
E v o l D i r

August 1, 2018

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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Athens OriginLife Nov5-6

Dear Colleagues

MOLECULES to MICROBES

Our NoR HGT and LUCA meeting IV is being held on the 5-6 November 2018 at the Eugenides Foundation Hall in Athens, Greece. I've attached the motivation statement and poster as well as our report from the previous conference for your attention. The scope of these meetings is extensive enough to include all discussions in relation to the origins of life and we hope that you will be able to attend. Another important point about the conference, is that your research will be featured and your papers cited in the subsequent report.

In this respect we are now inviting the submission of abstracts for oral presentation at the conference. Please send to Elias Chatzitheodoridis at eliasch@metal.ntua.gr or Sohan Jheeta at sohan@sohanjheeta.com. You can also visit our website at www.nor-hgt-luca.com for more information.

We sincerely hope that you can take part and look forward to seeing you in Athens in November.

Kind regards

Elias Chatzitheodoridis (National Technical University of Athens)

Sohan Jheeta (Independent Educator, Science Communicator and Research Scientist)

Martin Dominik (University of St Andrews)

John F Allen (University College London)

Nigel J Mason (The Open University)

Sohan Jheeta <sohan@sohanjheeta.com>

Edinburgh FisherCentennial Oct9

Meeting to celebrate the centennial of R.A. Fisher's famous 1918 paper on the theory of quantitative trait inheritance: 100 years of quantitative genetics theory and its applications: celebrating the centenary of Fisher 1918

The meeting will take place on Tuesday October 9, 2018, at the Royal College of Surgeons, Edinburgh (<https://>

[/www.rcsed.ac.uk/](http://www.rcsed.ac.uk/)). The meeting is sponsored by the Fisher Memorial Trust, the Genetics Society, the Galton Institute, the London Mathematical Society and the Royal Statistical Society. There are 8 invited speakers, with the Fisher Memorial Lecture by Michael Goddard at 5pm, followed by a reception. Lunch will be provided. In addition, 4 early career speakers and up to 30 posters will be selected from submitted abstracts by the organising committee (Kay Boulton, Brian Charlesworth, Bill Hill and Sylvia Richardson). Please note that abstracts should be submitted by Friday August 10, and registration closes on Friday September 21, or when all slots are filled.

Registration is through a website provided by the Royal Statistical Society (https://events.rss.org.uk/rss/-frontend/reg/thome.csp?pageID=71232&ef_sel_menu=1389&eventID=230).

The registration fee is 5 for students and 15 for others. A bursary of 250 will be available to the early career speakers.

CHARLESWORTH

<Brian.Charlesworth@ed.ac.uk>

Brian

KewGardens UK FungalEvolution Sep13-14

Dear colleagues,

I'd like to remind you of two important State of the World's Fungi Symposium dates coming up:

Deadline for poster abstracts: Thursday 9 August 2018

Deadline for symposium registration: Monday 13 August 2018

Building on the success of our State of The World's Plants project, the Royal Botanic Gardens, Kew is pleased to announce the first international State of the World's Fungi Symposium. We would be extremely grateful if you could please share details of this event with relevant colleagues/networks and display copies of the attached poster in your department.

State of the World's Fungi Symposium

13-14 September 2018

Royal Botanic Gardens, Kew

The State of the World's Fungi Symposium coincides with the launch of a cutting-edge new report highlighting our current state of knowledge and the major issues

affecting fungal diversity and abundance. Also featured are fungal-plant interactions, conservation and uses of fungi, and the fungal tree of life.

The two-day symposium brings together plant and fungal scientists, ecologists, conservationists and industry and policy experts from around the world, to discuss issues raised in the report.

The event is based around seven topical questions, with each session comprising talks from invited experts followed by a panel Q&A to discuss the emerging issues:

1. Conservation of fungi: what, why, where and how?
2. Does all plant life depend on fungi?
3. And have you forgotten the lichens?
4. Do fungi provide a greater ecosystem service or disservice?
5. Fungal networking ??? who benefits?
6. Panning for gold in the mould: where do we find commercial value in fungi?
7. Exploring the dark taxa: when does a molecular signature become a species?

View the programme

Call for abstracts

We are inviting abstract submissions from delegates wishing to present a poster accompanied by a one-minute oral presentation. Prizes will be awarded for the best student and early career researcher posters.

We welcome abstract submissions from mycologists, plant scientists, ecologists, conservationists, policy specialists, industry professionals and others ??? on any of the following subjects:

- * Conservation of fungi
- * Useful fungi
- * Newly discovered fungi
- * Climate change and impact on fungal communities
- * Fungal pathogens
- * Positive fungal-plant interactions
- * Fungal genomes
- * China (country focus)
- * Fungal tree of life
- * Definition and diversity
- * Lichens
- * Ecosystem services
- * Dark taxa
- * Policy

Deadline for abstracts: Thursday 9 August 2018

Registration

Symposium ticket: ??160 + VAT (??192 including VAT) ??? available until 13 August

The registration fee includes attendance, lunch and refreshments on both days, and a drinks reception during the poster session on 13 September.

For more information, to submit an abstract or to register for the meeting, please visit: www.kew.org/fungi-symposium . If you no longer wish to hear from us about our State of the World's Fungi and State of the World's Plants projects, please email sotwf@kew.org stating ???please unsubscribe??? in the subject line.

Please take some time to read our privacy policy which

explains what data we collect and why, how we use it and other information relevant to the privacy of your data.???

Very best wishes,

Alastair Lamb

Project Manager

Royal Botanic Gardens, Kew

Richmond, Surrey, TW9 3AE, UK

sotwf@kew.org

www.kew.org/fungi-symposium Alastair Lamb
<A.Lamb@kew.org>

Leicester InsectGenomics Sep14

Dear All,

We are excited to announce the next Royal Entomological Society Genomics Special Interest Group meeting! This is a one day meeting to be held in Leicester, UK on 14th September 2018.

The aim of this meeting is to bring together researchers working on any aspect of insect genomics. The day will consist of a series of contributed talks and a keynote lecture by Dr. Yannick Wurm from Queen Mary University of London. There will also be a poster session and subsequent wine reception. Additionally this year we have very generous prizes for best student talk and poster provided by the NERC CENTA doctoral training partnership, as such we particularly encourage students of all stages to submit an abstract.

You can register at:

<https://www.royensoc.co.uk/meeting/insect-genomics>

Registration costs just pounds 15 for the day and is reduced further for members of the Royal Entomological Society.

Please send abstracts to:

resgenomics2018@gmail.com

(250 word limit, indicate talk/poster preference)

Abstract deadline: 5pm on Friday August 31st.

Follow #EntoGenomics2018 on Twitter for regular updates and news.

Best Wishes,

Hollie Marshall and Katherine Beadle

(2018 Organising Committee)

Hollie Marshall <hollie_marshall@hotmail.co.uk>

Marseilles EvolBiol Sep25-28 Program LateRegistrations

Dear All The 22nd evolutionary biology meeting at Marseilles program will be available the 5 of july see aeeb.fr and follow the evolutionary biology meeting link.

the late registrations are open (few spots for poster presentations are available)

Date of the meeting : September 25-28

best regards

Pierre

Pierre Pontarotti DR CNRS

1 Aix Marseille Univ, IRD, APHM, MEPHI, IHU Méditerranée Infection, Marseille France Evolutionary Biology team. 2 CNRS tel 33 (0) 4 13 7 32425 http://aeeb.fr/?page_id=1013 we are organizing the 22nd evolutionary biology meeting at Marseilles September 25-28 2018 aeeb.fr

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

Marseilles EvolutionaryBiology 2019And2020

Dear all these are the dates for the 23rd and 24th Evolutionary Biology meeting "at " Marseilles

2019, 24 - 27 September 2020, 22 - 25 September

For this year we have still few spots for poster presentations

more info : aeeb.fr

face book: Evolutionary biology meeting Marseilles

best regards Pierre

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

Montpellier OriginAgriculture Sep11-14

Conference: Montpellier.OriginAgriculture.Sep11-14.
Registration open.

Dear colleagues,

We are pleased to announce that registration is now open for the Third Jack R. Harlan International Symposium, dedicated to the Origins of Agriculture and the Domestication, Evolution, and Utilization of Genetic Resources (10-14 Septembre 2018, Montpellier, France - www.harlan3symposium.org <<https://sites.google.com/site/harlansymposium2017/-call-for-abstract> >)

In addition, the deadline for abstracts submissions is extended to Tuesday, 5th June 2018.

Note also that the conference organizing committee will be able to contribute to the cost of attendance of a limited number of delegates, depending on the funds available.

Please refer to our website for all practical and scientific details : www.harlan3symposium.org <<https://sites.google.com/site/harlansymposium2017/-call-for-abstract> >

Thank you for sharing this information with your colleagues and scientific network,

Sincerely,

The organization team.

contact@harlan3symposium.org

www.harlan3symposium.org – Yves Vigouroux Responsable de l'Equipe Anthropisation et Dynamique de la Diversité Génétique -DYNADIV IRD - Institut de Recherche pour le Développement 911 avenue AGROPO-LIS BP 64501, 34394 Montpellier cedex 5 France Tel : 33 (0)4 67 41 62 45 ; Fax : 33 (0)4 67 41 62 22 Email : yves.vigouroux@ird.fr

Web : <https://sites.google.com/site/-plantbiodiversityadaptation/> “yves.vigouroux@ird.fr” <yves.vigouroux@ird.fr>

Moscow PhylogeneticsBiobanking Aug25-28 ExtDeadline

V Moscow International Conference “Molecular Phylogenetics and Biodiversity Biobanking Molphy-5” Moscow State University, 25-28 August 2018, Russia, www.molphy.ru—Colleagues -please consider the extended deadline to submit to V Moscow International Conference “Molecular Phylogenetics and Biodiversity Biobanking Molphy-5”. The venue is updated, and we will have additional slots.—Important dates: July 16, 2018—— registration deadline, abstract submission deadline July 20, 2018—— normal registration fee payment deadline—The “MOLECULAR PHYLOGENETICS” conference series is organized to provide a platform for the exchange of ideas and experiences in contemporary phylogenetics, evolutionary genomics, and bioinformatics of molecular evolution. This round the program also places emphasis on genomics of biodiversity, and various aspects of establishing and sustaining banks of molecular data and tissue samples for biodiversity research. This interface is rapidly developing, and is identified as an inter-faculty initiative of Moscow State University funded by the Russian Science Fund. Primary organizers are Moscow State University and the Russian Academy of Sciences, with support from other established academic and commercial organizations.—The major scope includes:— Evolutionary genomics- Molecular phylogenetics and systematics- Genomics of biodiversity- Biobanking- Molecular dating and scenarios of coevolution- Evolution and development (evo-devo)- Models and algorithms for molecular evolution- Molecular ecology and biogeography- Applied phylogenetics——The conference will take place at the Moscow State University campus on Sparrow Hills (Vorob'evy Gory) located about halfway between the center of Moscow at the Kremlin and the city's current outskirts. The campus has a much peculiar history, and is inimitable from the standpoint of architecture and its location as the roof of the city.— Further information is available on the conference website at www.molphy.ru.—With best wishes, Organizers of MolPhy-5 phone +7 (495) 939-3193, +7 (495) 924-9300 fax +7 (495) 939-3181 molphy@molphy.ru—

roussine@yandex.ru

NHM London YoungSystematists Nov23

20th YOUNG SYSTEMATISTS' FORUM

Friday, 23 November 2018, 9:30 am

Venue: Flett Lecture Theatre,

Natural History Museum, London, UK

The annual Young Systematists' Forum represents an exciting setting for Masters, PhD and young postdoctoral researchers to present their data, often for the first time, to a scientific audience interested in taxonomy, systematics and phylogenetics. This well-established event provides an important opportunity for budding systematists to discuss their research in front of their peers within a supportive environment. Supervisors and other established systematists are also encouraged to attend.

Prizes will be awarded for the most promising oral and poster presentation as judged by a small panel on the day.

Registration is FREE.

Send applications by e-mail to YSF.SystematicsAssociation@gmail.com, supplying your name, contact address and stating whether or not you wish to give an oral or poster presentation. Please also tell us your academic stage - e.g., Masters, PhD or postdoc. Space will be allocated subject to availability and for a balanced programme of animal, plant, algal, microbial, molecular and other research. Non-presenting attendees are also very welcome - please register as above.

Again the YSF will be held the day after the Molluscan Forum (<http://www.malacsoc.org.uk/-MolluscanForum.htm>) also at the Natural History Museum. This has been arranged so both meetings can be attended, although if attending both you will have to register for both meetings separately.

Abstracts must be submitted by e-mail in English and in Word format no later than Friday 26 November 2018. The body text should not exceed 150 words in length. Title, authors, and their professional affiliations/addresses should be included with the abstracts. If the presentation is co-authored, the actual speaker (oral) or presenter (poster) must be clearly indicated in BOLD text. The file should be in editable format (.doc or .odt, not

pdf) and titled Surname_First-name_YSF2018.doc, for example Doe_Jane_YSF2018.doc.

If you have presented a talk at the YSF before, we ask that you submit only for a poster presentation, as speaker slots are limited and we want to give as many people a chance as possible. Similarly, if you are presenting at both the YSF and MF, we ask that you not apply for speaking slots in both (or let us know so we can assess).

All registered attendants will receive further information about the meeting, including abstracts, by e-mail one week in advance. This information will also be displayed on the Systematics Association website (www.systass.org).

Ellinor Michel <e.michel@nhm.ac.uk>

ParkCity Utah EvolutionAndMedicine Aug1-4

Final days to register for the August 1 to 4 Fourth Annual International Society for the Evolution, Medicine & Public Health (ISEMPH). The Society meeting brings together evolutionary biologists, anthropologists, public health researchers and medical professionals to discuss the latest advances in using evolutionary biology to improve human health. The meeting is Aug 1-4 in Park City, a recreation paradise just above Salt Lake City. Register now <https://isemph.org/annualmeeting>. The majority of participants are evolutionary biologists and anthropologists but for physicians the University of Utah School of Medicine has designated this meeting for up to 29.75 hours of AMA PRA Category I Credit.

The meeting also includes a special wilderness medicine preconference August 1st. https://isemph.org/-annualmeeting#id_00rFXfn The program is here <http://isemph.org> <https://evmedreview.com/isemph-meeting-program/> **PLENARY SPEAKERS**

EVOLUTION OF DISGUST AS A PARASITE AVOIDANCE BEHAVIOUR Val Curtis London School of Hygiene & Tropical Medicine

LEARNING AND PERTURBING THE EVOLUTIONARY MECHANISMS DRIVING THERAPEUTIC RESISTANCE IN CANCER AND PATHOGENS Jacob Scott Cleveland Clinic

BUILDING A COSTLY BRAIN: IMPLICATIONS FOR THE EVOLUTION OF HUMAN CHILDHOOD AND

THE DEVELOPMENTAL ORIGINS OF METABOLIC DISEASE Chris Kuzawa Northwestern University

RESISTANCE EVOLUTION AND ITS MANAGEMENT IN A MULTI-DRUG HOSPITAL PATHOGEN Andrew Read Pennsylvania State University

ADOLESCENT REPRODUCTIVE DEBUT: LIFE HISTORY TRADEOFFS IN A CLINICAL CONTEXT Katie Hinde Arizona State University

SPECIAL CME PRE-CONFERENCE: EVOLUTION AND WILDERNESS MEDICINE ADAPTATION TO EXTREME ENVIRONMENTS Joe Alcock, Chair Faculty: Cynthia Beall, Rick Henriksen, Melissa Ilardo, Michael Lauria, Scott McIntosh, Diane Rimple, Blair Wolf

SYMPOSIUM I: EVOLUTION AND HEALTH BEHAVIOUR Chair: Gillian Pepper Presentations: Athena Aktipis, Bruce Ellis, Mike Gurven, Dandara Ramos

SYMPOSIUM II: COMPARATIVE ONCOLOGY Co-Chairs: Athena Aktipis & Amy Boddy Presentations: Lisa, Abegglen, Athena Aktipis, Amy Boddy, Valerie Harris

SYMPOSIUM III: NOVEL SOLUTIONS TO CHEMOTHERAPEUTIC RESISTANCE Chairs: Michael Hochberg Presentations: Sam Brown, Ben Chan, Michael Hochberg, Nina Wade

SYMPOSIUM IV: EVOLUTION AND MEDICINE IN LIGHT OF THE MICROBIOME Chair: Seth Bordenstein Presentations: Katherine Amato, Seth Bordenstein, Jennifer Stearns

SYMPOSIUM V: ADAPTATION AND CRITICAL CARE Chair: Joe Alcock Presentations: Scott Aberegg, Janelle Ayres, and John Marshall

Randolph Nesse <nesse@asu.edu>

Philadelphia EPiC Sep8

Oral and poster abstract submissions and FREE registration for the Evolution in Philadelphia Conference (2018) will close on *August 8th at midnight*. EPiC 2018 will be hosted at the Academy of Natural Sciences on Saturday, September 8th from 9:00 am - 5:30 pm and will feature student awards, ASN (American Society of Naturalists) and GSA (Genetics Society of America) plenary speakers, and dozens of amazing evolution talks and posters. We are also excited to announce our clos-

ing plenary speaker will be Dr. Paul Turner from Yale University.

For more conference details, and to register for EPiC 2018, go to: <https://philadelphiaevolut.wixsite.com/-epic> If you have any questions, please contact the EPiC organizing committee at PhiladelphiaEvolution-Group@gmail.com. After August 8, paid registration slots will be available on a first-come-first-serve basis, until August 28th.

EPiC 2018 Organizing Committee

meghan.barrett21@gmail.com

Puerto Rico Evolutionary Anthro Nov1-4 ExtDeadline

EXTENDED DEADLINE - CALL FOR ABSTRACTS ALAB2018 (<http://www.pr-science.org>) XV CONGRESS of the Latin American Association of Biological Anthropology (ALAB2018) 1-4 NOVEMBER 2018, MAYAGUEZ, PUERTO-RICO Abstract submission is still open for the 15th Congress of the Latin American Association for Biological Anthropology, that will take place in Mayagüez, Puerto Rico from November 1- 4, 2018.

The extended deadline for abstract submission is Sunday, July 8th, 2018.

The ALAB is a corporation that brings together scholars interested in the fields of Physical Anthropology and Human Biology. Its members can be located in Latin American countries or elsewhere if their investigations relate to Latin America.

The ALAB congresses are held every two years since 1990, offering Latin American researchers and to those interested in anthropological studies on Latin America a periodic opportunity for the discussion of scientific experiences and issues linked to the development of the discipline in a local, regional and continental context.

The conference will feature speakers Hannes Schroeder, Miguel C.

Botella, Andrés Moreno, and Jay Bryant Haviser, Jr., and will be organized around the following 18 Thematic Symposia 1. Genetics' Rescue of the Peopling of South America Pre- Columbian History 2. Forensic Anthropology: Challenges between Science and Jurisprudence 3. Bioanthropology of obesity: A challenge for the Prevention of Chronic Diseases 4. Stable Isotopes Applied

to Paleo-Diet and Mobility Studies in Latin- American Archaeology 5. Biological Approaches to the Study of Social Complexity in the Past 6. Historic Bioarchaeology in Latin America 7. Forensic Anthropology in the Latin American Context: Towards a Reflection 8. Obesity: Methodology and Epidemiological Projections from Biological Anthropology 9. Biodemography: Interdisciplinary Perspectives in Population Studies 10. From Theory to Practice: Applied Biological Anthropology in Latin America 11. Quality of Life from Different Anthropological Perspectives 12. Ancestry and Public Topics 13. A Continental Perspective of African Genetic Diversity in Caribbean and Latin American Populations 14. Genetics, Ancestry, and Disease in Modern Latin American Populations 15. The role of genetics, physiology and the environment in shaping non-human primates' social lives 16. Employing the Power of DNA to Untangle Caribbean History 17. Discovery of Rare and Population-Specific Variants of Relevance to Precision Medicine in Understudied Populations 18. Simposio abierto / Open Symposium

The overall objective of the Congress is to bring together scholars in our field in a healthy environment for the contact, discussion of problems and new ideas, and the development of collaborative networks of researchers and students.

We invite you to submit abstract of your talk or poster. While preparing your abstract, please consider that:

Word count of an abstract is limited to 300 words, excluding the title, author names and affiliations.

You will need to specify in which symposium, if any, you want your abstract to be included. If you believe your submission does not fit in any of the available symposia, please specify "Other". New symposia could be built from the abstracts submitted. In addition, there will be space in the schedule for free communications.

Please specify if you wish your presentation to be oral or by poster.

We will try to fulfill the wishes of everyone, but please be aware that we might be able to offer you only your second option.

Abstract acceptances will be published after July 27, 2018.

Please visit our website at <http://www.pr-science.org/> for more information.

We are looking forward to hearing from you ALAB Organizing Committee Mayaguez, Puerto Rico

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UBath Evolution Sep18-20

Conference registration now open for the Inaugural Conference of the Milner Centre for Evolution: Evolution in the 21st Century

University of Bath, 18-20 September 2018

The conference will provide a unique forum for researchers from all aspects of evolutionary biology, including palaeobiology, human health, genomics, macroevolution and evo-devo. It will mark the opening of the new Milner Centre for Evolution, which is a unique multidisciplinary international research Centre bridging biology, health, and education, and the only research centre of its kind.

Conference highlights include:

- keynote speakers (see biographies below) presenting on cutting edge fundamental evolution, applied evolution and recent advances in the teaching of evolution
 - a roundtable discussion between eminent evolutionary biologists and science communicators
 - a lecture given by the Milner prize winner
 - extensive networking opportunities
- Conference fees: Students: 90 Non-student/Postdoc: 150

The conference registration fee also entitles delegates to attend:

- Welcome reception at the Roman Baths: Tuesday 18 September, 7pm
- Networking reception including poster presentations: Wednesday 19 September, 4.30pm
- Conference dinner: Thursday 20 September, 8pm
- Alice Roberts public lecture: Friday 21 September, 6.30pm

Katie Ward <klw62@bath.ac.uk>

UGoettingen EvolutionOfSensation Sep27-28

Dear colleagues and students,

We are extending the deadline for registration for our 6th meeting #Sensation @GOEEvolution 2018 about the evolution of sensation taking place in Goettingen from September 27th to 28th 2018 (<http://goevol.uni-goettingen.de/index.php?id=meeting20180>). Registration will only be possible until August 15th 2018 under following link.

Only a few places remaining!

<http://goevol.uni-goettingen.de/index.php?id=addgroup0> Costs to register are 10 EUR for students, 20 EUR for Postdocs and PIs.

For more details see email below or visit our website at <http://goevol.uni-goettingen.de/index.php?id=meeting20180> . Looking forward to meeting you!

The GOEvol Team <https://goevol.uni-goettingen.de/>
Twitter: @GOEEvolution

On behalf of the organising team,

Max S. Farnworth

Georg-August-University of Göttingen Johann-Friedrich-Blumenbach Institute of Zoology and Anthropology
Department of Evolutionary Developmental Genetics
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Twitter: @StephesMax

“Farnworth, Max” <mfarnwo@gwdg.de>

UMiami EvolutionaryDemography Jan10-12

UMiami, Coral Gables, FL USA. Evolutionary Demography Society Sixth Annual Meeting. Jan 10-12,2019.
< <https://evodemovi.weebly.com/> >

EVOLUTIONARY DEMOGRAPHY SOCIETY < <https://evodemovi.weebly.com/> > What is Evolutionary Demography? The Evolutionary Demography Society , founded in 2013, is a scientific organization that is focused on conceptual integration across disciplines, most notably human...

carolhorvitz@miami.edu

UPittsburgh Evolution Sep22

We are pleased to invite interested researchers from all career stages and institutional affiliations to the 2nd annual Three Rivers Evolution Event (TREE), a regional evolution conference to be held on September 22nd, 2018 at the University of Pittsburgh, PA. TREE aims to bring together researchers to share and discuss all aspects of evolutionary biology in a diverse, exciting, and accessible environment. Last year, 168 attendees from 38 different institutions joined us in our shared passion for evolution, and we expect our community to grow even larger in 2018. This year’s keynote address will be delivered by Dr. L Lacey Knowles of the University of Michigan.

Please add this account (TREEconf@pitt.edu) to your contacts to ensure that future emails are delivered without issue!

Registration and Call for Abstracts:

Researchers of all stages and institutional affiliations are welcome to present. The deadline for both registration and abstract submission is July 31st. To register and/or submit an abstract for a talk or poster, please see our website: <https://sites.google.com/view/treepgh> There is no fee for registration. Breakfast will be provided free of charge.

Accommodations:

Conference lodging is available at reduced cost at the Wyndham Pittsburgh University Center, and at the Hampton Inn Pittsburgh University/Medical Center. Reservation details can be found on our website. Please note that the deadline to reserve a room at a discounted rate is August 31st for the Wyndham, and September 7th for the Hampton Inn.

Please share this invitation with prospective attendees and/or the appropriate mailing lists at your institution. We look forward to seeing you in September!

Best,

The TREE 2018 Organizing Committee

Contact us at TREEconf@pitt.edu

Find all of our conference information at <https://sites.google.com/view/treepgh> Three Rivers Evolution Event <TREECONF@pitt.edu>

GradStudentPositions

AustralianNationalUniversity Ecophysiology 10	TU Munich PopulationGenomics 24
Barcelona MathematicalBiology 11	UBarcelona ComparativeGenomics 24
CIBIO UdoPorto Biodiversity 12	UBath ExperimentalEvolution 25
Giessen Germany ToxinEvolution 13	UBedfordshire UK PlantSystematicsEvo 26
JustusLiebigU ComparativeVenomics 14	UBern EvolutionBehaviour 26
KU Leuven AntarcticFishPopulationGenomics 15	UCanterbury SexualSelectionAndEvolutionPipefish 27
LiverpoolJohnMooresU CichlidBreeding 15	UCL Belgium GlobalChangeBiodiversity 27
LiverpoolJohnMooresU SocialEvolution 16	UGraz 3 EvolutionaryBiol 28
MacquarieU SpeciationInFinches 17	UIceland EvolGenomicsHighlyFecundGadids 28
ManchesterMU DragonflyConservationGenetics 18	UNevada LasVegas BioinformaticsGenomics 101
Montpellier EcoEvolutionaryDynamics 19	UNewOrleans ComputationalModelingSimulations . 30
MPIO Seewiesen EvolutionCognition 19	UOtago FishEpigenetics 30
MPI Ploen PredictingEvolution 20	UOxford PredictingAntimicrobialSpread 31
Paris 2 EvolutionOfSexualReproduction 20	UPittsburgh Evolution Sep22 TravelAward 32
PotsdamU FishAdaptiveGenomics 21	USydney EvolutionarySensoryEcol 32
SoutheasternLouisianaU EvolutionaryBiol 22	UValencia EvolutionSexualConflict 33
StockholmU DiapauseEvolutionaryPhysiology 22	UVermont Evolution 33
StonyBrookU EvolutionaryBiol 22	UWisconsin Milwaukee KelpPopulationGenetics . . . 34
TelAvivU EvolutionaryBiology 23	

AustralianNationalUniversity Ecophysiology

Expression of interest sought for potential Ph.D. project at The Australian National University: Interaction between maternal effects and thermal developmental plasticity in shaping the pace-of-life in a widespread Australian lizard

The Project: The Noble lab ([*http://biology.anu.edu.au/people/daniel-noble](http://biology.anu.edu.au/people/daniel-noble) *) at the ANU is seeking expressions of interest from high-quality candidates interested in pursuing a PhD exploring the links between metabolism, thermal plasticity and maternal effects in an Australian lizard. Field and lab experiments will be designed to test both predictions and assumptions stemming from pace-of-life theory and the metabolic theory of ecology. There is ample flexibility for the candidate to develop and pursue their own research questions within this grand theme, but there is an expectation that the candidate will make use of broad-scale meta-analytic and comparative approaches in combination with manipulative experiments.

The Candidate: Suitable applicants will be enthusiastic and highly motivated, with a strong academic and research background. A demonstrated ability to conduct research is required and the student should have lab and field experience along with an interest in physiological processes. Experience in programming and data analysis is also desirable, but not essential.

Location: The candidate will be based in the Division of Ecology and Evolution at the Research School of Biology at the Australian National University in Canberra, Australia. The ANU is one of the best universities in the world and is one of the highest ranked universities in Australia. The candidate will make use of ANU's excellent semi-natural outdoor mesocosms and temperature controlled facilities for conducting experiments. Fieldwork will take place along Australia's east coast. The candidate will also work closely with collaborators, both abroad, and within the Research School of Biology ([*http://biology.anu.edu.au/research/divisions/ecology-and-evolution](http://biology.anu.edu.au/research/divisions/ecology-and-evolution) *) for various aspects of the project.

Expression of interest: Expressions of interest should be submitted directly to Daniel Noble ([*daniel.wa.noble@gmail.com](mailto:daniel.wa.noble@gmail.com) *) by August 10, 2018. Please include a brief statement on why you are

interested in this project, a CV and contact details for references. Following assessment of applications, one applicant will then be invited to formally apply to the ANU. The successful applicant should be able to start by February 2019. You can also find out more information about the graduate program by clicking on the “Higher Degree by Research” tab at <http://biology.anu.edu.au/education/-degree-programs> . “daniel.noble@unsw.edu.au” <daniel.noble@unsw.edu.au>

Barcelona Mathematical Biology

TRAINING PROGRAMME IN

Collaborative Mathematical Research

Page Content

The CRM welcomes applications for one postdoctoral position for 2 years and two doctoral positions for 3 years starting preferably in September 1st, 2018 within the CRM *la Caixa* Foundation Collaborative Mathematical Research programme.

Proposed projects

Fellows must apply to a position to develop one of the following projects:

Disentangling the network: Understanding pattern formation in angiogenesis through mathematical modelling

Project for a Ph.D. Grant

Advisor: Tom Alarcón

Computational and Mathematical Biology Group

Unveiling the mathematical laws of language and music

Project for a Ph.D. or Postdoctoral Grant

Advisors: Ivaró Corral, Isabel Serra

Complex Systems Group

Moving boundary problems at the nanoscale

Project for a Postdoctoral Grant

Advisor: Tim Myers

Industrial Mathematics Group

Flexible rewiring of neuronal assemblies through fluctuation-driven plasticity

Project for a Ph.D. or Postdoctoral Grant

Advisor: Alex Roxin

Computational Neuroscience Group

The Collaborative mathematics of pattern formation in embryonic development and evolution

Project for a Ph.D. or Postdoctoral Grant

Advisor: Isaac Salazar

Computational and Mathematical Biology Group

A Dynamical Systems Analysis of Microbial Multi-Species Ecosystems

Project for a Ph.D. Grant

Advisor: Josep Sardanyà

Computational and Mathematical Biology Group

Approximation and big data analysis

Project for a Ph.D. or Postdoctoral Grant

Advisor: Sergey Tikhonov

Harmonic Analysis and Approximation Theory Group

Neural code and computational mechanisms of working memory

Project for a Ph.D. Grant

Advisor: Klaus Wimmer

Computational Neuroscience Group

Eligibility criteria

The programme is open to applicants of all nationalities.

