whole-genome sequence data and perform statistical analysis with R; a background in functional, population, quantitative, or ecological genetics; prior success in working with teams; an interest in mentoring students and outreach; and a strong track record of peer-reviewed publication.

Details: Initially, this fixed-term appointment is funded for one year from the date of hire with the option of reappointment for additional years conditional on satisfactory performance and the availability of funds. This position includes a competitive salary and generous benefits. Application review will begin immediately, and the position will remain open until a suitable candidate is identified. Interested applicants should apply through the Penn State Job Management System (<https://psu.jobs/job/93734>) and upload the following pdf documents (i) a cover letter detailing scientific interests, qualifications, future goals, and preferred start date, (ii) a CV including contact information for three references and (iii) 1-2 representative publications. Applicants should also combine these documents into a single pdf (titled “lastname_pds2020.pdf”) and email it to liana.burghardt@psu.edu. For additional information about this position, please contact Dr. Liana Burghardt or see her website <https://lianaburghardtlab.com/> “liana.burghardt@psu.edu” <liana.burghardt@psu.edu>

Philadelphia EvolutionaryGenomics

Postdoctoral position: Evolutionary genomics - Philadelphia

Description: A funded postdoctoral position is immediately available in the laboratory of Dr. Marco Trizzino, in the Department of Biochemistry and Molecular Biology at Thomas Jefferson University, to study how human-specific transposable elements contributed to the generation of human-specific traits and features. The laboratory uses a combination of experimental and computational biology to unveil how transposable elements rewire gene regulatory networks in mammals. The new postdoc will be free to design additional projects, as long as they fall under the umbrella of the research interests of the lab. For this specific project, we will compare human and chimpanzee iPSC differentiation into neuronal lineages, and use genomics to track transposable element activity.

More info about the lab can be found here: <https://marcotrizzino.wordpress.com/> Our lab is part of the Sydney Kimmel Medical College, offering access to state-of-the-art core resources. Philadelphia is a great place to live, affordable and with a vibrant community. Great music/sport/food/art scene, and excellent location. Thomas Jefferson University is located in the heart of Center City.

Qualifications:

Our young and dynamic team seeks to hire a highly motivated scientist with a background in evolutionary biology, and preferred experience in either Next Generation Sequencing and/or cell culture and basic molecular biology techniques (e.g. ChIP, PCR, qPCR, western blot). Coding experience is preferred but not required. Experience with iPSC culture is preferred but not required.

Candidates should hold a RECENT (i.e. obtained no more than two years ago) Ph.D. Evolutionary Biology, Genomics, Molecular/Cellular Biology, Biochemistry, Developmental Biology or equivalent. Excellent communication and written skills are a must. Funding is available for three years. Starting date is negotiable, ideally no later than Fall 2020.

Interested candidates should send a cv, a brief cover letter and contacts of 3 professional references to marco.trizzino83@gmail.com Review of applications will begin immediately and continue until the position is filled.

Marco Trizzino <marco.trizzino83@gmail.com>

Philadelphia TreeOfLife

Postdoctoral position, Tree of Life, Temple University, Philadelphia, USA

A postdoctoral position is available at Temple University in Philadelphia for conducting research on the tree of life and its timescale. This is part of the TimeTree project and database (www.timetree.org) of S. Blair Hedges (Center for Biodiversity, www.biodiversitycenter.org) and Sudhir Kumar (iGEM, Institute for Genomics and Evolutionary Medicine, igem.temple.edu). The research involves a diversity of topics in evolutionary biology including speciation, extinction, and diversification. Temple has exceptional research strength in these and related fields of biodiversity, bioinformatics, ecology, and evolutionary genomics. — We are seeking a person with

training in evolutionary biology and phylogenetics and skilled in bioinformatics. Some programming knowledge, preferably R, is required. An ideal candidate will have experience with the literature and questions in this area, experience with species-rich analyses, and a general knowledge of taxonomy.—

The Center for Biodiversity and iGEM are both located within Temple's Science, Education, and Research Center (SERC) on the main campus. They are affiliated with the Department of Biology and College of Science and Technology. Temple University is located in the heart of historic Philadelphia and is home to many academic and research institutions as well as numerous cultural attractions.—

Interested persons should send an e-mail to postdoc@timetree.org, stating their interest in this position, and attach a curriculum vitae that also contains contact information for three references. Review of applications will begin on March 9th and continue until the position is filled. — Temple University is an equal opportunity, equal access, affirmative action employer committed to achieving a diverse community (AA, EOE, m/f/d/v).

—
sbh@temple.edu

SLU Sweden 2PDFs1PhD DairySocialInteraction

Two post-doc positions and one PhD student position (fully salaried) at SLU Sweden working with social interactions between dairy cows and digitalization

SLU has received some exciting external funding on the area of social interactions between dairy cows and digitalization. These projects are closely connected and include a range of international collaborators. The project leader is Professor Lars Rönnegård and he is now recruiting:

The positions for the dairy social interaction project are now out at <https://www.slu.se/en/about-slu/jobs-vacancies/>. Two postdocs in precision livestock science. Direct links:

<https://web103.reachmee.com/ext/I017/-1114/job?site=7&lang=UK&validator=-87e4b706891e51f731ed44be28da8352&ref=https%3A%2F%2Fwww.slu.se%2Fom-slu%2Flediga-tjanster%2F&ihelper=https%3A%2F%2Fwww.slu.se%2Fen%2Fabout->

https://web103.reachmee.com/ext/I017/-1114/job?site=7&lang=UK&validator=-87e4b706891e51f731ed44be28da8352&ref=-https%3A%2F%2Fwww.slu.se%2Fom-slu%2Flediga-tjanster%2F&ihelper=-https%3A%2F%2Fwww.slu.se%2Fen%2Fabout-slu%2Fjobs-vacancies%2F&job_id=3243

And on PhD position in animal science:

https://web103.reachmee.com/ext/I017/1114/job?site=7&lang=UK&validator=-87e4b706891e51f731ed44be28da8352&ref=-https%3A%2F%2Fwww.slu.se%2Fom-slu%2Flediga-tjanster%2F&ihelper=-https%3A%2F%2Fwww.slu.se%2Fen%2Fabout-slu%2Fjobs-vacancies%2F&job_id=3241

Application deadline 23rd of February Applications via the online system ONLY! Any applications for this job made directly to me will reflect your ability to follow written instructions and will certainly not be considered a merit J

“Lars Rönnegård (HDA)” <lrn@du.se>

SLU Sweden PlantInteractions

Two year postdoctoral position in evolutionary biology at SLU Alnarp, Sweden - plant interactions with antagonists and the root microbiome

Project description

We seek a motivated postdoctoral researcher who will work on a new project investigating selection of plant defence against antagonists in wild *Solanum* in relation to the composition of the root microbiome in different habitats. An exciting new development in studies of plant and animal immunity indicates that microbial composition in the animal gut, or the phylo- or rhizosphere of plants, is a strong contributing factor to good health. It has been suggested that microorganisms present on plants may act as an outer, first layer of immune defence against infection by pathogenic microbes. To gain a more general understanding of evolution of plant health, we need to conduct studies in natural populations taking into account selective forces generated by microbial communities and their interactions with plants.

The project also has important applied aspects for future development of sustainable plant protection strategies. The project will be performed in close connection with

integrated plant protection in cultivated potato against the important potato diseases early and late blight.

Organisation

This position is based in the Integrated Plant Protection unit at the Department of Plant Protection Biology at the Swedish University of Agricultural Sciences (SLU, Alnarp, Sweden). Our department, is an interdisciplinary constellation, encompassing Chemical Ecology, Resistance Biology and Integrated Plant Protection research units, providing excellent opportunities for strong research collaboration within and outside the departmental area. Research efforts at the department are directed towards both fundamental and applied research. Applied plant protection research is carried out in collaboration with industry and focuses primarily on the development of environmentally sustainable pest and disease control strategies for agriculture and horticulture, both in Sweden and internationally.

Qualifications

The candidate should hold a PhD degree in biology or equivalent. Previous experiences from research in evolutionary biology, molecular biology, interactions between plants and their antagonists, bioinformatic analyses of microbiome data or quantification of selection differentials are merits. Candidates should be fluent in spoken and written English. The candidate must be capable of independent planning, execution and evaluation of experiments, and should have an interest in theory development. As a person you are enthusiastic and responsible, and have excellent collaborate skills. Personal skills are therefore an important part of the evaluation. Applicants that hold a driving license will be evaluated favorably.

As postdoctoral appointments are career-developing positions for junior researchers, we are primarily looking for candidates with a doctoral degree that is three years old at most.

Closing date 2nd of April, 2020.

For more information and how to apply, see <https://www.slu.se/en/about-slu/jobs-vacancies/> Questions can also be sent to Åsa Lankinen, asa.lankinen@slu.se.?

Åsa Lankinen <Asa.Lankinen@slu.se>

StellenboschU PlantSexualSelection

POSTDOCTORAL FELLOWSHIP 2020 (R250000)

TITLE: Quantum dots and Pollen wars

DESCRIPTION: Much of the extraordinary variety in floral form is thought to have arisen through sexual selection, with a multitude of strategies to move male gametes as efficiently as possible from one flower to another flower on a different plant. Flowers are often likened to billboards, colourful signs that attract visitors and maximize pollen export as well as receipt. But it is clear that efficient pollen movement is influenced by more than just the ability to attract pollinators. Flowers also interact mechanically with pollinators, the adaptive fit between plant and pollinator morphology sometimes being likened to a lock and key which enhances pollen transfer. But imagine if the available space for pollen transfer onto a pollinator's body is limited by how much pollen is already on the pollinator. Or if rival pollen, already on a pollinator reduces the probability of success by new pollen being placed on the pollinator. This may lead to pollen wars, where each visit by a pollinator represents a chance for a flower to smother or displace the pollen from rival males and so alter the three-dimensional structure of how pollen from different flowers is laid down on pollinators (pollen landscapes). By attaching different coloured quantum dots (fluorescent nano particles) to the pollen grains of different flowers, I would like a postdoctoral fellow to document the structure of pollen landscapes and whether variation in floral morphology affects that structure. Finally, I would like the postdoc to investigate the reproductive consequences of having structured pollen landscapes on pollinators and whether flowers are able to alter those landscapes to their advantage.

REQUIREMENTS & VALUE: The postdoc fellow will be based at Stellenbosch University, South Africa where he/she will use several of the local study systems to address the above aims. The ability to use quantum dots to study the fates of pollen grains is fairly novel and each species that we have worked on has its own idiosyncratic difficulties to overcome. Application of quantum dots can be fiddly work and requires fine motor skills, a good deal of patience, attention to detail, and the ability to troubleshoot and improvise. I am looking for a postdoc with an interest in pollinators or floral evolution, who enjoys working outdoors and is

statistically strong. The initial postdoc is for one year (starting August 2020) with the possibility of a second year if good headway is made. The fellow will be paid a total of R250000 p.a. which can be used for living expenses (this should allow for a reasonably comfortable standard of living). I will cover all of the project running costs. Please note that postdoctoral fellows are not appointed as employees and are therefore not eligible for employee benefits. Postdoctoral fellowships are also awarded tax free. Candidates are required to have graduated within the last 5 years.

HOW TO APPLY: Please send your applications to me, Bruce Anderson (banderso.bruce@gmail.com). The application should include a brief cover letter of why you would like to work on this project and why you think you would be a good candidate for the position. In addition, please send an up to date CV and two reference letters. Applications need to reach me by 1 May 2020.

I would recommend reading the following three references which outline some of the methods (Minnaar and Anderson 2019, *Methods in Ecology & Evolution*), ideas (Minnaar et al 2019, *Annals of Botany*) and an application of the two (Minnaar et al., *New Phytologist*).

- Minnaar C and Anderson B 2019. Using quantum dots as pollen labels to track the fates of individual pollen grains. *Methods in Ecology and Evolution*. 10: 604-614
- Minnaar C, Karron J, de Jager M and Anderson B 2019. Plant- pollinator interactions along the pathway to paternity. *Annals of Botany*. 123, 225-245
- Minnaar C, De Jager M and Anderson B. 2019. Intraspecific divergence in floral-tube length promotes asymmetric pollen movement and reproductive isolation. *New Phytologist*. 224: 1160-1170

Bruce Anderson <banderso.bruce@gmail.com>

SwissOrnithologicalInst ModellingAvianDynamics

Three postdoc positions in the areas of statistical modeling of bird abundance and distribution changes, ecological interactions and population dynamics, respectively, are available at the Swiss Ornithological Institute in Sempach, Switzerland. The deadline for application is 1 March 2020. For details and contact information, please see here: <https://www.vogelwarte.ch/de/-vogelwarte/mitarbeit/thesis/post-doc/three-post-doc->

positions-on-modelling-avian-abundance,-ecological-interactions-and-population-dynamics . Swiss Ornithological Institute Sempach, Switzerland <https://www.vogelwarte.ch/en/home/> Pasinelli Gilberto <gilberto.pasinelli@vogelwarte.ch>

U Brussels Genomics Evolution African Trees

Postdoc in genomics and evolution of African trees, Universite Libre de Bruxelles, Brussels, Belgium

The team of Prof Olivier Hardy from the Evolutionary Biology and Ecology Unit (<http://ebe.ulb.ac.be/ebe/Hardy.html>) searches a candidate to apply for a 1-year (renewable once) postdoctoral scholarship from Wallonia-Brussels International (WBI) to work on the evolution of African trees using genomic approaches. The research project will focus on a threatened legume tree species from Central Africa with a mixed mating system, and involves: genome assembly, genome annotation using RNAseq data, the identification of genomic signatures of genetic load / inbreeding depression, QTL analyzes on growth traits, and / or the reconstruction of the demographic history of its natural populations. The applicant must be familiar with bioinformatic tools applied to genomics and be experienced in at least one of the following domains: genome assembly, QTL analysis, genetic mapping, demographic inference based on genetic data, evolution of reproductive systems. The postdoc will collaborate with MSc and PhD students as well as other postdocs working on different projects related to the evolution of tropical trees, and will be helped by a laboratory technician.

Interested candidates should contact Olivier Hardy by email (ohardy@ulb.ac.be) before 19 February, sending a CV and a motivation letter. The deadline for the application of the WBI scholarship is 1st March (information at http://www.wbi.be/sites/default/files/attachments/-service/call_for_applications_in_wbi.doc). Decision are expected early July 2020, and the postdoc should ideally start in September or October 2020. The detailed research project (c. 3 pages) will be written together. Conditions to apply: PhD obtained from a non-Belgian university (or PhD defence planned before 1st June 2020); no WBI scholarship obtained previously. Subsidy: €2,120 / month.

Olivier Hardy <ohardy@ulb.ac.be>

UCalifornia Berkeley HumanEvolGenetics

Post-doctoral position - University of California, Berkeley - Human Evolutionary Genetics.

Description: The Moorjani Lab (<https://moorjanilab.org/>) at University of California, Berkeley uses computational and statistical methods to investigate questions in human evolutionary genetics, in particular on mutation rate, demographic inference and archaic ancestry. A central aim in the lab is to understand the impact of evolutionary history on genetic variation and to apply this knowledge to learn about human history and disease. To this end, we use genetic data from ancient specimens and present-day species to learn about: (1) when key events (such as introgression and adaptations) occurred in human history, (2) how different evolutionary processes such as mutation rate evolve across primates, and (3) how we can leverage these patterns to identify genetic variants related to human adaptation and disease. The research in the lab involves both development of new methods and large-scale genomic data analysis.

Responsibilities: A successful candidate will develop and apply computational approaches to large genomic datasets to characterize patterns of population history and evolution. The main responsibilities include conducting research, attending regular lab meetings and journal clubs, and preparing research results for publication and presentations at scientific meetings. Opportunities may also exist for mentoring graduate and undergraduate students.

Required qualifications: Ph.D. or equivalent in genetics, genomics, computational biology or related fields and demonstrated record of productivity and publications. Experience with programming (e.g. C/C++, Python/Perl, R or other programming languages), genomic data analysis and methods development.

Please contact Priya with your CV and a brief overview of research questions you are interested in pursuing. Please also request three recommenders to send a letter of reference on your behalf. The position is open until filled with an anticipated start date in 2019/2020.

Salary: This is a multi-year postdoctoral position (initial appointment is for 12 months and renewable annually up to three more years). Salary is commensurate with

qualifications and experience.

Contact: Priya Moorjani Assistant Professor Department of Molecular and Cell Biology Center for Computational Biology <https://moorjanilab.org/> Email: moorjani@berkeley.edu

Priya Moorjani <moorjani@berkeley.edu>

UCalifornia SanDiego AlgalEvolution

Applications are invited for a post-doctoral position in the Shurin Lab in Ecology, Behavior and Evolution at the University of California San Diego. The position is part of a collaborative project with Department of Energy scientists and commercial partners on evolution of micro-algae under commercial cultivation. The project asks how selection in the lab and field cultivation facilities can be optimized to advance the productivity and stability of algae biotechnology for biofuel and other natural products.

A description of the position and how to apply can be found here:

<https://biology.ucsd.edu/jobs/-postdoc.html#Productivity-&-Stability-in-Alg> A description of research with the New Mexico Consortium is available here.

<https://www.energy.gov/eere/bioenergy/bioenergy-technologies-office-fiscal-year-2019-funding-opportunity-announcement-0> Applications will be considered after February 15, 2020 or until a suitable candidate is identified.

Jonathan Shurin <jshurin@ucsd.edu>

UCambridge MicrobialEvolution

The title should be: UCambridge.PostDoc.MicrobialEvolution

Link: <http://www.jobs.cam.ac.uk/job/25139/> Text below: The Ecosystems and Global Change Group led by Dr Andrew Tanentzap at the University of Cambridge (www.ecosystemchange.com) is seeking a full-time Post-Doctoral Research Associate (PDRA). The PDRA will

join an exciting project funded by the European Research Council investigating the ecological and evolutionary importance of molecular diversity in dissolved organic matter.

The goal of the position is to determine how chemical diversity in dissolved organic matter influences the adaptation and evolution of microbes. The PDRA will be responsible for managing and delivering a multi-year evolution experiment where a focal bacterium, ideally *Pseudomonas fluorescens*, will be grown on media amended with dissolved organic matter sourced from different lakes and alongside different levels of competition from other model taxa. They will perform regular sequencing and fitness assays of the focal strains, and may be required to visit field sites to source the organic matter. Finally, the PDRA may be involved in analysing existing metagenomics datasets collected across European lakes.

The successful candidate must be a highly motivated scientist with a proven track record of publication in leading peer-reviewed journals, ideally with evidence of innovation in applying theory to empirical datasets. They will have a PhD in evolutionary biology, environmental microbiology, or a related subject and considerable experience with all of experimental evolution, aquatic ecology, and genomics. Experience with project and team management is ideal.

Please ensure that you upload a covering letter describing how you meet the post specifications, a CV, and the names of two academic referees that can comment on your suitability for the role. We will be unable to consider any other additional documents as part of your application.

Fixed-term: The funds for this post are available for 3 years in the first instance.

Further details are available at <http://www.jobs.cam.ac.uk/job/25139/file/-further+particulars.pdf> To apply, visit <http://www.jobs.cam.ac.uk/job/25139/>. For queries, please contact Dr Andrew Tanentzap ajt65@cam.ac.uk.

“A.J. Tanentzap” <ajt65@cam.ac.uk>

UCentralFlorida IntegrativeGenomics

The Fitak Lab at the University of Central Florida’s (UCF) Genomics and Bioinformatics Cluster is accepting applications for a two-year postdoctoral researcher

position in integrative genomics.

The Fitak Integrative Genomics Laboratory uses a variety of genomic, statistical, behavioral, and experimental techniques to examine the incredible array of biodiversity and the specific traits that make species unique. Major ongoing and developing projects include i) The genomics of magnetoreception, ii) conservation genomics (particularly Mexican wolves and pumas), iii) wildlife disease genomics, and iv) tick physiology.

Qualifications Applicants must have completed a PhD in Population Genomics, Evolutionary Genomics, Computational Science, or related field by the start date. New graduates and applicants from groups that are traditionally underrepresented in the sciences are strongly encouraged to apply. The postdoctoral scientist is expected to be motivated, independent, productive, and flexible, with the ability to collaborate on multiple projects of different foci. The ideal candidate will have strong quantitative and computational skills, experience with next-generation sequencing datasets (e.g., transcriptomic, genomic), and an established record of scholarly publications. Candidates should have an interest in taking advantage of the fully equipped genomics lab, dedicated high-performance computing cluster, and interdisciplinary environment composed of researchers from departments of Biology, Computer Science, and Biomedical Sciences. Responsibilities include, but are not limited to, generating and analyzing genomic data, mentoring students, conducting independent research projects and writing grants.

About UCF UCF Postdoctoral scientists are given a competitive starting salary and an attractive benefits package including health and dental insurance. A wide array of professional growth opportunities is offered at the departmental and institutional level in the form of workshops (e.g., grant writing, project management, etc.), as well as comprehensive mentoring plans. UCF's main campus is located in the picturesque eastern part of the Orlando metropolitan area. UCF is one of the largest universities by enrollment in the U.S., a designated Hispanic Serving Institution, and consistently features on the top of the list of the most innovative and best-value universities in the U.S.

As an equal opportunity/affirmative action employer, UCF encourages all qualified applicants to apply, including women, veterans, individuals with disabilities, and members of traditionally underrepresented populations. UCF's Equal Opportunity Statement can be viewed at: <http://www.oie.ucf.edu/documents/PresidentsStatement.pdf>. As a Florida public university, UCF makes all application materials and selection procedures available to the public upon request. The

University of Central Florida is proud to be a smoke-free campus and an E-Verify employer.

Application Instructions To apply, please send your CV, a list of three references, and a letter of interest briefly describing your background and experience in genomics and bioinformatics (not more than 2 pages) to robert.fitak@ucf.edu with the subject line "UCF Postdoc Position". Applications Submitted by February 28, 2020 will be given full consideration. Expected start date will be mid 2020, although this is flexible.

Further information on the Genomics and Bioinformatics Cluster at UCF can be found at <https://www.ucf.edu/faculty/cluster/genomics-bioinformatics/>. Inquiries about the position can be addressed to Bob Fitak at robert.fitak@ucf.edu with the subject line "UCF Postdoc Position".

Robert R. Fitak Assistant Professor Genomics and Bioinformatics Cluster Department of Biology University of Central Florida www.fitaklab.com Robert Fitak <Robert.Fitak@ucf.edu>

UChicago GeneticsOfGeneRegulation

I am looking for a postdoctoral fellow to join my lab (<http://lilab.bsd.uchicago.edu/>) at the University of Chicago to work on the genetics of gene regulation, with a preferred focus on mRNA processing. In particular, I am looking for either a wet lab experimentalist who is interested in computational analyses or a computational person with expertise in gene regulation. Although primarily computational, our group has a wet lab which is funded to collect large-scale experimental and genomic data. Our goal is to provide you with the opportunity to explore scientific questions by collecting unique data and by learning how to analyze the data to get the most out of it.

If you are interested, you should directly contact me at yangili1@uchicago.edu and include a CV, a brief description of your research interests, and the names of two references. Informal enquiries are also welcomed.

Thanks, Yang

"yangili1@uchicago.edu" <yangili1@uchicago.edu>

UCopenhagen HumanPopulationGenomics

Postdoctoral fellowship in human population and quantitative genomics Inferring patterns of natural selection and complex trait evolution using ancient DNA

Lundbeck Foundation GeoGenetics Centre Faculty of Health and Medical Sciences University of Copenhagen

The Racimo group invites applications for a postdoctoral fellow position at the University of Copenhagen. Our group focuses on using ancient and present-day genomes to understand patterns of selection and admixture over time, and to develop methods to jointly analyze population and functional genomic data.

Objectives

The candidate will be able to work with unprecedentedly large ancient genomic dataset from a period spanning the last 50,000 years of human history, in combination with functional datasets and medical biobanks. The focus of the project will be on integrating ancient genomics with population genetic theory and quantitative genetic resources, to learn about how humans adapted to their environments as they transitioned from hunting and gathering to agriculture and complex societies, with a particular focus on complex trait evolution.

The postdoctoral candidate will be co-advised by Fernando Racimo (University of Copenhagen) and Rasmus Nielsen (UC Berkeley). The candidate will have some freedom to design their project in consultation with the advisors, and the project can range from theoretical methods development to empirical data analysis. Research topics can include: 1) Utilizing trait-association data from metabolic, neurological and anthropometric studies to learn about the evolution of complex traits in ancient genomes from the Paleolithic, Neolithic, Bronze Age and Iron Age; 2) Developing methods to detect genes under positive selection when working with multiple populations related to each other in complex ways; 3) Searching for functional variants that were positively selected in humans over time during major cultural transitions, like the advent of agriculture; 4) Testing among different models of evolution on trait-associated variants over time.

The fully-funded position is for 3 years, and the project will be carried out at the new Lundbeck Foundation Centre for GeoGenetics, a unique center of research

excellence in Denmark, with the aim to understand the evolution of complex traits and diseases using ancient DNA. The Centre is located in the newly created Globe Institute at the Faculty of Health and Medical Sciences. The candidate will have the opportunity to collaborate with leaders in the fields of paleogenomics, population genetics and medical genetics, including Martin Sikora, Morten Allentoft, Richard Durbin, Eske Willerslev, Thomas Werge and Laurent Excoffier.

For more information about the Racimo group, click here: <https://sites.google.com/site/fernandoracimo/> Qualifications

The candidate will have a MD, PhD, or equivalent doctorate, with a strong background in one or more of the following areas: population genetics, human genetics, genomics, computational biology, bioinformatics, machine learning, data science, mathematics and/or statistics. The ideal candidate will demonstrate a working proficiency in programming and statistical computing (e.g. experience in Python, R, C/C++, Java or Julia) and have experience handling large data sets in the UNIX operating environment.

Salary and terms of employment

The starting date would be 1 September 2020, but is negotiable. Salary, pension and terms of employment will be in accordance with the agreement between the Danish Ministry of Finance and AC (Danish Confederation of Professional Associations). Currently, the monthly salary starts at 34,360 DKK/ approx. 4,590 Euro (October 2019-level). Depending on qualifications, a supplement may be negotiated. The employer will pay an additional 17.1 % to your pension fund.

Non-Danish and Danish applicants may be eligible for tax reductions, if they hold a PhD degree and have not lived in Denmark the last 10 years. The position is covered by the \$B!H(BMemorandum on the Job Structure of Academic Staff at Universities of 11 December 2019“.

Application

The application, in English, must be submitted electronically via this link: <https://employment.ku.dk/faculty/?show=151105> Please include: - Cover letter (half to one page) - Curriculum vitae - Diplomas (PhD degree or equivalent) - Description of current research - Complete publication list - Contact details of two people for references

Application deadline: 15 March 2020, 23.59pm CET

For further information please contact Assist. Prof. Fernando Racimo: fracimo@sund.ku.dk

You can read about the recruitment process at <https://employment.ku.dk/faculty/recruitment-process/> Fer-

nando Racimo <fernandoracimo@gmail.com>

UCSanDiego ViralSpeciation

Postdoc position studying viral speciation

* Use synthetic biology technologies to measure a viral fitness landscape that leads to speciation

*Experimentally test the roles genetic architecture, gene flow, and resource competition play during speciation

Recent bioinformatic analyses have found that viruses, like cellular life, form into species according to the Biological Species Concept (1). This finding is remarkable because it suggests that a single universal species concept can be applied to all life forms and that there are universal principals governing the evolution of biodiversity through the process of speciation. This discovery also opens new opportunities to interrogate the process of speciation. Viruses rapidly evolve and even their speciation can be observed in action during the course of laboratory experiments. This provides researchers a new opportunity to run controlled experiments on the speciation process. In a paper published by Science in 2016, we showed that bacteriophage lambda rapidly speciates, even under sympatric conditions (2). Now we plan to continue this research supported by the National Science Foundation. There is a postdoc position available to use a new technology called MAGE-Seq to measure the structure of lambda's fitness landscape and to computationally simulate evolution on that landscape (3). Additional computational and lab-based experiments are proposed to test the roles genetic architecture, gene flow, and resource competition play on speciation.

1) DOI: 10.1073/pnas.1717593115

2) DOI: 10.1126/science.aai8446

3) DOI: 10.1016/j.cels.2016.11.004

Location: UC San Diego, Division of Biological Sciences, Justin Meyer laboratory

To apply, send Justin Meyer (jrmeyer@ucsd.edu) your CV and a brief description of your experience with, 1) experimental evolution, 2) bioinformatics, 3) population genetic simulations, 4) synthetic biology, and 5) phage research. Experience in these areas is not required.