Doctoral students:

??? A basic requirement to be admitted to the programme is fulfilling the admission criteria of a doctoral programme in mathematics of some Catalan university when beginning the doctoral project. For more information see here.

??? The candidates must have outstanding academic records and a good level of English.

Postdoctoral researchers:

??? Candidates must hold a PhD at the time of joining the programme.

Contract conditions

Doctoral students:

??? Doctoral students in this programme will become members of the CRM Doctoral Training Unit (see here).

??? The doctoral students who pass the selection process will join the programme for 36 months. This includes an initial contract of 12 months renewable for a second and a third year with a gross salary of ???18.000 Euros per year.

??? Contract renewal is subject to the positive reports emitted by the supervisor.

??? The CRM will pay the tuition fees for a doctoral programme in mathematics at a Catalan university. Students will be given a mobility allowance for activities related to their training (600 ???/year) and will sign a credential form.

Postdoctoral researchers:

??? The postdoctoral researcher contract will be for 12 months renewable for a second year, subject to a positive evaluation of the supervisor. The gross salary will be ???25,000 per year.

??? Postdocs will be given a mobility allowance for activities related to their training (2.000 ???/year) and will sign a credential form.

How to apply

To apply to these positions, candidates must send an email with the following information to crm-calls@crm.cat:

?? CV including name, personal address, email and phone number

?? The contact information from two researchers who are able to provide recommendation letters in favour of the candidate.

?? An expression of interest specifying the project on which the candidate wants to collaborate.

?? For Doctoral applicants, the academic records

Applications Deadline

The deadline to submit an application is July 29, 2018. Applicants should be available for interviews (possibly via Skype) on July 30 and 31 and from September 3 to 7.

Selection process

Admission to the programme is on a competitive basis. Applications will be screened initially by the CRM executive committee to ensure that they are complete and eligible. All eligible applications will be reviewed by a selection committee, which will evaluate candidates based on the following criteria:

??? The candidate's academic merit and potential for successful research while at the CRM, as evidenced by their qualifications and grades, and previous research experience.

??? The information given by the candidate on the application form, and in particular the motivation letter.

The selection committee will consider all the applications and select a number of candidates to be interviewed by

potential supervisors and discuss their research interests. Shortlisted candidates will be

— / —

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>

CIBIO UdoPorto Biodiversity

Research Fellowship - Master

Reference: ICETA 2018-44

Link to the call - <http://www.eracareers.pt/-opportunities/index.aspx?task=global&jobId=101523>

Main research field: Biological sciences

Sub research field: Biodiversity

A Research Fellowship (BI - Ms), with the Reference ICETA 2018-44, in the project PTDC/BIA-BIC/3545/2014, entitled "Next Generation Conservation: preserving the continuum of life in space and time" is available at CIBIO-InBIO, through ICETA, Instituto de Ciências e Tecnologias Agrárias e AgroAlimentares da Universidade do Porto, funded by the Fundação para a Ciência e a Tecnologia, I.P., (FCT/MCTES) and COMPETE - Programa Operacional Factores de Competitividade (POFC) - POCI-01-0145-FEDER-016853.

Eligibility Requirements: The prospective candidates must hold a Master degree in Biology or similar scientific area. The candidate must have previous experience in DNA extraction and computational analysis in R environment. Preference will be given to candidates with previous experience in analysis of large genomic datasets for population genomics and phylogeography, skills in Geographic Information Systems and proficiency in written and spoken English.

Work Plan: NGC project aims at developing a novel and general framework to assist in delineating priority conservation areas, optimized to preserve biodiversity at different evolutionary levels, while accounting for adaptive potential and evolutionary and spatial dynamics under climate change.

The activities related to this grant include genomic DNA extraction and quality assessment, analysis of large genomic datasets for population genomics and phylogeography, detection of loci undergoing local adaptation, and scientific writing of papers and reports.

Applicable Legislation: A fellowship contract will be celebrated according to Lei n.º40/2004, de 18 de Agosto (Estatuto do Bolseiro de Investigação Científica) and < <http://www.fct.pt/apoios/bolsas/-docs/RegulamentoBolsasFCT2015.pdf> > Regulamento de Bolsas de Investigação da Fundação para a Ciência e a Tecnologia.

Work Place: The work will be conducted at CIBIO-InBIO - Centro de Investigação em Biodiversidade e Recursos Genéticos, Universidade do Porto, Campus de Vairão, Rua Padre Armando Quintas, 7, 4485-661 Vairão, under the supervision of Dra. Sílvia B. Carvalho e do Dr. Guillermo Velo-Antón.

Duration of the fellowship: The fellowship will have a duration of 9 months (the duration of the fellowship can't exceed the end date of the project), starting on September 1, 2018.

Monthly stipend: Monthly stipend is euro 980 according to the stipends established by FCT, I.P. in Portugal (<http://alfa.fct.mctes.pt/apoios/bolsas/valores>). Payment will be made by bank transfer on a monthly basis. The successful candidate will also be entitled to the reimbursement of Social Security payments (Seguro Social Voluntário) and work insurance.

Selection criteria: The grant will be awarded based on the candidates' academic curriculum, technical skills, and the best candidates will be invited to a job interview, weighted 50%, 40%, and 10% respectively. The jury may not award the fellowship if the candidates' CVs are not aligned with the qualifications desired.

Jury composition: Sílvia Carvalho, Guillermo Velo-Antón, Pedro Tarroso and Ana Veríssimo.

Publicity and communication of results: The ranking of applications will be published at a visible and public area of ICETA facilities, and all candidates will be informed by email about the result of their application.

Application: The call for applications is open between 18/07/2018 and 01/08/2018 (24:00 GMT).

Applications should be submitted in Portuguese or English by email to bolsas@iceta.up.pt with the fellowship reference in the subject area (Reference ICETA 2018-44), and the following documents attached:

a) Curriculum vitae (including academic training and professional career, a publication list, other relevant information in the context of the project research goals, email address and copies of certificates of academic degrees);

b) Motivation letter (including a brief description of research experience, why the candidate is suitable for the announced position, and whether he/she might be

interested in continuing to work on this project in the future).

<https://cibio.up.pt/open-positions-careers/details/iceta-2018-44> CIBIO-InBIO Divulgação

Giessen Germany ToxinEvolution

PhD Position in Comparative Venomics

Based at the Institute for Insect Biotechnology, Justus-Liebig-University Gießen, a scientific researcher position is available from the 01.01.2019 until the 31.12.2021 (experience depending salary band TV-H E13, 65%), within the German Science Foundation funded project:

Venom evolution in solitary and eusocial aculeate hymenopterans

Project description

The project focuses on comparative venomics and toxin evolution of social and solitary bees and wasps. One aim is to understand better processes that drive toxin evolution in hymenopterans. Genomes will be complementary analyzed to proteomics and transcriptomics data to tackle this major aspect. Potentially the evolutionary history of single toxins will be a side aspect and later spin off. Proteomics is in parallel conducted via collaborations, depending on the results activity tests and assays are planned for some interesting toxin candidates.

Requirements

We are looking for a highly motivated candidate who is self-organized, independent but also a team player with excellent communication skills. Demonstrated skills in written and spoken English are important, the language in the working group is mostly English. Applicants should hold a Diploma/Master degree in Biology or related natural sciences and should have proven skills/background in following topics:

- Bioinformatics and transcriptomic/genomic work and analyses

- Skills in using/writing scripts (e.g. Python, Perl)

- Laboratory experience in RNA extraction, library reconstruction and/or knowledge in proteomic work (HPLC, 2D-SDS Page and MassSpec) is an advantage.

- Fieldwork experience and knowledge of hymenopterans is a further asset, one part of the project includes potentially the collection of hymenopterans in collaboration

with colleagues in Germany and the US.

We offer a unique opportunity to grow and participate in an integrative environment in the new group of animal venomics using transcriptomics, genomics, proteomics with interests in evolutionary and applied aspects. The main PI in this project is Dr. Björn M. von Reumont.

Location

Gießen is a vibrant student town at the river Lahn in the green heart of the State Hessen, very central in Germany. Other, old university cities like Marburg or Wetzlar are located within 20 km. The metropolis Frankfurt with its large international airport is roughly 50 km away and its center can be reached from Gießen within 40 minutes by regional trains.

Please send applications without photograph and without date of birth as single PDF file including a CV (with two references), certificates, motivation letter (â1 page) with additionally a short summary of previous work and applied methods (â 1 page), and one reference letter to: Bjoern.Von-Reumont@agrar.uni-giessen.de.

The JLU Gießen promotes equal opportunities and diversity in its employment relations. Women are expressly encouraged to apply and given priority in accordance with the Equal Opportunities Act. We expressly welcome applications from individuals with severe disabilities or people of equivalent status. Severely disabled applicants of equal merit and qualifications will be given priority.

Application deadline is the 31.08.2018, preferred starting date is 1st of January 2019

Official link to German JLU Announcement:

<http://www.inst.uni-giessen.de/stellenmarkt/pdf/-stelle0010968.pdf> Björn Marcus von Reumont <bmvr@arcor.de>

JustusLiebigU ComparativeVenomics

PhD Position in Comparative Venomics

Based at the Institute for Insect Biotechnology, Justus-Liebig-University Gießen, a scientific researcher position is available from the 01.01.2019 until the 31.12.2021 (experience depending salary band TV-H E13, 65%), within the German Science Foundation funded project:

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KU Leuven AntarcticFishPopulationGenomics

The Laboratory of Biodiversity and Evolutionary Genomics (KU Leuven) is inviting excellent candidates to apply for a PhD grant from the Research Foundation Flanders. We are looking for a strongly motivated student to work on population genomics and metabarcoding of Antarctic fish. In this context we aim to develop a competitive grant application that the candidate will submit in Sept. and defend in Nov.-Dec. 2018. The candidate will be enrolled as pre-doctoral student for three months. The subsequent PhD position is dependent on the success of this application.

Topic Population genomics of Antarctic fish

The successful candidate must have - Master's in biology or equivalent from a European university with excellent study results - Interest in fish biology and polar ecosystems - Strong experience with and knowledge in molecular ecology - Background in population genomics, metabarcoding and/or dispersal and ecological niche modelling techniques - Preparation of a Research Foundation - Flanders grant for strategic basic research (SB) by 15th September 2018. If the application is successful, the applicant will start a PhD at the KU Leuven Arenberg Doctoral School on 1st January 2019 with a 100% salary for 4 years. - Willingness to prepare and participate in long sampling campaigns

Applications must include a cover letter explaining

the qualifications and motivations for the position, a transcript of the Ba and Ma courses, a curriculum vitae and the names of two referees. The position is available immediately and remains open until filled (latest 15th of August). Please send an email with your application to Filip.volckaert@kuleuven.be and LBEGKUL@gmail.com with the Subject "PhD Position Antarctica".

Summary The marine ecosystem of the Southern Ocean provides an exceptional natural laboratory to study evolution and biodiversity. Increasing rates of environmental change, pollution, and other anthropogenic stressors challenge organisms to adapt or migrate to avoid extinction. The project "Refugia and ecosystem tolerance in the Southern Ocean (RECTO)" aims to characterize the adaptive capacities of Antarctic key taxa, necessary for these organisms to cope with climate change. In the past few years the Laboratory of Biodiversity and Evolutionary Genomics has assembled an extensive collection of Antarctic fish suitable for genomic and metagenomic analyses. It provides also a strong base for biophysical modelling. This expertise contributes to questions on the diversity and distribution of life in the Southern Ocean and its adaptive potential. You will develop a highly competitive integrated and multidisciplinary PhD proposal with a strong potential for application (e.g. conservation and fisheries management). The final focus will depend on the strengths and interests of the candidate.

Franz Maximilian Heindler, PhD Candidate University of Leuven Laboratory of Biodiversity and Evolutionary Genomics Charles Deberiotstraat 32, box 2439 B-3000 Leuven, Belgium Mobile: +49 160 288 10 49

Franz Maximilian Heindler
<franzmaximilian.heindler@kuleuven.be>

LiverpoolJohnMooresU CichlidBreeding

A fully funded 3-year PhD position available in the School of Natural Sciences and Psychology at Liverpool John Moores University, Liverpool, UK Project Title: An integrative approach to understanding conflict management in the cooperatively breeding cichlid fish, *Neolamprologus pulcher* Supervisory Team: Dr. Adam Reddon; Dr. Hazel Nichols; Dr. Will Swaney Deadline: August 10th, 2018 Project Description: This is a call for applications for a three-year fully funded

PhD studentship in the School of Natural Sciences and Psychology at Liverpool John Moores University.

Group living provides substantial advantages but may also engender conflict over reproduction or other resources. In order for groups to form and persist, animals must be able to manage this conflict. Across species, complex sociality involves an interplay between dominance hierarchies, aggression, submission, cooperation, and kinship. Understanding these dynamics is a major focus in social behaviour research. Much of the work done so far has examined primates and other mammals, however, conducting carefully controlled experiments in these species is often difficult. The cooperatively breeding cichlid fish, *Neolamprologus pulcher*, lives and breeds in highly complex permanent social groups. *N. pulcher* are small bodied and can easily be housed in aquaria where these remarkable fish will perform their full suite of social behaviour.

In order to understand the expression of conflict management behaviour we must understand both the functional significance of these actions and the mechanistic substrates that underpin them. Oxytocin is well known for its role in mediating social behaviour in mammalian species including primates, but evidence is emerging that this function is deeply conserved across vertebrates, and that its homologue isotocin regulates social behaviour in fishes. This PhD project will examine the phenotypic expression of conflict management behaviours in *N. pulcher*, the role of isotocin in modulating those behaviours, and the importance of early life experiences in organising adult social behaviour and its neurohormonal substrates.

We will make use of a newly established breeding colony at LJMU. Social behaviours can be scored within these groups using both live observations and high definition video recordings. The specific details of the project are flexible and can be developed in collaboration with the successful candidate to align with his or her interests, skills and expertise. The project will be primarily laboratory based, though some field work may also be possible.

Preferred candidate characteristics include a keen interest in animal social behaviour; experience studying behaviour in the laboratory and/or the field; experience with neuroscience and/or molecular biology techniques (e.g., histology, immunohistochemistry, qPCR); strong writing and analytical skills; knowledge of experimental design and statistical analysis. Previous experience working with fish is desirable but not essential. Full training will be provided, and the successful candidate will benefit from the diverse expertise of the supervisory team.

The preferred start date for the successful candidate will be September 2018, but a January 2019 start is also possible.

The scheme is available to UK/European Union students with a Bachelors degree at 2:1 or above in a relevant area, and good spoken and written English skills. Applicants with Masters level qualifications are preferred. We expect to interview applicants in Mid-August. If you require further information please email Dr. Adam Reddon, a.r.reddon@ljmu.ac.uk

Funding Notes: The studentship is fully funded by LJMU. Funding will consist of a stipend at UK Research Council rates (e.g. 14,777 in year 1) and full tuition waiver for three years. Funding will be subject to satisfactory progress. Only UK & EU citizens are eligible for this studentship.

Application: Applicants should email a CV, cover letter detailing their interest in and suitability for the project and contact details of two referees to Dr. Adam Reddon (a.r.reddon@ljmu.ac.uk). Interviews will be held in mid-August. For an informal discussion about this opportunity please email Dr. Adam Reddon (a.r.reddon@ljmu.ac.uk) for more information.

Adam R. Reddon, Ph.D.

Lecturer in Behavioural Ecology Liverpool John Moores University Room 802, James Parsons Building t: +44 (0)151 231 2034 www.adamreddon.ca
A.R.Reddon@ljmu.ac.uk

LiverpoolJohnMooresU SocialEvolution

A fully funded 3-year PhD position available in the School of Natural Sciences and Psychology at Liverpool John Moores University, Liverpool, UK

Project Title: An integrative approach to understanding conflict management in the cooperatively breeding cichlid fish, *Neolamprologus pulcher*

Supervisory Team: Dr. Adam Reddon; Dr. Hazel Nichols; Dr. Will Swaney Deadline: August 10th, 2018

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Adam R. Reddon, Ph.D. Lecturer in Behavioural Ecology Liverpool John Moores University Room 802, James Parsons Building t: +44 (0)151 231 2034 www.adamreddon.ca A.R.Reddon@ljmu.ac.uk

MacquarieU SpeciationInFinches

PhD position in Evolutionary Ecology at Macquarie University, Sydney, Australia

We are pleased to announce an opportunity available for a start from late 2018 to early 2019

Speciation in finches

This project aims to understand the mechanisms underlying the divergence of species and the importance of two genomic features of often disproportionately large effect between young taxa - the sex chromosomes, and chromosome inversions. The research aims to provide insight into speciation processes by focusing on recent divergence in Australian finch species. The research will integrate genomics and transcriptomics with the study of traits closely aligned to speciation in birds - song, colour, and sperm morphology and protein composition. Novel insight is anticipated through the study of hybridising subspecies in both the laboratory and the wild. An overarching aim is to unite data from genomics, phenotype and behaviour to understand the forces driving speciation.

This research is part of an international collaboration with collaborators based at Cambridge (UK), Cornell & Chicago (US), and Oslo (Norway), and may provide opportunities for the student to work partly at these institutions. Laboratory work will be conducted in Sydney, and fieldwork will be conducted in northern Australia.

The project is supported by ARC DP funds and a scholarship from Macquarie University.

The Department of Biological Sciences at Macquarie University is a vibrant environment which offers excellent support to postgraduate students. A MQRES Scholarship has already been assigned to this project, but there are other scholarship opportunities available to suitably competitive candidates. International candidates are encouraged to apply.

The MQRES full-time stipend rate is \$26,682 pa tax exempt for 3 years (indexed annually). In addition to external grant support for the project, there is additional internal funding (up to \$14k) available to cover direct research expenses and conference travel.

Applicants should have a research-based MSc in a related discipline (minimum 50% of grade based on research project), and additional relevant research experience. A competitive candidate is likely to have published in the peer-reviewed literature. For these projects an ability to work in remote and harsh conditions, and experience in capturing and handling animals is desirable. A driving licence is desirable but not essential.

Applications should include 1) your CV, 2) a brief statement of your reasons for applying (max. 500 words), 3) contact details of two academic referees, 4) your nationality (for scholarship eligibility purposes). Applications should be submitted electronically as a single PDF file.

Applications for these positions (and any initial enquiries) should be emailed to: simon.griffith@mq.edu.au

Prof. Simon Griffith, Dept. of Biological Sciences, Macquarie University, Sydney, NSW 2109, Australia, by the closing date 13th July 2018

Simon C Griffith Department of Biological Sciences Macquarie University Sydney, NSW 2109, Australia. phone: +61 2 9850 1301 fax: +61 2 9850 9231 www.griffithecology.com Simon Griffith <simon.griffith@mq.edu.au>

ManchesterMU DragonflyConservationGenetics

MRes Wildlife Behaviour and Conservation University of Chester

<https://www1.chester.ac.uk/study/postgraduate/-biological-sciences-wildlife-behaviour-and-conservation-pathway/201810> Landscape genetics of a dragonfly of conservation concern

Dr. Anna Muir and Dr. Matt Geary - University of Chester

Project partner: Ed Harris - Manchester Metropolitan University

White-faced darter (*Leucorrhinia dubia*) are a habitat-specialist dragonfly that are currently classified as endangered on the British Red Data list. They are of conservation concern due to low numbers across Britain and have been reintroduced to sites in England following local extinctions. The largest remaining populations are found in the Scottish Highlands. However, breeding sites are separated by large areas of unsuitable habitat and the connectivity between these sites is currently unknown. Furthermore, attempts at traditional capture-recapture techniques to assess dispersal in dragonflies have led to very low recapture rates, making the method unsuitable for white-faced darter. Therefore, the development of landscape genetic techniques to assess connectivity in relation to habitat is urgently needed in this species.

This project will develop molecular techniques to facilitate landscape genetic analyses of white-faced darter, including a preliminary analysis of connectivity between two sites in Scotland. The student will use a range of molecular techniques, including DNA extraction, PCR and genotyping, and landscape genetic analyses using population genetic software, ArcGIS and Circuitscape. The results of this study will be used to form conservation recommendations with key stakeholders and to inform future white-faced darter research.

The ideal candidate will have previous experience of laboratory work (including DNA extraction and PCR). Additional fees to support this project are required up to a maximum of pounds 3000 (specific final cost will be confirmed and agreed prior to acceptance on the course).

The anticipated starting date for this project is October

2018; deadline for application is 31st August.

For further details please contact a.muir@chester.ac.uk

Dr Anna Muir Lecturer in Conservation Biology

Edwin Harris <E.Harris@mmu.ac.uk>

Montpellier EcoEvolutionaryDynamics

PhD Position in The Dynamics of Eco-evolutionary Systems

CEFE, Montpellier, France, Evolutionary Genetics and Ecology (EGE) group

Starting date: Oct.-Nov. 2018 Duration: 3 years, full time Working place: GEE team in CEFE, Supervision: Patrik Nosil and colleagues

Project short description: Evolutionary and ecological processes can affect one another. For example, evolutionary adaptation within species can affect population dynamics or species interactions in communities, and thus ecosystem functioning. This PhD is part of a larger research project funded by the European Research Council (Consolidator Grant to P. Nosil) to investigate the community and ecosystem level consequences of evolution within a stick-insect species (*Timema cristinae*). The project will specifically test for reciprocal interactions and feedback loops between ecological and evolutionary processes. Fieldwork in California will be conducted each year. Key publications pertaining to the project are Farkas et al. 2013 *Current Biology* and Nosil et al. 2018 *Science*.

Requirements: The applicant should hold a Master's degree or equivalent in ecology or evolutionary biology. We are looking for a highly motivated student with a solid conceptual and formal background in evolutionary biology, community ecology, or (ideally) both. The position is highly ecological such that candidates with experience in community ecology, ideally for communities of plant-feeding insects, are preferred. Excellent written, verbal, and interpersonal skills, a strong work ethic, and the ability to think creatively are desired. Key responsibilities will be identification of insects, curating and analyzing samples of arthropod communities, executing field transplant experiments, food web analysis, and handling of data on ecosystem variables such as soil chemistry, plant productivity, etc. This work will be integrated with genomic analyses led by other

team members. The doctoral contract will be with the CNRS-ERC, with a monthly gross salary: €1,768.55.

Application documents; the applicants should submit: - A one-page letter with a summary of previous research experience and professional motivation - Curriculum Vitae - Names and emails of two professional references - An electronic copy of their previous works (master's thesis or other scientific publications).

The application should be sent as one single PDF file to p.nosil@sheffield.ac.uk

Applications received before August 10th 2018 will be given full consideration. Interviews will be held as soon as possible afterwards.

"p.nosil@sheffield.ac.uk" <p.nosil@sheffield.ac.uk>

MPIO Seewiesen EvolutionCognition

Announcement

PARROT COGNITION (TENERIFE)

MASTER PROJECTS / VOLUNTEER RESEARCH ASSISTANTS

Comparative Cognition Research Group, Max-Planck Institute for Ornithology, Tenerife, Spain

The Max-Planck Comparative Cognition Research Group (CCRG) invites applications of Masters students and volunteer research assistants. The CCRG forms part of the collaboration between the Max-Planck Institute for Ornithology, Seewiesen, Germany, and the Loro Parque Fundación (LPF), Tenerife, Spain. We are currently running various comparative research projects on social and physical cognition in parrots. Interested candidates are encouraged to contact us to enquire about the ongoing projects. Successful applicants can expect to gain a solid insight in the field of Animal Cognition/Experimental Psychology and gain experience in working with psittacids in a dynamic, international research environment. The research is carried out on captive parrots of the LPF, which holds the largest parrot collection and gene reserve in the world (ca. 350 subspecies) for conservation and research purposes.

Logistics:

Voluntary research assistant position /Master Project start and end dates are flexible but preference will be

given to students who can start in September 2018. The position requires a minimum of 4 months, but ideally 6 months, continuous commitment at the research station in Tenerife, Spain. Free accommodation in a shared student apartment can be provided. Successful applicants will be responsible for their own transportation expenses to and from the research station (Puerto de la Cruz, Tenerife, Spain).

Important skills/qualifications:

Successful candidates will have:

completed a degree in Biology or any related field a strong interest in comparative cognition high motivation and commitment to the project reliability, efficiency and an ability to work independently confidence to interact with animals previous research experience good verbal and written English skills initiative to develop the project good team work attitude and social skills (shared accommodation between 3 students)

To apply:

Please send your CV and a cover letter reporting any relevant experience you have and motivation to participate in the project to Dr. Auguste von Bayern (avbayern@orn.mpg.de) or Dr. Anastasia Krasheninnikova (akrashe@orn.mpg.de). Contact details of 2 referees may be requested. referees may be requested.

MPI Ploen PredictingEvolution

Predicting Evolution

The aim of this project is to predict evolutionary outcomes from population sequencing data of a single sample. To assess whether this is possible we will first fully characterize the mutational fitness effects distribution (MFED) of phage PhiX174, a very well studied phage with a very short genome. We will infer the MFED from population sequencing data. The MFED will allow us to devise our first model to predict evolutionary outcomes. To test and refine this model we will perform an evolution experiment. Ultimately we are aiming to determine the earliest point in the evolution experiment at which we can, with high confidence, predict the evolutionary outcome of the experiment.

The successful candidate will work in the wet lab, devise programs to analyze large amounts of sequencing data and apply mathematical models to understand the data. Hence we are looking for a candidate with either a

quantitative background (bioinformatics, physics, mathematics or computer sciences) with a keen interest in biology or a candidate with a biological background and good programming skills.

The PhD would be performed in the Microbial Molecular Evolution group under the supervision of Dr. Frederic Bertels (bertels@evolbio.mpg.de, <https://www.evolbio.mpg.de/3178548/group-micromolevol>).

The Microbial Molecular Evolution group is a newly established group in the Department of Microbial Population Biology at the Max Planck Institute for Evolutionary Biology in Plön. The Max Planck Institute currently houses three departments with plenty of opportunities for collaboration. Collaborations with the Evolutionary Theory department already exist for the proposed project.

How to apply: Please send a CV, a brief cover letter (explaining your interest in the position, no more than 1 page) and contact details of two references by email to bertels@evolbio.mpg.de.

Application deadline: 15th of August 2018.

Dr. Frederic Bertels

Frederic Bertels <bertels@evolbio.mpg.de>

Paris 2 EvolutionOfSexualReproduction

Two PhD positions are available in the laboratory of Henrique Teotónio at the Institut de Biologie, École Normale Supérieure, Paris. For more information on our lab, research interests and host institute, see www.ibens.ens.fr/spip.php?rubrique28&lang=en. The first project is in collaboration with Christian Braendle in Nice (www.braendlelab.net). We will characterize the effects of different breeding systems on the evolution of *C. elegans* hermaphrodite germline development. The key objectives are (1) to perform experimental evolution under different sex ratios of males, females and hermaphrodites; (2) to characterize the genetic basis of hermaphrodite germline traits through genetic transformation methods and a genome-wide association study; and (3) to determine how natural selection at candidate loci depends on hermaphrodite germline developmental evolution.

Relevant references for the first project include: Carvalho et al. 2014. <http://doi.org/10.1186/1471-2148-14-117> Poulet— et al. 2016. <http://doi.org/10.1111/->

evo.13032 Noble et al. 2017. <http://doi.org/10.1534/genetics.117.300406> Teotonio et al. 2017. <http://doi.org/10.1534/genetics.115.186288> The second project is in collaboration with Denis Roze in Roscoff (www.sbroscoff.fr/en/roze-denis/58). We will characterize the effects of different levels of partial selfing on the evolution of recombination modifiers. The key objectives are (1) to determine natural selection on recombination modifiers using experimental evolution in *C. elegans*; (2) to describe the genetic variance components (dominance, epistasis) of fitness, explaining the evolution of recombination; and (3) to integrate theoretical models developed in the Roze lab with the experimental data.

Relevant references for the second project include: Roze and Lenormand. 2005. <http://10.1534/genetics.104.036384> Roze. 2015. <http://10.1534/genetics.115.178533/-/DC1> Noble et al. 2017. <http://doi.org/10.1534/genetics.117.300406> Teotonio et al. 2017. <http://doi.org/10.1534/genetics.115.186288> Candidates are expected to have a master's degree in evolutionary biology and an understanding of the fundamental problems of quantitative genetics, population genetics and developmental genetics, including QTL and GWAS mapping. Candidates with experience in computer programming, experimental evolution, molecular biology and genetic transformation, and statistical analysis of large data sets are preferred.

The PhD positions are funded by the National Agency of French Research (ANR) for three years, subject to an initial evaluation after 6 months, with a potential one-year extension. Successful applicants can start as soon as fall 2018.

To apply, send a CV, a letter of motivation, and the contact information for two referees as a single PDF file to Henrique Teotonio (teotonio@biologie.ens.fr) Informal inquiries are welcome.

teotonio <teotonio@biologie.ens.fr>

PotsdamU FishAdaptiveGenomics

PhD position "Adaptive genomics in weakly electric fish" at Potsdam University

—A 3-year PhD position (TVEL 13/2) is available at the Unit of Evolutionary Biology/Systematic Zoology at the University of Potsdam, starting October 1st 2018.

The Unit of Evolutionary Biology/Systematic Biology has a strong focus on population genetic and specia-

tion research, involving various taxonomic groups and a suite of molecular, morphological, and behavioural approaches (see <https://www.uni-potsdam.de/en/ibb-evolutionsbiologie/publications.html> for recent work). It runs a fully equipped molecular genetics laboratory (including Illumina-NGS and Fluidigm-SNP-typing platforms) and a modern fish facility.

The successful applicant will work on the genomic basis of adaptation in African weakly electric fish (Mormyrids). The project will have a strong bioinformatics component and may involve field work in Africa.

The position includes a teaching duty of 2 hours/week in zoology/evolutionary biology for undergraduates.

Applicants must hold a university degree (Master of Science in biology, bioinformatics, or a related discipline). Familiarity with modern molecular genetic techniques (PCR etc.), NGS, and data analysis in R is preferable.

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.

Potsdam is a beautiful city in close vicinity to the German capital of Berlin. Potsdam University takes an effort to assist its members in family-related issues and has repeatedly been awarded the total e-quality award.

Please send your application by email (preferably in a single pdf) before 15th of August 2018 to: Prof. Dr. Ralph Tiedemann, University of Potsdam, Institute of Biochemistry and Biology, Evolutionary Biology/Systematic Zoology, Karl-Liebknecht-Str. 24-25, Haus 26, D-14476 Potsdam, Germany, Email: tiedeman@uni-potsdam.de

– Prof. Dr. Ralph Tiedemann Unit of Evolutionary Biology/Systematic Zoology Institute of Biochemistry and Biology University of Potsdam Karl-Liebknecht-Str. 24-25, Haus 26 D-14476 Potsdam Germany Tel: +49-331-977-5249, -5253 (secretary) Fax: +49-331-977-5070 Email tiedeman@uni-potsdam.de <http://www.uni-potsdam.de/ibb-evolutionsbiologie> Ralph Tiedemann <tiedeman@uni-potsdam.de>

SoutheasternLouisianaU EvolutionaryBiol

The Department of Biological Sciences at Southeastern Louisiana University currently has several available assistantships (tuition waiver and stipend) for the Fall 2018 semester. Our graduate program primarily focuses on ecology and evolutionary biology, but other areas of biology are also available in the department.

If you are interested in applying to our MS program, please see the information provided here:

http://www.southeastern.edu/acad_research/depts/-biol/grad_degree/index.html

The research interests of our graduate faculty are provided here:

http://www.southeastern.edu/acad_research/depts/-biol/faculty/interests/index.html

For more information, contact Kyle Piller (kyle.piller@selu.edu) or one of the graduate faculty in the department.

Kyle R. Piller, PhD Edward G. Schlieder Foundation Professor of Environmental Studies and Sustainability, Curator of Vertebrates, and Graduate Coordinator Southeastern Louisiana University, Dept. of Biological Sciences Hammond, LA 70402 Kyle.Piller@selu.edu 985-549-2191 www.kylepiller.com Subject Editor Zookeys: Fishes of North America and Mexico <http://zookeys.pensoft.net/> Kyle Piller <kyle.piller@selu.edu>

pressed metabolism. These are pervasive in the animal kingdom, but mechanistic underpinnings and physiological commonalities among species are unclear. This is surprising, since HM is a critical part of the life-cycle in most ectothermic animals living in seasonal environments, of large adaptive value in several important insect pest species and a feature of several pathological states in humans. In this project, the student will use insect diapause, a deep resting stage, as model phenotype to study HM.

We will combine several approaches: (i) characterizations of pupae in diapause using several state-of-the-art imaging methods, (ii) multiple-level “omic” investigation of key functional physiological layers and (iii) direct manipulations of key metabolites and genes in detailed rearing experiments, using pharmacological injections and CRISPR-Cas9 gene knockout. By integrating these data we will build physiological models of how HM is induced, maintained and terminated. The project therefore offers the PhD-candidate a chance to learn a variety of modern methods in organismal biology and can be tailored in several directions according to the skills, aptitude and interests of the PhD-candidate.

Contact

For more information, please contact project leader Philipp Lehmann, telephone: +46 73 907 88 90, philipp.lehmann@zoologi.su.se

Application

Link to Stockholm University website on this PhD position and how to apply (deadline 31st of August 2018): <https://www.su.se/english/about/working-at-su/phd?rmpage=job&rmjob=6334&rmlang=UK> Philipp Lehmann <philipp.lehmann@zoologi.su.se>

StonyBrookU EvolutionaryBiol

StockholmU DiapauseEvolutionaryPhysiology

PhD project on Diapause Evolutionary Physiology

The Department of Zoology at Stockholm University invites applications for a four-year PhD position as part of the project 'The evolutionary physiology of hypometabolism' funded through a grant from the Swedish Research Council, VR.

Hypometabolism (HM) refers to states of heavily sup-

GRADUATE OPPORTUNITIES IN ECOLOGY AND EVOLUTIONARY BIOLOGY

The Graduate Program in Ecology and Evolution at Stony Brook University is recruiting doctoral and master's level graduate students for Fall 2019.

The department has a long and distinguished history, being one of the first of its kind. It currently has a productive and diverse faculty working on broad array of questions involving microbes, plants, vertebrate and invertebrate animals and whole ecosystems. Field lo-

cales span the globe from the old and new world tropics to the Arctic and Antarctic polar regions, as well as the uplands, wetlands and coastal areas of Long Island and nearby New York City.

Upon admission, PhD students are guaranteed teaching assistants upon acceptance, with additional support available through fellowships and research assistantships, as they become available. The deadlines for applications are* Dec. 1, 2018* for the PhD program. Admissions to the MA program are rolling until *April 15, 2019.*

Below is a listing of current local program faculty to whom questions can be directed. It is* highly* recommended that PhD applicants contact potential advisors before submitting your application. For questions or assistance with the application process please e-mail our Graduate Program coordinator, Melissa Cohen melissa.j.cohen@stonybrook.edu.

DEPARTMENTAL FACULTY

H. Resit Akcakaya - Population and conservation ecology <http://life.bio.sunysb.edu/ee/akcakayalab/>
 Stephen B. Baines - Aquatic ecosystem ecology and biogeochemistry <http://life.bio.sunysb.edu/ee/baineslab/>
 Michael L. Bell - Contemporary evolution and biology of fishes <http://life.bio.sunysb.edu/ee/belllab/>
 Liliana M. Dávalos - Vertebrate phylogenetics, biogeography and conservation http://lmdavalos.net/lab/The_Lab.html
 Walter F. Eanes - Evolutionary genetics of Drosophila <http://life.bio.sunysb.edu/ee/eaneslab/>
 Jessica Gurevitch - Research synthesis, plant population and invasion ecology <https://gurevitchlab.weebly.com/>
 Jesse D. Hollister - Plant evolutionary genomics and epigenetics <https://genomeevolution.wordpress.com/>
 Jeffrey S. Levinton - Marine ecology and paleobiology <http://life.bio.sunysb.edu/marinebio/levinton.main.html>
 Heather J. Lynch - Quantitative ecology and conservation biology <https://lynchlab.com/>
 Ross H. Nehm - Science education, evolution education, cognition https://www.stonybrook.edu/commcms/ecoevo/people/faculty_pages/nehm.html
 Dianna K. Padilla - Invertebrate aquatic ecology and conservation biology <http://life.bio.sunysb.edu/ee/padillalab/>
 Joshua Rest - Evolutionary genomics <http://life.bio.sunysb.edu/ee/restlab/Home.html>
 Robert W. Thacker - Systematics, phylogenetics, and ecology <https://thackerlab.weebly.com/>
 John R. True - Evolutionary developmental biology https://www.stonybrook.edu/commcms/ecoevo/people/faculty_pages/true.html

Kishna M. Veeramah - Primate comparative genomics <http://life.bio.sunysb.edu/ee/veeramahlab/>
 PROGRAM FACULTY IN OTHER DEPARTMENTS

Jackie Collier - Microbial ecology <https://you.stonybrook.edu/collierlab/>
 Nolwenn M. Dheilly

- Evolution of Host-Parasite Interactions <https://you.stonybrook.edu/dheilly/>
 Andreas Koenig - Behavioral ecology of primates https://sites.google.com/a/stonybrook.edu/idpas_faculty_profile_koenig/
 David Q. Matus - Evolution of Cell Invasion <https://you.stonybrook.edu/matuslab/>
 Catherine Markham - Behavioral ecology of primates <https://catherinemarkham.com/>
 Janet Nye - Quantitative Fisheries Ecology <https://you.stonybrook.edu/jnye/>
 Alistair Rogers - Plant Physiology and Climate Change www.bnl.gov/TEST
 Shawn P. Serbin - Plant Physiology and Remote Sensing

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TelAvivU EvolutionaryBiology

PhD Position in Evolutionary Biology

The position is available in the research group of Dr. Frida Ben-Ami, from Tel Aviv University, Israel (www.ben-ami.com). The position is available from October 15, 2018.

I am looking for a highly motivated candidate who is interested in host-parasite interactions and coevolution. In my lab, we are using the crustaceans Daphnia and their microparasites as a model system.

The successful candidate will be able to choose a project from a range of projects currently being pursued in the lab.

Requirements - MSc degree in biology - creative thinking - background in evolutionary biology or ecology - hands-on experience with experimental work - analytical skills and good knowledge in statistics - communication and writing skills in English - good work ethic

Please send your application by email (all material in one PDF) to Frida Ben-Ami (frida@post.tau.ac.il). Applications should include a CV, a list of publications and a statement about research interests (motivation letter). Please give names and email addresses of two persons who are willing to write a letter of recommendation.

Dr. Frida Ben-Ami, Department of Zoology, George S. Wise Faculty of Life Sciences, Tel Aviv University,

Tel Aviv 69978, Israel <http://www.ben-ami.com> Frida Ben-Ami <frida@post.tau.ac.il>

TU Munich PopulationGenomics

The Chair of Phytopathology at the Technical University of Munich, TUM School of Life Sciences, hires a PhD. Student in the field of Population genomics of pathogens on wild tomato species.

We are interested in understanding the evolution of pathogens and pathogen resistance in relatively short time scales, therefore we study different populations from a diverse and geographically differentiated tomato species, *Solanum chilense*. We have shown that these populations show different levels of defence against a range of pathogens and have identified patterns of differential selection for defence-associated genes. However, knowledge of the pathogens occurring on these natural populations is lacking.

Therefore, we are looking for an enthusiastic PhD student to collect pathogens in the field, investigate their virulence on different plant populations and assess genetic diversity using whole genome sequencing. The applicant must have a very good MSc in biology, bioinformatics or related disciplines. Knowledge and practical experience in bioinformatics and population genomics and keen interest in molecular plant pathology and lab work are required. Sample collection will take place in the highlands of Peru and Chile, therefore the applicant should be fit and willing to travel to said places for several weeks. English skills, both written and spoken, are essential, knowledge of the Spanish language is beneficial, but not required.

The project will be carried out in the group of Dr. Remco Stam at the Chair of Phytopathology (Prof. Dr. Ralph Hüchelhoven). The chair hosts several research groups studying plant pathogen interactions. In addition, we have several ongoing collaborations on campus (including the large SFB924 project) and direct access to state of the art technology for next generation sequencing and extensive glass house facilities.

The Technical University of Munich wishes to increase the percentage of employed women. Women are therefore explicitly encouraged to apply. Handicapped persons with equivalent qualification will be given preference. The salary is according to German income level TV-L E13.

Please send your comprehensive application including a letter of motivation (1 page), your CV, certificates, list of publications, and names of 2 potential referees as a single pdf file by email to: stam@wzw.tum.de

Application deadline: 30 JULY 2018

Website of the lab: www.remcostam.com Related publications A small subset of NLR genes drives local adaptation to pathogens in wild tomato R. Stam,—GA Silva-Arias, T Nosenko, D Scheikl, AC Hörger, W Stephan, G Haberer,—A Tellier (2017) *BioRxiv* <https://doi.org/10.1101/210559> The wild tomato species *Solanum chilense* shows variation in pathogen resistance between geographically distinct populations R Stam, D Scheikl, A Tellier (2017) *PeerJ* 5, e2910 <https://doi.org/10.7717/peerj.2910> Pooled Enrichment Sequencing Identifies Diversity and Evolutionary Pressures at NLR Resistance Genes within a Wild Tomato Population. R Stam, D Scheikl, A Tellier (2016) *Genome biology and evolution* 8 (5), 1501-1515 <https://doi.org/10.1093/gbe/evw094> “stam@wzw.tum.de” <stam@wzw.tum.de>

UBarcelona ComparativeGenomics

PhD Fellowship in Comparative and Structural Genomics A FPI fellowship to carry out a PhD within a project funded by the Ministerio de Economía, Industria y Competitividad (MINECO) is available at Ruiz-Herrera's Lab, located at Universitat Autònoma de Barcelona (UAB), Spain. Ruiz-Herrera's lab consists of a cohesive group of national and international researchers. The long-term research goal of our research group is to provide a unified and encompassing view of how genomes are organized and regulated in mammalian cells. Within this framework, the candidate will develop a project on the evolution and function of the organization on mammalian genomes. Techniques will include molecular and cellular biology, flow sorting and next generation sequencing. For further information please see our web page: <http://grupsderecerca.uab.cat/evolgenom/> Likewise, UAB is located close to the city of Barcelona and is one of the major public universities in Spain. The UAB is internationally acknowledged for its quality and innovation in research. Requirements: - Highly-motivated and talented individual with a vivid interest in science with a Master degree in an area related to Genomics, Genetics, Molecular Biology, Bioinformatics or Evolution. - Competitive CV. - Proficient in English. Good written

and oral communication abilities. - Computing skills are desirable.

What we offer: - Four year contract. - Integration in young, dynamic, and interdisciplinary team. Complete application packages, including a CV, a brief (1-page) statement of research interests, and the names and e-mail addresses of two referees should be sent to Dr. Aurora Ruiz-Herrera. Email: aurora.ruizherrera@uab.cat Application deadline: 10th September 2018. Additional information: Institut de Biotecnologia i de Biomedicina (IBB): <http://ibb.uab.cat/ibb/> Aurora Ruiz-Herrera Professora Agregada Dept. Biologia Cel.lular, Fisiologia i Immunologia Facultat de Biociències Campus de la UAB - 08193 Cerdanyola del Valles - Barcelona - Spain <http://grupsderecerca.uab.cat/-evolgenom/> +34 581 20 51 www.uab.cat "A. Ruiz-Herrera" <aurora.ruizherrera@uab.cat>

UBath Experimental Evolution

We are seeking a highly motivated and enthusiastic PhD student to work on the evolution of gene regulatory networks using experimental evolution.

Deadline: Sunday 5th August 2018

Enquiries and application: <https://www.findaphd.com/search/ProjectDetails.aspx?PJID=99028> Project Description How does the environment shape the architecture of genomes? The environment plays a key role in shaping gene regulatory networks (GRNs), with natural selection able to make adjustments to specific interactions. However, we do not yet understand the evolutionary processes that create and constrain opportunities for GRN adaptation and expansion. My research takes an interdisciplinary approach, combining experimental evolution with molecular genetic manipulations, bioinformatics and protein modelling to address central evolutionary questions within the context of GRN evolution.

As networks evolve and expand they incorporate new genes with new functions. Natural selection will shape these interactions, resulting in gene networks that are most suited to the environment that the organism evolved in. As such, different environments have the potential to rewire gene networks differently, as different interactions will be advantageous in some environments and disadvantageous in others. In this way, the environment can create and constrain opportunities for new interactions to evolve. In this project, we will directly

test this theory by evolving bacteria in real-time to explore how the environment can shape gene interactions, gene networks and genomes. To investigate we will use bacteria, which can be easily stored and genetically manipulated in the laboratory. Their rapid generation times and large population sizes means evolution can occur very quickly. Plus, understanding what shapes the evolution of gene networks in simple organisms will provide greater insight into the overarching principles that may drive the evolution of all gene networks. Answering these big questions in biology will deepen our understanding of how complex organisms evolve and how life copes with environmental change.

Location: This project will be conducted under the direct supervision of Dr Tiffany Taylor with co-supervision from Dr Susanne Gebhard and based at the Department of Biology and Biochemistry at the University of Bath (UK) in the new Milner Centre for Evolution (<http://www.bath.ac.uk/groups/milner-centre-for-evolution/>). The Milner Centre is a new research centre focused on doing ground breaking research that addresses major questions in evolutionary biology. The Milner Genomics Centre provides on-site facilities and expertise for genome sequencing and analysis for evolution research, and the world-class researchers at the centre creates a vibrant research culture that ensures support and training for the next generation of evolutionary biologist.

Requirements: This is a fully-funded 3.5-year PhD studentship. We are looking for a biology graduate who has a strong interest in microbiology, molecular biology and evolution. Some practical experience in microbial molecular techniques is highly desired, but additional training will be provided. The successful candidate will be enthusiastic, highly motivated, independent, have experience in microbiology, molecular biology or evolutionary biology (or a combination), and have a relevant degree. The applicant must meet the standard University of Bath English language requirements, details of which can be found here: <http://www.bath.ac.uk/-study/pg/apply/english-language/index.html> Planned start date: 4 February 2019 (3.5 years funding)

For informal enquiries please contact Dr Tiffany Taylor at: T.B.Taylor@bath.ac.uk

Funding Notes The successful candidate will receive a full studentship including Home/EU tuition fees and a tax-free maintenance payment of pounds 14,777 per annum (2018-19 rate) for up to 3.5 years. Funds will also be available for research expenses and travel. This project is funded by the Royal Society.

Note: ONLY UK and EU applicants are eligible for this studentship. International applicants will not be con-

sidered unless they can fully self-fund (fees and living costs).

T.B.Taylor@bath.ac.uk

U Bedfordshire UK Plant Systematics Evo

Projects are available in my lab for MSc by Research students starting in October 2018 (UK/EU nationals, 1 year full-time or 2 years part-time). This course involves a year-long research project, culminating in a dissertation, presentation and oral examination (*viva voce*). The deadline for applications is 31st August 2018. There may be further postgraduate opportunities (e.g. PhD) with different eligibility in the near future. Research is undertaken as part of the Institute of Biomedical and Environmental Science and Technology (iBEST) and the School of Life Sciences.

Our research is concerned with varying aspects of plant evolution at different scales but in most cases utilising genetic information to build phylogenetic frameworks and unravel the genomic processes that underpin angiosperm diversification. Projects are available on many different plant groups (e.g. Solanaceae or Orchidaceae) as appropriate, and may also involve fieldwork and the use of natural history collections (i.e. herbaria). Most, if not all, projects will involve the analysis of high-throughput DNA sequencing (HTS) data. Several projects are in collaboration with researchers at the Royal Botanic Gardens, Kew and the Natural History Museum, London.

Requirements for a research MSc are: (i) a good undergraduate degree (2.1 or above) in a relevant subject (e.g. Biology, Botany, Genetics); (ii) some evidence of relevant practical lab and/or computational skills; and (iii) a keen interest in plant systematics, botany, and/or genetics/bioinformatics.

Interested prospective applicants should contact Steven Dodsworth (steven.dodsworth@beds.ac.uk) for further information and to develop their research proposal.

Dr Steven Dodsworth Senior Lecturer School of Life Sciences University of Bedfordshire Luton LU1 3JU United Kingdom

“Steven.Dodsworth@beds.ac.uk”
<Steven.Dodsworth@beds.ac.uk>

UBern Evolution Behaviour

PhD position

University Bern. Animal Behaviour

At the Division of Animal Welfare (Prof. Hanno Wurbel), University of Bern, Switzerland, we are seeking a PhD student who is eager to study environmental effects on behaviour and physiology in mice, with an eye to understanding the implications of such plasticity for animal welfare and for the validity of animal research. The project is funded by the Swiss National Science Foundation (SNSF). The successful candidate will be working in a small team together with faculty, two postdocs, and a lab technician and will be able to participate in the training and mentoring of Bachelor and Master students. The PhD project will include experimental studies using laboratory mice to study how pre- and post-natal environmental conditions modulate behaviour, stress, and anxiety. Outcome variables of interest will include behavioural, physiological, and epigenetic measures.

Candidates need a University degree in biology, animal sciences, or biomedical sciences. A background in animal behaviour (basic or applied ethology, behavioural ecology, behavioural neuroscience, or behavioural genetics), experience with laboratory rodents, and training in experimental design and statistics will be a plus.

We offer an attractive academic environment, opportunities to develop the own academic career, and a competitive salary based on the Swiss National Science Foundation (SNSF) scheme.

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

The deadline for application is August 20, 2018. The position will be available immediately or at your earliest convenience. Please indicate your preferred and earliest possible start date in the application letter. For informal enquiries, please contact Dr. Bernhard Voelkl: bernhard.voelkl@vetsuisse.unibe.ch.

“bernhard.voelkl@vetsuisse.unibe.ch”
<bernhard.voelkl@vetsuisse.unibe.ch>

UCanterbury SexualSelectionAndE- volutionPipefish

PhD Project on sexual selection and evolution in pipefish

I seek a PhD candidate for a fully-funded 3-year PhD scholarship in the School of Biological Sciences, University of Canterbury, Christchurch, New Zealand.

Project description: My group studies how and why complex traits and behaviors evolve, with a focus on sexually selected traits. We use a number of different methods to address these broad questions: studies of relevant traits and selection on those traits; genomic studies of signatures of selection; and theoretical simulation studies. For more information, please see the lab website: <https://flanagan-lab.github.io/>. The immediate focus of the lab concerns uncovering the evolutionary processes that have shaped the sexually dimorphic traits in the wide-bodied pipefish, a native species to New Zealand. This PhD position offers the flexibility for the PhD student to decide on the direction of the doctoral studies within the framework of my research programme. Possible projects include population genomics of native and endemic pipefish; characterizing mating behaviors and sexual selection parameters; and/or simulation-based projects on how the genetic architecture of traits can influence variation. The PhD position has the opportunity to include field, laboratory, and computational-based research. The successful candidate will be fully funded, including research costs, with a stipend for three years plus payment of tuition fees and associated service charges.

Eligibility: I seek a PhD candidate with a demonstrated high level of academic achievement at the undergraduate and/or postgraduate level. The candidate is required to have a BSc with Honours (or equivalent) or a Masters degree to enroll as a PhD candidate at the University of Canterbury. The ideal candidate will have research experience in behavioral ecology, evolutionary biology, and/or population genetics and genomics. Previous experience with programming (e.g., R, C/C++, python) and/or molecular techniques and analysis of genomic data is preferred. My lab is inclusive, welcoming, and committed to advancing diversity; I welcome everyone regardless of their ethnicity, color, socioeconomic background, gender identity, sexual orientation, religion, and age. I especially encourage members of historically underrepresented groups including (but not limited to)

people of color, women, veterans, and people from socioeconomically disadvantaged communities to inquire about opportunities and apply to join my group.

The University: The University of Canterbury is located in Christchurch, the largest city in New Zealand's South Island. The University has approximately 13,000 students and 2,000 postgraduate students enrolled. The University's modern and well-equipped facilities are spread across a spacious suburban campus, with easy access to the city and the cultural and recreational facilities it provides. There is also good access to the scenic and recreational resources of the Southern Alps and Banks Peninsula.

Application and contact: Applications should include a letter of application (cover letter), CV, summary of research experience (no more than 2 pages), and the email addresses of two scientific referees. In the cover letter please include your research interests with potential project ideas. The position remains open until filled. For more information or to apply please contact me by email: Dr Sarah Flanagan, School of Biological Sciences, University of Canterbury, Christchurch, New Zealand, sarah.flanagan@canterbury.ac.nz

This email may be confidential and subject to legal privilege, it may not reflect the views of the University of Canterbury, and it is not guaranteed to be virus free. If you are not an intended recipient, please notify the sender immediately and erase all copies of the message and any attachments.

Please refer to <http://www.canterbury.ac.nz/its/email-disclaimer/> for more information.

"sarah.flanagan@canterbury.ac.nz"
<sarah.flanagan@canterbury.ac.nz>

UCL Belgium GlobalChangeBiodiversity

Intraspecific variability is the basic ingredient for biological evolution. Although it is expected that it will impact how species react to global change, few experimental tests have been done. This is the objective of the DIVERCE project, a collaboration between two Belgian Universities: Does Intraspecific Variability modulate the impact of EnviRonmental Change on biodiversity and Ecosystem function?

In this framework, we offer a full-time 4-year PhD position in ecology at the Université catholique de Louvain

(UCL, Belgium), Earth and Life Institute, Biodiversity Research Centre, in the Quantitative Conservation Biology team led by Prof. Nicolas Schtickzelle, starting 01/10/2018.

The PhD candidate will combine microcosm experiments with (statistical and mechanistic) modelling to examine if and how the level of intraspecific variability modulates the effects of global change (temperature and pollution) on population and community dynamics, and coexistence in competitive protist (freshwater ciliates) communities.

Two other PhD students will perform experiments with the exact same design on phytoplankton and on arbuscular mycorrhizal fungi, in the aim to reach a higher level of generality. A close collaboration among the three teams is expected, supported by a dedicated postdoc for DIVERCE during the last 2 yr of the position, offering opportunities for networking and international collaboration.

Details: <https://euraxess.ec.europa.eu/jobs/325237> . nicolas.schtickzelle@uclouvain.be

UGraz 3 EvolutionaryBiol

The Doctoral Academy of the Natural Science Faculty at the University of Graz, Austria is offering 3 PhD positions to be filled by October 1st 2018.

All three positions will be housed at the Institute of Biology in Graz (formerly Institute of Zoology and Institute of Botany, now fused into one Institute).

The positions are for 3 years and offer a minimum gross salary of EUR 2096/monthly. All three positions require a completed master's degree in a relevant biological field, excellent English communication skills, and the ability to work independently. The exact research topics will be adjusted to the candidate and planned with the advisor (see below).

The first position is in the area of molecular ecology or population genetics with freshwater fishes and will be advised by Assoc. Prof. Dr. Steven Weiss. The candidate's profile should include working knowledge of genetic methods, NGS and linux-based approaches to data analysis. Reference Number MB/121/99 ex 2017/18.

The second position is in the area of molecular ecology and genomics with symbiosis and will be advised by

Univ. Prof. Dr. Martin Grube. The candidate's profile should include knowledge of molecular biology methods, bioinformatics, NGS and linux-based approaches to data analysis. Reference Number MB/123/99 ex 2017/18.

The third position is in the area of chemical ecology or ecology/systematics of soil arthropods and will be advised by Dr. Günter Rasputnig. The candidate's profile should include knowledge of analytical chemistry techniques such as gas chromatography/mass spectrometry (GC-MS), and practical knowledge with the collection and determination of soil arthropods. Reference Number MB/122/99 ex 2017/18.

The application deadline is August 15, 2018. A CV, MS graduate certificate and letter of intent should be sent by e-mail to bewerbung@uni-graz.at. The reference number (see above) for the relevant position should be placed in both your letter of intent and the subject heading of the e-mail.

With its 4,300 employees and 32,500 students, the University of Graz provides an exciting and varied work environment. The Doctoral Academy Graz offers an institutional roof for a structured doctoral education and in so doing places the University at the forefront of current international developments in doctoral studies. The University of Graz strives to increase the proportion of women in science and thus encourages women to apply.

Assoc. Prof. Dr. Steven Weiss Karl-Franzens Universität Graz Institute f. Zoologie Universitätsplatz 2 A-8010 Graz Tel: +43-316-380-5599

“Weiss, Steven (steven.weiss@uni-graz.at)” <steven.weiss@uni-graz.at>

UIceland EvolGenomicsHighlyFecundGadids

Graduate Position: UIceland. Evol Genomics Highly Fecund Gadids

PhD student position at the Institute of Life- and Environmental Sciences, University of Iceland

The evolutionary and population genomics group of Einar Arnason at the Institute of Life- and Environmental Sciences (ILES) at University of Iceland invites applications for a PhD position in evolutionary genomics for the research topic: Analysis of time-series of whole-genome data from highly fecund gadids.

Field of work

Our research focus is on understanding evolutionary processes in highly fecund organisms. We use highly fecund gadids as study organisms. With a recently awarded Icelandic Research Fund Grant of Excellence we will obtain unparalleled amount of whole-genome sequence data from various gadid populations. Whole-genome sequence data holds huge promise in furthering our understanding of the mechanisms of selection, speciation and adaptation in natural populations. This collaborative project is joint with Katrin Halldorsdottir at ILES, Alison Etheridge at the Department of Statistics in University of Oxford, and Wolfgang Stephan and Bjarki Eldon at the Leibniz Institute for Evolution and Biodiversity Science in Berlin. Among our collaborators are Montgomery Slatkin and Rasmus Nielsen at University of Berkeley in California, Fernando Racimo Centre for GeoGenetics Copenhagen University and Tim Sackton Director of Bioinformatics at Harvard University.

The student will be based at University of Iceland and work under the supervision of Einar Arnason, Katrin Halldórsdóttir, and Bjarki Eldon in Berlin. This is a highly interdisciplinary project combining latest molecular technology, and advanced statistical and bioinformatic analysis. We will maintain good communication between all participants. The position therefore comes with possibilities to visit participating labs and groups in Berlin, Berkeley, Copenhagen, Oxford, and Cambridge (MA).

Analysis of time-series of samples using whole-genome sequencing promises to be a powerful way of understanding evolutionary history, in particular, for detecting selection. The PhD project is about the time-series part of the overall project.

We are looking for a highly motivated individual with a strong interest in evolutionary and population genomics. The University of Iceland expects PhD candidates to complete their studies and write and defend a dissertation within a time period of 3 years after a master's degree according to the Bologna process.

Qualification requirements

- M.Sc. (or equivalent) in biology, statistics, mathematics, or computer science;
- experience in some kind of data analysis;
- the ability to work both independently and in a team;
- proficiency in written and spoken English
- experience in analysing genomic data is an asset;
- strong interest in evolutionary biology and genomics is an asset;

- experience in working with UNIX/Linux is an asset

How to apply

Please include the following in the application:

- i) 1-2 page motivation letter, which should state interest in the project, expectations for your Ph.D. studies and what makes you qualified for the position,
- ii) CV and publication list (if any),
- iii) transcripts from B.Sc. and M.Sc. studies, and a list of courses during postgraduate studies,
- iv) contact information for 2 letters of reference

The successful applicant could anticipate to start work as early as July 2018, or later upon agreement, with funding guaranteed for three years.

Salary will be according to the current collective wage and salary agreement between the Union of University Teachers and the Minister of Finance.

All applications will be answered and applicants will be notified of the employment decision when a decision has been made. Applications will be valid for six months from the end of the application deadline.

APPLY by filling out form for vacancy nr. 354 <https://ugla.hi.is/radningar/umsokn.php?sid=2449&starf=354>

Some relevant publications

Einar Árnason and Katrín Halldórsdóttir. 2015. Nucleotide variation and balancing selection at the Ckma gene in Atlantic cod: analysis with multiple merger coalescent models. *PeerJ* e786. doi:10.7717/peerj.786

Bjarki Eldon and John Wakeley 2006. Coalescent processes when the distribution of offspring number among individuals is highly skewed. *Genetics* 172:2621-2633. doi:10.1534/genetics.105.052175

Bjarki Eldon, Matthias Birkner, Jochen Blath and Fabian Freund 2015. Can the site-frequency spectrum distinguish exponential population growth from multiple-merger coalescents? *Genetics* 199: 841-856. doi:10.1534/genetics.114.173807

Fernando Racimo 2015. Testing for ancient selection using cross-population allele frequency differentiation. *Genetics* 202:733-750.

Joshua G. Schraiber and Steven N. Evans and Montgomery Slatkin

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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>

UNevada Las Vegas Bioinformatics Genomics

Graduate position in bioinformatics/genomics

University of Nevada Las Vegas / Nevada Institute of Personalized Medicine School of Life Sciences United States

BACKGROUND A PhD position is available in the lab of Mira Han at University of Nevada, Las Vegas and Nevada Institute of Personalized Medicine.