Justin Meyer <jrmeyer@ucsd.edu>

UDebreceen ShorebirdBreedingSystemEvol

Post-doc Position at University of Debrecen, Hungary
ÁLVONAL (cutting edge) - Breeding system evolution in shorebirds

Our team is carrying out a 5-year project focusing on breeding system evolution through the use of behavioural, genomic and demographic approaches. The project uses shorebirds (i.e., plovers, sandpipers, and allies) as model organisms since they exhibit an unusual diversity of mating systems and parental care (see references). The need recently emerged for a post-doctoral position.

This job offers a great opportunity for a post-doc who wants to combine fieldwork with cutting-edge evolutionary and behavioural science, and establish herself/himself in an emerging field of organismal biology. The main tasks are to carry out and supervise field studies, primarily in Madagascar and elsewhere (see <https://elvonalshorebirds.com/>). We seek candidates with experience in sexual selection, mating systems and reproductive strategies and field biology (preferable with birds), and skills in behavioural analyses and population demography. Publications in top peer-reviewed journals, excellent communication skills, and database handling are essential. The position will be based in Debrecen and the data analyses will be carried out jointly with Prof Robert Freckleton (University of Sheffield), Prof Oliver Kruger (University of Bielefeld) and Dr Brett Sandercock (Norwegian Institute for Nature Research). This is a full-time position and the salary will be above the normal Hungarian level (up to 1500 EUR, depending on experience). Note that the cost of living in Hungary is substantially less than in the US or Western Europe. The position is initially for 1 year (subject to probation period) with the possibility of extension. See further specifications below.

***Application deadline is 29 February 2020. ***

The application should include a (1) max two pages cover letter, (2) CV with list of publications, and (3) the name and contact details of two academic referees. French speakers are especially encouraged to apply. The applications should be emailed to Ms Fanni Takacs fannitakacs.94@gmail.com Interviews will be in early March and the position is available from 1 April 2020.

Applications from women and minority candidates are welcome.

Debrecen is the second largest city in Hungary and has a lively university community. The University of Debrecen was established in 1538, and it is one of the prestigious universities in Central Europe. The university has over 4000 students - many are from abroad. The Dept. of Evolutionary Zoology and Human Biology is one of the leading departments in natural sciences. Debrecen Airport has connections with some of the main European airports. Debrecen's surrounding has impressive wildlife and landscape that include Hortobágy National Park, a UNESCO-recognised protected area. See details at https://en.wikipedia.org/wiki/University_of_Debrecen <http://zoology.unideb.hu/home/> https://en.wikipedia.org/wiki/Hortob%C3%A1gy_National_Park Selected publications - Eberhart-Phillips, L. J. et al. 2017. Adult sex ratio bias in snowy plovers is driven by sex-specific early survival: implications for mating systems and population growth. *Proceedings of The National Academy of Sciences of the United States of America* 114: E5474-E5481. - Kubelka, V., M. Áálek, P. Tomkovich, Zs. Végvári, R. Freckleton & T. Székely. 2018. Global pattern of nest predation is disrupted by climate change in shorebirds. *Science* 362: 680-683. - Liker, A., R. P. Freckleton & T. Székely. 2013. The evolution of sex roles in birds is related to adult sex ratio. *Nature Communications* 4: 1587. - Vincze, O. et al. 2016. Parental cooperation in a changing climate: fluctuating environments predict shifts in care division. *Global Ecology and Biogeography* 26: 347-358.

Further specifications of the position Employer: University of Debrecen, Dept. of Evolutionary Zoology & Human Biology, University of Debrecen, H-4032, Egyetem tér 1, Hungary

Job description - The post-doc will carry out research in shorebird populations included in the ELVONAL project (Madagascar and possibly elsewhere) in regards to mating system and parental care - coordinate research associated with the ELVONAL project: supervise PhD students and research assistants, and coordinate research with external collaborators - coordinate behavioural recording, data analyses, and preparations of manuscripts for publication within the broad fields of sexual selection, mating systems and/or evolutionary demography - present the results at conferences and research seminars, and promote the results of the ELVONAL project

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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>

UGothenburg 4 EvolBiol

Hello,

We have 4 job adverts out: 3 post docs and 1 researcher that we hope are suitable for the evoldir postdocs/jobs listings. Below is the brief info, please let me know if you need more details.

RESEARCHER in computational biology / molecular phylogenetics for the project "online phylogenetics" (permanent, with 4 years of funding, prolongation after that dependent on own funding), University of Gothenburg :

https://www.gu.se/english/about_the_university/job-opportunities/vacancies-details/?id=5426&fbclid=IwAR3MBKijEsBdIMmeqa9V5KeYmQuGHEf2i_uge7K1QgSvKKymXTva6bGbak

POST-DOC in biodiversity: design your own project (2 years), University of Gothenburg : https://www.gu.se/english/about_the_university/job-opportunities/vacancies-details/?id=5427&fbclid=IwAR2DLPoncMT874Spl_MHASaplnFke8lldE5qZInFbWgmmBacggA

POST-DOC in wood identification (2 years) at Kew Gardens, London : https://careers.kew.org/vacancy/postdoctoral-researcher-wood-identification-413322.html?fbclid=IwAR1ndiHOBa_VJ6BDIxLaU1XQGx7OPY3yFT6tf9efc9aE8TWaMbg

POST-DOC in domestication of the Coca tree (2 years) at Kew Gardens, London : <https://careers.kew.org/vacancy/postdoctoral-researcher-domestication-of-the-coca-tree-413341.html?fbclid=IwAR32YuMkKhWWsZjEqQtd6giMNlanCOqB6fkAA5-cuUsXMOu8Yck6Ru3pMXU> Best, Allison

Allison Perrigo, PhD

Director, Gothenburg Global Biodiversity Centre

Project Manager, Antonelli Lab allison.perrigo@bioenv.gu.se Carl Skottsbergs gata 22 B 413 19 Göteborg

Find us on social media:

Twitter: @GGBC_GU; @antonelli_lab

Instagram: @antonelli_lab

Facebook: GGBC

Allison Perrigo <allison.perrigo@bioenv.gu.se>

U Gothenburg Modelling Marine Species Ranges

Dear All,

At the Department of Marine Sciences, University of Gothenburg, we have an exciting Postdoc position “Modelling Species’ Range Expansions in Marine Environments”. The position is for 2 years. The deadline for applying is April 30, 2020.

Please find more information at

https://www.gu.se/english/about_the_university/-job-opportunities/appeals Yours sincerely, Marina Rafajlovic

Marina RafajloviÄ Assistant Professor/Forskarassistent
UNIVERSITY OF GOTHENBURG Department of Marine Sciences

Visiting address: Carl Skottbergsgata 22 B,
room 5119 Postal address: Box 461, 405 30
Gothenburg Mobile: +46 76 580 4288 ma-
rina.rafa.jlovic@marine.gu.se www.marine.gu.se
Marina Rafajlovic <marina.rafa.jlovic@marine.gu.se>

U Lausanne Evolutionary Genomics

Postdoctoral position in evolutionary genomics, social supergene evolution, University of Lausanne

A Postdoctoral position in evolutionary genomics is available in the group of Prof. Michel Chapuisat at the Department of Ecology and Evolution, University of Lausanne, Switzerland. The group studies social evolution. We are currently investigating the evolution and maintenance of a supergene controlling social organization in ants. Our approach combines genomics, genetics, behavioral experiments and ecological surveys in the field. For more information, see <http://www.unil.ch/-dee/page7000.html> . Your responsibilities: You will study the genomic evolution of a supergene controlling social organization in Formica ants. You will contribute to analyze an existing data set, which includes chromosome-level genome assembly, re-sequencing data

and RNA-seq data. The project will then be extended towards populations genomics, transcriptomics or comparative genomics, depending on your interests and background. There will also be scope to accommodate personal ideas or projects.

Your qualifications: We are seeking to recruit an early carrier post-doctoral researcher with a PhD degree in evolutionary biology, genomics, bioinformatics or related fields. The ideal candidate should have skills and experience in one or more of the following fields: comparative genomics, population genomics, molecular evolution, transcriptomics. The candidate should have a convincing publication track-record, excellent inter-personal skills and a strong ability to work in a team.

What the position offers you: We offer a nice working place in a multicultural, diverse and dynamic academic environment, with opportunities for professional training. The Department of Ecology and Evolution in Lausanne University hosts research groups working on a broad range of topics, producing a rich intellectual and social life. Although French is the common language in Lausanne region, the department research activities and seminars are conducted in English. The University of Lausanne offers state-of-the-art facilities, including excellent computer facilities and molecular labs.

Contact for further information: Prof. Michel Chapuisat: Michel.Chapuisat@unil.ch

Your application: Deadline: 24.02.2020. Incoming applications will continue to be considered until the position is filled. To apply, please upload a single pdf document containing: a cover letter with a short description of your research interests, research experience, and why you are interested in joining our group; Your CV; The contact details of 2-3 referees; A copy of your PhD degree. Ideally, you should have received your PhD within the last 3 years or be about to obtain it in the next six months.

To receive full consideration, application documents should be uploaded online through the University of Lausanne recruitment platform. Please apply through this webpage: <https://bit.ly/2Sid1Go> Michel Chapuisat <michel.chapuisat@unil.ch>

ULausanne PDF PhD SocialEvolution

PhD position in evolutionary biology, social supergene maintenance, University of Lausanne

A Ph.D. position in evolutionary biology is available in the group of Prof. Michel Chapuisat at the Department of Ecology and Evolution, University of Lausanne, Switzerland. The group studies social evolution. We are currently investigating the evolution and maintenance of a supergene controlling social organization in ants. Our approach combines genomics, genetics, behavioral experiments and ecological surveys in the field. For more information, see <http://www.unil.ch/dee/page7000.html>. Animal societies vary greatly in social organization, yet the genomic, behavioral and ecological processes causing this diversity are poorly understood. The Alpine silver ant *Formica selysi* provides an ideal system to study the evolution of alternative social organization, because a supergene 'V a large group of linked genes 'V determines whether the colony has one or multiple queens. The successful candidate will perform experiments to better understand the genomic, behavioral and/or ecological factors contributing to the maintenance of this social polymorphism.

Your qualifications: In order to complete our team, we are looking for someone with a Master's degree in biology, life sciences, genetics, bioinformatics, or related subjects. Applicants should have knowledge and skills pertaining to evolutionary biology, genetics, genomics, behavior or ecology. We are looking for a creative, curious and motivated person with excellent communication and interpersonal skills.

What the position offers you: We offer a nice working place in a multicultural, diverse and dynamic academic environment, with opportunities for professional training. The Department of Ecology and Evolution in Lausanne University hosts research groups working on a broad range of topics, producing a rich intellectual and social life. Although French is the common language in Lausanne region, the department research activities and seminars are conducted in English. The University of Lausanne offers state-of-the-art facilities, including excellent computer facilities and molecular labs.

Contact for further information: Prof. Michel Chapuisat :Michel.Chapuisat@unil.ch

Your application:

Deadline:24.02.2020.

Incoming applications will continue to be considered until the position is filled. To apply, please upload a single pdf document containing: a cover letter with a short description of your research interests, research experience, and why you are interested in joining our group; Your CV; The contact details of 2-3 referees; A copy of your Master degree; Your Master's thesis summary.

To receive full consideration, application documents should be uploaded online through the University of Lausanne recruitment platform. Please apply through this webpage:<https://bit.ly/31vIvgh> ****

Postdoctoral position in evolutionary genomics, social supergene evolution, University of Lausanne

A Postdoctoral position in evolutionary genomics is available in the group of Prof. Michel Chapuisat at the Department of Ecology and Evolution, University of Lausanne, Switzerland. The group studies social evolution. We are currently investigating the evolution and maintenance of a supergene controlling social organization in ants. Our approach combines genomics, genetics, behavioral experiments and ecological surveys in the field. For more information, see <http://www.unil.ch/dee/page7000.html>. Your responsibilities: You will study the genomic evolution of a supergene controlling social organization in *Formica* ants. You will contribute to analyze an existing data set, which includes chromosome-level genome assembly, re-sequencing data and RNA-seq data. The project will then be extended towards populations genomics, transcriptomics or comparative genomics, depending on your interests and background. There will also be scope to accommodate personal ideas or projects.

Your qualifications: We are seeking to recruit an early carrier post-doctoral researcher with a PhD degree in evolutionary biology, genomics, bioinformatics or related fields. The ideal candidate should have skills and experience in one or more of the following fields: comparative genomics, population genomics, molecular evolution, transcriptomics. The candidate should have a convincing publication track-record, excellent inter-personal skills and a strong ability to work in a team.

What the position offers you: We offer a nice working place in a multicultural, diverse and dynamic academic environment, with opportunities for professional training. The Department of Ecology and Evolution in Lausanne University hosts research groups working on a broad range of topics, producing a rich intellectual and social life. Although French is the common language in

Lausanne region, the

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UMaine WildlifeDiseaseGenomics

Title: Postdoctoral Research Associate - Wildlife Disease Genomics

Location: University of Maine, Orono

Description: An NSF-funded postdoctoral research position is available in the Wildlife Disease Genetics Laboratory at the University of Maine (<https://kamathlab.weebly.com/>) to study the ecology and evolution of infectious diseases, focused on anthrax in herbivorous wildlife in Namibia and South Africa. The postdoc will join an international, interdisciplinary team, and will work closely with the PI (Dr. Pauline Kamath), collaborators, and students to design and lead research both in the lab and field. The successful candidate will integrate genomic and ecological data to examine genome to disease phenotype relationships in wildlife hosts, but will also have the flexibility to pursue related questions in the general areas of host-pathogen evolution and disease transmission in wildlife-disease systems.

Required Qualifications:

- Ph.D. (or equivalent) in ecology, evolution, epidemiology, microbiology, genomics, or a related discipline by the start date of the appointment. - Strong quantitative and writing skills - Experience in applying genetic approaches to ecological datasets

Preferred Qualifications:

- Strong publication record in disease ecology and evolution - Demonstrated skills in genomics, bioinformatics, and statistical analyses - Experience in laboratory management - Experience working in diverse teams - Experience in mentoring students

Duration and Salary: Expected start date of position is July 1, 2020, but can be flexible. Funding is available for 1 year (renewable up to 3 years, depending on funding and successful performance). Typical salary for this position is \$45-47K (with benefits), commensurate with experience and qualifications.