Two main research going on in the lab: One focuses on studying the tissue specific expression of repeat elements and investigating the potential regulatory role of repeat elements, through analysis of existing ChIP-seq, eCLIP, RNA-seq and genetic datasets. The other focuses on studying the evolutionary constraint on insertion and deletion mutations, by estimating the indel rate in unstructured regions of the proteins and spacer regions between binding motifs in the DNA.

Nevada Institute of Personalized Medicine was just awarded a \$11.4M, 5 year Center of Biomedical Research Excellence P20 Grant from NIH in personalized medicine. Beyond the project work, PhD candidates will have opportunity to interact with other computational biologists and molecular biologists in the Nevada Institute of Personalized Medicine, through workshops and seminars.

Visit the website to find out more at www.unlv.edu/lifesciences and www.unlv.edu/NIPM . LOCALE

The UNLV campus offers a stimulating and rewarding environment. Here, you will find a friendly community dedicated to learning and research. Las Vegas has its safe communities, affordable home prices, high quality of life, little traffic.

REQUIREMENTS

Experience with programming (Python, R, C/C++) and Linux/Unix environments Self-motivation with excellent communication skills and an ability to work well in a team environment

Start date As soon as possible

HOW TO APPLY Please send a CV, three letters of reference, and a brief statement of research interests to Dr. Mira Han ([mira.han\[at\]unlv.edu](mailto:mira.han[at]unlv.edu)).

Thanks, Mira Han

Assistant Professor School of Life Sciences UNLV HRC
183B 702-774-1503

miraceti@gmail.com

UNewOrleans Computational Modeling Simulations

Graduate positions (M.Sc. and Ph.D.) are available in the Atallah Lab (<https://sites.google.com/view/-atallahlab>) in the Biological Sciences Department at the University of New Orleans (UNO). We are currently looking for students interested in simulating the role of transposable elements in evolution and human disease. In recent years, evidence has accumulated that transposable elements (TEs) play important roles in both evolutionary processes (such as changes in gene regulation) and the progression of diseases such as cancer. We are developing computer simulations of the activity of TEs in somatic cell populations and the germline. Students interested in this project should be familiar with shell scripting and computer programming. Interested students should send an email to jatallah@uno.edu. Please include a brief description of your background (or a CV or resume), and mention why you're excited about this project. The University of New Orleans is a public research university and part of the University of Louisiana system. New Orleans is a diverse and historic city with a vibrant culture.

Joel Atallah, Ph.D. Assistant professor 202 Biology Building Department of Biological Sciences University of New Orleans New Orleans, LA 70148 (504) 280-7057 <https://sites.google.com/view/atallahlab> Joel Atallah <jatallah@uno.edu>

UOtago Fish Epigenetics

PhD position: Environmental epigenetics in zebrafish

Are you interested in a PhD in Genetics? Do you want to become an expert in bioinformatics? Do you want to join the largest collection of genetics researchers in New Zealand?

We seek a highly motivated and enthusiastic student to investigate how environmental challenges and experiences affect transgenerational epigenetic inheritance, analyzing both the methylome and transcriptome of subsequent generations. This work uses the vertebrate model, the zebrafish (*Danio rerio*), extensive experimental work manipulating environmental exposures, quantitative phenotyping to assess the behaviour and life-history of multiple generations, and next-generation sequencing to identify key candidate genes for transgenerational effects. The student can focus solely on bioinformatics or can undertake research that incorporates both bioinformatics and experimental laboratory work.

The student will join the Behavioural & Evolutionary Ecology Group, led by Dr. Sheri Johnson, in the Zoology Department at the University of Otago in Dunedin, New Zealand. This project also involves a multidisciplinary team of collaborators: Prof Neil Gemmill (U. Otago), Dr Tim Hore (U. Otago), A/Prof Shinichi Nakagawa (U. New South Wales), and A/Prof Simone Immler (Uppsala University).

Selection criteria: We seek a student with an exceptional academic record, a keen interest in behavioural ecology and/or evolutionary biology, experience with bioinformatics analyses, and a demonstrated ability in written and oral communication. The ideal candidate is expected to hold a relevant Hons / MSc degree and must be eligible to enroll in the University of Otago's PhD (3 year) programme.

Application details: If you are interested in joining our exciting project at Otago, please send an e-mail with an expression of interest, your CV and academic transcript to Sheri Johnson (sheri.johnson@otago.ac.nz). High quality applicants will need to apply for an Otago PhD scholarship, which covers tuition and provides a stipend (\$25000 NZD/year). International (i.e. non-New Zealand resident) students are welcome and encouraged to apply.

For information on PhD study at the University of Otago, including entry requirements, see: <http://www.otago.ac.nz/postgraduate/index.html> For information on Genetics @ Otago, see: <https://www.otago.ac.nz/genetics/postgraduate/index.html> For information on the Department of Zoology, see: <http://www.otago.ac.nz/zoology/> "sheri.johnson@otago.ac.nz" <sheri.johnson@otago.ac.nz>

UOxford PredictingAntimicrobialSpread

Note early deadline: Wednesday 11 July

An opportunity has arisen for a D.Phil. (Ph.D.) place on the BBSRC-funded Oxford Interdisciplinary Bioscience Doctoral Training Partnership in the area of Artificial Intelligence, specifically 'Predicting the spread of antimicrobial resistance from genomics using machine learning'.

If successful in a competitive application process, the candidate will join a cohort of students enrolled in the DTP's one-year interdisciplinary training programme, before commencing the research project and joining Danny Wilson's research group at the Big Data Institute. See www.danielwilson.me.uk This project addresses the BBSRC priority area 'Combatting antimicrobial resistance' by using ML to predict the spread of antimicrobial resistance in human, animal and environmental bacteria exemplified by *Escherichia coli*. Understanding how quickly antimicrobial resistance (AMR) will spread helps plan effective prevention, improved biosecurity, and strategic investment into new measures. We will develop ML tools for large genomic datasets to predict the future spread of AMR in humans, animals and the environment. The project will create new methods based on award-winning probabilistic ML tools pioneered in my group (BASTA, SCOTTI) by training models using genomic and epidemiological data informative about past spread of AMR. We will apply the tools collaboratively to genomic studies of *E. coli* in Kenya, the UK and across Europe from humans, animals and the environment, Enterobacteriaceae in North-West England, and *Campylobacter* in Wales. Genomics has proven effective for asking 'what went wrong' in the context of outbreak investigation and AMR spread; here we will address the greater challenge of repurposing such information using ML for forward prediction of future spread of AMR. Scrutiny will be intense because future predictions can and will be tested, raising the bar for the biological realism required while producing computationally efficient tools.

Attributes of suitable applicants: Understanding of genomics. Interest in infectious disease. Some numeracy, e.g. mathematics A-level, desirable. Experience of coding would help.

Funding notes: BBSRC eligibility criteria for studentship funding applies (<https://www.ukri.org/files/legacy/news/training-grants-january-2018-pdf/>). Successful students will receive a stipend of no less than the standard RCUK stipend rate, currently set at 14,777 per year.

How to apply: send Dr Wilson a CV and brief covering letter/email (no more than 1 page) explaining why you are interested and suitable by the ***Wednesday 11 July*** initial deadline. (He will invite the best applicant/s to submit with him a formal application in time for the Friday 13 July second-stage deadline).

Daniel Wilson <daniel.wilson@bdi.ox.ac.uk>

UPittsburgh Evolution Sep22 TravelAward

We are excited to announce that thanks to generous funding from SMBE, we are now accepting applications for a limited number of small (up to \$200) travel awards. Awards are to facilitate attendance by individuals from underrepresented groups, as well as any applicants with a demonstrable need for transportation, accommodation, and/or childcare funds related to the event. We are also now able to provide lunch free of charge to all registrants.

You can apply for awards, register for the conference, and submit abstracts, at our website: <https://sites.google.com/view/treepgh/> What is TREE?

TREE aims to bring together researchers to share and discuss all aspects of evolutionary biology in a diverse, exciting, and accessible environment. Last year, 168 attendees from 38 different institutions joined us in our shared passion for evolution, and we expect our community to grow even larger in 2018. This year's keynote address will be delivered by Dr. L Lacey Knowles of the University of Michigan.

When and Where: Saturday, September 22nd, 2018 at the University of Pittsburgh

Registration and Call for Abstracts:

Researchers of all stages and institutional affiliations are welcome to present. The deadline for both registration and abstract submission is July 31st. To register and/or submit an abstract for a talk or poster, please see our website. There is no fee for registration. Breakfast and lunch will be provided free of charge.

Please add this account (TREEconf@pitt.edu) to your contacts to ensure that future emails are delivered without issue!

Best,

The TREE 2018 Organizing Committee

Contact us at TREEconf@pitt.edu

Three Rivers Evolution Event
<TREECONF@pitt.edu>

USydney EvolutionarySensoryEcol

PhD projects in evolutionary and sensory ecology, The University of Sydney.

Projects: The Evolutionary and Sensory Ecology Lab at The University of Sydney (<https://www.tomwhite.io>) is seeking expressions of interest from enthusiastic students looking to pursue a PhD. Potential topics are diverse, though well-defined projects exist around questions of (1) the evolution and ecology of dynamic visual communication, using model butterflies (2) the coevolution of sensory systems and visual signals, combining broad-scale field work and experimental evolution, and (3) the optics, function, and evolution of iridescence in nature. Students will be strongly encouraged to develop their own research agendas within these broader contexts, and will ultimately integrate observational, experimental, and theoretical approaches to test and refine theory.

Location: The University of Sydney is a world-class research institution, and one of the top-ranked universities in Australia. It is home to outstanding researchers and facilities, and the candidate will be able to make full use of the resources at hand, while pursuing the rich opportunities for collaboration within the university, its immediate surrounds, and abroad.

Requirements: Suitable candidates will be highly motivated, with some previous experience in research. The successful applicant(s) will be supported in applying for a Research Training Program scholarship (formerly the Australian Postgraduate Award) and the University's equivalent, which share an application. See the university website for full details of the requirements and application process (<http://sydney.edu.au/scholarships/-research/research-training-program.shtml>). Scholarships are highly competitive, and a first-class Honours or Masters Degree (or international equivalent) and/or

publication in a recognised scientific journal is essential. Expressions of interest: To apply, please send (1) a brief statement of research interests & aspirations, (2) a CV, and (3) the contact details of two referees directly to Thomas White (thomas.white@sydney.edu.au) by August 20. Though scholarships are now offered on a continuous basis year-round, full applications are due in October for projects beginnings in February 2019.

Thomas White <thomas.white@sydney.edu.au>

UValencia EvolutionSexualConflict

PhD Student- The role of ecology in the evolution of sexual conflict What do we offer? We offer a PhD position starting on September 2018 to January 2019.

To do what? We are looking for a PhD student interested in studying the evolutionary factors modulating the intensity of male-male competition and sexual conflict, and its consequences in terms of population viability. Strong sexual selection can improve population viability and evolvability through a number of processes, such as genic capture. However, strong sexual selection will also often give rise to sexual conflict and female harm, which does not only tend to deviate females from their evolutionary optima, but can drastically affect population viability, leading to a “reproductive tragedy of the commons”. We are still far from understanding what factors modulate the evolution of female harm levels, and sexual conflict at large, and how this feeds back into population viability. Our on-going research aims to contribute to fill these gaps in knowledge by investigating factors potentially modulating the evolution of sexual conflict. This PhD will explore the role of different ecological and demographic factors (e.g. temperature, population density and structure) affect male-male competition levels and the potential for sexual conflict, mainly in *Drosophila melanogaster*. The research project involves behavioural experiments in the lab, experimental evolution, and considerable fieldwork in Spain, the USA and Australia.

Funding We offer funding for up to 3+ yrs, but applicants will be expected to apply for independent PhD fellowships. Where? The student will be supervised by Dr. Pau Carazo, and based at the Behaviour and Evolution group of the Ethology Lab, at the Cavanilles institute of Biodiversity and Evolutionary Biology (University of Valencia, Spain). For information about our group visit our website (<http://paucarazo.com>).

Who? We are looking for a motivated, enthusiastic, hard-working candidate with some background (and a strong interest) in sexual selection, and evolutionary biology and animal behaviour at large.

Contact For further information and expressions of interest, please contact Pau Carazo (University of Valencia; pau.carazo@uv.es). The deadline for applications is the 10th September.

Best wishes,

Pau

Dr. Pau Carazo Ram  n y Cajal Fellow Instituto Cavanilles of Biodiversity and Evolutionary Biology University of Valencia Tel: +34 963544051 <http://paucarazo.com> Pau Carazo <pau.carazo@uv.es>

UVermont Evolution

Subject:

Applications open for graduate studies in ecology and evolution and QuEST Doctoral Training program, Department of Biology, University of Vermont

Message:

The Department of Biology, University of Vermont, seeks qualified PhD and MS applicants for the Fall of 2019 to join our interdisciplinary research program in ecology and evolution.

We are a medium-sized, integrative biology department (most labs typically have 3 to 5 graduate students) with a passion for our research and our teaching. We will work with you to design a successful research program that will prepare you for your career in academic, medical or private sector research; government work; or teaching at the baccalaureate level.

Our department has recently been awarded a major NSF-funded National Research Training grant in Quantitative and Evolutionary STEM training (QuEST). The QuEST grant provides doctoral students with foundational training in quantitative data analysis and modeling, fellowship support, and internship placements to apply evolutionary principles toward solving real-world problems.

Potential faculty mentors in the Department of Biology include: Ingi Agnarsson (systematics), Alison K. Brody (plant-animal interactions), Charles J. Goodnight (evolutionary theory), Nicholas J. Gotelli (community

ecology), Sara Helms Cahan (sociobiology), Brent L. Lockwood (physiological ecology), Melissa Pespeni (ecological genomics), Lori Stevens (population genetics).

The department and campus have excellent facilities for research, and there are opportunities for collaboration with faculty and graduate students in other units on campus, including Complex Systems, Plant Biology, The Rubenstein School of Environment and Natural Resources, and The Gund Institute for the Environment. Our faculty conduct their field research at sites around the globe, but there are also exciting projects ongoing in Lake Champlain and the nearby Green Mountains and Adirondacks.

Founded in 1791, UVM is consistently ranked as one of the top public universities in the United States. The University is located in Burlington, Vermont, a vibrant and environmentally-minded small city rich in cultural and recreational activities for graduate students and their families.

We only admit students for whom we have secured financial support through graduate teaching fellowships, QuEST fellowships, or external grants. Before you apply, you should directly contact individual faculty members to explore mutual research interests and projects.

This link will give you an overview of graduate life in the Biology Department: (<https://www.uvm.edu/cas/biology/graduate-programs-overview>)

This link will let you explore the web pages and research interests of individual faculty: (<https://www.uvm.edu/cas/biology/faculty-staff>)

This link will give you information about the QuEST program:

(<https://www.uvm.edu/quest>)

This link will let you begin the application process:

(<https://www.applyweb.com/uvmg/index.ftl>)

If you have any additional questions, please contact the Chair of Graduate Affairs, Dr. Nicholas J. Gotelli (ngotelli@uvm.edu).

We hope to see your application for Fall 2019!

Thanks!

Emily

Emily Mikucki, Ph.D. candidate

Department of Biology

University of Vermont

Room 202, Marsh Life Science Bldg.

109 Carrigan Drive

Burlington, VT 05405

802-656-2921

Emily Mikucki <Emily.Mikucki@uvm.edu>

UWisconsin Milwaukee KelpPopulationGenetics

The Alberto lab at UW-Milwaukee is seeking for a graduate student for Fall 2019 with particular interest topics ranging from a more conceptual molecular ecology (kelp forests, seagrass species) to more applied research topics such as genomic selection in macroalgae. The lab research interest are broad in all areas of population genetics and genomics from fine scale spatial genetic structure and demographic inference, local adaptation, oceanscape genetics and range wide biogeographical analysis of model organisms. Our focus is both on empirical and applied research through the acquisition of population genetics data, using molecular marker techniques, simulation based hypothesis testing and species distribution modeling. The laboratory is also presently funded by the department of Energy on a project to develop the genomic selection of giant kelp strains for biofuel production (see more at <http://uwm.edu/news/uwm-biologist-awarded-2-8-million-grant-improve-farming-kelp-bioenergy/>).

Our closer collaborators have included the Santa Barbara Coastal LTER (<http://sbc.lternet.edu/>) based at UCSB, California, The Moss Landing Marine Laboratory in Central California, the Center for Marine Sciences at University of the Algarve, Portugal (<http://www.ccmr.ualg.pt/maree/>) and the University of Southern California and the Wrigley Marine Science Center. Students interested in developing projects in topics related to seagrass population genetics or the balance between clonal and sexual strategies, focusing on marine or freshwater plant model species, are also welcomed to contact me. Please see my website for more information on our team (<http://alberto-lab.blogspot.com/>).

UWM has an active group of researchers studying evolutionary genetics and behavior: <https://uwm.edu/biology/research/ecology-evolution-and-behavior/>. Students would enroll in the graduate program in the department of biological sciences at UWM (<https://uwm.edu/biology/graduate/prospective-students/>), the deadline for applications is December 1. The minimum requirements for admission to the Biology Department include

an undergraduate GPA of at least 3.0 and GRE scores (both verbal and quantitative) in the 50 percentile or better. You can find more information from the Graduate School website <http://uwm.edu/graduateschool/>. Graduate School - University of Wisconsin-Milwaukee <<http://uwm.edu/graduateschool/>> uwm.edu Graduate Student Support. Graduate School provides help with professional development like Dissertation Boot Camp. Learn More

All graduate students at UWM can be supported financially by teaching assistantships (TA) and receive a stipend, full tuition waiver, and health insurance. TA appointments are usually made at the 50% level, which involves a teaching commitment of 20 hours per week. MS students can expect TA support for up to 3 years and PhD students up to 5 years. You must apply by December 1 to be considered for a TA position. There are also other opportunities for funding, such as University-

wide fellowships that are generally based on GRE and GPA, which are given to students after they have been enrolled at UWM for one year. More information at <https://uwm.edu/biology/graduate/funding/> To apply please send me an email (albertof@uwm.edu) including 1) a statement of research interests, 2) a summary of your previous academic and research experiences, and 3) a summary on how your research interests might fit our lab. Finally, please include a CV (with GPA and GRE scores).

Filipe Alberto Associate Professor

Dept. of Biological Sciences University of Wisconsin - Milwaukee 3209 N. Maryland Ave. Milwaukee, WI 53211

URL: <http://alberto-lab.blogspot.com/> Email: albertof@uwm.edu

Filipe AOs Alberto <albertof@uwm.edu>

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CarletonU PlantEvolutionaryGenetics	37	PontificiaU Santiago MarineBiodiversity	48
ClarkU ParttimeTeaching MolSystematics	38	QMUL London Evo Bioinformatics Core	49
ClemsonU BioinformaticsStatGenetics	38	SanDiegoZooGlobal PopulationBiologist	49
ClemsonU EvolutionaryComputationalBiol	39	SGN Frankfurt LabManager Biodiversity	50
ColumbiaU EvolutionOfHostSymbiont	39	UCalifornia LosAngeles AdjunctEvolutionaryBiol ..	51
CornellU LabTech GenomicsBehavior	40	UEastAnglia PDF and Tech AgeingLifeHistoryEvolu-	51
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BangorU 3 MolecularEcolEvolution

3 full-time Lecturers (Teaching and Research) in School of Biological Sciences, Bangor, UK

The School of Biological Sciences is currently commencing a search for three Lecturers in Biological Sciences (Grade 7) - At least one of the hires is destined to be in the realm of molecular ecology/genomics and evolution.

The Molecular Ecology and Fisheries Genetics Laboratory (<http://mefgl.bangor.ac.uk/>) is therefore seeking a new team member and collaborator to join existing faculty and strengthen research and teaching capability. Current Principal Investigators comprise Si Creer, Gary Carvalho, George Turner, Alex Papadopoulos, James McDonald, Andy Foote, Wolfgang WÄster, David Duffy and Anita Malhotra with interests spanning speciation, venom/genome evolution and adaptation, pollinators, phylogenetics, systematics, fisheries genetics/genomics and a diverse array of environmental genomics applications.

The MEFGL is housed in the Environment Centre Wales Building (ECW), linking the MEFGL to the Schools of Ocean Sciences, Environment, Natural Resources and Geography and the NERC Centre for Ecology and Hydrology (CEH). The MEFGL benefits from fully equipped molecular labs (molecular ecology and environmental DNA), high-throughput sequencing capability across a number of UK genome centres and bioinformatic capability via the HPC Wales supercomputing genomics gateway. Research in the School of Biological Sciences is ranked in the top 20 Universities in the UK (2014 REF). Across the University, three-quarters of Bangor's research is either world-leading or internationally excellent.

Any questions, please pay a visit to the MEFGL website <http://mefgl.bangor.ac.uk/> and liaise with Prof. S Creer (tel: +44 (0) 1248 382302, email: s.creer@bangor.ac.uk), Dr. Alex Papadopoulos (tel: +44 (0) 1248 382234, email: a.papadopoulos@bangor.ac.uk) or your chosen MEFGL investigator, with the job reference BU01625.

Mae croeso i chi gysylltu gyda'r Brifysgol yn Gymraeg

neu Saesneg

You are welcome to contact the University in Welsh or English

Rhif Elusen Gofrestredig 1141565 - Registered Charity No. 1141565

Alexander

Papadopoulos

<a.papadopoulos@bangor.ac.uk>

CaliforniaStateU EastBay EvolutionaryBiology

The Department of Biological Sciences, California State University, East Bay (CSUEB) seeks to fill a tenure-track position in Integrative Biology at the level of Assistant Professor beginning Fall 2019. We specifically invite applications from individuals with a strong background in experimental ecology and field biology, particularly those who integrate perspectives across one or more biological disciplines and use modern molecular techniques. Ideal candidates will have a research focus that involves investigation of population- or community-level issues affecting natural populations, particularly in the greater San Francisco Bay Area and/or other regions accommodating to student field research. We seek a dynamic teacher-scholar with a strong commitment to undergraduate and graduate education and the development of a student-centered, externally funded research program in a culturally diverse community. The candidate will be expected to teach existing undergraduate majors courses including Principles of Organismal Biology, Ecology, and Conservation Biology. In addition, the candidate will be expected to develop upper division and Master's-level courses in their area of specialization. Special consideration will be given to applicants who can offer upper division courses in Wildlife Ecology, Molecular Ecology, and/or the analysis of ecological data using R and other software packages. Please note that teaching assignments at CSUEB may include courses at the Hayward, Concord, and Online campuses. In addition to teaching and professional activity, all faculty members have advising responsibilities, engage in departmental

administrative and committee work, and are expected to assume campus-wide committee responsibilities.

A Ph.D. in biology, ecology, conservation biology, zoology, environmental sciences or a related field and a year of postdoctoral experience by August 2019 are required, with teaching experience preferred. Candidates should demonstrate experience in teaching, mentoring, research, and/or community service that has prepared them to contribute to our commitment to diversity and excellence. Additionally, applicants must demonstrate a record of scholarly activity. This University is fully committed to the rights of students, staff and faculty with disabilities in accordance with applicable state and federal laws. For more information about the University's program supporting the rights of our students with disabilities see: <http://www.csueastbay.edu/af/departments/as/> Initial screening of applications will begin on August 10, 2018 with the position remaining open until filled. Applications should include a cover letter, curriculum vitae, separate teaching, research and diversity statements, recent publications most pertinent to the proposed research program (three maximum) and, if available, a summary of relevant teaching evaluations (may be included in the teaching statement). Applicants should submit application materials and arrange to have three letters of recommendation uploaded directly to Interfolio (<https://apply.interfolio.com/51783>)

For questions, please contact the Chair of the Search Committee, Erica Wildy, at erica.wildy@csueastbay.edu ana.almeida@csueastbay.edu

CarletonU PlantEvolutionaryGenetics

The Department of Biology at Carleton University invites applications from qualified candidates for a tenure-track faculty position at the level of Assistant Professor in the area of Plant Genetics, beginning July 1, 2019. We are especially interested in Plant Biologists with expertise in Population Genetics, Evolutionary Genetics, or Evolutionary Genomics.

About the Academic Unit:

The Department of Biology has research strengths in most areas of Biology as well as in Biochemistry. The Department offers a variety of undergraduate honours programs in Biology, and contributes to several joint programs in the Faculty of Science. The Department also

offers graduate programs in Biology at the M.Sc. and Ph.D. levels. Our facilities include greenhouses with a comprehensive plant collection of several thousand specimens, environmental chambers, teaching and research gardens, computational infrastructure, and molecular biology and biochemistry research facilities. Carleton University is located in Ottawa, the capital of Canada and a major center for research and development. The Department of Biology enjoys close research interactions with several government departments and organizations in the National Capital Region. Please consult the following web sites for more information about Carleton University and the Department of Biology: www.carleton.ca and www.carleton.ca/biology.

Qualifications:

Applicants will have a Ph.D. and preferably postdoctoral experience in the relevant discipline, with a strong commitment to excellence in both teaching and research. The successful candidate will be expected to strengthen our research and teaching programs in Population Genetics or Genomics and Molecular Biology. She/he will establish an externally-funded, independent and vibrant research program, and contribute to graduate and undergraduate teaching and training in research.

Application Instructions:

Application materials should be sent electronically by September 1, 2018 as one PDF file to Biolog@carleton.ca to the attention of: Chair, Search Committee for Assistant Professor in Plant Genetics, Department of Biology, Room 209, H.H.J. Nesbitt Biology Building, 1125 Colonel By Drive, Ottawa, Ontario K1S 5B6 Canada.

The electronic PDF file should include the following: a cover letter, the names and contact information for three referees, a curriculum vitae, a statement of current and future research interests, and a statement of your teaching philosophy with a list of Biology and Biochemistry courses you would be interested in teaching or developing. Course descriptions can be found at: <http://calendar.carleton.ca/undergrad/courses/BIOL/> <http://calendar.carleton.ca/undergrad/courses/BIOC/> <http://calendar.carleton.ca/grad/courses/BIOL/> Please indicate in your application if you are a Canadian citizen or permanent resident of Canada.

About Carleton University:

Carleton University is a dynamic and innovative research and teaching institution with a national and international reputation as a leader in collaborative teaching and learning, research and governance. With over 29,000 students, 950 academic faculty, and 2,000 staff and more than 100 programs of study, we encourage

creative risk-taking enabling minds to connect, discover and generate transformative knowledge. We are proud to be one of the most accessible campuses in North America. Carleton's Paul Menton Centre for Students with Disabilities has been heralded as the gold standard for disability support services in Canada.

Located in Ottawa, Ontario, Canada's capital city has a population of almost one million and reflects the country's bilingual and multicultural character. Carleton's location in the nation's capital provides many opportunities for scholarship and research with groups and institutions that reflect the diversity of the country. To learn more about our university and the City of Ottawa, please visit www.carleton.ca/provost. Carleton University is committed to fostering diversity within its community as a source of excellence, cultural enrichment, and social strength. We welcome those who would contribute to the further diversification of our university including, but not limited to: women; visible minorities; First Nations, Inuit and Métis peoples; persons with disabilities; and persons of any sexual orientation, gender identity and/or expression. Carleton understands that career paths vary. Legitimate career interruptions will in no way prejudice the assessment process and their impact will be taken into careful consideration.

Applicants selected for an interview are asked to contact the Chair as

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ClarkU ParttimeTeaching MolSystematics

Department of Biology Clark University Worcester MA 01610

Part-Time Instructor à euro Á

The Department of Biology is seeking a part-time instructor for the fall 2018 semester to teach the following undergraduate level course:

Molecular and Evolutionary Systematics (BIOL 254).

This is a lecture-only course that runs Monday and Friday, 10:25-11:40pm.

Preference is for applicants with a Ph.D. but we will consider those nearing completion of the degree. Previous teaching experience is preferred. We expect to offer \$5,000 for course coverage.

Part-time faculty expectations include the following; excellent attendance record, regularly scheduled office hours, adherence to undergraduate program requirements.

The fall semester begins August 27, 2018 and ends December 21, 2018.

Interested applicants should electronically submit a resume and cover letter (or questions) concerning this position directly to the Chair of the Biology Department, Justin Thackeray (jthackeray@clarku.edu).

“AA/EOE Minorities and women are strongly encouraged to apply”

Justin Thackeray <JThackeray@clarku.edu>

ClemsonU BioinformaticsStatGenetics

A position is available for a bioinformatician/statistical geneticist staff scientist in the newly established Center for Human Genetics at Clemson University. The Clemson Center for Human Genetics is located in Greenwood, SC on the Greenwood Genetic Center Research Park. This is a non-tenure track Research Scientist position, which requires a Ph.D. degree with a record of productivity. The ideal candidate will have expertise in bioinformatics analyses of next generation sequencing data (DNA, RNA, ChIP); analysis of metabolic and proteomic data; statistical genetic and quantitative genetic data analysis and computational biology. The successful candidate will conduct collaborative research and is expected to publish, and provide advice and support to faculty members, postdocs and students in the Center for Human Genetics. The position requires excellent interpersonal and communication skills. Enquiries should be addressed to Dr. Trudy F. C. Mackay, Self Family Endowed Professor and Director of the Center for Human Genetics, Clemson University, Self Regional Hall, 114 Gregor Mendel Circle, Greenwood, SC 29646 (tmackay@clemson.edu).

Applications must include a cover letter explaining the qualifications for this position, a curriculum vitae with list of publications, and the names of three references. The position is available immediately. Salary is com-

petitive and commensurate with experience. Clemson University is an equal opportunity employer.

Applications should be submitted electronically via the link:

https://cujobs.clemson.edu/psc/ps/JOBS/EXT/-c/HRS_HRAM.HRS_APP_SCHJOB.GBL?Page=-HRS_APP_JBPST&Action=U&FOCUS=-Applicant&SiteId=1&JobOpeningId=-102946&PostingSeq=1

Trudy F. C. Mackay, PhD, FRS Self Family Endowed Chair of Human Genetics Clemson Center for Human Genetics Department of Genetics and Biochemistry Clemson University Self Regional Hall 114 Gregor Mendel Circle Greenwood, SC 29646 Email: tmackay@clemson.edu

Trudy Mackay <trudy_mackay@ncsu.edu>

ClemsonU EvolutionaryComputationalBiol

Research Scientist/Postdoctoral position: Population geneticist and/or evolutionary biologist with strong emphasis in computational biology and bioinformatics

A research scientist position is available in the laboratory of Stephen Kresovich at Clemson University to study the genetics and genomics of crop evolution, adaptation, and the basis of phenotypic variation. This position is funded for at least 2 years by multiple agencies including the DOE, USDA, and state appropriations.

The research scientist will work collaboratively on multiple projects across the Institute for Translational Genomics and the Advanced Plant Technology Program. The primary responsibility of the position is to explore, analyze, and curate genomic data from multiple organisms ranging from crop species to microbial populations. The researcher is expected to work on and lead projects related to genome assembly, genetic mapping, and expression analysis. In addition to assisting the PI and other researchers, the research scientist is strongly encouraged to synthesize new research topics and develop an independent research identity within the scope of the funded projects.

Candidates should have a Ph.D. or equivalent in evolution, genetics/genomics, bioinformatics, or related field. The ideal candidate will have a strong foundation in a coding language (e.g., perl, python, R, etc). Experience using a high-performance computing cluster is preferred.

Although the position will focus on plant genomics, experience with plants is not a requisite. Qualified candidates with experiences in other organisms are strongly encouraged to apply.

To apply, please send a cover letter and a CV with 3 references to skresov@clemson.edu by 10 Aug 2018 or apply through Clemson University online portal located at https://cujobs.clemson.edu/psc/ps/JOBS/EXT/-c/HRS_HRAM.HRS_APP_SCHJOB.GBL?Page=-HRS_APP_JBPST&Action=U&FOCUS=-Applicant&SiteId=1&JobOpeningId=-102931&PostingSeq=1

Zachary W Brenton
<zwbrent@clemson.edu>

ColumbiaU EvolutionOfHostSymbiont

Research Scientist position, Lamont-Doherty Earth Observatory of Columbia University

The Research Scientist will join the team of Dr. Duhamel at the Lamont-Doherty Earth Observatory of Columbia University to mainly support research activities related to a project funded by the Moore Foundation. The Research Scientist will be responsible for the day to day oversight of a scientific project researching an endosymbiosis between embryos of the spotted salamander (*Ambystoma maculatum*) and an algal symbiont that lives inside its egg capsules (*Oophila amblystomatis*). The Research Scientist will design and conduct experiments to improve our understanding of the potential transfer of metabolites between the symbiont and its host. The Research Scientist will work independently and will coordinate research activities, including data analyses and scientific paper writing with Duhamel and other collaborators involved in this project at other institutions.

Candidates should have a PhD in molecular biology or related field and at least six years of science experience and demonstrated expertise in using radio- and/or stable isotopes and qPCR, single cell scale transcriptomics, bioinformatics and genomics. Experience with symbiotic systems, field collection of materials, and work in non-model systems. Fluency in computer programming and experience with machine learning algorithms preferred. A strong record of publications in the scientific literature required. Success in mentoring and supervising students and technical staff. And organizational, managerial, editorial or public outreach skills, preferred.

Appointments are made on a fiscal year basis and are eligible for renewal each July 1, contingent upon performance and funding.

Search will remain open for at least 30 days after the ad appears and will continue until the position is filled.

Please visit our online application site at <https://academicjobs.columbia.edu/applicants/Central?quickFind=66756> for further information about this position and to submit your application, curriculum vitae, cover letter and references.

Columbia University benefits offered with this Officer of Research appointment.

Columbia University is an Equal Opportunity/Affirmative Action employer – Race/Gender/Disability/Veteran.

We accept online applications only.

Helen Olivette <olivette@ldeo.columbia.edu>

[university-JV_IC1132041_KO0,54_KE55,73.htm?jl=-2855211537&utm_campaign=-google_jobs_apply&utm_source=-google_jobs_apply&utm_medium=organic](http://www.cornell.edu/department/neurobiology-and-behavior/michael-j-sheehan) Michael J Sheehan

Assistant Professor

Nancy and Peter Meinig Investigator in the Life Sciences Neurobiology and Behavior

Cornell University

W303 Mudd Hall

215 Tower Rd

Ithaca NY, 14853

(607) 254-4302

msheehan@cornell.edu

Michael Sheehan <msheehan@cornell.edu>

CornellU LabTech GenomicsBehavior

The Sheehan lab in the department of Neurobiology and Behavior at Cornell is looking to hire a lab technician/manager position for integrative work combining ecology, evolution, genomics and neurobiology to understand the social behavior. Work will include overseeing and maintaining the lab and facilitating a diversity of on going projects using cutting edge functional and population genomics, behavioral analyses and neurobiological imaging.

The lab's work focuses on understanding the evolution of social behavior and communication in animals and is supported by grants from NIH and NSF. We maintain close connections with other labs in Neurobiology and Behavior as well as nearby departments on Cornell's campus including Ecology and Evolution and Molecular Biology and Genetics.

Ithaca is consistently rated a top place to live and work! Anticipated start date would be some time before the end of the year or in the beginning of next year.

Please get in touch (msheehan@cornell.edu) if you have any questions.

Job posting is available here: <https://www.glassdoor.com/job-listing/technician-iii-department-of-neurobiology-and-behavior-cornell->

CSIRO Canberra GenomicSelection

Genomic Selection Research Scientist

* Are you a Research Scientist experienced in quantitative genetics? * Work on interesting projects with real-world application * Join CSIRO - Australia's premier science and technology research organisation

The Position

CSIRO's Agriculture and Food team are looking to appoint a Research Scientist within the Cotton Biotechnology Group.

As the successful candidate, you will be an innovative and forward thinking quantitative geneticist, who has at least four years of postdoc experience as a quantitative or population geneticist. In this role you will work closely with the Cotton Breeding and Molecular Breeding Technologies teams to develop and validate statistical approaches for predicting the field performance of cotton plants.

Find out more by viewing the full position description and selection criteria here: [Position description](#)

Your duties/responsibilities will include: * Incorporate novel approaches to scientific investigations by adapting and/or developing original concepts and ideas for new, existing and further research. * To collate, verify and store cotton genotype, pedigree, and field based phenotype and environmental data in accessible breeding

databases such as AGROBASE, working in close collaboration with the teams generating the data to ensure that it remains relevant for both conventional and advanced genetic approaches to cotton improvement. * Maintain an in depth familiarity with recent advances in quantitative genetics and applications of Genomic Selection in different crops and animals that may also be applicable to cotton. * Design and implement robust statistical approaches and computational pipelines to model the relationships between cotton genotypes and their field based agronomic traits such as fibre quality and yield in different growing seasons and environments. * Analyse the prediction accuracies of genomic selection models for different cotton agronomic traits and refine the models or approaches over time as new phenotype and genotype information becomes available from the breeding program or as the GS field advances.

Location: Canberra, ACT or Myall Vale, NSW Salary: \$97K - \$105K plus up to 15.4% superannuation Tenure: Indefinite Reference: 57556

To be successful you will need: * A doctorate or equivalent research experience in a relevant discipline area, such as quantitative genetics, biostatistics, genomics or plant breeding. * A successful postdoctoral experience as a quantitative or population geneticist. * Demonstrated expertise in developing and applying a wide range of analyses for genetic parameter estimation, GWAS, and Genomic Selection, preferably in crop species. * Demonstrated skills in the handling and analysis of large genotype and phenotype datasets, including the generation of genomic relationship matrices, population structure analysis, generation of genomic breeding values, and imputation pipelines. * Evidence of advanced programming skills and software design in languages and statistical software packages relevant to bioinformatics and biostatistics (e.g. Python, SAS, R or equivalent).

We imagine. We collaborate. We innovate. At CSIRO, we do the extraordinary every day. We innovate for tomorrow and help improve today - for our customers, all Australians and the world. We do this by using science and technology to solve real issues. Diversity is the compass that navigates our innovation. We provide an inclusive workplace that respects, values and actively pursues the benefits of a diverse workforce.

We work flexibly at CSIRO, offering a range of options for how, when and where you work. Talk to us about how this role could be flexible for you. Find out more Balance

How to Apply: To apply, please provide a CV as well as a cover letter addressing the selection criteria in brief to Philippe.Moncuquet@csiro.au. If your application

proceeds to the next stage you may be asked to provide additional information.

Applications Close: Monday, 27th August 2018

“Philippe.Moncuquet@csiro.au”
<Philippe.Moncuquet@csiro.au>

Idaho FishPopGenetics

Fisheries Geneticist

Closing Date: August 31, 2018

<http://www.critfc.org/blog/jobs/fisheries-geneticist-4/>

The Columbia River Inter-Tribal Fish Commission (CRITFC) is seeking a Fisheries Geneticist with experience in population genomics, association mapping, and mixed stock analyses. Positions are part of the Fishery Science Department, but will be located with the genetics group at the Hagerman Fish Culture Experiment Station in Hagerman, ID. This research group is involved in testing conservation, evolution, and ecological theories related to salmonids and other fishes. The employee will work under the Lead Geneticist, in association with CRITFC geneticists and technicians, as well as staff of the Fishery Science Department in Portland, OR. Efforts will focus on applying empirical genetics/genomics data to address questions related to conservation and recovery of steelhead, chinook, sockeye, and coho salmon, white sturgeon, Pacific lamprey, and other fishes of the Columbia Basin.

Position Details: <http://www.critfc.org/blog/jobs/-fisheries-geneticist-4/> - Starting Salary: \$57,098 - \$88,974 (CRITFC equivalent to GS11/12)

- Department: Fishery Science, Genetics
- Classification: Full-time, Regular, Exempt
- Location: Hagerman, Idaho

Shawn Narum <nars@critfc.org>

JNCASR India EvolutionaryBiol

The Evolutionary and Integrative Biology Unit (formerly Evolutionary and Organismal Biology Unit) of the Jawaharlal Nehru Centre for Advanced Scientific

Research (JNCASR) is interested in hearing from those who would like to be considered for possible hiring as Fellow or Faculty Fellow (equivalent to Assistant Professor) in this Unit. The Unit is among the best centres for research and training in whole-organismal biology in India, with a very strong focus on high quality graduate teaching. This is an informal call from the Unit and not a formal institutional advertisement. However, the Unit may forward suitable names to the Centre for formal action.

We are interested in people with a proven track record of high quality research in the broad areas of ecology, evolutionary biology, or animal behaviour, a demonstrated ability to think independently and formulate their own research questions relating to the functioning of organisms in an ecological context and/or how such functionality evolves, and a strong interest in and passion for teaching and mentoring. Faculty in the Unit are required to teach at least one basic and one advanced course each year, and, possibly, a laboratory course every semester. We would like to hear from people doing field-based, lab-based, or theoretical research, and especially those employing combinations of the three. We are seeking people with strengths complementary to rather than overlapping with existing faculty.

Potential fellows typically have at least 1-2 years of postdoctoral research experience and potential Faculty Fellows typically have at least 2-3 years of postdoctoral experience. If you are interested, please write to Prof. T.N.C. Vidya (Chair, EIBU) at tncvidya.lab@gmail.com with a CV, statement of research interests, and statement of teaching interests detailing the basic, advanced, and laboratory courses you would like to teach. Please also include PDFs of your three most significant (not necessarily highest impact) publications, along with an explanation of why you rate them so.

Amitabh Joshi, Ph.D., F.A.Sc., F.N.A.Sc., F.N.A. Professor Evolutionary and Organismal Biology Unit Jawaharlal Nehru Centre for Advanced Scientific Research Jakkur P.O. Bengaluru 560 064, INDIA

Web-page: <https://sites.google.com/view/ebj-jncasr/-home> Associate Member, National Institute of Advanced Studies Indian Institute of Science Campus Bengaluru 560 012, INDIA

Adjunct Professor, Indian Institute of Science Education and Research Mohali, INDIA

J. C. Bose National Fellow

Editor-of-Publications, Indian Academy of Sciences Bengaluru 560 080, INDIA

“ajoshi@jncasr.ac.in” <ajoshi@jncasr.ac.in>

Louisiana LabTech MarineMammalGenetics

Senior Research Associate I Marine Mammal Genetics Laboratory Technician

The Cooperative Institute for Marine and Atmospheric Studies (CIMAS) of the University of Miami invites applicants for a Research Associate position in Marine Biology and Fisheries.

We seek a research associate to join our group and work as a laboratory technician in the Marine Mammal Molecular Genetics laboratory. The incumbent's primary focus will be collecting and analyzing DNA sequence and microsatellite data from a variety of marine mammal populations and species.

Candidates for this position should have (1) a Master's degree in Molecular Biology, Biology or related field (2) demonstrated experience with molecular biological techniques, particularly DNA extractions and DNA sequencing or microsatellite genotyping methodologies, (3) experience with analyses of population structure and diversity from genetic data, (4) the ability and desire to work as part of a collaborative team, (5) excellent problem solving and critical thinking skills, good organizational skills and the ability to plan daily duties, (6) some experience working with an automated DNA sequencer and with lab management and/or mentoring undergraduates in the lab is desirable but not required.

The position will be located at the NOAA Fisheries Southeast Fisheries Science Center Protected Resources and Biodiversity Division located in Lafayette, LA.

Apply on line at: www.miami.edu/careers. Curriculum Vitae and the contact information for 3 people who can provide letters of recommendation are required.

Cassandra R. Wiggins Director Human Resources and Faculty Affairs Rosenstiel School of Marine and Atmospheric Science 4600 Rickenbacker Causeway Miami, FL 33149 (305) 421-4000

“Wiggins, Cassandra R” <cwiggins@rsmas.miami.edu>

MichiganStateU 3 FishLabTech

Three Fish Lab Manager/Research Technician Positions at Michigan State The Braasch and Ganz Laboratories in the Integrative Biology Department at Michigan State University (MSU IBIO) are looking to fill three immediate openings for lab manager and research lab technician positions as well as a fish facility manager. We are looking for enthusiastic, highly motivated and responsible individuals to join our research teams that use different fish species (zebrafish, medaka, gar) as model organisms to study the genomic basis of vertebrate evolution, development and disease. All three positions are full-time appointments and offer excellent benefits (healthcare, dental, etc.). The initial appointment will be for a 6-month probationary period, after which yearly reappointments will be made for successful and productive candidates. For details and to apply, please go to: <http://careers.msu.edu/> using the job posting numbers for the individual jobs listed below. Qualified individuals are encouraged to apply for all three positions.

1. Lab Manager Position: Fish Evo Devo Geno Lab (PI: Ingo Braasch) The Braasch Lab focuses on genomic and developmental changes that contribute to major transitions during the course of vertebrate evolution and studies evolutionary novelties at the levels of genome structure, gene family evolution, and gene regulation. We combine comparative genomics with analyses of molecular evolution and functional genetic and developmental approaches using a variety of fishes as our model systems (zebrafish, medaka, spotted gar, and others). The ideal candidate will be expected to perform and document a variety of tasks in a timely, accurate and detailed manner, meet with the PI on a weekly basis and provide support to graduate students and postdocs in the lab. Primary duties may include, but are not limited to: perform experiments under supervision of laboratory head; provide support with molecular biology, next-generation sequencing, and developmental biology projects; ordering supplies and equipment; lab supply and equipment maintenance and organization; maintaining and documenting lab cleanliness and safety standards; managing lab databases (such as plasmid database, antibody database); equipment maintenance; supervising and training undergraduate students, staff and volunteers. MSU Careers Job Position Number: 519961. Closing date for applying to this position is

July 31, 2018.

2. Research Technician Position: Zebrafish Neurodevelopment Lab (PI: Julia Ganz) The Ganz Lab focuses on understanding how the development and regeneration of the nervous system is regulated using zebrafish as model organism. The ideal candidate will be expected to perform and document a variety of tasks in a timely, accurate and detailed manner, meet with the PI on a weekly basis and provide support to graduate students and postdocs in the lab. Primary duties may include, but are not limited to: perform experiments under supervision of laboratory head; provide support with molecular biology, developmental biology and imaging projects; ordering supplies and equipment; lab supply and equipment maintenance and organization; managing lab databases (such as plasmid database, antibody database); supervising and training undergraduate students, staff and volunteers; conducting literature reviews on various topics related to developmental biology, neuroscience and genetics. MSU Careers Job Position Number: 520085. Closing date for applying to this position is July 31, 2018.

3. Fish Facility Manager Position: Braasch and Ganz Laboratories The Ganz and Braasch Laboratories are looking to fill an immediate opening for the position of a Research Technician to manage the joint fish facility of the two groups. The successful applicant will be involved in exciting genetic developmental experiments to study nervous system development and vertebrate genome evolution in relation to human health and disease. Primary responsibilities include maintaining a colony of zebrafish and medaka (up to 650 tanks and 10,000 fish total) including feeding and keeping tanks and the fish rooms clean and in good working order, fish health assessment and quarantine procedures, water quality management. Fish system and fish database management, ordering of supplies and materials for the fish facility, training undergraduate assistants and other lab members in fish husbandry, interaction with MSU's Animal Care and Environmental Health offices, and organization of fish import and export from and to stock centers and other institutions. Setup of genetic crosses and providing support for ongoing experiments by tissue sampling, genotyping, immunohistochemistry and imaging. MSU Careers Job Position Number: 518881. Closing date for applications this position is July 24, 2018.

MSU IBIO has a strong research commitment to vertebrate biology with a highly collaborative community of groups working on fish evolution,

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MichiganStateU FishFacilityManager EvoDevo

Fish Facility Manager/Research Technician Position

The Braasch and Ganz Laboratories in the Department of Integrative Biology at Michigan State University (<https://integrativebiology.natsci.msu.edu/>) are looking to fill an immediate opening for the position of a Research Technician to manage the joint fish facility of the two groups.

This position is an opportunity to join an exciting and diverse group of biologists focused on understanding the genomic basis of vertebrate evolution, development and disease using zebrafish, medaka and other fish as model organisms. The successful applicant will be involved in exciting genetic developmental experiments to study vertebrate genome evolution and nervous system development in relation to human health and disease.

Minimum requirements: Knowledge equivalent to that which normally would be acquired by completing a four-year college degree program in biology or related field; up to six months of related and progressively more responsible or expansive work experience with fish husbandry, including care of embryos, juveniles, and adult fish; experience maintaining large numbers of aquaria for freshwater fish; or an equivalent combination of education and experience.

Desired qualifications: Experience handling fish, feeding and food preparation, husbandry related to fish breeding, fish health control, and water quality management; must be absolutely dependable, with excellent organization and communication skills; long-term experience with fish husbandry or aquaculture; knowledge of zebrafish/medaka biology, development, and genetics; ability to take charge and oversee animal husbandry, stock management, and quarantine operations; experience with large-scale, centralized fish husbandry systems; a general familiarity with laboratory safety and campus animal care policy and procedures, experience in training and supervising assistants in fish care and colony maintenance; experience with use of various desktop computer software including database management (Microsoft Office, Dropbox, FileMaker Pro etc.); experience

with molecular methods (e.g. DNA extraction, PCR, gel electrophoresis), genome editing (CRISPR/Cas9), immunohistochemistry, imaging, and microinjections; be willing and able to perform duties on some weekends and holidays on a rotating basis.

Job Summary: Primary responsibilities include maintaining a colony of zebrafish and medaka (up to 650 tanks and 10,000 fish total) including feeding and keeping tanks and the fish rooms clean and in good working order, fish health assessment and quarantine procedures, water quality management. Fish system and fish database management, ordering of supplies and materials for the fish facility, training undergraduate assistants and other lab members in fish husbandry, interaction with the MSU Animal Care and Environmental Health offices, and organization of fish import and export from and to stock centers and other institutions. Setup of genetic crosses and providing support for ongoing experiments by tissue sampling, genotyping, immunohistochemistry and imaging.

This is a full-time appointment, and offers excellent benefits (healthcare, dental, etc.). The initial appointment will be for a 6-month probationary period, after which yearly reappointments will be made for successful and productive candidates.

For questions related to this job posting, please email Ingo Braasch (braasch@msu.edu) and/or Julia Ganz (ganz@msu.edu).

To apply please go to: <http://careers.msu.edu/> - Job position number: 518881

Closing date for applications is July 24, 2018.

Dr. Ingo Braasch Fish Evo Devo Geno Lab Department of Integrative Biology College of Natural Science Michigan State University East Lansing, MI - USA

braasch@msu.edu

“Braasch, Ingo” <braasch@msu.edu>

NHM Los Angeles County Tar Pits

Job Announcement Curator, Rancho La Brea

The Natural History Museum of Los Angeles County (NHMLA) is seeking a Curator for its renowned late Pleistocene Rancho La Brea collections housed at the La Brea Tar Pits & Museum. The successful candidate will conduct collection-based research in evolutionary biology and paleoecology broadly defined to include systematics, biogeography, global change, and/or biodiversity science, particularly as it relates to Rancho La Brea's vast collection of microfossils. The NHMLA, the largest natural history museum in the western United States, has recently finished a dramatic transformation including new ground-breaking exhibitions and a 3 1/2 acre wildlife garden, and it anticipates completing a similar transformation at the La Brea Tar Pits & Museum during the next decade. The successful candidate will play an instrumental role in the development and implementation of this exciting vision.

The La Brea Tar Pits & Museum constitutes one of the world's richest Ice Age fossil sites and has to date yielded an estimated 5 million specimens representing more than 600 species of animals and plants of Late Pleistocene and Holocene age. These collections afford a huge potential for a broad array of research and public programs and are continuously growing through ongoing excavations. The successful candidate will be responsible for: developing a dynamic, productive, and scientifically significant program of research to build a growing scientific and public profile; overseeing the development and curation of important collections; maintaining and strengthening the NHM's presence in key professional and governmental networks; and establishing active internal NHM collaborations, especially with the Education, Exhibits, Marketing and Communications, and Advancement Departments.

The successful candidate will have a Ph.D., a strong track record of published research, and experience in generating funding to support research. Experience in collections management would be an advantage, as would an interest in creative ways of engaging the public in research (e.g., community science). The Curator will be expected to develop an active and publicly engaging research program, develop working relationships with local universities, mentor students and postdoctoral fellows, and maintain research through obtaining competi-

tive grants and/or funding from other external sources. The candidate must have the vision and capability to build a research program that can be integrated within the NHMLA's ongoing efforts to document and interpret biotic responses to environmental change. The Curator will manage the collection's growth and undertake research in ways that increase both its scientific and public appeal.

The ability to communicate effectively and engage with a wide variety of audiences, including the public and the NHMLA's various stakeholders, is paramount. The successful candidate will be expected to oversee staff and supervise the NHMLA's Rancho La Brea programs. The Curator will actively participate in a broad range of museum activities, such as exhibits, education, outreach, training of educators, public communications including (but not limited to) media interactions, and fundraising. More specifically, the successful candidate will be expected to play a key role in the ongoing transformation of the La Brea Tar Pits & Museum. The Curator will also be responsible for building productive ties with local universities, professional associations, educators, and other relevant organizations within the scientific and general community.

The Natural History Museum of Los Angeles County is seeking applicants who have demonstrated experience and commitment working with a diverse community. This is a full-time position with a salary and title commensurate with experience.

The application deadline is September 1st, 2018. The starting date is July 1st, 2019. Applicants should send a cover letter, vision statement, curriculum vitae, and the full contact information of at least three professional references as a single PDF document to thayden@nhm.org, La Brea Tar Pits & Museum Curatorial Search, Research & Collections, Natural History Museum of Los Angeles County, 900 Exposition Blvd., Los Angeles, CA 90007, USA.

The Natural History Museum of Los Angeles County is an Equal Opportunity Employer. Please, No Phone Calls, No Fax.—

Jann Vendetti, Ph.D. Twila Bratcher Endowed Chair in Malacological Research Natural History Museum of Los Angeles County 900 Exposition Blvd. Los Angeles, CA 90007— <http://sacoglossa.myspecies.info/> <http://research.nhm.org/malacology/jannvendetti@yahoo.com>

—
Jann Vendetti <jannvendetti@yahoo.com> Jann Vendetti <jannvendetti@yahoo.com>

NHM UCopenhagen Project And- Bioinformatic Coordinators

Professor Tom Gilbert and colleagues at The Natural History Museum of Denmark/University of Copenhagen are looking to hire 2x four year positions from January 1st 2019, as part of the recently funded EU Innovation Action 'Holofood' that aims to apply an evolutionary hologenomic framework (combined genomic/transcriptomic/microbiomic analyses) to improving salmon and chicken production. The network's partners are based in Denmark, Norway, Germany, Spain, Poland, UK, but both positions are based in Copenhagen.

We are specifically looking for a 4 year project coordinator, and a 4 year bioinformatic coordinator. Ideally both should have a background in genomics and/or microbiomics - as it is critical they understand the scientific content of the topic. However neither position is a research position per se.

The full adverts are in the below links, but a brief summary of each follows.

<https://candidate.hr-manager.net/-ApplicationInit.aspx/?cid=1307&departmentId=18977&ProjectId=147669&MediaId=5&SkipAdvertisement=false> <https://candidate.hr-manager.net/ApplicationInit.aspx/-?cid=1307&departmentId=18977&ProjectId=147670&MediaId=5&SkipAdvertisement=false>

The project coordinator will have 2 principal roles. First to make sure the project moves smoothly, including making sure the partners all fulfil their obligations on time (both research and reporting), e.g. through physical visits, organising formal meetings. Secondly to disseminate our findings, e.g. attending conferences, website/media, visiting other possible stakeholders from academia/industry etc. Key skills are therefore to be well organised, and good at communication, good at following up on things (persistent but in the nicest way), and available to travel at least 3-4 times per year.

The bioinformatic coordinator's role is to make sure the computational infrastructure is all in place. We anticipate much of the networks data will require analysis using nodes in the Elixir supercomputer network. This position will be the key liaison to ensure all project researchers have access/accounts on the network, the relevant computational pipelines are in place, possibly

including modification, development of such pipelines. Furthermore they will be tasked with ensuring the network's researchers can actually use the supercomputers and pipelines. Thus this is a position suited to someone who has some kind of bioinformatics background (ideally relevant to genomics or microbiomics), but who has organisational and personnel skills. The job is not principally a research position, although there would be scope for at least pipeline/informatic tool development.

Enquiries on matters not detailed in the adverts should be sent to Tom Gilbert (tgilbert@snm.ku.dk), Anton Alberdi (antton.alberdi@snm.ku.dk) and/or Morten TÃ©nsberg Limborg (morten.limborg@snm.ku.dk)

Tom Gilbert <tgilbert@snm.ku.dk>

Northern Arizona U Flagstaff Viral Evolution

Position: Research Specialist - Viral Genomics and Evolution The Pathogen and Microbiome Institute (PMI) at Northern Arizona University seeks a Research Technician to perform basic and applied research focused on viral genomics and evolution. The top candidates for this position should be highly motivated and have experience with viral and cell culture, molecular genetic analyses, including RNA/DNA isolation, PCR/qPCR, gel electrophoresis, next-generation sequencing, and the ability to work with viruses under biosafety level 2 (BSL2) conditions. There is a possibility of future work in the PMI BSL3 laboratory that would involve handling viral pathogens such as Rift Valley fever virus, Oropouche virus and Western equine encephalitis virus. Extra emphasis will be given to candidates with command line scripting experience, though this is not a requirement.

Primary duties will include: - Maintaining cell cultures - Passaging viruses - Molecular cloning - PCR/qPCR assay development and validation - Library preparation for next generation sequencing, including Illumina, PacBio and Oxford Nanopore platforms - Working under BSL2 conditions, with the possibility of future work under BSL3 conditions.

- Working both independently and in a team-based environment - Laboratory management and maintenance of shared reagent stocks - Working safely with potentially hazardous materials, such as laboratory chemicals and disease-causing organisms

Opportunities will also be available for command line

scripting and data analysis.

Northern Arizona University is located in Flagstaff, AZ, a beautiful mountain town with a surprisingly vibrant restaurant scene. Located a little over an hour from the Grand Canyon and ~45 min from Sedona, Flagstaff is a hiker's paradise. In fact, the city of Flagstaff operates more than 50 miles of unpaved trails and there are, on average, 266 sunny days per year with which to enjoy them. At 7000 ft in elevation, Flagstaff experiences all four seasons, but the summers are mild and, in the winter, you can be on the slopes within 30 min! For additional information and to apply: https://hr.peoplesoft.nau.edu/psp/ph92prta/EMPLOYEE/HRMS/c/HRS_HRAM.HRS_APP_SCHJOB.GBL?Page=HRS_APP_JBPST&Action=U&FOCUS=Applicant&SiteId=1&JobOpeningId=3610&PostingSeq=1 Contact info: jason.ladner@nau.edu

Jason Thomas Ladner, Ph.D.

Assistant Professor The Pathogen and Microbiome Institute Northern Arizona University 1395 South Knoles Drive, Building 56 PO Box 4073 Flagstaff, AZ 86011-4073 (Tel) : 928-523-0647 <http://scholar.google.com/citations?user=BERy15AAAAAJ&hl=en> <https://github.com/jtladner>
Jason Thomas Ladner <Jason.Ladner@nau.edu>

Okinawa 2 EvolutionaryBiology

Subject: Job: Okinawa.2.EvolutionaryBiology

Open Faculty Positions in Ecology, Evolution, and Environmental Sciences

The Okinawa Institute of Science and Technology Graduate University (<https://www.oist.jp/>) invites applications for at least 2 new faculty positions in ecology, evolution, and related disciplines as part of its planned expansion. Scientists using theoretical or empirical approaches, and working on any system/geographic region will be considered.

Excellent scholarship and creativity will be the main criteria. We are particularly interested in scholars who complement and extend existing strengths at OIST and have the potential to interact broadly with the interdisciplinary OIST community.

Successful candidates are expected to establish an active and independent program of research, to supervise Ph.D. students, to teach in the graduate program, and perform

service tasks. Generous and sustained research resources will be provided, which may be supplemented with external grants. Appointments will be Tenure-Track or Tenured. Starting date is flexible. There are also Open Faculty Positions advertised in Marine Science at OIST, applications via either route will be shared, please apply only once.

Applications should include the following:

1. Cover letter with contact details
2. CV and publication list: including one or two sentences describing up to six significant reports
3. Research Statement: summary of previous research (max. 1 page) and research proposal, (max. 2 pages)
4. Teaching Statement (max. 1 page)
5. Contact Reference (3 referees will be approached only if shortlisted)

Information and instructions regarding application submission: <https://groups.oist.jp/facultypositions> Application Deadline: August 31, 2018 (EDT)

OIST offers a world-class research environment with an international research community and opportunities for interdisciplinary research. Research and teaching are conducted in English. The campus is situated in a beautiful subtropical setting in Okinawa, Japan, providing opportunities to work on a range of interesting ecosystems on the island and more broadly in the Asia-Pacific region.

OIST Graduate University is an equal opportunity educator and employer, and is actively working to increasing the diversity of its faculty, students and staff. OIST provides a family-friendly working environment including the OIST Child Development Center, and has proactive policies and practices to promote a culture of diversity (See the Equality and Diversity brochure, [https://groups.oist.jp/sites/default/files/imce/u100221/Equality and Diversity\(E\)_OIST_Diversity.pdf](https://groups.oist.jp/sites/default/files/imce/u100221/Equality%20and%20Diversity(E)_OIST_Diversity.pdf)) The University strongly encourages applications from women and other underrepresented groups.