For further details, and to apply: <https://umaine.hiretouch.com/job-details?jobID=61026&job=postdoctoral-research-associate-in-wildlife-disease-genomics> Review of applications will begin on March 30, 2020, and will continue until the position is filled.

- Pauline L. Kamath, Ph.D. Assistant Professor of Animal Health Animal and Veterinary Sciences School of Food & Agriculture 5735 Hitchner Hall, Rm 342 University of Maine Orono, ME 04469-5735 Phone: +1 207-581-2935 Email: pauline.kamath@umaine.edu Website: <https://umaine.edu/foodandagriculture/kamath2/> Website: <https://umaine.edu/foodandagriculture/kamath2/>

UMarylandBaltimoreCounty EvolutionaryBiology

The Department of Biological Sciences at the University of Maryland Baltimore County (UMBC) invites applications for the Natural Sciences Pre-Fellowship with a planned transition to a tenure-track Assistant Professor position upon successful completion of the two year program. The purpose of the Program is to support promising scholars who are committed to diversity in academia. We particularly invite applications from members of groups historically underrepresented in the professoriate. Candidates with research and teaching interests in all areas of Biological Sciences will be considered. Evolutionary biologists are especially encouraged to apply and join the following faculty in Ecology & Evolution:

Mercedes Burns, evolutionary genomics of sex in harvestmen Tom Cronin, visual ecology in everything Jeff Leips, evolutionary genetics of life history traits in Drosophila Bernie Lohr, acoustic communication in sparrows Tamra Mendelson, mate choice and speciation in darter fish Kevin Omland, systematics and conservation ecology in birds

The fellow will be appointed as a Research Assistant Professor for a two-year term beginning August 17, 2020. The fellow will receive a starting stipend of \$54,000, health benefits, \$5,000 for conference travel and preparation of scholarly work, up to \$5,000 in instrument services, up to \$10,000 for supplies, lab space, office space with computer, library access, and other privileges at the university. During the two-year term of appointment, the fellow's time will be mostly devoted to pursuing research but will also involve participation

in the National Science Foundation's Alliances for Graduate Education and the Professoriate (AGEP) funded PROMISE postdoctoral program. In addition, the fellow will teach one course (one semester only) per year. Highly experienced research and teaching mentors will meet with the fellow regularly to provide guidance on developing a pedagogically sound teaching philosophy and plan, and improving the skills needed to pursue an academic research career, including proposal and manuscript writing, and technical presentation skills. The fellow will benefit from many other professional development opportunities across the campus.

UMBC is a national model for diversity and inclusive excellence in STEM through its Meyerhoff Scholar (<http://meyerhoff.umbc.edu/>) and Graduate Fellows programs (<http://meyerhoffgrad.umbc.edu/>), two of the most innovative and successful programs in promoting diversity and preparing students from underrepresented groups for careers in STEM. With many of the Meyerhoff scholars pursuing undergraduate and graduate studies in Biological Sciences, our faculty play a key role in mentoring and developing the next generation of diverse professional workforce in STEM. The Department of Biological Sciences is a research-intensive department with thriving graduate and undergraduate programs (<http://biology.umbc.edu>). Our faculty are engaged in cutting-edge research, which attracts major federal, state, and private funding.

Candidates will be selected on the basis of scholarly promise and the potential to contribute to the diversity of the UMBC community. Applicants must have completed their doctoral degree when the term of appointment commences (August 17, 2020).

Application Instructions: to apply, please visit <http://apply.interfolio.com/73276> Deadline: Full consideration will be given to those applicants who submit all materials to <http://apply.interfolio.com/73276> by MARCH 15, 2020.

Questions regarding the program may be addressed to: Dr. Rachel Brewster, brewster@umbc.edu, however all application materials MUST be submitted through Interfolio. The University of Maryland Baltimore County is an Equal Opportunity Employer/Affirmative Action. UMBC is the recipient of an NSF ADVANCE Institutional Transformation Award to increase the participation of women in academic careers.

Tamra C. Mendelson, Ph.D. Professor and Associate Chair Department of Biological Sciences University of Maryland Baltimore County tamram@umbc.edu - www.mendelsonlab.net Tamra Mendelson <tamram@umbc.edu>

UMaryland Malaria Population Genetics

CENTER FOR VACCINE DEVELOPMENT AND
GLOBAL HEALTH

INSTITUTE FOR GENOME SCIENCES

A POSTDOCTORAL FELLOW position is currently open to work on a collaborative project between investigators in the Center for Vaccine Development and Global Health and the Institute for Genome Sciences at the University of Maryland School of Medicine. The project integrates malaria population genomics with geospatial analyses of local human mobility to understand malaria parasite population structure and demography and to define geographical areas for targeted elimination interventions.

The ideal candidate will have:

- PhD with expertise in the areas of Bioinformatics, Evolutionary and Population Genetics, Statistics, Computer Science, or related fields.

- Publication record commensurate with experience

- Strong computational and programming skills (Python/R)

- Demonstrated ability to work with others

- Experience working with large data sets is preferred

The successful candidate will benefit from a multidisciplinary community of interactive researchers, including both clinical and basic scientists, international collaborators from malaria endemic areas, as well as bioinformatics, sequencing, and computational resources available at University of Maryland School of Medicine.

To apply, please send a CV, a statement of research interests (2 pages maximum), and contact information for three references to either Shannon Takala Harrison (stakala@som.umaryland.edu) or Tim O'Connor (timothydoconnor@gmail.com).

Consideration of candidates will begin upon receipt of applications and will continue until the position is filled. AA/EOE/ADA

Timothy D. O'Connor, PhD Assistant Professor Institute for Genome Sciences and the Department of Medicine University of Maryland School of Medicine 670 W. Baltimore Street, Rm 3181

Baltimore, MD 21201 Google Voice (Cell): 443-681-9995 Office: 410-706-6784 Skype: timothydoconnor
 Twitter: @OcOutlier <https://sites.google.com/view/oconnorgroup> <http://www.medschool.umaryland.edu/profiles/OConnor-Timothy/> Timothy O'Connor
 <timothydoconnor@gmail.com>

UMelbourne Macroevolution

UMelbourne.BehaviourandMacroevolution Postdoctoral Fellowship The School of BioSciences at the University of Melbourne is seeking a Research Fellow with expertise in behavioural ecology and/or macroevolution. The Research Fellow will work closely with Dr Iliana Medina on research aligned with the Australian Research Council (ARC) funded project 'The role of enemies in the generation of biodiversity', which explores the role of warning signals as drivers of divergence and speciation. You will work with a team of researchers and postgraduate students and contribute actively to the dynamic intellectual environment of the host group and School more broadly. You will be encouraged to develop your own research program and collaborate with researchers within the University and other research institutions.

Link: <http://jobs.unimelb.edu.au/caw/en/job/902267/-research-fellow-in-evolutionary-ecology> Iliana Medina Guzman <iliana.medina@unimelb.edu.au>

UNSW Australia TransgenerationalEffect

Postdoc on Trans-generational Effect, UNSW, Sydney, Australia

~2 Year Postdoc job at <http://i-deel.org> at School of BEES, UNSW (<https://www.bees.unsw.edu.au/>)

Join our lab (preferred start: 1 June 2020 - finish: 30 May 2022) - a potential extension of 1 year depending on performance & further funding.

Please apply here:

<https://careersmanager.pageuppeople.com/841/cw/en/-job/499263/postdoctoral-research-associate> Deadline: March 25th 2020

Any questions: please contact Shinichi Nakagawa (s.nakagawa@unsw.edu.au)

Professor Shinichi Nakagawa

Deputy Director of Research, Evolution & Ecology Research Centre, EERC (Visiting Scientist at Garvan Institute of Medical Research) Room 5102, Biological Sciences Building (E26) School of Biological, Earth and Environmental Sciences, BEES The University of New South Wales Randwick NSW 2052, Sydney, Australia Mobile: 0422 655 854 Office: 0293 859 138

Website:<http://www.i-deel.org/> Shinichi Nakagawa <s.nakagawa@unsw.edu.au>

UPennsylvania HumanPopulationGenetics

The Mathieson lab is searching for 1-2 postdoctoral researchers to work on projects using both ancient and modern DNA to investigate the evolution and architecture of complex traits in humans, in two broad areas:

1) Using ancient DNA to detect selection on complex traits. Can we develop methods to detect selection in ancient DNA? How did humans adapt to the agricultural transition? What is the role of polygenic adaptation in human evolution? How can we integrate genetic, archaeological and anthropological data?

2) Understanding the use and transferability of polygenic risk scores. Why do PRS not transfer across populations? Can we improve on the design of PRS? How do population structure, selection and demographic history affect PRS?

We are also very open to suggestions for other research projects in the broad area of human population and statistical genetics, including demographic inference, mutation rate evolution and analysis of biobank data.

Researchers with interest or experience in human genetics and a PhD in computational biology, computer science, statistics, population/statistical genetics, or another relevant field are encouraged to apply. Programming experience (ideally in R or Python) is required, and some experience with ancient DNA, genome-wide association studies, statistical/population genetics or machine learning would be helpful but not necessary.

Start date is ideally Summer or Fall 2020, but is flexible.

To apply, please email your CV with contact details of 2-3 references, and a brief description of your research interests to Iain Mathieson (mathi@pennmedicine.upenn.edu). Please also feel free to contact me with informal enquires.

Iain Mathieson

“Mathieson, Iain” <mathi@pennmedicine.upenn.edu>

Uppsala Sweden EvolutionaryGenetic

Postdoc position in Plant Evolutionary Genetics

A postdoctoral position in evolutionary genetics is currently available in the Plant Developmental Genetics and Evolution group < <https://sicardlab.wordpress.com/> > at the Swedish University of Agricultural Sciences in Uppsala. The main focus of the project is to use a combination of genetics, ecological and genomics approaches to understand the ecological and genetic drivers of flower size evolution in plants.

Qualifications: Applicants are required to hold a PhD, preferably in plant ecology, plant genetics, genomics, evolutionary biology or related topics. The candidate should have proven expertise in genetics or ecology and have prior practical experience in the analysis of large nucleotide sequence datasets. Candidates should also have an ability to conduct independent research, take initiative, and interact with other scientists. Excellent English communication and writing skills are expected.

Position: The position is funded by the Swedish Science Foundation full-time (100%) and available from April 2020 (the starting date can be discussed). The position is for initially 2 years.

Applications: Applications must contain (1) CV with full publication list, (2) a description of research experiences, (3) contact information of two to three referees. Please send your application to adrien.sicard@slu.se before the 22th of March 2020. Informal inquiries are also welcome.

Environment: The group of Developmental Genetics and Evolution is located in the department of Plant Biology < <https://www.slu.se/en/departments/plant-biology-forest-genetics/> > at Swedish Agricultural University in the Ultuna Campus, Uppsala. The department focusses on plants, but other organisms such as virus, bacteria, fungi, insects, yeast cells and even human

cells are also studied. The department belongs to the Linnean Centre Plant Science < <https://lcpu.se/> > in Uppsala. The research topics at the department and Linnean Centre for are highly diverse and include: the interaction between plants and microorganisms, stress biology; biotechnology, Metabolic engineering; developmental genetics; the regulation of gene expression; evolutionary biology, ecology, population genetics, genome analysis and Crops genetics. The department is responsible for advanced courses in molecular genetics, gene technology, cell biology, plant physiology, gene expression, plant breeding, plant biochemistry, biotechnology and genomics. The working atmosphere is highly international and offers exciting opportunities for scientific exchange. Uppsala is a lively university city, conveniently located close to Stockholm (40 minutes by train) and Stockholm’s main international airport (20 minutes by train).

Dr. Adrien Sicard Swedish University of Agricultural Sciences Uppsala BioCenter PO-Box 7080 Almas Allé 5 SE-75007 Uppsala, Sweden Room D450 Tel. +46 18 67 3324

— När du skickar e-post till SLU sÅ¥ innebÅ¥r detta att SLU behandlar dina personuppgifter. FÅ¥r att lÅ¥sa mer om hur detta gÅ¥r till, klicka hÅ¥r < <https://www.slu.se/om-slu/kontakta-slu/personuppgifter/> > E-mailing SLU will result in SLU processing your personal data. For more information on how this is done, click here < <https://www.slu.se/en/about-slu/contact-slu/personal-data/> >

Adrien Sicard <adrien.sicard@slu.se>

USaoPaulo EndangeredSpeciesConservation

I would appreciate your help for announcing a Postdoc position for Generation of iPS from Endangered Species at SÅ¥o Paulo and SÅ¥o Paulo State Universities, Brazil as follow:

PD fellowship opportunity in Generation of induced pluripotent cells from Endangered Animal Species.

The Deer Research and Conservation Center (NU-PECCE) under coordination of professor Jose Mauricio Barbanti Duarte from the Animal Science Department of the SÅ¥o Paulo State University, and the Research Group for Bird Propagation (GEMA) under coordination of professor Ricardo JosÅ¥ Garcia Pereira from the Department

of Animal Reproduction of the São Paulo University, participate in the FAPESP Thematic Project “Evaluation, recovering and conservation of the endangered fauna of the Pernambuco Endemism Center (CEP)”, which is coordinated by Luis Fabio Silveira (MZUSP, São Paulo), and offers a postdoctoral fellowship for a foreign or Brazilian candidate, who has completed a doctorate not more than six years before the start of the scholarship, to develop activities of “Use of fibroblast cryobanks for conserving endangered animal species of the CEP”, which has as specific objectives:

- To develop media for animal cell cryopreservation;
- Rescue e culture frozen cells from a variety of biological materials (skin, feathers, fur, etc);
- To implement protocols for the production of induced pluripotent cells from these cell cultures;
- To perform different pluripotency tests including gene and protein expression, and cellular differentiation.

This opportunity is open to highly qualified Brazilians and foreigners. The candidate should preferably have training in the area either of Biomedicine, Biochemistry, Genetic, Biology or Veterinary Medicine, satisfactory CV and scientific knowledge in the research area of the scholarship. It is essential the candidate to be fluent in English, to have a satisfactory knowledge of Portuguese, to exhibit the ability to write scientific articles, and readiness to reside in Jaboticabal during the first year and in São Paulo for the second and third years (both cities are located in São Paulo State, Brazil). The selected candidate will be involved in the planning and execution of the research activities mentioned in this notice and will also work in the administration of the laboratory and co-orientation of graduate and undergraduate students. The professional should be familiar with bibliographic search tools, know how to plan and conduct experiments independently. Among the knowledge and techniques necessary for the development of this project we emphasize:

1. Large practice in cell freezing and culturing;
2. Wide knowledge and capability in cellular biology (immunofluorescence, immunohistochemistry, cell cytometry, etc);
3. Recognized experience in molecular biology (PCR, RT-PCR, qRT-PCR, oligonucleotide design and molecular cloning).