Inquiries should be directed to Professor Mary Collins, Provost and Dean of Research, faculty-recruiting@oist.jp

Evan P. Economo Assistant Professor Biodiversity and Biocomplexity Unit Okinawa Institute of Science and Technology Graduate University 1919-1 Tancha Onna-son Okinawa, Japan 904-0495 <http://arilab.unit.oist.jp/> www.antmaps.org "Evan P. Economo" <evaneconomo@gmail.com>

OregonStateU FungalBiology

The Department of Botany and Plant Pathology (bpp.oregonstate.edu) at Oregon State University seeks applicants for a 9-month, full-time (1.0 FTE), tenure-track Assistant Professor in Fungal Biology / Mycology.

The successful candidate will be expected to establish an innovative and competitive research program that pursues scholarly work in the area of fungal biology / mycology. The area of research specialization is open and includes ecology, evolution, genetics and genomics of fungi. The successful candidate will serve as Curator of the OSU Mycological Herbarium, and will teach Mycology in the Botany and Plant Pathology program and one course in Biological Data Sciences, an undergraduate major currently being developed. Required qualifications include a PhD degree in biology, botany, or related fields; research emphasis in fungal biology / mycology; expertise with data science / bioinformatics; and a commitment to promoting and enhancing diversity. Postdoctoral and herbarium experience are strongly preferred.

To review the position description and apply, go to <https://jobs.oregonstate.edu/postings/63492>. We are an Affirmative Action/Equal Opportunity employer, and particularly encourage applications from members of historically underrepresented racial/ethnic groups, women, individuals with disabilities, veterans, LGBTQ community members, and others who demonstrate the ability to help us achieve our vision of a diverse and inclusive community.

To ensure full consideration, applications must be received by September 1, 2018. Questions can be directed to Dr. Aaron Liston, Search Committee Chair Email: aaron.liston@oregonstate.edu

“listona@science.oregonstate.edu”
<listona@science.oregonstate.edu>

PontificiaU Santiago MarineBiodiversity

The Pontificia Universidad Catolica de Chile invites applications to a tenure-track Assistant Professor position, affiliated to the Department of Ecology at the Faculty of Biological Sciences.

DESCRIPTION OF THE DEPARTAMENTO DE ECOLOGÍA AND THE POSITION

The Department of Ecology (DECOL) includes 22 Faculty. It is a diverse unit, with members from Argentina, Australia, France, Mexico, Uruguay and the US. Some DECOL Faculty have joint appointments with the Faculty of Physics, Engineering, and History, Geography & Political Sciences. DECOL members participate in both undergraduate (Bachelors degrees in Biology and Marine Biology) and graduate teaching (PhD in Biological Sciences/major in Ecology). We have identified question-driven transdisciplinary science as one of our research priorities and impacts of Global Change upon biodiversity and sustainability as one of the major cross-cutting themes of the Department. We are searching for creative, productive and collaborative scientists whose work addresses fundamental as well as globally- and regionally-relevant questions in Ecology and/or Evolution, in the general scientific domain of Global Change, sustainability and biodiversity. Within these, we are particularly interested in, but not restricted to, applicants encompassing one of the following areas: ecology and/or evolution of marine organisms, fisheries, and aquatic ecology. The Department of Ecology values the diversity of scientific backgrounds, origins, ethnicity, and gender.

POSITION RESPONSIBILITIES:

Selected applicants are expected to:

- 1) Develop a strong interdisciplinary and independent research program, lead research projects with emphasis in any level of ecological integration (from molecules to ecosystems) and using experimental, correlational and/or theoretical approaches and take advantage from and helps to integrate the rich expertise in the Department of Ecology and School of Biological Sciences UC.
- 2) Generate interactions with researchers within the Department, and potentially, with other Departments of the Faculty of Biological Sciences and/or other Faculties within the University.

3) Teach courses at the undergraduate and graduate levels according to the needs of the Faculty of Biological Sciences.

APPLICATION REQUIREMENTS:

Applicants should have a PhD and Postdoctoral experience. At least one of these should be in Ecology or Evolution. The applicant should show capacity to carry out an independent research program and obtain competitive extramural funding. Teaching experience at undergraduate and/or graduate level is desirable.

SELECTION CRITERIA:

Academic trajectory and quality of the scientific production of the applicant

Academic references

Potential for integration into the academic activities of the Department of Ecology and the Faculty of Biological Sciences.

APPLICATION PROCESS:

TO APPLY, ASK FOR THE APPLICATION FORM
Application Form Ecology Position

-Request at least three letters of recommendation that make reference to the trajectory and academic credentials of the candidate. These should be sent directly to the Academic Secretary of the Faculty of Biological Sciences at the following E- mail: secretaria.academica@bio.puc.cl

Applicants should send all application materials by E-mail to Prof. Ricardo Moreno, Academic Secretary, Faculty of Biological Sciences, Pontificia Universidad Catolica de Chile, E- mail: secretaria.academica@bio.puc.cl

Deadline for Applications: July 30th, 2018 at 17:00.

Original link: <http://biologia.uc.cl/es/concursos-vigentes/1443-call-for-one-tenure-track-faculty-position-at-the-department-of-ecology>

Enrico Rezende <enrico.rezende@gmail.com>

QMUL London Evo Bioinformatics Core

Bioinformatics Core position at QMUL London

School of Biological & Chemical Sciences (SBCS).

Salary 45k-51k Deadline: 10 Aug 2018 Apply using the

link below

The School is recruiting for an exceptional person to help drive forward bioinformatics research. We are looking for a candidate who will relish helping our large team of researchers in evolutionary genomics and related disciplines (<https://bit.ly/2Lgadbm>). The projects will range from helping more biologically-orientated staff identify and access state of the art tools, to supporting computationally-orientated staff access high performance computing infrastructure and distribute their innovations. You would liaise between the SBCS research staff and the central University High Performance Research Computing team who maintain our hardware and provide systems and software support.

Shots of the campus here: <https://bit.ly/2zMGSAO>

A more formal description of the post and details of the application procedure are here: <https://bit.ly/-2NnbSt2> more information: r.a.nichols@qmul.ac.uk or y.wurm@qmul.ac.uk

Richard Nichols <richard.alan.nichols@googlemail.com>

SanDiegoZooGlobal PopulationBiologist

AZA Population Biologist for San Diego Zoo Global

San Diego Zoo Global (SDZG), in collaboration with the Association of Zoos & Aquariums (AZA) and AZA's Population Management Center (PMC), invites applications for two new positions in ex situ population biology. Under the leadership of SDZG, the AZA Population Biologist positions will collaborate with the PMC and AZA Animal Program Leaders to complete activities related to the management of ex situ animal populations. Such activities include utilizing pedigree ('stud-book') databases for demographic and genetics analyses, developing management recommendations for cooperative breeding programs (Species Survival Plans(r)), and preparing and disseminating reports. The AZA Population Biologists also will provide training opportunities related to ex situ population management and attend relevant conferences. On a limited basis and as opportunities arise, the AZA Population Biologists will participate in research and software development related to ex situ population management.

Qualified applicants should have training in genetics, demography, and/or small population biology. A Master's degree in science or equivalent, specialized training

is required. Experience working in a zoo or aquarium, or with managing wild animal populations, is desirable. Applicants should have the ability to collaborate well and communicate scientific materials to non-scientists. Opportunities exist for the positions to be based at either the San Diego Zoo (San Diego, CA) or San Diego Zoo Safari Park (Escondido, CA). For more job information and to apply go to: www.sandiegozoo.org/jobs by Sunday, July 15, 2018 Pacific Time. AA/EOE.

Jamie A. Ivy, Ph.D. Senior Population Biologist San Diego Zoo Global p. 619-557-3905 (Zoo) p. 760-738-5056 (Safari Park) p. 760-747-8702 x5709 (Institute) P.O. Box 120551 San Diego, CA 92112-0551

jivy@sandiegozoo.org

SGN Frankfurt LabManager Biodiversity

Job offer ref. #12-18014

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), <https://tbg.senckenberg.de>, 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

Lab and project managing of NextGen sequencing projects (100%)

Your tasks:

- Consulting PIs in DNA and library preparation for de novo genome sequencing of a wide range of organisms and other applications, e.g. metabarcoding or high throughput amplicon sequencing
- Developing strategies for high quality DNA isolation from difficult sources
- Organizing and documenting sample preparation and genome sequencing with external providers
- Facilitate communication with research groups, service providers

and database managers

Your profile:

- PhD degree preferably with NextGen sequencing and library preparation experience
- Experience with NextGen sequencing platforms and library preparation for long read technology
- Managing NextGen sequencing projects
- Experience and solid understanding of DNA and NextGen sequencing technology
- Highly service orientated with excellent communication skills

What is awaiting you?

- An interesting task in a dynamic team of researchers in an internationally research institution
- The opportunity to gain experience in the above-mentioned research field
- The occasion to build a network with scientists in interdisciplinary fields
- Flexible working hours - annual special payment - company pension scheme - Senckenberg ID card for free entry in all museums in Frankfurt, the botanical garden, Palmengarten and the zoo - jobticket - 30 days paid leave (holiday)

Salary and benefits are according to a full time public service position in Germany (TV-E 13). The contract should start as soon as possible and will initially be limited for two years. The Senckenberg Gesellschaft für Naturforschung support equal opportunity of men and women and therefore strongly invites women to apply. Equally qualified handicapped applicants will be given preference. The place of employment is in Frankfurt am Main, Germany. The employer is the Senckenberg Gesellschaft für Naturforschung.

Please send your application, mentioning the reference of this job offer (ref. #12-18014) before August 2nd, 2018 by e-mail (attachment in a single pdf document) and including a cover letter detailing research interests and experience, a detailed CV and a copy of your certification to:

Senckenberg Gesellschaft für Naturforschung Senckenberganlage 25 60325 Frankfurt am Main

E-Mail: recruiting@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 17-19, 60325 Frankfurt am Main (1. OG)

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

Leiterin Personal & Soziales - 1458 Loke, Uta

Stellv. Leiterin Gruppe Personal & Soziales - 1319 Elsen,

Carina

Mitarbeiter/in Personalbeschaffung (Recruiting) - 1313 di Biase, Maria - 1313 Helm, Jessica - 1478 Gajcevic, Isabel

Fax: 0049 (0)69 / 7542-1467 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)

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**UCalifornia LosAngeles
AdjunctEvolutionaryBiol**

**ADJUNCT ASSISTANT PROFESSOR 2018-2019 IN
ECOLOGY AND EVOLUTIONARY BIOLOGY**

Position: The Department of Ecology and Evolutionary Biology at UCLA seeks a full-time Adjunct Assistant Professor, with a possible one year renewable appointment.

Duties: Teach lecture, laboratory, and/or field courses in conservation, plant biology, and evolution, broadly defined. Plan and coordinate discussion activities for multiple sections of courses; supervise course teaching assistants; manage the acquisition and maintenance of course materials; supervise student projects; and maintain office hours. Collaborate on research with existing faculty labs in the following areas: amphibian and/or reptile conservation biology, disease ecology and evolution, mammalian evolutionary developmental biology, paleobiology, population genetics, and/or genomics, and plant evolutionary and/or conservation genomics.

Qualifications: Ph.D. degree in the biological sciences or related field; experience in undergraduate teaching at the university level; experience with laboratory instruction in the biological sciences. Candidates will be given preference if their qualifications fit within the above defined fields. Level of appointment and salary commensurate with qualifications, experience and duties.

Application: Applicants should submit their materials

on-line to <https://recruit.apo.ucla.edu/apply/JPF03498> including curriculum vitae, cover letter which should include the 1) topics most comfortable/experienced teaching and if relevant, mention specific courses from the UCLA general catalog and 2) research fit with existing faculty labs in the Department of Ecology and Evolutionary Biology at UCLA in the above detailed areas, written statement of teaching interests and background, written statement of research interests and background, 3) written statement addressing past and/or potential contributions to diversity through research, teaching, and/or service, and 4) the names, addresses, and telephone numbers of three references. Questions should be directed to Chair, Dr. Karen Sears: ksears@ucla.edu

The University of California is an Equal Opportunity/Affirmative Action Employer All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, sex orientation, gender identity, disability, age or protected veteran status. For the complete University of California nondiscrimination and affirmative action policy see: UC Nondiscrimination & Affirmative Action Policy (<http://policy.ucop.edu/doc/4000376/NondiscrimAffirmAct>)

Karen Sears <ksears@ucla.edu>

**UEastAnglia PDF and Tech
AgeingLifeHistoryEvolution**

Come work with us at BIO UEA to find out why do organisms age!

Two BBSRC-funded jobs (postdoc and research technician) are available in my lab to work on the project:

'The cost of longevity: transgenerational consequences of parental lifespan extension'

We are seeking highly motivated and enthusiastic researchers for BBSRC-funded project on the evolution of ageing in the Maklakov lab in the School of Biological Sciences at University of East Anglia.

This project is in collaboration with Prof. Tracey Chapman (UEA), Dr. Simone Immler (UEA) and Dr. David Thybert (Earlham Institute).

Understanding ageing is one of the big unsolved problems in biology. Recent progress in the study of ageing has challenged the current paradigm that ageing results from energy trade-offs between survival and reproduction. In this project, we will work at the interface of

evolutionary biology and bio-gerontology towards the goal of explaining the mismatch between this paradigm and the empirical findings. We will focus on i) uncovering potentially missing parts of the classic survival/reproduction trade-off; and ii) testing an emerging new theory of ageing that aims to replace the classic view. In practical terms, we will use the whole range of interventions that increase longevity and postpone senescence - e.g. diet, pharmaceuticals that mimic dietary effects, mutations and RNAi knockdowns of genes in nutrient-sensing signalling networks in *Caenorhabditis* nematodes - to link molecular signalling pathways to physiological processes to transgenerational effects on Darwinian fitness. The ultimate goal here is to advance our understanding of the ultimate causes of ageing while making the “black box” of the mechanisms underpinning life-history evolution more transparent.

The successful candidates will conduct experimental work using *Caenorhabditis* nematodes as the model organism, help supervising and training new lab members and actively participate in the research life of the lab and the School, such as seminars and journal clubs. Funding is available for further training and professional development by attending national and international conferences and workshops.

Don't hesitate to contact me (A.Maklakov@uea.ac.uk) to discuss the details of this project.

Research Environment:

The successful candidate will become a part of the growing lab that currently includes two postdocs, a laboratory manager and a research technician. The lab is part of the Organisms and the Environment theme at the School of Biological Sciences at UEA. There several world-class labs with similar interests at the theme, including Prof. Tracey Chapman (ageing, diet, sexual conflict, *Drosophila*), Prof. Andrew Bourke (social evolution and ageing in social insects), Prof. David Richardson (telomere biology, ageing in birds), Prof. Matt Gage (sexual selection, sperm competition), Dr. Simone Immler (germline/soma interactions, zebrafish and mathematical modelling). Furthermore, there are three world-leading research institutes (John Innes Centre, Earlham Institute and Quadram Institute) that together with UEA and Norfolk and Norwich University Hospital comprise Norwich Research Park, and provide great opportunities for collaboration. Finally, PI has strong ties with Uppsala University in Sweden and there are opportunities for doing projects together with an established nematode lab there. In our lab, we encourage dynamic collaborative atmosphere and promote joint projects and discussion clubs both within and outside the immediate research group.

1. 3-year Postdoc (Senior Research Associate) 32,548 - 38,833 per annum

This full time post is for a fixed term of 36 months and commences 1 October 2018. Apply here: <https://www.jobs.ac.uk/job/BLF643/senior-research-associate/> Closing date: 14 August 2018.

2. 2 years and 9 months Research Technician 21,585 to 24,983 per annum

This full time post is for a fixed term of 33 months and commences 1 October 2018. Apply here: <https://www.jobs.ac.uk/job/BLJ475/laboratory-technician/> Closing date: 14 August 2018. –

Dr. Alexei A. Maklakov Organisms and the Environment Theme Leader Reader and ERC Fellow School of Biological Sciences University of East Anglia Norwich Research Park Norwich, NR4 7TJ UK

Tel: +44 1603 591150

Our Lab page: <http://alexeimaklakov.com>
My UEA BIO page: <https://www.uea.ac.uk/-biological-sciences/people/profile/a-maklakov> Google Scholar: <http://scholar.google.com/citations?user=8aCng7oAAAAJ&hl=en&oi=ao> Research Gate:

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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>

UExeter EcolEvolutionConservation

Two Lecturer/Senior Lecturer positions (Education and Research) in Biosciences (Ecology/Evolution/Conservation) at the University of Exeter, College of Life and Environmental Sciences (Penryn Campus), United Kingdom

We are recruiting for two full time posts available from 1 October 2018 on a permanent basis.

The posts of Lecturer/Senior Lecturer in Biosciences will contribute to extending the research profile of Conservation, Ecology and Evolutionary Biology at the University of Exeter's Penryn Campus. We are particularly interested in building on our strengths in Marine Biology, Wildlife Disease and Evolutionary Ecology.

The Centre for Ecology and Conservation is a thriving department of Bioscientists at the Penryn (Corn-

wall) Campus of the University of Exeter, UK. <https://biosciences.exeter.ac.uk/cec/research/> The post will include Research and Education duties, and Management suited to the level of the candidate and pay grade.

For a Lecturer post you will have: - A PhD or equivalent in Biosciences and have an independent, internationally-recognised research programme in a relevant active field of research; - A strong record in attracting funding for research, or demonstrate potential to attract such funding; - An active approach to inter-disciplinary and multi-disciplinary research; - Enthusiasm for delivering high quality undergraduate programmes; - Involvement in projects which develop impact.

We can offer: - Freedom (and the support) to pursue your intellectual interests and to work creatively across disciplines to produce internationally exciting research; - Support teams that understand the University wide research and teaching goals and partner with our academics accordingly; - An Innovation, Impact and Business directorate that works closely with our academics providing specialist support for external engagement and development; - Our Exeter Academic initiative supporting high performing academics to achieve their potential and develop their career; - A beautiful campus set in the heart of stunning Cornwall.

Apply online: https://jobs.exeter.ac.uk/hrpr_webrecruitment/wrd/run/-ETREC107GF.open?VACANCY_ID=-656082MEOQ&WVID=3817591jNg&LANG=USA

For an informal and confidential discussion about the post please contact Professor Dave Hodgson (tel: +44 (0)1326 371829, email: d.j.hodgson@exeter.ac.uk).

We welcome applications from candidates interested in working part-time hours or job-sharing arrangements.

The University of Exeter is an equal opportunity employer. We are officially recognised as a Disability Confident employer and an Athena Swan accredited institution. Whilst all applicants will be judged on merit alone, we particularly welcome applications from groups currently underrepresented in the workforce.

"E.Postma@exeter.ac.uk" <E.Postma@exeter.ac.uk>

UExeter HostParasiteEvolution

Permanent positions (*2) at Lecturer/Senior Lecturer level (equivalent to Assoc Prof/Prof) in any aspect of host-parasite evolution and ecology at the University of

Exeter's Cornwall campus.

<http://biosciences.exeter.ac.uk/cec/research/>
https://jobs.exeter.ac.uk/hrpr_webrecruitment/wrd/run/ETREC107GF.open?VACANCY_ID=-656082MEOQ&WVID=3817591jNg&LANG=USA
 ### Job description ###

Lecturer/Senior Lecturer (Education & Research) in Biosciences Job reference P42880 Date posted 20/07/2018 Application closing date 29/08/2018 Location Cornwall Salary Lecturer from 34,520 up to 42,418 on Grade F or Senior Lecturer from 42,418 up to 46,336 on Grade G. Appointment will be made to appropriate level depending on skills and experience. Package Generous holiday allowances, flexible working, pension scheme and relocation package (if applicable). Job category/type Academic Job description College of Life and Environmental Sciences (Penryn Campus)

We are looking to recruit a Lecturer or Senior Lecturer to this full time post which is available from 1 October 2018 on a permanent basis.

The role The posts of Lecturer/Senior Lecturer in Biosciences will contribute to extending the research profile of Conservation, Ecology and Evolutionary Biology at the University of Exeter's Penryn Campus. We are particularly interested in building on our strengths in Marine Biology, Wildlife Disease and Evolutionary Ecology.

The Centre for Ecology and Conservation is a thriving department of Bioscientists at the Penryn (Cornwall) Campus of the University of Exeter.

The post will include Research and Education duties, and Management suited to the level of the candidate and pay grade.

About you

- For a Lecturer post you will have: A PhD or equivalent in Biosciences and have an independent, internationally-recognised research programme in a relevant active field of research; - A strong record in attracting funding for research, or demonstrate potential to attract such funding; - An active approach to inter-disciplinary and multi-disciplinary research; - Enthusiasm for delivering high quality undergraduate programmes; - Involvement in projects which develop impact.

What we can offer you

- Freedom (and the support) to pursue your intellectual interests and to work creatively across disciplines to produce internationally exciting research; - Support teams that understand the University wide research and teaching goals and partner with our academics accordingly;

- An Innovation, Impact and Business directorate that works closely with our academics providing specialist support for external engagement and development; - Our Exeter Academic initiative supporting high performing academics to achieve their potential and develop their career; - A beautiful campus set in the heart of stunning Cornwall.

To view the Job Description and Person Specification document please click [here](#).

For an informal and confidential discussion about the post please contact Professor Dave Hodgson (tel: 01326 371829, email: d.j.hodgson@exeter.ac.uk).

The University of Exeter is an equal opportunity employer. We are officially recognised as a Disability Confident employer, an Athena Swan accredited institution and a Stonewall Diversity Champion. Whilst all applicants will be judged on merit alone, we particularly welcome applications from groups currently underrepresented in the workforce.

Ben Longdon <B.Longdon2@exeter.ac.uk>

UGottingen ForestBiodiversity

<http://www.uni-goettingen.de/de/305402.html?cid=-13690> The Department of Forest Genetics and Forest Tree Breeding at the der Georg-August-University of Gottingen is offering a position starting as soon as possible for a Research Scientist (Postdoc) - Salary is E13 TV-L (100%) The position is initially limited until December 31, 2019. The successful candidate will work in the German Science foundation (DFG) funded project: "The use of barcoding sequences for the construction of community phylogenies to estimate phylogenetic and functional diversity and their linkages" within the Collaborative Research Center 990 "Ecological and Socioeconomic Functions of Tropical Lowland Rainforest Transformation Systems (Sumatra, Indonesia)". Your Tasks - Establishment of community phylogenies in tropical lowland rainforests and in managed systems in Sumatra based on barcoding nucleotide sequences - Analysis of the relationship between functional and phylogenetic diversity across land use systems - Co-supervision of technical staff involved in this project - Publication of results in peer-reviewed journals - Assistance with the organization and coordination of the project Your Profile - PhD in biology, agricultural sciences, forest

sciences or related disciplines with a master/Diplom or equal highly-qualified University degree in this fields. The candidate should have completed his/her PhD examination. - High motivation and enthusiasm - Sound knowledge and understanding of molecular, phylogenetic and ecological methods - Experience and profound knowledge in statistics and data analysis - Excellent English language skills - Very good publication record (dependent on the career stage) - Very good written and oral communication skills - Ability to work in a team The University of Gottingen is an equal opportunities employer and places particular emphasis on fostering career opportunities for women. Qualified women are therefore strongly encouraged to apply in fields in which they are underrepresented. The university has committed itself to being a family-friendly institution and supports their employees in balancing work and family life. The mission of the University is to employ a greater number of severely disabled persons. Applications from severely disabled persons with equivalent qualifications will be given preference. Applications should be sent to: Georg-August-Universität Gottingen, Abt. für Forstgenetik und Forstpflanzenzucht, Busgenweg 2, 37077 Gottingen, forstgen@gwdg.de. The closing date for applications is July 27, 2018. Contact: Prof. Dr. Oliver Gailing, Phone: 0551 39 33536, E-Mail: ogailin@gwdg.de Please note: With submission of your application, you accept the processing of your applicant data in terms of data-protection law. Further information on the legal basis and data usage is provided in the Information General Data Protection Regulation (GDPR)

Prof. Dr. Oliver Gailing

Forstgenetik und Forstpflanzenzucht

Georg-August Universität Gottingen

Busgenweg 2

37077 Gottingen

Tel.: +49 0551-3933536

Email: ogailin@gwdg.de

"Gailing, Oliver" <ogailin@gwdg.de>

UHelsinki EvolutionaryEcology

The Faculty of Biological and Environmental Sciences (<https://www.helsinki.fi/en/faculty-of-biological-and-environmental-sciences>) at the University of

Helsinki invites applications for the position of

ASSISTANT PROFESSOR / ASSOCIATE PROFESSOR / PROFESSOR IN ECOLOGY (INCLUDING EVOLUTIONARY ECOLOGY)

The successful applicant may be appointed to a permanent full professorship or a fixed-term associate / assistant professorship (tenure track) depending on their qualifications and career stage.

The professorship is based in the Organismal and Evolutionary Biology Research Programme (<https://www.helsinki.fi/en/faculty-of-biological-and-environmental-sciences/research/organismal-and-evolutionary-biology>) which is one of the three Research Programmes in the Faculty. The areas of strength of the Programme include population, molecular and evolutionary ecology, to the advancement of which the professor is expected to contribute. Demonstrated excellence and scientific leadership in the field of ecology is a requirement.

The other professorships of the Research Programme are in the following fields: genomics, bioinformatics, statistics, plant physiology and molecular biology, plant developmental biology, plant systematics, mathematical ecology, behavioural ecology, and evolutionary biology. The research and teaching activities at the Viikki Campus are supported by state-of-the-art infrastructures such as many core facilities for DNA sequencing and genomics, proteomics, metabolomics, and light- and electron microscopy including confocal and cryo-electron microscopes. Researchers are offered ample opportunities for field work as the Faculty has three field stations: one on the Baltic coast, one in Southern Finland and one in Lapland. Furthermore, the campus is situated on the edge of Vanhankaupunginlahti Bay, a RAMSAR Wetland of International Importance, which provides further opportunities for teaching and research.

The duties of the ecology assistant professor / associate professor / professor will include scientific research and research-based teaching, and participation in international collaboration and community engagement in the field. In addition to teaching lectures and courses, the professor will supervise undergraduate and postgraduate students and participate in the development of Bachelor's and Master's programmes.

An appointee to a full professorship shall hold a doctoral degree and have top-level scholarly qualifications and experience in the supervision of scientific research, along with the ability to provide top-level research-based teaching as well as to supervise theses and dissertations. In addition, the appointee shall present documentation of international cooperation in the field of research that

he or she represents.

An appointee to an assistant / associate professorship in the tenure track system (<https://www.helsinki.fi/en/university/working-at-the-university/tenure-track-at-the-university-of-helsinki>) shall hold a doctoral degree, have the ability to conduct independent scholarly work and have the teaching skills necessary for the position. In addition, applicants for assistant / associate professorships shall demonstrate their capability and motivation for an academic career through publications and other means.

When considering the applicant's qualifications, attention will be given to scientific publications, teaching experience and pedagogical training as well as the applicant's participation in doctoral education. Furthermore, account shall also be taken of the applicant's activity in the scientific community, success in obtaining external research funding, international research experience and positions in Finnish and international organizations.

There is no requirement to be proficient in Finnish for foreign citizens, non-native Finnish citizens or citizens who have not been educated in Finnish or Swedish. To successfully attend to the duties of the position, the appointee must have good skills in English.

The professor's salary will be based on levels 8&10 and the assistant / associate professor's on level 7 of the job requirement scheme for teaching and research personnel in the salary system of Finnish universities. In addition, the appointee will be paid a salary component based on personal work performance. The gross monthly salary will be approximately 4500-8000 €, depending on the appointee's career stage and scholarly qualifications.

Applicants are requested to enclose with their applications the following documents in English: 1) CV 2) A report (max. 3

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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>

ULincoln 2 TeachingEvolution

Two full-time lectureships are available in Ecology and Conservation biology to support the delivery of teaching across our range of existing undergraduate modules

within our BSc Biology, BSc Ecology and Conservation and BSc Zoology programmes. For candidate one, we are looking for a candidate with research interests and teaching experience in ecology, with a preference for broad scale and ecosystem level approaches. We would particularly welcome applicants working at the agri-environment interface, community ecology or biogeography in its broadest sense. For candidate 2, we are seeing a candidate with a strong academic profile related to ecology, biodiversity conservation or environmental sustainability which complements our existing expertise. Candidates with experience in teaching and/or using a range of field skills, GIS and remote sensing or conservation management would be particularly welcome.

We particularly encourage applications from candidates who will complement our existing strengths within the Evolution and Ecology research group (www.lincoln.ac.uk/home/lifesciences/research/evolutionandecology). If you would like to know more about this opportunity please email Professor Stuart Humphries, Professor of Evolutionary Biophysics and Head of the Ecology and Evolution Research Group at shumphries@lincoln.ac.uk or Dr Carl Soulsbury, Programme Leader for BSc Ecology and Conservation at csoulsbury@lincoln.ac.uk for more information or to arrange an informal conversation about the position.

< <http://www.lincoln.ac.uk/opendays> >

The University of Lincoln, located in the heart of the city of Lincoln, has established an international reputation based on high student satisfaction, excellent graduate employment and world-class research.

The information in this e-mail and any attachments may be confidential. If you have received this email in error please notify the sender immediately and remove it from your system. Do not disclose the contents to another person or take copies.

Email is not secure and may contain viruses. The University of Lincoln makes every effort to ensure email is sent without viruses, but cannot guarantee this and recommends recipients take appropriate precautions.

The University may monitor email traffic data and content in accordance with its policies and English law. Further information can be found at: <http://www.lincoln.ac.uk/legal> . Carl Soulsbury <csoulsbury@lincoln.ac.uk>

UManitoba EvolutionaryBiol

The Department of Biological Sciences at the University of Manitoba is seeking to hire an Indigenous Scholar at the Assistant or Associate Professor level. The search is open to any specialization within the Biological Sciences, including evolutionary biology. More information can be found in the advert below or from this link. Please note that while the current deadline as posted in UMCareers is Aug. 31st, this will be extended to Sept. 15th.

https://viprecprod.ad.umanitoba.ca/-DEFAULT.ASPX?REQ_ID=3D01959 Job : Indigenous Scholar in Plant or Animal Biology (23366) < https://viprecprod.ad.umanitoba.ca/default.aspx?REQ_ID=-01959&Language=1 > Location : Biological Sciences Full Time : Yes Permanent : Yes

Job Description :

Indigenous Scholar Faculty of Science University of Manitoba Winnipeg, Manitoba, Canada Indigenous Scholar in Plant or Animal Biology, Department of Biological Sciences, Position #23366 The Faculty of Sciences at the University of Manitoba invites applications from Indigenous (e.g., First Nations, Métis, Inuit) Scholars for a full-time tenured or tenure-track positions at the rank of Assistant or Associate Professor, commencing January 1, 2019, or on a date mutually agreed upon. Candidates who are either of Canadian Indigenous background or are Indigenous in their respective countries/territories and whose areas of specialization complement the University's goals on Indigenous achievement are invited to apply. The specific details of this position are provided below. The University of Manitoba campuses are located on original lands of Anishinaabeg, Cree, Oji-Cree, Dakota, and Dene peoples, and on the homeland of the Me'tis Nation. Creating Pathways to Indigenous Achievement is a key priority for the University, as identified in its 2015-2020 strategic plan, Taking Our Place. Home to a vibrant Indigenous community, including 2,400 First Nations, Métis and Inuit students, the U of M has one of the largest Indigenous student populations in the country. Honoured to be chosen as host of the National Centre for Truth and Reconciliation, the U of M is dedicated to advancing Indigenous research and scholarship, and to becoming a centre of excellence for this work. The University is located in Winnipeg, the largest city in the province of Manitoba. The city has a rich cultural environment and the region provides

exciting opportunities for outdoor exploration and recreation in all seasons. Learn more about Winnipeg at . Manitoba's Indigenous population is young and rapidly growing. Statistics Canada census data suggest that Indigenous peoples will comprise nearly 19 per cent of Manitoba's population by 2026. The University of Manitoba's role in reconciliation; its connections with Indigenous students, partners and communities; and its commitment to Indigenous achievement are central to the kind of future the University seeks to create. The University of Manitoba is strongly committed to equity and diversity within its community and especially welcomes applications from women, members of racialized communities, Indigenous persons, persons with disabilities, persons of all sexual orientations and genders, and others who may contribute to the further diversification of ideas. All qualified candidates are encouraged to apply; however, Indigenous Canadian citizens and permanent residents will be given priority. Applicants must, at application, declare that he/she/they self-identifies an Indigenous (First Nations, Metis or Inuit) Canadian.

Responsibilities :

The Department seeks an emerging scholar with a commitment to leadership in Indigenous student mentorship and excellence in teaching and research. Outstanding candidates in any area of Plant or Animal Biology will be considered. The successful candidate will have a Ph.D. and preferably post-doctoral experience or other distinguishing attributes, such as relevant research experience in Plant or Animal Biology, and have demonstrated experience in, and commitment to, leadership and mentorship related to Indigenous student achievement and engagement. Duties will include undergraduate teaching, graduate teaching and supervision, research, including the establishment of an externally funded research program, and service-related activities.

Qualifications :

The Department currently has 31 full time tenured and tenure track faculty members and seven Instructors, and offers a full range of both undergraduate and graduate programs in a wide variety of biological sciences. The Department has well-established and equipped research facilities including infrastructure for imaging using confocal and laser-capture microdissection, GC-MS, next-generation sequencing, high-performance computing, culturing, and analytical biochemistry,

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UMichigan BirdMuseumCollectionsManager

The Department of Ecology and Evolutionary Biology (EEB) is seeking a Collection Manager for the Museum of Zoology (UMMZ) Bird Division (lsa.umich.edu/ummz/birds.html), located at the new state of the art Research Museums Center (RMC) in Ann Arbor, Michigan. The UMMZ develops and maintains zoological collections explicitly for use in research and education, benefiting science, society, and the university at large. The scientific role of the UMMZ is to train students and engage in systematic biology and biodiversity studies. These broad and overlapping fields entail the discovery and study of the diversity of organisms, their evolutionary relationships, and the processes that originate biodiversity. EEB has an outstanding, diverse and collaborative group of researchers in evolutionary biology, biodiversity science, and ornithology.

The UMMZ Bird Collection is worldwide in its geographic scope and one of the largest collections of its type, including more than 215,000 specimens representing 98% of avian families. The collection is particularly strong in holdings from North America, the Neotropics, central and southeast Asia, and Africa. Although the collection is primarily bird skins, it also contains nearly 25,000 skeleton specimens, making it one of the largest and most diverse skeletal collections in the world. The Bird Division also houses the expansive library of the Wilson Ornithology Society.

We seek candidates with a strong commitment to a vision of the Bird Collection as a key resource for research and education within the University and to the ornithological community nationally and internationally. The position offers exciting opportunities for mentoring and career development, including research within the context of the Bird Division curatorial priorities.

The full job description with detailed responsibilities, qualifications and instructions on how to apply is found here:

http://careers.umich.edu/job_detail/157842/-research_museum_collection_manager_-_bird_division

(or search for Job ID 157842 on the University of Michigan careers website)

We will begin reviewing applications on August 6th, 2018.

Ben Winger, PhD Assistant Curator of Birds, Museum of Zoology Assistant Professor, Ecology & Evolutionary Biology Assistant Professor, Program in the Environment University of Michigan Ann Arbor, MI 48109 USA phone: (734) 763-3379 email: wingerb@umich.edu web: www.wingerlab.org; <https://lsa.umich.edu/ummz> “wingerb@umich.edu” <wingerb@umich.edu>

UMinnesotaHerbarium CollectionManager

Dear colleagues,

The Bell Museum is seeking a Collection Manager for the University of Minnesota Herbarium (<https://www.bellmuseum.umn.edu/>), located in the Biological Sciences Center on the St. Paul campus of the University of Minnesota, Twin Cities.

For over 140 years, the Bell Museum has collected, preserved and interpreted the natural history of Minnesota as the state’s official natural history museum. Our spectacular new 74 million dollar facility has just opened on the St. Paul campus for exhibits, educational programming and public engagement including a state-of-the-art digital planetarium. The museum is committed to digitization of collections through the Minnesota Biodiversity Atlas (<http://bellatlas.umn.edu/>) and Mapping Change, a citizen science opportunity (<https://z.umn.edu/mapping-change>). At present, four of our eight faculty curators are associated with the herbarium.

As part of the extensive scientific collections of the Bell Museum, the University of Minnesota Herbarium (MIN) houses close to a million specimens (<https://www.bellmuseum.umn.edu/plants/>). The record of historic flora of the Upper Midwest (including the Dakotas, Wisconsin, and southwestern Ontario) is among the best in the United States. Other significant historical collections include circumboreal and arctic flora, historic Pacific Island flora, early Amazonian flora, and early California plants. We also have extensive collections of lichenized and non-lichenized fungi. We continue to grow with new specimens, particularly from the Minnesota Biological Survey (Minnesota Department of Natural Resources) and a tropical rain forest research program in Papua New Guinea.

This position is responsible for the management, preservation, accessibility, and outreach activities of MIN. Job duties include:

1. Specimen acquisition, research and classroom loans, exchanges, inventory and record keeping, and collection conservation (pest control, specimen repair, etc.).
2. Support specimen databases and digitization projects.
3. Support the use of the collection in specimen-based research by faculty, staff and students.
4. Arrange appointments for visitors; providing orientation to new visitors, assisting visitors, and developing and implementing visitor and usage policies.
5. Train and lead a team of students and volunteers working with databases, specimen curation and scientific outreach projects.
6. Provide taxonomic expertise through plant identification services and respond to information requests from the University, government agencies, and the public.
7. Promote the visibility of the herbarium collection through public engagement activities such as tours, presentations, and assist with relevant Bell Museum programming.

Applicants interested in research and teaching will have the opportunity to discuss options during the interview and hiring process.

Essential Qualifications: 1. M.Sc. Degree in botany, plant systematics, plant ecology, or related fields. 2. Knowledge of herbarium practices and procedures. 3. Experience with specimen digitization and databases. Ability to learn new programs and platforms. 4. High level of organization and attention to detail. 5. Excellent verbal and written communication skills. 6. Ability to train and lead a team of volunteers and students.

Preferred Qualifications: 1. Ph.D. Degree in botany, plant systematics, plant ecology, or related fields. 2. Herbarium curatorial experience. 3. Knowledge of plant, algal, lichen, or fungal taxonomy and nomenclature. 4. Familiarity with upper midwest flora. 5. Previous experience of public outreach activities.

For additional information and to apply for this position: go to <https://www.myu.umn.edu/employment> and search with the job ID “324832”. You will have the opportunity to complete an online application for the position and attach a cover letter and a CV. Additional documents may be attached after application by accessing your “My Activities” page and uploading documents there. Please submit a cover letter, CV, a 2-page personal statement, and contact information for three references. Application review will begin September 1, 2018 with an expected starting date of January 2019.

Ya Yang

Assistant Professor, Dept. of Plant and Microbial Biology University of Minnesota-Twin Cities 714 Biological Sciences Center 1445 Gortner Avenue St. Paul, MN 55108-1095 (612) 625-6292 <http://www.yangya.org/> Cu-

rator, University of Minnesota Herbarium (MIN) Bell Museum University of Minnesota bellmuseum.umn.edu
 “yangya@umn.edu” <yangya@umn.edu>

UMontana BiologicalCollectionsManager

Collections Manager 'V University of Montana

The University of Montana invites applications for a full-time collections manager / curator for the *University of Montana Zoology Museum* (UMZM). The UMZM is a historically important regional collection of ~22,000 vertebrate specimens housed in newly constructed space. The museum holdings are fully inventoried and electronically accessible via Arctos. We seek highly motivated candidates interested in playing an active role in guiding future growth of the museum holdings and expanding scientific and public use of the UMZM. Please contact UMZM faculty director Jeffrey Good (jeffrey.good@umontana.edu) with any questions. A full description of the position and instructions on how to apply can be found at <http://bit.ly/2027umjobs> Jeffrey M. Good, Ph.D.

Associate Professor Division of Biological Sciences The University of Montana 32 Campus Drive, HS104 Missoula MT 59812 Phone: 406-243-5771 Fax: 406-243-4184 Website: <http://www.thegoodlab.org/> Jeffrey Good <jeffrey.good@mso.umt.edu>

UNottingham AnimalEvolution

Assistant Professor in Animal Ecology - a full-time permanent Teaching & Learning role in the School of Life Sciences, University of Nottingham, UK

Applications are invited to the above role to provide high quality teaching and to contribute to the planning, design and development of objectives and materials for innovative degree programmes in the area of Animal Ecology.

The post holder will make a significant contribution to their academic unit via leadership and/or administrative management and/or co-ordination of specific initiatives.

Candidates must hold A PhD (or equivalent) in a relevant subject area and have a proven track record of teaching ecology. We seek to appoint a highly motivated individual with excellent oral and written communication skills, including the ability to communicate with clarity on complex and conceptual ideas to those with limited knowledge and understanding as well as to peers, using high level skills and a range of media.

The successful candidate will have awareness of QAA 'best practice' in student learning environments as well as proven experience of supervising undergraduate project work at University level.

This is a full-time permanent role. Job share arrangements may be considered.

The School of Life Sciences holds an Athena Silver SWAN Award, in recognition of our commitment to supporting and advancing women's careers in the life sciences (STEMM). You can read more about this initiative at <http://www.nottingham.ac.uk/life-sciences/documents/athena-swan-silver-award.pdf> Informal enquiries may be addressed to Dr Tom Reader: tom.reader@nottingham.ac.uk

Please note that applications sent directly to this Email address will not be accepted.

APPLY ONLINE HERE: <https://www.nottingham.ac.uk/jobs/currentvacancies/-ref/MED212518> The University of Nottingham is an equal opportunities employer and welcomes applications from all sections of the community.

Dr Tom Reader Lecturer in Ecology School of Life Sciences University of Nottingham Nottingham NG7 2RD 0115 9513213 tom.reader@nottingham.ac.uk <http://ecology.nottingham.ac.uk/reader.html> Tom Reader <Tom.Reader@nottingham.ac.uk>

UppsalaU PlantEvolGenomics

Tenure-track position as Assistant Professor in Plant Evolutionary Genomics at Uppsala University

Department of Ecology and Genetics, division in Plant Ecology and Evolution, Evolutionary Biology Centre.

The position includes research, teaching at graduate and undergraduate level, outreach activities and some administration. The holder is expected to establish research of highest international standards within the subject area, and to contribute to the development of

research and teaching of the department.

The ranking of eligible applicants will be based primarily on research and teaching expertise, of which particular weight will be given to research expertise.

Research in Plant Evolutionary Genomics involves molecular analyses to understand evolutionary and ecological processes underlying the generation and maintenance of biological diversity among plants. The subject area includes functional studies of variation at the molecular level as well as analysis and interpretation of large-scale omics-data to understand biological function, evolution of diversity, and adaptation of plants to the abiotic and biotic environment.

The position is for four years and tenure-track: An associate senior lecturer (the Swedish term for Assistant Professor) has the right to apply for promotion to senior lecturer. If the associate senior lecturer is deemed suitable and fulfills the criteria for promotion established by the Faculty Board he/she shall be promoted and employed as senior lecturer (permanent position). At a subsequent step, an application for promotion to full professor can be made.

According to the Swedish Higher Education Ordinance those qualified for appointment as associate senior lecturer are persons who have obtained a doctoral degree or achieved the equivalent competence. Priority is given to those who obtained their degree no more than seven years prior to the end of the application period.

The Evolutionary Biology Centre (EBC) of Uppsala University offers a vibrant research environment. It bridges a broad range of disciplines in the biological sciences, and is an internationally very strong environment within the field of evolutionary biology. Information about EBC and the Department of Ecology and Genetics can be found at <http://www.ebc.uu.se/?languageId=3D1/> and <http://www.ieg.uu.se/?languageId=3D1> The position is part of the SciLifeLab Fellow program and comes with a core funding of three million SEK per year for four years, which includes substantial funds to cover running costs. SciLifeLab (www.scilifelab.se) is a national centre for large-scale hypothesis driven research within molecular bioscience.

More detailed information about the position and information about how to apply can be found at

<http://www.uu.se/en/about-uu/join-us/details/?positionId=3D217586> Closing date for application is September 17, 2018

For further information about the position, please contact Professor Jon Agren jon.agren@ebc.uu.se or Professor Ulf Lagercrantz Ulf.Lagercrantz@ebc.uu.se

Jon Ågren Plant Ecology and Evolution Department of Ecology and Genetics Evolutionary Biology Centre Uppsala University Norbyvägen 18 D SE-753 36 Uppsala Sweden

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/om-uu/dataskydd-personuppgifter/\"jon.agren@ebc.uu.se](http://www.uu.se/om-uu/dataskydd-personuppgifter/\) <jon.agren@ebc.uu.se>

URichmond EvolutionaryBiol

Amy“ <atreonis@richmond.edu>

The Department of Biology at the University of Richmond invites applications for a tenure track position as an Assistant Professor of Biology. The start date is August 2019.

We seek a broadly-trained biologist who will excel in inclusive, undergraduate teaching and engage undergraduate students in their productive research program. Candidates should have a doctoral degree, post-doctoral experience, and expertise in the field(s) of ecology, evolution, or organismal biology. Candidates who study aquatic systems or integrate quantitative/computational skills in their teaching and research are encouraged to apply. The successful applicant is expected to teach upper-level biology electives in their area of expertise and introductory courses in the major, including Integrated Biological Principles II, which focuses on organismal physiology and ecology within the context of evolution (<https://biology.richmond.edu/courses/-BIOL202.pdf>). We are especially interested in recruiting individuals who have interest and experience in broadening access and inclusivity in STEM disciplines, which aligns with the recommendations of "Vision and Change in Undergraduate Education: A Call to Action" (<http://www.visionandchange.org/>) and the University's strategic plan (<https://strategicplan.richmond.edu/>).

Applicants should apply online at the University of Richmond Online Employment website. Applicants should upload one PDF file containing a cover letter, a curriculum vitae, and a single statement that describes (1) the candidate's vision for integration of teaching and research, (2) how their teaching approach and student-

centered research program incorporate evidenced-based pedagogical methods, (3) how Richmond undergraduates will be involved in the candidate's research program and, (4) how the candidate will contribute to an environment that fosters inclusivity for all students interested in STEM fields.

Applicants will also be asked to submit electronically the names of three references who will receive an automated email asking them to submit their reference letters to this web site. At least one of the references should be able to address teaching effectiveness and potential. Review of applications will commence October 1, 2018 and continue until the position is filled. Questions about the search should be addressed to Amy Treonis, Chair of the Search Committee (atreonis@richmond.edu).

The Department of Biology is in the Gottwald Center for the Sciences along with the Departments of Chemistry, and Physics. The Department of Biology offers courses for non-majors and for majors in Biology, Biochemistry and Molecular Biology, Environmental Studies, and programs in Neuroscience and Integrated and Inclusive Science (<https://inclusivescience.richmond.edu>). The typical faculty teaching load is a 3/2 (alternating semesters of 9 and 6 contact hours).

Tenure-stream positions include a research laboratory and equipment startup funds. A full-time Director of Biological Imaging manages our microscopy facility, which includes an SEM, TEM, a laser scanning confocal microscope, and a multi-mode epifluorescence microscope with time-lapse capabilities. The university also maintains an animal facility, greenhouse and herbarium, flow cytometer, standard molecular biology equipment, computer imaging technology, and field research equipment and vehicles. Members of the Department of Biology also have access to two University-owned field sites that are approximately 15 and 45 minutes from campus.

The School of Arts & Sciences, the liberal arts core of the University, is a thriving and inclusive community of 230 faculty, twenty-two departments and ten interdisciplinary programs. We offer distinctive and engaging learning opportunities to students and outstanding resources to support the scholarly, creative, and pedagogical activities of the faculty. For information about the foundations, goals, and initiatives of the School of Arts & Sciences, see the Concept 30 Strategic Plan at <https://as.richmond.edu/concept30/index.html>.

The University of Richmond is a private, highly selective, predominantly liberal arts institution. The University is committed to developing a diverse workforce and student body, and to modeling an inclusive campus community which values the expression of difference in ways that

promote excellence in teaching, learning, personal development, and institutional success. Our academic community strongly encourages applications that are in keeping with this commitment. For more information on the department see (<http://biology.richmond.edu/>).

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UToronto Evolutionary Biol

Assistant Professor, University of Toronto

The Department of Ecology and Evolutionary Biology < <http://www.eeb.utoronto.ca/> >—at the University of Toronto invites applications for a tenure-stream appointment in Ecology and Evolution at the rank of Assistant Professor, with an expected start date of July 1, 2019.

We seek candidates who conduct conceptually driven research, using field, lab, and/or quantitative approaches to study fundamental questions in ecology and/or evolution. We seek applications from candidates whose research program complements the research programs of the highly collaborative faculty currently in the department.

The successful candidate must have a PhD in ecology, evolution or a related field by July 1, 2019 or soon thereafter. Candidates must have a demonstrated record of excellence in research with publications in top-ranked, field-relevant journals.— The successful candidate will be expected to mount an independent, innovative, active, externally funded and internationally recognized research program. The successful candidate will also demonstrate excellence in teaching and contributions to the education and training of undergraduate and graduate students. Evidence of demonstrated excellence in research and teaching should be documented through the applicant's CV, publications, research and teaching statements, strong letters of reference from referees of high standing and where appropriate, course evaluations.

Salary to be commensurate with qualifications and experience.

The University of Toronto is a leading academic institution with over 60 faculty members specializing in

ecology and evolution. Strong links exist between the Department of Ecology and Evolutionary Biology and the Royal Ontario Museum, the Department of Cell and Systems Biology, the Centre for Global Change Science, Dalla Lana School of Public Health, the School of the Environment, the University network of leading academic research hospitals (<http://www.uhn.ca/>, [sunybrook.ca](http://www.sunybrook.ca)) and research groups with provincial and federal government agencies. The University owns a nearby field station dedicated to ecological research (the Koffler Scientific Reserve; <http://www.ksr.utoronto.ca/>). Toronto is a vibrant and cosmopolitan city, one of the most desirable in the world in which to work and live.

All qualified candidates are invited to apply—online at <https://utoronto.taleo.net/careersection/10050/jobdetail.ftl?job=1802289&tz=GMT-04%3A00>. Applications must include a CV and statements of research and teaching interests combined into a single PDF file, plus three representative publications. Applicants should arrange to have three confidential letters of recommendation (signed and on letterhead) sent directly to: Professor Donald Jackson, Chair, Department of Ecology and Evolutionary Biology, University of Toronto by email to: chairsec.eeb@utoronto.ca or mailed to 25 Willcocks Street, Toronto, Ontario, M5S 3B2 Canada. Deadline for receipt of applications, including reference letters, is September 19, 2018.

For further information on the Department of Ecology and Evolutionary Biology, please visit our website at <http://www.eeb.utoronto.ca/>. Questions regarding this position can be directed to Liz Rentzelos at: chairsec.eeb@utoronto.ca or human resources staff. Results will be aggregated for institutional planning purposes. For more information, please see <http://uoft.me/UP>. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

Asher D. Cutter Professor and Associate Chair Undergraduate Department of Ecology and Evolutionary Biology University of Toronto 25 Willcocks St. Toronto, ON, M5S 3B2

tel: 416-978-4602 email: asher.cutter@utoronto.ca
<http://labs.eeb.utoronto.ca/cutter> Asher Cutter
 <asher.cutter@utoronto.ca>

UToronto Teaching Evolutionary Biol

Assistant Professor, Teaching Stream - Ecology and Evolutionary Biology

The Department of Ecology and Evolutionary Biology < <http://www.eeb.utoronto.ca/> >—at the University of Toronto invites applications for one full-time teaching stream appointment in Ecology and Evolution at the rank of Assistant Professor, Teaching Stream, starting on July 1, 2019.

The Department of Ecology and Evolutionary Biology seeks a candidate who has a demonstrated record of excellence in teaching and development of innovative labs and course materials in ecology and evolution, exhibits the intellectual curiosity to pursue novel and impactful pedagogical methods, and is interested in establishing a long-term teaching career with the Department. We seek applications from candidates whose teaching and interests complement the programs in the Department.

The successful candidate must have a PhD in Ecology and Evolutionary Biology, or a related field, by July 1, 2019 or soon thereafter.

Candidates must have strong referee endorsements highlighting excellence in teaching and long-term commitment to pedagogical inquiry and teaching innovation, particularly in the context of courses with large enrolments. Candidates should demonstrate evidence of pedagogical research support (e.g. grant funding in support of pedagogical development) and a commitment to collaboration or engagement with the broader community of teaching. Evidence of excellence in teaching will be demonstrated through a teaching dossier, submitted as part of the application and strong endorsements from referees of high standing.

The successful candidate will be expected to conduct pedagogical research and teach core courses at the first and/or second year level, as well as upper-year courses in one of the candidate's fields of expertise. Responsibilities may include undergraduate teaching, managing and training teaching assistants, developing course materials including ongoing development of course laboratory exercises, and curriculum development. In addition, the successful candidate will have some responsibility for departmental administration and may have opportunities for student supervision, e.g. undergraduate research projects.—The successful candidate must also possess

strong interpersonal skills, including the ability to collaborate effectively with colleagues on our undergraduate courses and programs.

Salary to be commensurate with qualifications and experience.

The University of Toronto is a leading academic institution with over 60 faculty members specializing in ecology and evolution. Strong links exist between the Department of Ecology and Evolutionary Biology and the Royal Ontario Museum, the Department of Cell and Systems Biology, the Centre for Global Change Science, and groups with provincial and federal government agencies. The University owns a nearby field station (the Koffler Scientific Reserve) dedicated to ecological research that provides opportunities for field courses and undergraduate research, in addition to field courses we conduct at many other locations within Canada and internationally. Toronto is a vibrant and cosmopolitan city, one of the most desirable in the world in which to work and live.

All qualified candidates are invited to apply—online at: <https://utoronto.taleo.net/careersection/10050/jobdetail.ftl?job=1802314&tz=GMT-04%3A00> Applications must include a CV, a statement of pedagogical research interests and a teaching dossier. A complete teaching dossier includes a teaching statement, course outlines, course evaluations, and selected course materials (lecture slides, lab manuals) that directly support and illustrate the teaching statement. Applicants should arrange to have three confidential letters of recommendation (signed and on letterhead) sent directly to: Professor Donald Jackson, Chair, Department of Ecology and Evolutionary Biology, University of Toronto by email to chairsec.eeb@utoronto.ca or mailed to 25 Willcocks Street, Toronto, Ontario, M5S 3B2 Canada.—Deadline for receipt of applications, including reference letters, is September 5, 2018.

For further information on the Department of Ecology and Evolutionary Biology, please visit our website at www.eeb.utoronto.ca. Questions regarding this position can be directed to Liz Rentzelos at chairsec.eeb@utoronto.ca—or—(416-946-3340).

The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from racialized persons / persons of colour, women, Indigenous / Aboriginal People of North America, persons with disabilities, LGBTQ persons, and others who may contribute to the further diversification of ideas.

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UZurich EvolutionaryBotany

A lecturer position (Oberassistent, Maitre-assistant) in the group of Prof. Schiestl at the Department of Systematic and Evolutionary Botany (DSEB), University of Zurich (UZH), is available from November 2018. The position is limited to 6 (max 9) years and aims to lead to habilitation (i.e. a qualification for professorship) at the UZH. Tasks: The successful candidate is expected to i) develop a research program that is independent but complementary to existing research within the DSEB; desirable potential research areas include (but are not limited to): plant adaptation, speciation, floral biology, pollination, life history evolution, etc. preferentially with a focus on molecular/quantitative genetics; ii) attract competitive external funding; iii) supervise PhD and Master students, iv) publish in international scientific journals v) contribute to teaching in our department (ca. 20% of work-time); vi) contribute to the academic management in our department. Requirements: PhD in biology/ecology and 1-2 years PostDoc experience. A strong conceptual background in evolutionary biology/ecology is essential.

The successful candidate will work in a stimulating research environment, with access to superb research facilities. The DSEB is located in the botanical gardens and houses modern molecular and ecological labs, including greenhouses and climate chambers for plant cultivation, and a library. Research at the University of Zurich (www.uzh.ch) broadly covers organismal and molecular biology, and several research groups work on evolutionary topics (<http://www.evobio.uzh.ch/en/-research.html>). The city of Zurich offers excellent quality of life, as well as an attractive surrounding area. If you are interested in the job, please send me by e-mail (florian.schiestl@systbot.uzh.ch) a letter describing your motivation, including a short (max. half page) research plan and suggestions for teaching contributions, CV, list of publications, and e-mail addresses of two academic referees, by 30th of August 2018. If you have any further questions, don't hesitate to contact me.

Florian Schiestl <florian.schiestl@systbot.uzh.ch>

WichitaStateU AquaticVert EvolutionaryBiol correction

JOB: Aquatic vertebrate ecologist / evolutionary biologist, Wichita State University

Aquatic vertebrate ecologist / evolutionary biologist The Department of Biological Sciences at Wichita State University invites applications for a 9-month, tenure-track Assistant Professor position. The successful candidate will be an ecologist or evolutionary biologist with interests in aquatic vertebrate biology, broadly defined to include interactions with freshwater systems at any spatial scale. The candidate is expected to develop an externally funded research program involving undergraduate students and Masters of Science graduate students. Biology faculty typically teach 3 courses per year and teaching responsibilities will include undergraduate and graduate courses in the candidate's area of expertise. We seek applicants who will work in a collegial atmosphere to foster excellence in teaching and establish research collaborations with existing faculty. Preference will be given to candidates whose research and teaching agendas will actively utilize one or more of WSU Biology's Field Station sites that are detailed below.

THE DEPARTMENT: The Department of Biological Sciences offers majors in Biology with either an Ecological/Environmental/Organismal or a Biomedical emphasis. There are approximately 390 undergraduate majors and the department's Master of Science in Biology program currently includes 20 graduate students. There are 11 faculty members and five full-time departmental support staff/administrators. The WSU Field Station operation spans four reserves that total over 5000 acres and each reserve includes aquatic features such as streams, rivers, springs, or impoundments

associated with either restored or native tall and mid-grass prairies. The Ninnescah Reserve is the base of operations for our Field Station Manager and includes research and storage/maintenance buildings. A newly renovated 2025 ft² space on the Wichita main campus is dedicated to organismal biology coursework and WSU's natural history collections. The department houses modern laboratory space that include analytical/molecular equipment, an accredited animal facility, a greenhouse, and access to the Kansas State University High Performance Computing cluster. For more information about our department visit www.wichita.edu/biology. Wichita State University is located in the heart of Wichita, the largest urban center in Kansas, and has an enrollment of >15,000 students.

For more information about Wichita State University visit http://webs.wichita.edu/?u=employment&p=/why_wsu/. To learn more about Wichita visit http://webs.wichita.edu/?u=employment&p=/why_wichita/. REQUIRED QUALIFICATIONS: A Ph.D. in Biology or a related field is required at the time of employment. Research experience in aquatic vertebrate biology and research / teaching plans incorporating field components are required.

PREFERRED QUALIFICATIONS: Postdoctoral research experience is preferred, but strong candidates lacking postdoctoral experience will be considered.

APPLICATION: <https://jobs.wichita.edu/postings/-13569> Complete applications include: 1) A letter of application 2) Current curriculum vita 3) Statement of teaching philosophy and goals 4) Statement of research interests and goals 5) Contact information for three professional references 6) Copies of unofficial academic transcripts Complete applications are due September 14, 2018. The successful applicant will start August, 2019.

James Beck Department of Biological Sciences
Wichita State University james.beck@wichita.edu
www.becklaboratory.com/James "Beck, James"
<James.Beck@wichita.edu>

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Canberra VolunteerFieldAssist AvianEvol

Field assistant required for a help with PhD research on superb fairy-wrens and their parasitic cuckoos for 5 months.

This project is looking at the maternal investment of superb fairy-wrens and their parasitic Horsfield's bronze-cuckoos. This is a great opportunity to gain valuable field skills, and experience in research and data collection. Volunteers will be part of the team working with researchers and students on the project. The field site is in Campbell Park which is located 10 minutes drive from the city centre in Canberra, Australia. The volunteer will be required to work 5 days per week in the field (no matter the weather conditions) and must be physically fit as they will be required to walk around the park often 10km per day. The volunteer and I will be working together some days but most days will require the volunteer to collect data independently in the field and communicate their findings. Therefore teamwork and communication skills are essential. The candidate must also be self-motivated, enthusiastic, reliable and have a good work ethic. Previous experience with similar work or a degree in biology is preferable but not essential. Volunteers will be trained in field methods.

Main field duties will include finding nests, monitoring breeding attempts and documenting group dynamics throughout the breeding season. We will also mist net individuals so they can be banded for identification. Volunteers will be required to identify individuals by their colour band code using binoculars. Other task include helping to cage nests to prevent predation and helping to measure chicks and eggs.

Volunteers will be reimbursed \$1000 per month to help cover living costs but all other costs will need to be covered by the volunteer. Fieldwork will begin at the

start of September 2018 and finish at the end of January 2019.

If you are interested or require more information please email me at claire.j.taylor@anu.edu.au explaining a little about yourself, including interests a CV with any prior experience and referees.

Claire Taylor <claire.j.taylor@anu.edu.au>

Diversity AvianGenomicEvolution

Other: Call for papers. Genomic Analyses of Avian Evolution, Special Journal Issue.