Contract period and start of work: The scholarship lasts until 24 months, with the possibility of extension for another 12 months). The forecast is to begin in June 2020.

Values and conditions: 1. Monthly income (free of taxes)

of R\$ 7,373.10 (Brazilian currency), plus 15% of the annual value for expenses related to research (Technical Reserve); 2. Financial support for travel and installation expenses may be requested for selected applicants and the merits will be analyzed by FAPESP upon acceptance of the concession; 3. The candidate must have completed a doctorate not more than six years before the start of the scholarship; 4. The scholarship requires full dedication to the research project (except under the conditions described in resolution PR 13/2009 of July 15, 2009); 5. The grantee may not have any formal or informal employment, nor receive, during the period of the fellowship, a scholarship from another entity, salary or remuneration derived from the exercise of activities of any nature. 6. For the implementation of the scholarship the selected candidate must present all the documentation required by FAPESP; For more details, go to: <http://www.fapesp.br/270> . How to apply: The submission deadline is April 30, 2020. Registration exclusively by email (barbanti@fcavj.unesp.br). Include the subject “Postdoctoral ARCA project”, followed by your name, and send the following files in PDF format:

1. An English text with a maximum of 2 pages explaining your motivations to work on this project;
2. Summarized CV (maximum 3 pages), including published papers attesting to the capacity to carry out the project;
3. Two letters of recommendation from researchers who should send them directly to the email above.

Selection: The selection will be made based on the candidate’s CV (experience in the research area of the project and quality of the publications) and in the letters of motivation and

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UTartu 2 EvoGenomics Bioinformatics

* Research Fellow of Evolutionary Genetics at cGEM, Institute of Genomics, University of Tartu, Estonia *

Deadline: 03.03.2020

Who do we need? We are looking for a motivated Postdoctoral Research Fellow with a PhD in archaeology, genetics and/or bioinformatics or related fields who is interested in being part of the cGEM research group (<http://cgem.ut.ee>) (supervisors Michael Dannemann, Anders Eriksson). The goal of the postdoc's work is to establish a link between genetic adaptations and environmental and cultural changes in human populations of West Eurasia during the last 20,000 years, a time period that covers major shifts in climate, diet and pathogen exposures in this region. Additionally, with some of the genetic variation in present-day non-Africans being inherited from admixture with Neandertals ~55,000 years ago, the work will further investigate which role this admixture has played in shaping these adaptive processes.

What do we offer? We offer a full-time position starting from 01.05.2020, with a temporary contract until 31.08.2023.

Who are we? The Institute of Genomics was formed in 2018 through a merger of the Estonian Genome Centre and the Estonian Biocentre bringing together world class expertise in medical, population and evolutionary genomics. We host the Estonian Biobank (www.biobank.ee) which has 200 000 participants and is connected to national health registries for phenotypic information. We run a brand-new ancient DNA laboratory, a core facility for DNA/RNA sequencing and genotyping and have access to a High Performance Computing centre (www.hpc.ut.ee). We publish widely in top journals and sport a vibrant and international research community of 70 researchers and students. The Centre of Genomics, Evolution and Medicine (cGEM) was founded in 2018 with the aim to develop an interdisciplinary centre with world-leading expertise in personalized medicine to manage the risks, prevention, and diagnostics of diseases for contemporary populations by considering the unique evolutionary history of the human genome.

How to apply? Applications should include a letter of application, CV, motivation letter, list of research publications, contacts of two references and a copy of a document which shows the candidate to hold the required qualification, other materials considered relevant by the candidate. In your publication list, please explain briefly the relevance of your most important work.

Further Information: <https://www.ut.ee/en/welcome/-job-offer/research-fellow-evolutionary-genetics> —

* Research Fellow of Bioinformatics and Medical Genomics at cGEM, Institute of Genomics, University of Tartu, Estonia *

Deadline: 03.03.2020

Who do we need? We are looking for a motivated Postdoctoral Research Fellow with a PhD in human genetics, bioinformatics, cell biology, medical genomics or related fields who is interested in being part of the cGEM research group (<http://cgem.ut.ee>) (supervisors ToInis Org, Georgi Hudjaslov, Irene Gallego Romero and Anders Eriksson). The postdoc's work will focus on genetic adaptations to environmental and cultural changes in human populations of West Eurasia during the last 20,000 years, a time period that covers major shifts in climate, diet and pathogen exposures in this region. The main aim of the project is to investigate how recent genetic evolution has shaped variation in immune system and inflammation signalling and the way these systems interact with environmental factors such as biomolecules from food, pathogens and modern artificial substances.

What do we offer? We offer a full-time position starting from 01.05.2020, with a temporary contract until 31.08.2023.

Who are we? The Institute of Genomics was formed in 2018 through a merger of the Estonian Genome Centre and the Estonian Biocentre bringing together world class expertise in medical, population and evolutionary genomics. We host the Estonian Biobank (www.biobank.ee) which has 200 000 participants and is connected to national health registries for

phenotypic information. We run a brand-new ancient DNA laboratory, a core facility for DNA/RNA sequencing and genotyping and have access to a High Performance Computing centre (www.hpc.ut.ee). We publish widely in top journals and sport a vibrant and international research community of 70 researchers and students. The Centre of Genomics, Evolution and Medicine (cGEM) was founded in 2018 with the aim to develop an interdisciplinary centre with world-leading expertise in personalized medicine to manage the risks, prevention, and diagnostics of diseases

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UToronto UrbanBiodiversity

The Centre for Urban Environments (CUE) (www.urbanenvironment.ca) at the University of Toronto Mississauga (UTM) seeks applications for a fully-funded one-year CUE Post-doctoral Fellowship. The topic of research by the CUE post-doc is open to the study on urban environments on any topic in the natural sciences, or research that bridges natural sciences with social sciences and humanities.

Application deadline: April 1, 2020

Start date: Summer/Fall 2020

For more information see: <https://www.utm.utoronto.ca/cue/PDF> Thank you.

sanya.wedemiergraham@utoronto.ca

UVienna 2 EvoDevo

A position is available for a Postdoctoral researcher in molecular evolutionary developmental biology in the working group of Mihaela Pavlicev in the Department of Evolutionary Biology at the University of Vienna. The Pavlicev lab is interested in the interface between development and evolution, specifically in the effect of developmental systems on evolutionary change. We use experimental and theoretical approaches in our work. Evolution of mammalian female reproduction is one of the major research topics in the lab. A successful candidate will have a solid experience in molecular developmental research and strong interest in organismal evolutionary biology. The position offers sufficient freedom and support to progressively establish an own research profile; the development of independent project proposals is encouraged. The environment of the Faculty of Life Sciences and the further evolution-focused institutions located in Vienna offer unique opportunities for intellectual development. The position is available for a maximum of six years.

Applications including a letter of motivation (German or English) should be submitted via the Job Center to the University of Vienna (<http://jobcenter.univie.ac.at>) no

later than 015. 03.2020, mentioning reference number 10436.

For details see the University announcement (<http://jobcenter.univie.ac.at>), for further information please contact mihaela.pavlicev@univie.ac.at.

Mihaela Pavlicev <mihaela.pavlicev@univie.ac.at>

UVienna EvolutionaryCompBiol-Bioinformatics

A position is available for a postdoctoral researcher in evolutionary computational biology evoldir@evol Mihaela Pavlicev in the Department of Evolutionary Biology at the University of Vienna. The Pavlicev lab is interested in the interface between development and evolution, specifically in the effect of developmental systems on evolutionary change. We use experimental and theoretical approaches in our work. Evolution of female reproduction is one of the major research topics in the lab. A successful candidate will have a solid experience using genomic/transcriptomic data and be interested in integrating these in order to ask organismal and evolutionary questions. The position includes teaching as well as involvement in administrative activities and offers sufficient freedom and support to progressively establish an own research program; the development of independent project proposals is encouraged. The environment of the Faculty of Life Sciences and further evolution-focused institutions located in Vienna offer unique opportunities for intellectual development. The position is available for the maximum of six years. Applications including a letter of motivation (German or English) should be submitted via the Job Center to the University of Vienna (<http://jobcenter.univie.ac.at>) no later than 15.03.2020, mentioning reference number 10435.

For details see the University announcement (<http://jobcenter.univie.ac.at>), for further information please contact mihaela.pavlicev@univie.ac.at.

is available for a postdoctoral researcher in evolutionary Mihaela Pavlicev <mihaela.pavlicev@univie.ac.at>

WageningenU EvolutionExtremePhotosynthesis

Post-doc - Evolution, Genetics and Genomics of Extreme Photosynthesis, Wageningen University

We are looking for We are looking an enthusiastic and motivated plant biologist with a PhD who can work in a collaborative and multidisciplinary team. We invite applications from ambitious candidates with relevant research experience and a passion for studying plant evolution using genomic and genetic approaches.

The post-doctoral candidate will be responsible for the project "Evolution, Genetics and Genomics of Extreme Photosynthesis". You will be part of a larger multidisciplinary initiative that will combine genetics, genomics, biophysics, physiology, biochemistry and modelling to understand very high photosynthetic rates in C3 plants. This particular project will investigate how exceptional photosynthetic properties evolved and is regulated in *Hirschfeldia incana*, a wild relative of brassica crops such as *Brassica rapa* and *Brassica nigra*, by combining genomics and phylogenetics (e.g. phylogenomics) and genetic crossing and QTL analyses. If this kind of research would interest you and you enjoy understanding complicated systems then this could be the project for you.

The Graduate School Experimental Plant Sciences and The Biosystematics Group The post-doctoral position will be under the daily supervision of Prof. Eric Schranz in the Biosystematics Group, Wageningen University & Research. The position will be co-supervised by Prof. Mark Aarts (Laboratory of Genetics) and Prof. Dick de Ridder (Bioinformatics group). You will be part of the Biosystematics group, with about 25 employees, including technicians, PhD students, post-docs, junior and senior scientists working on fundamental questions about biological diversity. The Biosystematics Group is part of the Plant Science Group and works closely together with other groups (such as Genetics and Bioinformatics) within Wageningen University. The group research themes are: (1) origin and maintenance of plant and insect biodiversity, (2) speciation, domestication and plant-animal interactions, and (3) applying phylogenetic patterns to test hypotheses on underlying evolutionary processes. The position will be part of The Graduate School Experimental Plant Sciences (EPS). This inter-university Graduate School is a collaborative

research and teaching institution of Wageningen University (WU), Radboud University (RU), Vrije Universiteit Amsterdam (VU), Leiden University (LU), University of Amsterdam (UvA), Utrecht University (UU) and University of Groningen (RUG). The mission of EPS is to organize the training of PhD students and postdocs to become self-reliant researchers.

We ask - a PhD in plant genetics, genomics, phylogenomics, or related fields with an interest in plant adaptation (e.g. photosynthesis); - expertise and experience with generating and analysing plant genetic and comparative genomic datasets; - a collaborative worker with good interpersonal communication skills; - a good command of both spoken and written English language is critical and as demonstrated by published work. This position requires an excellent English language proficiency (a minimum of CEFR C1 level). For more information about this proficiency level, please visit our special language page.

Applications should include: a cover letter including a statement about your motivation to apply and your requirements for the position, curriculum vitae, copies of your University PhD degree and two references.

We offer We offer a meaningful and challenging position with, depending on your experience, a competitive salary from a minimum of '€ 3123 to a maximum of '€ 4274 for a full working week of 38 hours in accordance with the Collective Labor Agreement Dutch Universities. In addition, an appointment of 1.0 FTE is negotiable. The job is for a period of 3 years (1 year after a positive evaluation extension for another 2 years) at an international leading organization. The candidate will be based at the Biosystematics group.

In addition, we offer:

- 8% holiday allowance; - a structural year-end bonus of 8.3%; - excellent training opportunities and secondary employment conditions; - flexible working hours and holidays can possibly be determined in consultation so that an optimal balance between work and private life is possible; - excellent pension plan through ABP; - 232 vacation hours, the option to purchase extra and good supplementary leave schemes; - a flexible working time: the possibility to work a maximum of 2 hours per week extra and thereby to build up extra leave; - a choice model to put together part of your employment conditions yourself, such as a bicycle plan; - a lively workplace where you can easily make contacts and where many activities take place on the Wageningen Campus. A place where education, research and business are represented; - for a small fee, make use of the sports facilities on campus.



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

This message has been arbitrarily truncated at 5000 characters.

Workshops Courses

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Berlin BigDataBiogeography Sep14-18

Dear all,

registrations are now open for the 2nd edition of the Physalia course on Big data Biogeography Species occurrences through space and time.

When: 14-18 September 2020

Where: Free University of Berlin (Germany)

Instructors: Dr. Alex Zizka (German Centre for Integra-

tive Biodiversity Research (iDiv) in Leipzig, Germany) and Dr. Daniele Silvestre (University of Lausanne, Switzerland)

The public availability of large-scale species distribution data has increased drastically over the last ten years. In particular, due to the aggregation of records from museums and herbaria, and citizen science in public databases such as the Global Biodiversity Information Facility (GBIF). This is leading to a 'big data' revolution in biogeography, which holds an enormous but still poorly explored potential for understanding large scale patterns and drivers of biodiversity in space and time.

After this course, students will be able to:

Obtain and prepare large scale species occurrence

records from public databases in R (including data mining, data cleaning and exploration)

Apply novel methods for handling and processing 'big data' in biogeographic research, including area classification, bioregionalization and automated conservation assessments

Reconstruct species ancestral ranges based on species occurrences and phylogenetic trees, using different evolutionary models

Understand the potential and caveats of fossil based biogeography, and be familiar with novel methods to estimate ancestral ranges and evolutionary rates from ranges of extinct and extant taxa

For the full program, please see: (<https://www.physalia-courses.org/courses-workshops/-course48/curriculum48/>)

Here is the full list of our courses and Workshops: (<https://www.physalia-courses.org/courses-workshops/>)

Should you have any questions, please feel free to contact us: info@physalia-courses.org

Best regards,

Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR info@physalia-courses.org <http://www.physalia-courses.org/> =0A=0ATwitter: @physacourses mobile: +49 15771084054 <https://groups.google.com/forum/#!forum/physalia-courses> info@physalia-courses.org

based analyses using metabarcoding and high throughput sequencing.

After completing the course, students should be in a position to (1) Design their own eDNA study based on their research needs (2) understand the principles of qPCR, including in-silico primer development and experimental setup (3) analyse high throughput sequencing eDNA metabarcoding data (4) Perform preliminary analyses of both qPCR and metabarcoding data and (5) Create publication quality figures. All course materials (including copies of presentations, practical exercises, data files, and example scripts prepared by the instructing team) will be provided electronically to participants.

No programming or scripting experience is necessary and we will assume no prior knowledge of command line programming, but those with previous expertise using the Linux console or R are most welcome, and we aim to provide something new for everyone. The practical sessions will be run using Amazon Web Services (AWS) linux servers, so participants must bring their own computer system. Instructions for pre-installing software will be provided.

Here is the full list of our courses and Workshops: (<https://www.physalia-courses.org/courses-workshops/>)

Carlo

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Berlin eDNAMetabarcoding Jun29-Jul3

Course: INTRODUCTION TO ENVIRONMENTAL DNA RESEARCH AND ANALYSIS

Where: Freie Universitat Berlin (Germany)

When: 29 June-3 July 2020

Instructors: Prof. Stefano Mariani (Liverpool John Moores University, UK) , Dr. Rupert Collins (University of Southampton, UK), Luke E. Holman (University of Bristol, UK)

Program: <https://www.physalia-courses.org/courses-workshops/course40/> In this course, we offer an introduction into eDNA based science with key emphasis on how to design, implement and analyze 1) species specific (targeted) eDNA using qPCR and 2) community

Berlin MachineLearning Jun22-26

Course: Machine Learning for biologists- a hands-on introduction

When: 22-26 June 2020

Where: Free University Berlin (Germany)

Instructors: Dr. Pietro Franceschi and Dr. Marco Moretto (Fondazione Edmund Mach, Italy)

The objective of the course is to provide a broad hands-on introduction to the use of multivariate methods and machine learning for the analysis of complex biological datasets.

The syllabus has been planned for people with zero or very basic knowledge of machine learning. Students are

assumed to have basic familiarity with a programming language (Python, R, Matlab, ...)

Program:

Monday - Classes from 9:30 to 17:30

General Introduction

o Data mining, -omics and machine learning o Experimental Design

Jupyter for Python and R

o Introduction o Data structures o Reading and Writing data

Tuesday - Classes from 9:30 to 17:30

Multivariate data

o properties o data exploration

Wednesday - Classes from 9:30 to 17:30

Unsupervised analysis: PCA and beyond

o Principal Component Analysis o Clustering o Other projection methods (TSNE, Self Organising Maps)

PCA as a data model, introduction to validation

Thursday - Classes from 9:30 to 17:30

Supervised analysis: regression and classification

o model tuning and validation o KNN classification

Friday - Classes from 9:30 to 17:30

Random Forest

Here is the full list of our courses and Workshops: (<https://www.physalia-courses.org/courses-workshops/>)

Best regards,

Carlo

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<info@physalia-courses.org>

Berlin Phylogenomics May25-29

Dear all,

still places left on our 3rd edition of the Phylogenomics course: (<https://www.physalia-courses.org/courses-workshops/course21/>)

Where: Freie Universität Berlin (Germany)

When: 25-29 May

Instructors: Dr. Michael Matschiner and Dr. Milan Malinsky (University in Basel, Switzerland)

While genomic data promise unprecedented insights into the evolution of the tree of life, they also pose new challenges that must be addressed to avoid misleading results and to fully leverage the potential of the genome-scale data sets. These challenges include the identification of orthologous sequences that are suitable as phylogenetic markers, the selection of appropriate models of sequence evolution, and the detection of gene-tree discordance due to incomplete lineage sorting and introgression. In this workshop we will present theory and exercises to infer time-calibrated phylogenies from multi-locus, RADseq, and whole-genome data sets while accounting for these confounding factors.

Session content: (<https://www.physalia-courses.org/courses-workshops/course21/curriculum-21/>)

Here is the full list of our courses and Workshops: (<https://www.physalia-courses.org/courses-workshops/>)

Should you have any questions, please feel free to contact us at: (<mailto:info@physalia-courses.org>)

All the best, Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR
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<info@physalia-courses.org>

Berlin PopulationGenomics May18-22

Course: 5th edition of the "Introductory Population Genomics: From Data to Inference"

Where: Free University (FU) Berlin

When: 18-22 May 2020

Instructors:

Dr. Martin Taylor and Dr. Lewis Spurgin (University of East Anglia, UK)

Course website: (<https://www.physalia-courses.org/courses-workshops/course9/>)

Course Overview

Next generation sequencing has revolutionized evolutionary biology allowing unprecedented resolution and insight into evolutionary questions that appeared intractable only a few years ago. The course will cover the basics of population genomic analysis from SNP data onwards and will cover the key analyses that may be required to successfully analyze a population genetic data set. The course will NOT cover steps prior to generation of a .vcf file or SNP data set such as NGS data demultiplexing, clustering and SNP calling (This is covered in detail in the Introduction to RADseq course). This course will introduce Linux and the command line environment, basic perl and python usage, file conversions and manipulation, population structure and differentiation in R, outlier analysis, landscape / seascape genomics and introgression. Having completed the course, students should have a good understanding of the software and methods available for population genomic analysis and be competent in population genomic analysis.

Targeted audience & ASSUMED BACKGROUND

This course is aimed at postgraduate students and early career researchers who are interested in using population genomic tools in their research. No previous experience of bioinformatics is required, but an underpinning in evolutionary biology and basic population genetics concepts such as Hardy Weinberg Equilibrium and FST are desirable. The course will use a range of software including the Linux operating system and R.

Program: (<https://www.physalia-courses.org/courses-workshops/course9/curriculum9/>)

Here is the full list of our courses and Workshops: (<https://www.physalia-courses.org/courses-workshops/>)

Best regards,

Carlo

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 <info@physalia-courses.org>

Berlin RNAseqWithBioconductor Jun15-19

Dear all,

Registrations are now open for the 2nd edition of the course “Analysis of RNA sequencing data with R/Bioconductor”: (<https://www.physalia-courses.org/courses-workshops/course19/>)

Where: Freie Universität Berlin - Altensteinstraße 40, 14195 Berlin, Germany

When: 15-19 June 2020

Instructor: Dr. Ludwig Geistlinger (City University of New York School of Public Health, USA)

This course will provide biologists and bioinformaticians with practical statistical analysis skills to perform rigorous analysis of RNAseq data with R and Bioconductor. The course assumes basic familiarity with genomics, but does not assume prior statistical training. It covers the statistical concepts necessary to design experiments and analyze high-throughput data generated by next-generation sequencing, including: exploratory data analysis, principal components analysis, clustering, differential expression, and gene set analysis.

Program: (<https://www.physalia-courses.org/courses-workshops/course19/curriculum-19/>)

Here is the full list of our courses and Workshops: (<https://www.physalia-courses.org/courses-workshops/>)

Best regards,

Carlo

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 <info@physalia-courses.org>

Berlin Scientific Illustration Apr27-30

Course: Design Your Science - A crash course for researchers

Where: Free University Berlin (Germany)

When: 27-30 April 2020

Instructor: Dr. Cirenia Arias-Baldrich (Oxford Brookes University, UK)

This course is designed to boost your ability to use the power of visuals. You will learn how to sketch your ideas, build a visual library for your chalk-talks, and walkthrough graphic design basic concepts and resources that will be a game-changer for your future workflow. Learn by doing, how to use the free and open-source vector graphics editor Inkscape. Step by step, from its installation to getting your files ready to go. We will start a project from scratch and take it from concept stage to final art, creating your own vectors. We will discuss together how to make your graphical abstract or scientific poster pop. Finally, you will have a lot of fun learning how to make your own animation and share it with the world!

Course website: (<https://www.physalia-courses.org/courses-workshops/course63/>)

Registration deadline: 3rd April

Best, Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR
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<info@physalia-courses.org>

BGI China Conservation Genetics Jun9-19 Cancelled

Cancelled: ConGen2020BGI-Qingdao, China June 9-19, 2020

To the Conservation Genetics Community:

We regret to inform you that ConGen short course: the 2020 Recent Advances in Conservation Genetics (ConGen2020) that was scheduled to be held at BGI-Qingdao, China between June 9-19, 2020 had to be cancelled due to growing uncertainty with the travel restrictions due to the current epidemiological situation.

We apologize for the inconvenience to those who already-submitted their applications. Please keep checking with us at <https://conservationgenetics.org/> and at our facebook page <https://www.facebook.com/ConGenCourse/> for the announcements about the next installment of the ConGen Global course.

Taras K Oleksyk, Ph.D. Full Professor of Biology
Adjunct

University of Puerto Rico at Mayaguez Mayaguez, PR 00680

taras.oleksyk@upr.edu

Taras K Oleksyk <taras.oleksyk@upr.edu>

CIBIO-InBIO Portugal Bioinformatics Apr28-30

OPEN POSITIONS @ CIBIO-InBIO

Doctoral Researcher | Biological sciences

CIBIO-InBIO, Portugal

Application deadline: February 26, 2020

< <https://cibio.up.pt/open-positions-careers/details/-reference-iceta-2020-05> > Click here for more information and to know how to apply

EVENTS

ADVANCED COURSE: INTRODUCTION TO PROGRAMMING FOR BIOINFORMATICS USING JAVA

April 28-30, 2020 | CIBIO-InBIO, Vairão, Portugal

Registration deadline: March 13, 2020

< <https://cibio.up.pt/workshops-courses/details/-advanced-course-introduction-to-programming-for-bioinformatics-using-java-2020> > Click here for more information

ADVANCED COURSE: THE ARCHAEOGENOMICS OF DOMESTIC ANIMALS

May 11-15, 2020 | CIBIO-InBIO, Vairão, Portugal

Registration deadline: March 13, 2020

<<https://cibio.up.pt/workshops-courses/details/advanced-course-archaeogenomics-of-domestic-animals#prettyPhoto>> Click here for more information

CIBIO-InBIO's Office for Science Communication and Outreach
CIBIO - Research Center in Biodiversity and Genetic Resources
InBIO Associate Laboratory University of Porto, Vairão Campus
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f: <https://www.facebook.com/cibio.inbio>

CIBIO-InBIO Divulgação

CIBIO-Porto

Archaeogenomics Domestic Animals May 11-15

The Archaeogenomics of Domestic Animals

It is now generally agreed that diachronic genetic studies are required in order to infer the origins and evolutionary trajectories of domestic animals. The objective of this course is to provide an overview of the most recent Archaeogenomics findings on the origin and evolution of domestic animals. It will cover some of the recommended bioinformatics tools and methods for the study of ancient DNA genomics data. There will be hands-on sessions, including bioinformatics on how to filter, infer damage patterns and authenticate next-generation-sequencing data obtained from archaeological specimens, as well as on population genomics.

IMPORTANT DATES *Deadline for applications: March 13, 2020*

Notification of acceptance: March 18, 2020

Course dates: May 11-15, 2020

Full details, including the course programme and instructors, application form, selection criteria and requirements, can be found here: <https://cibio.up.pt/workshops-courses/details/advanced-course-archaeogenomics-of-domestic-animals> This course is aimed at Ph.D. students, postdocs and other researchers in the fields of evolutionary biology, zooarchaeology and archaeology with a specific interest in Archaeogenomics.

catarinaginja@gmail.com

CopenhagenU NGSdataAnalyses Aug 3-7

Dear all,

We are happy to inform you that we are now accepting applications for the "Summer course in NGS data analyses for medical and population genetics 2020"

When: August 3rd - August 7th 2020

Where: Copenhagen, Denmark

Organized by: Fernando Racimo, Anders Albrechtsen, and Ida Moltke at the Department of Biology, University of Copenhagen

Instructors: Lucy van Dorp, Tyler Linderoth, Benjamin Peter, Fernando Racimo, Anders Albrechtsen, and Ida Moltke

The course is a comprehensive introduction to a number of topics and common research tools used in analyses of next-generation sequencing (NGS) data. Topics include: genetic drift, natural selection, population structure, association mapping, GWAS, spatial genetics, f-statistics and demographic inference. The main focus will be on humans, but the methods we will cover are applicable to many other species as well. Lectures will be combined with hands-on computer exercises, mostly using R and command-line based programs.

The number of spots is limited and participants will be selected based on their application and potential to benefit from the course. All applicants will be notified with a decision on April 1st. In case of extra spots becoming available after April 1st, there will be a second round of email notifications on May 1st.

Please sign up at popgen.dk/signup by March 30th.

More information can be found at the course website: popgen.dk/popgen20

Questions can be directed to: cphsummercourse@gmail.com

With kind regards,

Patrícia Chrzanová Peènerová

Postdoc, University of Copenhagen

cphsummercourse@gmail.com

Crete
GenomeWideAssociationStudies
Jul06-10

Dear evoldir members,

Transmitting Science is offering the course 'INTRODUCTION TO GWAS (GENOME-WIDE ASSOCIATION STUDIES)'.

Instructors: Dr. Gerard Muntané (Universitat Rovira i Virgili / Universitat Pompeu Fabra Spain) & Dr. Juan Rodríguez (CNAG - CRG, Spain) Dates: July 6th-10th, 2020 Location: Crete, Greece Early-bird deadline: April 30th, 2020

COURSE OVERVIEW: Genome-wide association studies have become increasingly popular to identify associations between genetic risk factors and phenotypic traits. This introductory course is addressed to medical students, social scientists and biologists without formal training in the field. The aim of the course is to provide a guideline for conducting genetic analyses. In addition to the illustration of the standard GWAS process, we will also demonstrate how to perform functional enrichment and apply polygenic risk score (PRS) analysis in order to provide individual-level scores of genetic risk. A mix of theoretical background and hands-on experience will walk students through a series of increasingly complex data manipulation and visualization tasks. These exercises will be based on PLINK, PRSice, and R, among others, which are commonly used, freely available software tools that are accessible for novice users.

PROGRAM: Monday Morning: - Introduction to Unix and R (theoretical) - The process of GWAS (Introduction, Study designs, genomic controls, LD, sample size, power) - GWAS Catalog Afternoon: - Getting the data and starting (SNP array genotyping)

Tuesday Morning: - Quality Control (QC) for GWAS - Variant identification - Population stratification - HWE - MAF Afternoon: - Imputation (Michigan Imputation Server)

Wednesday Morning: - Basic association analyses - Statistical tests (PLINK, multiple testing, binary or continuous phenotype, covariates, etc) - Discovery and replication studies - Gene-based analysis. Bioinformatic follow-up of results to explore functional mechanism (Pascal, Magnum, FUMA GWAS) Afternoon: - Practical

Thursday Morning: - Annotation of Genomic Variants (LocusZoom, CADD) - Use of summary statistics Afternoon: - Genetic risk scores (LDSC, Heritability explained, PRS)

Friday Morning: - Wrap-up - Hands-on training. Perform an association test from scratch

For more information and registration: <http://bit.ly/intro-GWAS> Contact: courses.crete@transmittingscience.org

All the best, Haris Saslis, PhD Course Coordinator Transmitting Science www.transmittingscience.org Haris Saslis <haris.saslis@gmail.com> Haris Saslis <haris.saslis@gmail.com>

Glasgow CompSciSkills MayJun

Advanced Python for biologists (APYB04)

<https://www.prinformatix.com/course/advanced-python-biologists-apyb04/> This course will be delivered by Dr Martin Jones from the 29th June - 3rd July in Glasgow City Centre.

Course overview: Python is a dynamic, readable language that is a popular platform for all types of bioinformatics work, from simple one-off scripts to large, complex software projects. This workshop is aimed at people who already have a basic knowledge of Python and are interested in using the language to tackle larger problems. In it, we will look in detail at the parts of the language which are particularly useful in scientific programming, and at the tools Python offers for making development faster and easier. The course will use examples and exercises drawn from various aspects of bioinformatics work. After completing the workshop, students should be in a position to (1) take advantage of the advanced language features in their own programs and (2) use appropriate tools when developing software programs.

Python for data science, machine learning, and scientific computing (PDMS02)

<https://www.prinformatix.com/course/python-for-data-science-machine-learning-and-scientific-computing-pdms02/> This course will be delivered by Dr Mark Andrews from the 4th - 8th May in Glasgow City Centre.

Course Overview: Python is one of the most widely used

and highly valued programming languages in the world, and is especially widely used in data science, machine learning, and in other scientific computing applications. This course provides both a general introduction to programming with Python and a comprehensive introduction to using Python for data science, machine learning, and scientific computing. The major topics that we will cover include the following: the fundamentals of general purpose programming in Python; using Jupyter notebooks as a reproducible interactive Python programming environment; numerical computing using numpy; data processing and manipulations using pandas; data visualization using matplotlib, seaborn, ggplot, bokeh, altair, etc; symbolic mathematics using sympy; data science and machine learning using scikit-learn, keras, and tensorflow; Bayesian modelling using PyMC3 and PyStan; high performance computing with Cython, Numba, IPyParallel, Dask. Overall, this course aims to provide a solid introduction to Python generally as a programming language, and to its principal tools for doing data science, machine learning, and scientific computing. (Note that this course will focus on Python 3 exclusively given that Python 2 has now reached its end of life).

Bioinformatics with Linux and Python (BILP01)

<https://www.prinformatics.com/course/bioinformatics-with-linux-and-python-bilp01/> This course will be delivered by Dr Martin Jones from the 11th-15th May in Glasgow City

Centre Course Overview: A fundamental part of bioinformatics (in contrast to simply computational biology) is the idea of scaling and automation. We want to arrange our tools into pipelines which can be executed with minimal supervision. Reliable automation of this type is key to many of the things that we want from our analyses; chiefly the ability to reproduce our results, and to extend them to other datasets. In this course we will examine two different systems for automating bioinformatic analyses. For situations where we are mostly running existing command line tools, bash scripting will allow us to build pipelines with minimal overhead. We'll start with simple command lines and see how the Linux environment 'though not designed with biology in mind' is well suited to the type of automation we need. For situations where we don't have an existing tool available, and hence need to implement our own logic, bash quickly becomes unwieldy 'it's theoretically possible to write complex programs in bash, but the experience is painful! It's much better to use a more modern programming language, and for most biological tasks Python fits the bill.

Landscape genetic data analysis using R (LNDG04)

<https://www.prstatistics.com/course/landscape-genetic-data-analysis-using-r-lndg04/> Please feel free to share

This course will be delivered by Prof. Rodney Dyer from 1st - 5th June in Glasgow City Centre.

Course Overview: The term 'landscape genetics' has been applied to studies that integrate ecological context and intervening landscape into population genetic analyses of contemporary processes such as gene flow and migration. This course will cover the basics of both quantitative landscape

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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>

Harvard PlantMorphology Jun8-19

Arnold Arboretum Summer Course 2020 'V Plant Morphology: Linking Phenotype to Development

This two-week short course (June 8 'V 19, 2020) will be taught by experts from around the world as an intense lecture, laboratory, and living collections learning experience. The course will be based at the Weld Hill Research Building at the Arnold Arboretum in Boston (Massachusetts), which offers a state-of-the-art microscopy laboratory for teaching and sits amid the 15,000+ living specimens of more than 2,200 species at the Arnold Arboretum.

This course will provide a working knowledge of concepts that are central to understanding the developmental basis for the remarkable structural and functional diversity of plants. Topics include developmental dynamics, evolutionary diversification, and ecological and physiological function. Ultimately, this course aims to provide the skills necessary to interpret the vast array of morphologies that exist among plants. Each day will consist of lecture and laboratory sessions, with ample opportunity to explore the Arnold Arboretum.

There are no course fees, room and board are provided, and funds are available to help defray costs of participant travel.

Course Instructors: Pamela Diggle (University of Connecticut), Peter Endress (University of Zurich), William

(Ned) Friedman (Harvard University), Cynthia Jones (University of Connecticut).

Application Deadline: Applications must be submitted by 11:30 pm March 15th, 2020. Application instructions are available on the course website: <https://www.arboretum.harvard.edu/education/-summer-short-course/> Eligibility: microMORPH summer short courses are open to postdoctoral researchers, graduate students, and undergraduates in their final year of study (who have been admitted to a graduate or professional program for the fall of 2018). Non-US-citizens are welcome to apply (but are responsible for obtaining the appropriate visa to be able to attend the course).

How to Apply: For full application instructions (including list of required documents) and to submit applications, please visit the course website (<https://www.arboretum.harvard.edu/education/-summer-short-course/>).

Questions or Comments? Contact Pamela Diggle at pamela.diggle@uconn.edu

pamela.diggle@uconn.edu

IndianaU Metagenomic Analysis Apr20-22

The National Center for Genome Analysis Support (NCGAS) is hosting the second iteration of our metagenomics workshop, focusing on metagenome analysis, on April 20th to 22nd at Indiana University, Bloomington.

Dates: April 20th to 22nd, 2020 Location: Bloomington, IN Registration: <https://redcap.uits.iu.edu/surveys/?s=EXAHRFYCML> Deadline to apply: February 25th, 2020

The workshop will include discussions, lectures and hands-on tutorials, covering topics important to constructing and analyzing shotgun-sequenced metagenomic datasets. Material covers availability of HPC resources, how to access these resources, while learning how to assemble and annotate metagenomic datasets. The goal of this workshop is to provide a comprehensive preparation for metagenomic analysis and other bioinformatic tasks. While the material will make heavy use of XSEDE and IU machines, the material is transferable to any cluster.

For a complete schedule of course content, see:

<https://github.com/NC GAS/Metagenomics-Workshop-Spring-2020> . Registration is free, but application is required. The deadline to apply is February 25th, 2020

Please share this information with anyone else who may be interested as well. If you have any questions regarding the workshop, email us at help@ncgas.org.

Sheri Sanders Bioinformatic Analyst National Center for Genome Analysis and Support (NCGAS)

NCGAS is a management unit of the Research Technologies division of UITS; NCGAS is affiliated with the Indiana University Pervasive Technology Institute.

“Sanders, Sheri” <ss93@iu.edu>

KlosterLehnin Germany EvolutionResistance Aug24-28

Ecological immunology workshop 2020: evolution of resistance, tolerance & Symbionts, 24-28 Aug 2020

Abstract submission is now open for the above meeting, to be held at Kloster Lehnin, close to Berlin, Germany. For more information and abstract submission please see here: <https://fu-berlin.de/xmed313> The meeting is the next installment in a loose series of workshops on ecological & evolutionary immunology / insect immunity, that started in 2001 in Sheffield, the most recent one being in Blossin (close to Berlin) in 2017. These meetings bring together researchers with different backgrounds but with a shared interest in immunity and host-microbe interactions, and where we encourage the presentation of unpublished results.

The hallmark of these workshops is the open atmosphere, fostering free exchange by keeping it an affordable, small meeting (~85 participants). The format consists of invited speakers, contributed talks and a dedicated poster session. Long breaks provide plenty of opportunity for informal exchange. Past workshops have initiated new collaborations and ideas focusing on frontier research. The premises are basic but in a beautiful location conducive to the success of the meeting. We will be located at a lakeside, which during August offers great swimming and canoeing, and a small café on the lakeside. Our invited speakers are: Alex Best (University of Sheffield, UK) Nicholas Buchon (Cornell University, USA) Delphine Destoumieux-Garzon (University of Montpellier, France) Laura Florez (University of Mainz, Germany) Andrea Graham (Princeton University, USA) Bruno Lemaitre (EPFL Lausanne, Switzerland) Jessica

Metcalf (Princeton University, USA) Charlotte Rafaluk-Mohr (Freie Universität Berlin, Germany) Roland Regoes (ETH Zürich, Switzerland) Mike Strand (University of Georgia, USA) Âlio Sucena (Gulbenkian Institute, Portugal) Pedro Vale (University of Edinburgh, UK) Heiko Vogel (Max-Planck Institute for Chemical Ecology, Jena, Germany) Bregje Wertheim (Groningen University, The Netherlands) Anna Zaidman-R my (Institut National de Sciences Appliqu es, Lyon, France)
 Important dates: 10th March - Abstract submission deadline 25th March ' Decisions on abstracts 24th April ' Registration deadline and payment of fees
 Cost: Includes registration fee, accommodation and food - Student - 350 - - Non-student - 440 - -
 We look forward to receiving your abstracts!

Best wishes from the organisers

Sophie Armitage, Lea Otte & Jens Rolff (FU Berlin)

Portugal PopDynamics Apr20-24

Dear Colleagues,

We would like to inform you about the open positions and events at the Research Center in Biodiversity and Genetics Resources (CIBIO-InBIO), Vair o, Portugal. If possible, we would greatly appreciate to count on your collaboration in the dissemination of these opportunities amongst potential candidates.

Please find below the link to the announcements

Thank you so much!

All the best,

CIBIO-InBIO's Science Communication and Outreach Office

EVENTS

ADVANCED COURSE: ADVANCED POPULATION DYNAMICS

April 20-24, 2020 | CIBIO-InBIO, Campus de Vair o

Registration deadline: February 28, 2020

< <https://cibio.up.pt/workshops-courses/details/advanced-course-advanced-population-dynamics-> >
 Click here for more information

OPEN POSITIONS @ CIBIO-InBIO

Director of the BIOPOLIS Centre of Excellence | Biolog-

ical sciences

CIBIO-InBIO, Portugal

Application deadline: February 23, 2020

< <https://cibio.up.pt/open-positions-careers/details/biopolis-reference-4536> > Click here for more information and to know how to apply

Bolsa de Investiga o Licenciado | Biological sciences

CIBIO-InBIO, Portugal

Application deadline: February 26, 2020

< <https://cibio.up.pt/open-positions-careers/details/iceta-2020-04> > Click here for more information and to know how to apply

CIBIO-InBIO's Office for Science Communication and Outreach
 CIBIO - Research Center in Biodiversity and Genetic Resources
 InBIO Associate Laboratory
 University of Porto, Vair o Campus
 Rua Padre Armando Quintas 4485-661 Vair o Portugal

t: +351 252 660 400

e: divulgacao@cibio.up.pt

w: <http://cibio.up.pt> | <http://www.inbio-la.pt>

f: <https://www.facebook.com/cibio.inbio>

CIBIO-InBIO Divulga o

QuebecCity RADseq Oct5-9

Dear all,

happy to inform you that Physalia-courses in collaboration with Laval University (Prof. Louis Bernatchez Lab) is organizing the 4th edition of the course "RADseq data analysis"

Where: Laval University, Quebec City, Canada

When: 5-9 October 2020

Course website: (<https://www.physalia-courses.org/courses-workshops/course16/>)

Instructors: Dr. Julian Catchen (University of Illinois, Urbana-Champaign) and Eric Normandeau (Laval University)

We will introduce the different approaches for obtaining reduced representation genome sequencing data and will specially focus on the data analysis using Stacks. We will cover all necessary steps to obtain genome variants

from short read data that are informative for population genetics, phylogenetic and association studies.

This course is aimed at researchers and technical workers who are generating and/or analyzing reduced representation genome sequencing data (RAD-seq, ddRAD, 2bRAD, GBS, \$B!D(B). Examples demonstrated in this course will involve primarily non-model organisms and examples of applications of this data type for different purposes will be covered.

Full program: (<https://www.physalia-courses.org/-courses-workshops/course16/curriculum-16/>)

For the full list of our courses and workshops, please visit our website: (<https://www.physalia-courses.org/-courses-workshops/>)

Should you have any questions, please feel free to contact us at (<mailto:info@physalia-courses.org>)

All the best, Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR
info@physalia-courses.org <http://www.physalia-courses.org/> Twitter: @physacourses mobile: +49 17645230846 <https://groups.google.com/forum/#!forum/physalia-courses> “info@physalia-courses.org”
[<info@physalia-courses.org>](mailto:info@physalia-courses.org)

tion. Students will learn different methods to discover genetic/genomic signatures potentially involved in adaptation against specific environmental constraints. The course will also cover the critical task of the interpretation and validation of the results, particularly in an applied conservation and management context. Finally, the workshop will consider the crucial aspects and good habits to account for designing a seascape genomics experiment (e.g. sampling design) from a relevant scientific question.

Course website: (<https://www.physalia-courses.org/-courses-workshops/course70/>)

For the full list of our courses and workshops, please see: (<https://www.physalia-courses.org/-courses-workshops/>)

Should you have any questions, please feel free to contact us at (info@physalia-courses.org)

All the best, Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR
info@physalia-courses.org <http://www.physalia-courses.org/> Twitter: @physacourses mobile: +49 17645230846 <https://groups.google.com/forum/#!forum/physalia-courses> “info@physalia-courses.org”
[<info@physalia-courses.org>](mailto:info@physalia-courses.org)

QuebecCity SeascapeGenomics Oct12-16

Course: Seascape Genomics

Where: Laval University, Quebec City (Canada)

When: 12-16 October 2020

Instructors: Dr. Laura Benestan (University of Montpellier, FR) and Oliver Selmoni (EPFL, CH)

In this course , students will learn the basics of this approach and train using state of the art methods. Firstly, students will learn how to extract environmental data from publicly available databases and how to use it to characterize the seascape structure and conditions. For instance, students will learn how to use remote sensing data to describe sea water temperature oscillations or sea water movements. Next, the course will bring its focus on genomic analyses: students will learn how to evaluate genetic structures in the marine environment and how to calculate and display connectivity between populations. The combination of environmental and genomic data will also lead to the study of local adapta-

Raleigh NC EvolutionaryMedicine May17-22

The Triangle Center for Evolutionary Medicine (TriCEM) is now accepting applications for the 2020 Evolutionary Medicine Summer Institute (EMSI), held May 17-22 at NC State in Raleigh, NC. The goal of EMSI is to introduce core evolutionary concepts to a wide range of topics in human health and disease, including public health, and to train physicians and medical scientists in computational methods used in evolutionary and ecological research.

EMSI brings together internationally recognized experts in evolutionary biology with students and health practitioners who want to apply these perspectives to cancer, infectious disease, evolution of microbial resistance, neurology, autoimmune disease, the microbiome, and more. Lectures on key concepts are complimented with hands-on computational exercises. Our goal is to give participants the background on evolutionary principles and the tools to apply evolutionary biology to questions of medical and veterinary importance.

For more information (including last year's schedule) and to apply, please visit the EMSI website at <https://sites.duke.edu/emsi/>. Application deadline is March 20, 2020.

If you have any questions, please feel free to reach out to Meredith Spence Beaulieu (meredith.spence.beaulieu@duke.edu) or Courtnei France (cnf12@duke.edu).

– Meredith R. Spence Beaulieu, PhD, BCE-Intern
Pronouns: she/her/hers Assistant Director, Triangle Center for Evolutionary Medicine (TriCEM) 103A Biological Sciences, Duke University meredith.spence.beaulieu@duke.edu (919) 684-9681

“Meredith Spence Beaulieu, Ph.D.”
<meredith.spence.beaulieu@duke.edu>

Spain Evolutionary Genetics May10-15

Course: AllGenetics' Spring Training Week

Dates: 10-15 May 2020

Location: A Coruña (Spain) AllGenetics' 2020 bioinformatics training courses will be held in the charming seaside village of Santa Cruz (Oleiros, A Coruña, Spain). A total number of five courses will be held during the Spring Training Week (May 10-15)

- Introduction to high-throughput sequencing: Illumina, Ion Torrent, PacBio, and Oxford Nanopore technologies
DNA metabarcoding data analysis course - DNA metabarcoding data analysis - Introduction to metagenomic data analysis course - SNP discovery and genotyping using reduced-representation sequencing data course - Introduction to RNA-seq data analysis course

It will be possible to enrol in more than one course. More courses will be offered during the Autumn Training Week in October. Join us by the sea for the Spring and Autumn training weeks! Please find the course details here: <https://www.allgenetics.eu/index.php/allgenetics-training-weeks-2020.html> If you have any questions, do not hesitate to contact us: info@allgenetics.eu Website: <https://www.allgenetics.eu/> Twitter: @AllGenetics Phone: +34 881015541

Rosa GJ <rgarciajunco@gmail.com>

Switzerland TamingTheBEAST May31-Jun5

Dear colleagues,

This is a reminder that the March 1 registration deadline for the Taming the BEAST summer school is quickly approaching. If you, your research colleagues or students are intending to apply for this workshop, please ensure this happens before the deadline. We have already had very strong interest in the workshop, and places are strictly limited.

Phylogenetics and phylodynamics are central topics in modern biology. Phylogenetic inferences reconstruct the evolutionary relationships between organisms, whereas phylodynamic inferences reveal the dynamics that lead to the observed relationships. These two fields have many practical applications in disciplines such as epidemiology, developmental biology, paleontology, ecology and even linguistics. However, phylogenetics and phylodynamics are complex and fast-evolving fields. As such, inference tools are not easily accessible to researchers who are not from a computational background.

Taming the BEAST is a summer school focusing on the BEAST2 software and consisting of a mix of invited talks, lectures and hands-on tutorials by leading and renowned experts in the field (including several of the core developers of BEAST2). The aim of this summer school is to equip participants with the skills necessary to confidently perform their own phylogenetic and phylodynamic inferences in Bayesian settings, while providing them with a firm grasp of the theory behind those inferences. Participants are also highly encouraged to bring their own datasets along and to engage with the organisers and speakers to address any problems specific to their own datasets/analyses.

We welcome applications from graduate students and early-career scientists in the life sciences. Preference will be given to applicants who are not from a computational background and applicants who have already collected/assembled a dataset that they need to analyze.

Invited speakers:

Alexei Drummond (University of Auckland) Tanja Stadler (ETH Zurich) Remco Bouckaert (University of Auckland) Denise Kuehnert (Max Planck Institute)

Dates: May 31 to June 5, 2020 (Deadline for registration

is March 1).

Place: Oberägeri, Switzerland

Registration Fee: 900 CHF (Registration fee includes accommodation and meals).

For more information please visit the summer school website: <https://www.bsse.ethz.ch/cevo/taming-the-beast/overview-2020.html> For information on previous workshop programs, tutorials etc. please visit <https://taming-the-beast.org> . We hope to see you there, the Taming the BEAST organising team

“timothy.vaughan@bsse.ethz.ch”

<timothy.vaughan@bsse.ethz.ch>

UMichigan SpeciationBasedDelimitation Mar13

Speciation-based Delimitation Workshop, March 13, 2020

University of Michigan, Ann Arbor, MI

<https://sites.lsa.umich.edu/species> A workshop on species delimitation will be held at the University of Michigan, Ann Arbor, MI on *March 13, 2020*; the workshop is free but limited to 65 participants, and participants must apply to attend, with review of applications beginning Feb. 18. Note that participants are also encouraged to also consider (and register) for the 16th Annual Early Career Scientists Symposium “Natural History Collections: Drivers of Innovation <https://sites.lsa.umich.edu/ecss/>” that will be held on March 14-15.

Note that through the generous support of the National Science Foundation (DEB 16-55607) we will be offering travel scholarship to increase the representation from interested participants who otherwise would not be able to attend. Priority will be given to graduate students and postdocs. Send a brief description of fit of the workshop and scholarship need (no more than 150 words) by Feb. 18.

Application for the workshop (and travel scholarships) should be completed via the registration tab on the website. Please address questions to L. Lacey Knowles (knowlesl@umich.edu) and see you in March!

L. Lacey Knowles

Jeet Sukumaran

Arnaud Becheler

Summary of Workshop:

The resolution in genomic data makes it possible to not only detect divergent lineages, but also local population structure within them. Yet, these conflated boundaries have received little attention from those developing genetic-based species delimitation methods, potentially leading to mass over-splitting as genomic data become more widely employed. These challenges have profound implications for not only understanding the generation and dynamics of biodiversity, but also for conserving this diversity.

In this workshop, we will cover the foundations upon which genetic-based inference of species boundaries are built. In particular, we will review the history that lead to a reliance on the multispecies coalescent (MSC) as the primary model for species delimitation. Despite the appeal of genome-based species discovery, we will explain how misidentification of population structure as putative species is an emerging key issue for applications of the MSC for species delimitation, as well as the implications of divergence of gene flow for identifying species boundaries.

We will then present two recently developed approaches to address the misidentifications of species that occurs from confounding the structure within species with the divergence that accumulates between species. One approach, implemented in the program DELINEATE < <https://jeetsukumaran.github.io/delineate/#requirements> >, takes a phylogenetic lineage-based perspective to delimit species where for the first time speciation is modeled as an extended process in the context of species delimitation analyses, as opposed to being treated as an instantaneous event. The other approach, implemented in the program DECRYPT < <https://becheler.github.io/pages/applications.html> >, employs a spatially explicit coalescent model to characterize the geography of divergence to test competing hypotheses regarding the detection of cryptic diversity. Participants in the workshop will also receive hands-on training with both programs, completing a series of computer demonstrations and exercises.

These newly developed method should reduce the errors with genome-based species delimitation, while also providing a framework for gaining insights about the speciation process itself. Note the methods and associated documentation are freely available as the software packages DELINEATE < <https://jeetsukumaran.github.io/delineate/#requirements> > and DECRYPT < <https://becheler.github.io/pages/applications.html> >.

L. Lacey Knowles Robert B. Payne Collegiate Professor

Dept. of Ecology and Evolutionary Biology Curator of Insects, Museum of Zoology University of Michigan Ann Arbor MI 48109-1085

L Knowles <knowlesl@umich.edu>

UMichigan Species Delimitation Mar13

Species Delimitation Workshop, March 13, 2020

University of Michigan, Ann Arbor, MI

<https://sites.lsa.umich.edu/species> Travel-Aid still available*

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– L. Lacey Knowles Robert B. Payne Collegiate Professor Dept. of Ecology and Evolutionary Biology Curator of Insects, Museum of Zoology University of Michigan Ann Arbor MI 48109-1085

L Knowles <knowlesl@umich.edu>

WashingtonDC Evolutionary Neurobiology

We are now accepting submissions of Karger Workshop Proposals. The Karger Workshop is a one-day symposium.

sium on a specific topic in comparative or evolutionary neurobiology and is preceded by the JB Johnston Club for Evolutionary Neuroscience. We are particularly interested in proposals that use cross-disciplinary methods to explore new questions in evolutionary neuroscience. Proposals are due *FEBRUARY 1st, 2020. *

The 2020 Karger Workshop will be held at the Crystal City Marriott < <https://www.marriott.com/hotels/-travel/wascc-crystal-city-marriott-at-reagan-national-airport/> >, in Washington DC on Thursday, October 22nd, 2020. The Karger Workshop will precede the regular annual meeting of the JBJC, which will be held on Friday, October 23rd. These meetings are held in conjunction with the annual SFN meetings. Please contact Muhammad Spocter (spocter@gmail.com) or Christine Charvet (charvetcj@gmail.com) if you would like to discuss your proposal.

If you'd like to submit a proposal: please visit the following link: <https://www.jbjclub.org/karger-workshop.html> charvetcj@gmail.com

WashingtonDC MicrobialEukaryotes Apr3-4

Dear microbial eukaryote researchers,

We are holding an NSF and Moore Foundation funded workshop aimed at drawing the community of protist researchers in the United States together, from across fields, such as oceanography, parasitology, ecology, evolution and others. The intention is establishing collaborative goals and research objectives for the next decade, and determine how the community might better coalesce. Our hope is to gather people working in diverse microbial eukaryotic systems, to identify community priorities and then to establish collaborations to achieve these goals. We are inviting applications to fill a limited number of remaining seats to participate in this two day workshop.

The workshop will be held on April 3rd and 4th in Washington DC, at the Phillips Gallery in Dupont Circle. Prior to the meeting we will hold a one hour long virtual session to orient everyone to the goals of the workshop. If you apply to attend the workshop, your participation in the virtual session and the two days of in-person activities is expected. Through NSF and Moore Foundation support of the workshop, there is no registration fee. Please send an NSF style CV and

a paragraph on why you would like to participate by Friday, February 28st, to protistworkshop@gmail.com. There is a limited budget for travel subsidy, so please indicate whether you would like to be considered for this.

Sincerely,

The workshop organization team: Chris Lane Charles Delwiche Laura A. Katz Gillian Gile Matt Brown

Chris Lane Professor, Department of Biological Sciences Evol. & Marine Biol. Graduate Director University of Rhode Island 120 Flagg Road Kingston, RI., 02881 Office: CBL5 277 ph (401) 874-2683 fax (401) 874-2065 <http://cels.uri.edu/bio/lanelab/> Christopher Lane <clane@uri.edu>

WoodsHole MolecularEvolution May31-Jun10

The 2020 Workshop on Molecular Evolution at the Marine Biological Laboratory in Woods Hole, Massachusetts, USA, will be held *** MAY 31 to JUNE 10 *** (note that this is earlier than past years).

The deadline for applications *** has been extended to FEBRUARY 26, 2020 *** : see <https://ws2.mbl.edu/-studentapp/studentapp.asp?courseid=mole> Founded in 1988, the Workshop on Molecular Evolution is the longest-running workshop of its kind. The Workshop is the premier program for integrating the methods, theory, and applications of molecular phylogenetics, statistical genetics, molecular evolution, and related disciplines. Students work closely with internationally-recognized scientists, receiving: (i) high-level instruction in the principles of molecular evolution, phylogenetic inference, and evolutionary genomics; (ii) advanced training in statistical methods best suited to modern datasets; and (iii) hands-on experience with the latest software tools (often from the authors of the programs they are using). The material is delivered via lectures, discussions, and bioinformatic exercises motivated by contemporary topics in molecular evolution. A hallmark of this workshop is the direct interaction between students and field-leading scientists. The workshop serves graduate students, post-docs, and established faculty from around the world seeking to apply the principles of molecular evolution to questions of both basic and applied biological sciences. A priority of this workshop is to foster an environment where students can learn from each other as well from

the course faculty.

As the course progresses, participants learn how to use the following software to address questions concerning the origins, maintenance, and function of molecular variation: ASTRAL, BEST, FASTA, FigTree, IQTree, MIGRATE, MAFFT, MP-EST, RaxML, RevBayes, PAML, PAUP*, SVD Quartets, and SNaQ. Students will have the opportunity to work with software on their own laptops as well as receive training on how to use the same programs on a computer cluster.

In 2020 the course instructors include Peter Beerli, Joe Bielawski, Jeremy Brown, Minh Bui, Belinda Chang,

Scott Edwards, Deise Goncalves, Kelley Harris, Tracy Heath, John Huelsenbeck, Lacey Knowles, Laura Kubatko, Aki Laruson, Paul Lewis, Emily Jane McTavish, Claudia Solis-Lemus, Ed Susko, David Swofford, Katie Taylor, George Tiley, and Anne Yoder.

More information on the Workshop is available on the course website: <https://molevolworkshop.github.io> For further information, please contact the Workshop Co-Directors:

Paul Lewis and Peter Beerli (moledirector@mbl.edu)
paul.lewis@uconn.edu

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 L^AT_EX do not try to embed L^AT_EX or T_EX in your message (or other formats) since my program will strip these from the message.