Birds have been the focus of pioneering studies of evolutionary biology for generations largely because they are abundant, diverse, conspicuous, and charismatic. It is little surprise then that this tradition has positioned birds at the forefront of genome evolutionary biology. Extensively collaborative ongoing programs to sequence whole genomes or a variety of pan-genomic markers of all 10,000 species of living birds further promise to keep birds in the limelight in the near and indefinite future. Such comprehensive taxon sampling provides untold opportunities for comparative studies in well documented phenotypic, adaptive, ecological, behavioral, and demographic contexts, not to mention focus on differing characteristics of evolutionary processes across the genome and among lineages. This comparative approach is leveraged by coordination and standardization of data pipelines, as well as by encyclopedic knowledge of the natural history of closely related birds that differ little except with respect to singular traits. Indeed, genomics is a natural extension of many studies of population genetics and speciation that have been ongoing for decades.

The journal Diversity is hosting a special issue titled

“Genomic Analyses of Avian Evolution” that will feature a broad spectrum of original research articles representative of and reflecting on comprehensive taxonomic sampling projects, the genomic basis and evolution of specific adaptive traits, structural variation among lineages, and higher level phylogeny accounting for incomplete lineage sorting as inferred from novel pan-genomic markers. Current genomic studies of avian phylogeography and of extinct birds are also likely anticipated. Committed authors include both icons and up-and-coming mavericks, representing both extensive collaborations and independent laboratories. We openly invite further submissions for what will be a prominent thematic compendium of cutting-edge genomic approaches to the evolutionary biology of birds and of genome evolution within birds.

Diversity is an on-line Open Access journal that is free to readers. Article Processing Charges (APC) will be waived for a small number of contributors at the editor’s discretion based on timeliness and need. All others will receive a 20% discount of the modest standard APC. Manuscripts are peer-reviewed and a first decision provided to authors approximately 22 days after submission; acceptance to publication is undertaken in 6.2 days (median values for papers published in this journal in 2017). Papers will appear on-line as they are accepted. Diversity is indexed in BIOSIS Previews, Zoological Record and other databases. CiteScore 2016 (Scopus): 2.03, which equals rank 10/41 (Q1) in ‘Agricultural and Biological Sciences (miscellaneous)’, rank 9/25 (Q2) in ‘Ecological Modelling’, rank 76/291 (Q2) in ‘Ecology’, rank 24/109 (Q1) in ‘Nature and Landscape Conservation’.

Target deadline for submissions: August 31

- (1) Please download our template and visit the *Instructions for Authors* before submitting your paper: <http://www.mdpi.com/journal/diversity/instructions>
- (2) Please register (<http://susy.mdpi.com/user/register/>) and log in (<http://susy.mdpi.com/user/login/>) to the system before your submission. Please check junk or spam mail box if you have not received the active link of your account.
- (3) Once your manuscript is ready, please submit it on-line at: <http://susy.mdpi.com/user/manuscripts/upload?journal=diversity>
- (4) Our on-line submission system will request you to suggest at least three potential reviewers and necessary information when you submit the manuscript.

Inquires may be directed to: phoude@nmsu.edu

Peter Houde Prof. of Biology (and Guest Editor in the context of this announcement) New Mexico State

University Las Cruces NM 88003

Peter Houde <phoude@nmsu.edu> Peter Houde
<phoude@nmsu.edu>

ESEB OutreachInitiativeFund

ESEB Outreach Initiative Fund

The European Society for Evolutionary Biology (ESEB) welcomes applications to the ESEB Outreach Initiative Fund for projects that promote evolution-related activities. The goal of this initiative is to improve public knowledge about evolution globally.

Applications for funding will be accepted for educational initiatives that promote evolution, development of evolutionary material (books, films, web sites) intended for a general audience, public outreach seminars, public exhibitions, etc. While most projects will be financed for a sum between 1000-1500 Euro, exceptions can be made if a strong argument is provided for additional funds. Note that the ESEB Outreach Initiative Fund does not work as a—mechanism for continual funding.—Once the potential of a project/activity—has been demonstrated, then this should be used as data to convince other funding bodies—to provide continuation funds. Hence, submissions by a group that has been successful in past calls may be penalized if they are mere follow-ups of previous projects.

The application form can be found on the ESEB website (<http://www.eseb.org/prizes-funding/outreach-fund/>). Applications will be accepted twice yearly (deadlines March 15, September 15) and should be submitted by email to Ute Moniatte (office@eseb.org; Subject: Outreach).

Dr. Ute Moniatte ESEB Office Manager European Society for Evolutionary Biology Molenstraat 156 6712 CW Ede The Netherlands Email: office@eseb.org Website: eseb.org

ESEB <office@eseb.org> ESEB <office@eseb.org>

Registration For ESEB

Subject: Anyone looking for a registration to the ESEB meeting (Montpellier)

Dear all,

Due to an unexpected event, a member of our group will not be able to attend the joint ESEB SSE meeting in Montpellier (<https://www.evolutionmontpellier2018.org/>). This meeting is closed for registration, but we can transfer our registration if someone would like to go, and have been unable to register previously. Please get in touch (paula@evolutionarygenetics.org) if you would like to have our registration transferred to you.

Many thanks,

Paula

Dr. Paula X. Kover, FRBSB Reader in Plant Evolutionary Genetics Milner Centre & Biology and Biochemistry Dept University of Bath

Paula Kover <P.X.Kover@bath.ac.uk>

Software Myriads

Dear evoldir members,

I am pleased to announce the software Myriads (formerly SGoF) that performs well under high-dimensional biological data, easily managing hundreds of thousands of *p*-values. The Myriads software was developed under the C++11 language and is available as binary C++ executable for Windows and Linux-like platforms. It includes different multiple testing correction methods as Sequential Bonferroni, Benjamini-Hochberg FDR, SGoF, and new ones as a modified sliding linear model (SLIM), and the Bon-EV method, jointly with different q-value estimation algorithms.

Additionally, it provides a dependence test and a p-value simulation tool.

The program jointly with more detailed information can be obtained from the web page

myriads.webs.uvigo.es

The method is described in the following paper and its supplementary file:

Carvajal-Rodríguez A (2018). Myriads: p-value-based multiple testing correction. *Bioinformatics* 34 (6): 1043-104

Best wishes,

Antonio

Antonio Carvajal Rodríguez Profesor Titular de Genética Universidad de Vigo email: acraaj@uvigo.es web: <http://webs.uvigo.es/acraaj/> Antonio Carvajal-Rodríguez <acraaj@uvigo.es>

Software ParGenes ParallelGeneTreeInference

Dear Community,

We have just released a new tool called ParGenes that can infer gene trees (for downstream use with gene tree/species tree reconciliation tools) on thousands of MSAs using ModelTest-NG and RAxML-NG with thousands of processors via just one single MPI invocation.

You can find a preprint describing the tool and its capabilities here:

<https://www.biorxiv.org/content/early/2018/07/23/373449> 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>

Software RAxML-NG Web-Server

Dear Community,

A new web-server for the completely redesigned Next Generation version of RAxML: RAxML-NG is now online for testing at <https://raxml-ng.vital-it.ch> Alexis – Alexandros (Alexis) Stamatakis

Research Group Leader, Heidelberg Institute for The-

oretical Studies Full Professor, Dept. of Informatics,
Karlsruhe Institute of Technology

www.exelixis-lab.org Alexandros Stamatakis
<alexandros.stamatakis@gmail.com>

Please apply by email or contact for further information:

Dr Markus Zöttl, Linneaus University,
markus.zottl@lnu.se

Markus Zöttl <markus.zottl@lnu.se>

SouthAfrica VolFieldResAssist SocialMoleRats

SouthAfrica.VolFieldResearchAssistant.SocialMoleRats
Cooperative breeding in Damaraland mole-rats
(*Fukomys damarensis*).

We are looking for voluntary field research assistants to get involved with our research on the completely subterranean, highly social Damaraland mole-rat (*Fukomys damarensis*) in the Kalahari (South Africa). We are conducting a long-term capture-mark and recapture study, based at the Kalahari Research Centre, to investigate the life-history and social behaviour of Damaraland mole-rats (<http://kalahari-meerkats.com/kmp/research-publications/damaraland-mole-rats-group/>). Entire groups of mole-rats will be captured and individually marked. Some individuals may be fitted with a collar to measure behavior. Morphological measurements and tissue samples will be obtained before the release of the animals. The field work is physically demanding and weather conditions are challenging (heat during the day, cold during the night). Field work may make trapping during the night necessary. The assistants will mostly be working in teams of two or three but will be embedded in a large research community. This position requires working in a small team in a remote location on free ranging animals. The trapping season will start in September and last for 3 months. Research assistant will require a valid driving license.

Accommodation is provided, and research assistants are paid a monthly allowance to cover their personal costs and food. The project is conducted in collaboration with researchers from the Large Animal Research Group at the University of Cambridge (<https://www.zoo.cam.ac.uk/research/groups/-larg/long-term-projects>).

We will review applications as they arrive. Please apply at latest the 15th of July 2018. Please include a cover letter explaining why you are interested in getting involved in this research project and a CV including the contact addresses of two persons who are willing to provide a reference for you.

Survey PreservingAvianDNA

Do you work with avian blood?

Please, share your experience by filling our survey “Preserving avian DNA from the wild: your experience of blood sampling, DNA extraction and storage”.

https://www.surveymonkey.com/r/avian_blood_storage

It is addressed to biologists and molecular ecologists handling blood samples collected from birds in the field and managing the long-term storage of blood and DNA extracts. We would like you to share with us your past and current experiences, along with the adversities you faced, both in the field and in the lab.

Sincerely,

Irene Di Lecce, Joanna Sudyka, David F. Westneat and
Marta Szulkin (University of Warsaw and University of
Kentucky)

“joanna.sudyka@cent.uw.edu.pl”
<joanna.sudyka@cent.uw.edu.pl>

Teaching Quantitative Skills

The Quantitative Undergraduate Biology Education and Synthesis (QUBES; <https://qubeshub.org/>) project offers an online platform to facilitate faculty professional development and sharing open educational resources for teaching quantitative skills. We offer professional development opportunities called Faculty Mentoring Networks (FMNs; <https://qubeshub.org/community/-fmns>).

This Fall 2018, we are offering four different FMNs! The options are: 1. Reducing Barriers to Teaching with R in Undergraduate Biology 2. NEON Data Education Fellows Faculty Mentoring Network 3. Building mathematical intuition with online MathBench biology modules 4. Amplifying the data analytic opportunities

in your CURE

The modules and data in these FMNs can be used and adapted for an evolution course. During these FMNs, you will learn how to effectively implement data and programming into your classrooms.

Read more about each FMN below:

1. Reducing Barriers to Teaching with R in Undergraduate Biology

This Faculty Mentoring Network is intended for undergraduate biology instructors with prior R programming experience who are interested in learning ways to teach with R effectively to students with little to no programming experience. Participants will focus on developing, implementing, and sharing modules for teaching statistical and biological concepts in R with Swirl. Swirl lessons simplify the R learning process by providing a guided, interactive experience through on-screen prompts and exercises which students answer directly in the RStudio console. Participants will learn the Swirl program, implement one existing Swirl lesson, contribute one new lesson and will leave the FMN with >10 ready-to-use Swirl lessons covering diverse biology and data analysis concepts.

For more information visit https://qubeshub.org/groups/teaching_r_fmn Registration: Applications are due by July 25, 2018. Click this link (<https://docs.google.com/forms/d/e/1FAIpQLSeW0Bh8SRhDgqsDyesOXJZCEUJgkbO5ZpKI1fbWYybYgNSG0Q/viewform>) to apply.

2. NEON Data Education Fellows Faculty Mentoring Network

The National Ecological Observatory Network (<https://www.neonscience.org/>) and the Quantitative Undergraduate Biology Education and Synthesis project (QUBES) are pleased to offer networking and professional development opportunities through this Faculty Mentoring Network for faculty interested in implementing or adapting existing NEON teaching materials to their educational settings. Faculty who already teach using NEON data and would like to use the FMN to im-

prove and transition it to an open educational resource are also invited to participate. More information on NEON educational materials can be found on the Teaching Resources page (https://qubeshub.org/community/groups/neon2018/teaching_resources).

For more information visit <https://qubeshub.org/community/groups/neon2018/overview> Registration: Applications are due by July 22, 2018. Click this link (https://docs.google.com/forms/d/e/1FAIpQLSeTGRPW2oKAw8zXJNXAPX7EFP4qWaZAECmg-hGE_ewVkGtw/viewform) to apply.

3. Building mathematical intuition with online MathBench biology modules

Have you tried using online modules with mixed success? Or are you thinking about using online modules but wondering how best to incorporate them into your course? Apply now to join us for the Fall 2018 QUBES Faculty Mentoring Network (FMN): Building mathematical intuition with online MathBench biology modules.

Participants in this FMN will focus on how to integrate MathBench Biology Modules (mathbench.umd.edu) into undergraduate life sciences or mathematics courses. MathBench introduces and reinforces mathematical material in a way that is hands-on, accessible, and intuitive. Accepted applicants will adapt and implement MathBench modules in their courses. Faculty will participate in biweekly online sessions to collaborate with and learn from others in the network and receive mentoring from implementation experts. Based on their experiences, participants will create implementation guides and instructor resources that will be posted on QUBESHub as open educational resource publications.

For more information visit <https://qubeshub.org/community/groups/mathbenchfmn> Registration: Applications are due by July 20, 2018. Click this link

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ArizonaStateU

EvolutionaryComparativeGenomics

* Postdoctoral position available in Evolutionary and Comparative Genomics *

The Pfeifer lab at Arizona State University (ASU) invites applications for a postdoctoral position in evolutionary and comparative genomics. We have multiple opportunities for projects, with the overarching theme being the development of computational methods, with

an application of those methods to large-scale population genomic datasets. Our fundamental biological questions are focused upon the evolutionary processes governing mutation and meiotic recombination rates within and between species. For more detailed information on research, current members, and publications, please visit: <http://spfeiferlab.org/>. * Required qualifications * The successful candidate will have a strong research record in evolutionary biology, as well as a knowledge and interest in computational and statistical analysis (programming proficiency in R, Perl, or Python, as well as shell scripting, is essential). Previous experience with the analysis of high throughput sequencing data is an advantage. Preference will be given to candidates with clear evidence of research productivity in

the form of a strong publication record and an ability to successfully communicate scientific information.

* Working environment * The Pfeifer Lab is located in the School of Life Sciences at Arizona State University. The School offers a supportive and stimulating scientific environment with a diverse collection of faculty with expertise across the life sciences, as well as access to excellent academic and computing resources. The lab is integrated in a large (and still growing) evolution, genomics, and population genetics research community on campus (ASUpopgen.org), as well as the Center for Evolution and Medicine (evmed.asu.edu), and the Center for Mechanisms of Evolution (biodesign.asu.edu/mechanisms-evolution) - a vibrant work environment with excellent opportunities for collaborative efforts as well as independent accomplishments. Phoenix offers a superb quality of life, with beautiful natural landscapes for recreational activities.

* Contact * Interested applicants should send a one-page research statement clearly indicating their qualifications and motivation to join the group, CV, and contact information for three references to susanne.pfeifer@asu.edu. The review of applications will begin August 13th and will continue until a suitable candidate has been found. Informal inquiries are welcome. The start date is flexible.

Susanne P. Pfeifer School of Life Sciences Arizona State University website: spfeiferlab.org email: susanne.pfeifer@asu.edu

Susanne Pfeifer <spfeife1@asu.edu>

Budapest BirdEvolutionaryBehaviour

Post-doc Position University of Veterinary Medicine Budapest, Hungary Life history consequences of nest site selection

Choosing nest sites is a major life history decision, since the vegetation around the nest influences both the risk of predation and the thermal properties of eggs and the incubating parent. In this project we aim to investigate nest site selection in a ground nesting shorebird with biparental incubation, the Kentish plover. Because of the different daily incubation schedule of the sexes, nest cover can be a sexually antagonistic trait, furthermore individuals may have consistent preferences for nest sites. In the project we aim to understand the costs

and benefits of this important life history decision, and its relation to sexual conflict and personality of parents. The project is led by Dr Andras Kosztolanyi (Univ Vet Med Budapest, Hungary), Prof Zoltan Barta (Univ Debrecen, Hungary) and Prof Tamas Szekely (Univ Bath, UK), and will be run in close collaboration with the "ELVONAL (cutting edge) - Breeding system evolution in shorebirds" project of the University of Debrecen, Hungary. The research group uses English as communication language.

This job offers an opportunity for an early-stage post-doc who wants to combine fieldwork with cutting-edge evolutionary and behavioural science. The main tasks of the post-doc are to carry out and supervise field studies in Kazakhstan, Russia and/or China (possibly in other countries). We seek candidates with experience in behavioural ecology and field biology preferable with birds, shorebirds. Publications in high-quality peer-reviewed journals, excellent communication skills, and solid skills in data handling are essential.

This is a full-time position and the salary will be above the normal Hungarian level (up to 1200 EUR, depending on experience). Note that the cost of living in Hungary is substantially less than in Western Europe. The position is for 36 months (subject to probation period). See further specifications below.

Application deadline is 30 September 2018. The application should include (1) a max two pages cover letter, (2) a CV with list of publications, and (3) the name and contact details of four referee preferably from research, academia or conservation. The applications should be emailed to Ms Fanni Takacs (fancsi_t@hotmail.com). Interviews will be in early October and the position is available from 1 November 2018.

For further information please contact Ms Fanni Takacs (fancsi_t@hotmail.com).

Selected publications

AlRashidi, M. et al. 2011. Parental cooperation in an extreme hot environment: natural behaviour and experimental evidence. *Animal Behaviour* 82: 235-243.

Bulla, M. et al. 2016. Unexpected diversity in socially synchronized rhythms of shorebirds. *Nature* 540: 109-1013.

Eberhart-Phillips, L. J. et al. 2018. Demographic causes of adult sex ratio variation and their consequences for parental cooperation. *Nature Communications* 9: 1651

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.

Job description: * The post-doc will carry out field observations and experiments in plover populations in Kazakhstan, Russia and/or China * supervise PhD students and research assistants, and coordinate research with external collaborators * coordinate sampling, behavioural recording, data analyses, and preparations of manuscripts for publication * present the results at conferences and research seminars, and promote the results of the project * assist administration associated with the project * carry out other scientific and/or academic activities that are deemed necessary for the success of the project

Requirements: * PhD in evolutionary biology, behavioural ecology, zoology, or relevant field of life sciences * solid knowledge of evolutionary biology, behavioural ecology, and/or ornithology * experience carrying out or supervising large-scale research projects * at least 2 years experience in avian field ecology, behavioural ecology or a relevant field * good skills in statistical modelling, and advanced knowledge of R programming and database management * at least 5 published (or accepted) research papers in peer-reviewed journals * international field experience studying wild populations (preferably birds) * experience in bird ringing and preferably ringing licence * valid driving licence
andras.kosztolanyi@gmail.com

CIBIO-InBIO Portugal Biodiversity

Dear Colleagues,

I would like to inform you about the call for applications for a Post-doctoral Fellowship at the Research Center in Biodiversity and Genetics Resources (CIBIO-InBIO), Vairão, Portugal, which will be open until July 18th, 2018.

If possible, I would greatly appreciate to be able to count on your collaboration in the dissemination of this opportunity amongst potential candidates.

Thank you so much!

All the best,

CIBIO-InBIO's Science Communication and Outreach Office

CIBIO - Centro de Investigação em Biodiversidade e Recursos Genéticos/ InBIO Laboratório Associado, Universidade do Porto

Campus de Vairão

Rua Padre Armando Quintas

4485-661 Vairão

Portugal

Post-doctoral Fellowship (BPD)

Reference: ICETA 2018-38

< <http://www.eracareers.pt/opportunities/-index.aspx?task=global&jobId=101035> > Link to the call - <http://www.eracareers.pt/opportunities/-index.aspx?task=global> < <http://www.eracareers.pt/opportunities/index.aspx?task=global&jobId=101035> > &jobId1035

Main research field: Biological sciences

Specific research field: Biodiversity and evolution

A Post-doctoral Fellowship (BPD) (Reference ICETA 2018-38) in the project N.º28090 of the call 02/SAICT/2017, entitled "LINKING PHENOTYPES TO DIVERSIFICATION DYNAMICS TO DECIPHER THE TEMPORAL AND SPATIAL SCALING OF BIODIVERSITY EVOLUTION IN THE MEDITERRANEAN BASIN" is available at CIBIO, through ICETA, Instituto de Ciências e Tecnologias Agrárias e

AgroAlimentares da Universidade do Porto, funded by the Fundação para a Ciência e a Tecnologia, I.P., (FCT/MCTES) and COMPETE - Programa Operacional Factores de Competitividade (POFC) - POCI-01-0145-FEDER-028090.

Eligibility Requirements: Candidates must hold a PhD degree in Biological Sciences, and have experience in phylogenetic comparative methods for studying phenotypic evolution and niche diversification. We seek candidates with:

- i) a solid background in ecological and morphological data analyses in a phylogenetic comparative framework;
- ii) technical independence for combining phylogenetic, GIS, and high-performance statistical tools;
- iii) an excellent publication record in international journals, supported by previous activities;
- iv) experience with the model organisms, i.e. mainly amphibians and reptiles, preferably from the Mediterranean region;
- v) good communication and teamwork skills;
- vi) an independent vision for developing further research activities in this research line, compatible with the objectives of the project, and obtaining further funds to support these activities.

The candidate's Curriculum Vitae must be compatible with the work plan.

Work plan: The project investigates the ecological and evolutionary processes involved in shaping the Mediterranean Basin as one of the world's richest biodiversity hotspots, using amphibians and reptiles as a model system. The activities related to this BPD will focus on tasks 1 and 2 of the project, which encompass analyzing available climatic, distributional, and morphological data, and combining them with available phylogenies, to address how climatic and structural niche has influenced species diversification of the model groups; to infer the evolutionary dynamics involved in shaping morphological and ecological diversification, in order to test whether these are uniform across groups; and to develop further activities in this research line, by defining and pursuing specific scientific questions in the context of the project activities and based on the data available.

Legislation and regulations:

A fellowship contract will be celebrated according to the regulations defined by FCT Estatuto do Bolseiro de Investigação Científica, aprovado pela Lei n.º 40/2004, de 18 de Agosto, alterado e republicado pelo Decreto-Lei n.º 202/2012, de 27 de Agosto, alterado ainda pelo Decreto-Lei n.º 233/2012, de 29 de Outubro, pela

Lei n.º 12/2013, de 29 de Janeiro, e pelo Decreto-lei n.º 89/2013, de 9 de Julho; < <http://www.fct.pt/apoios/bolsas/docs/RegulamentoBolsasFCT2015.pdf> > Regulamento de Bolsas e Investigação da Fundação para a Ciência e a Tecnologia, IP (FCT), em vigor e de acordo com os Estatutos de Bolsa do ICETA aprovados pela FCT.

Workplace: The work will be conducted at CIBIOInBIO, UP - Centro de Investigação em Biodiversidade e Recursos Genéticos, Universidade do Porto, Campus de Vairão, Rua Padre Armando Quintas, 7, 4485-661 Vairão.

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CornellU AvianPopulationRanges

Post-doc Position in Quantitative Ecology and Data Science

Background: We are recruiting a post-doctoral associate to lead a collaborative project advancing the study of extreme weather and climate in species distribution modeling. This will involve the development and application of models to produce accurate predictions and conduct statistical inference on the vulnerability of bird species to future climate change. The post-doc will have access to data from the citizen science project, eBird (<https://ebird.org/home>), one the fastest growing biological inventories in the world and freedom to develop research questions within the broader objectives of the project.

The position will be funded for 2 years. This is collaborative project between the University of Wisconsin-Madison and the Cornell Lab of Ornithology. The post-doc will be advised by Drs. Benjamin Zuckerberg (Department of Forest and Wildlife Ecology, UW-Madison) and Dr. Daniel Fink (Cornell University). The position will be primarily hosted at the University of Wisconsin-Madison, but the post-doc will be expected to visit and spend significant time at the Lab of Ornithology in Ithaca, NY.

Qualifications: We seek motivated candidates with training in quantitative ecology, excellent statistical or machine learning skills (e.g. high dimension regression,

Bayesian hierarchical modeling), and experience or interest in species distribution modeling. Previous experience working with spatial databases (climate, land cover) and large biological databases is highly beneficial. Strong computing skills, especially R, and experience using Linux in high-performance computing and cloud environments are desirable. The candidate should have demonstrable ability to produce quality manuscripts for publication in peer-reviewed journals and experience working in collaborative research environments.

Salary: \$60-65,000/year plus benefits

Start Date: September 2018 (negotiable)

To apply, please submit your application here: https://uwmadison.co1.qualtrics.com/jfe/form/-SV_2gkGbYWM2Q69IWZ Please note that submitting an application includes filling out a small survey, and uploading a cover letter summarizing research interests and experiences, curriculum vitae, and unofficial transcripts (both undergraduate and graduate, compiled into one file).

After reviewing all applicants, we will ask for reference letters from top candidates.

The position is open to both U.S. citizens and international candidates. UW-Madison will assist with visa applications as necessary once an offer is made.

The University of Wisconsin-Madison is an equal opportunity/affirmative action employer. We promote excellence through diversity and encourage all qualified individuals to apply.

Review of applicants will begin immediately, but the positions will remain open until suitable candidates are found. Applications received by August 10, 2018 are guaranteed full consideration.

Daniel Fink <daniel.fink@cornell.edu>

EmoryU MonarchButterflyPopGen

Postdoctoral position: Consequences of monarch butterfly migration loss for parasite transmission and population genomics

A two-year postdoctoral position is available in the laboratory of Jacobus de Roode at Emory University to study the genetics and genomics of migration loss of monarch butterflies and to investigate the consequences of migration loss for parasite transmission.

This postdoc is part of a collaborative NSF-funded project to study the host-parasite dynamics of shifts from migratory to non-migratory behaviors in monarchs. The project team consists of Sonia Altizer (lead PI, University of Georgia), Richard Hall (University of Georgia), Karen Oberhauser (University of Madison), Elizabeth Taylor (Tulane University) and Jacobus de Roode (Emory University).

Monarch butterflies are best known for their spectacular annual migration from North America to Mexico, but recent years have seen the formation of resident populations of monarchs along the Gulf and southern Atlantic Coasts. Our project focuses on understanding factors that lower migratory propensity in North American monarchs, and the consequences of resident behavior for monarch-parasite interactions. The main responsibilities of the postdoc will be to use whole genome resequencing and population genomics approaches to determine the extent to which recently formed resident populations have genetically diverged from migratory monarchs, to quantify levels of genetic mixing between migratory and non-migratory monarchs, and to determine whether these monarchs have evolved adaptations to their non-migratory lifestyle. In addition, the postdoc will contribute to experimental studies to estimate how shifts to a non-migratory lifestyle alter parasite transmission, and will have the opportunity to participate in field collection activities aimed at sampling resident and migratory monarchs.

Candidates should have a Ph.D. or equivalent in evolution, genetics, ecology, or related field, with a track record of publication in peer-reviewed journals. The ideal candidate for this position has experience with fieldwork as well as population genomics, including genome library preparation, genome-wide SNP analysis, population genomic tools, and the creation of bioinformatics pipelines, together with excellent writing and communi-

cation skills.

To apply, please send a single PDF containing a cover letter, a CV, a one-page research statement, relevant publication(s) and the names and email addresses of three referees to jderood@emory.edu by 18 July 2018

A short description of the NSF-funded project can be found here: https://www.nsf.gov/awardsearch/showAward?AWD_ID=1754431&HistoricalAwards=false More information about the de Roode lab and Emory University can be found here: <http://deroodelab.org/> <http://www.emory.edu/home/index.html> Jacobus (Jaap) de Roode Associate Professor of Biology Director of Graduate Studies, Population Biology, Ecology and Evolution Emory University Biology Department 1510 Clifton Road Atlanta GA 30322, USA office phone: +1 404 727 2340 email: jderood@emory.edu website: <http://www.biology.emory.edu/research/deRoode/> “De Roode, Jacobus” <jderood@emory.edu>

GeorgiaTech EvolutionaryGenetics

The Paaby lab at Georgia Tech is seeking a creative and enthusiastic postdoctoral scholar in evolutionary biology.

Our lab explores the evolution of populations and complex traits using genetics, molecular biology, cell biology, genomics and field work. Our strength is using creative engineering approaches to test the functional consequences of natural genetic variation. (For more information, please visit my website: <http://genaamics.org/>.) The successful candidate will be a critical thinker pursuing research in evolutionary genetics, ecological genetics, quantitative genetics or evo-devo and have a PhD in one of these, or a related, area.

The research project will include both experimental benchwork and computational research or analysis, may include field work, and will be defined jointly by the postdoc and myself, Annalise Paaby. The project could originate entirely from the candidate, from an existing project in the lab (which currently includes research in *C. elegans* and related *Caenorhabditis* species), or it could be something in between. The postdoc will be free to develop an independent research program with the support and expertise of the lab.

WHY GEORGIA TECH?

The School of Biological Sciences at Georgia Tech is a

medium-sized department with an outstanding group of evolutionary biologists. We include at least seven highly interactive labs with a primary focus on the genetic basis of evolutionary dynamics, and additional labs using computational approaches in evolutionary genomics or field- and lab-based approaches in ecological genetics. Located within a world-class engineering institute, we have truly unique opportunities for collaboration, especially for experimental model systems.

WHY ATLANTA?

Atlanta is a lush, green city with loads of restaurants and great quality of life. The city offers all the perks of a major metropolis but is affordable. The North Georgia mountains are only an hour's drive and the region includes some of the most beautiful outdoor landscapes on the east coast.

WHY THE PAABY LAB?

My lab is young (established fall 2015) and what I can't yet offer in reputation I aim to make up for as an engaged colleague! I am committed to working productively with all members of my lab and I enjoy opportunities to mentor the development of independent researchers, and support whatever professional goals labmembers may have.

HOW DO YOU PRONOUNCE PAABY?

It's "poe-bee".

WANT TO APPLY?

The most important criterion of the successful candidate is demonstrated enthusiasm and aptitude for scholarship in evolutionary biology, including evidence of independent productivity in the form of first-author publication. If you'd like to apply, please email me (paaby@gatech.edu) a combined PDF of your CV and a one-page-max cover letter that includes the email addresses of three references and very, very brief info on:

- the topic of your dissertation research and current research (if any) - topics you'd like to pursue as a postdoc and why
- ideal start date
- sequencing skills and experience, both benchwork and analytic (if any)
- coding experience and skills (if any)
- any questions you may have!

Annalise Paaby Assistant Professor School of Biological Sciences Georgia Institute of Technology <http://genaamics.org/> paaby@gatech.edu

Annalise Paaby <paaby@gatech.edu>

GeorgiaTech RegulatoryEvolution

A postdoctoral position is available immediately in Dr. Soojin Yi's lab at the School of Biological Sciences, Georgia Tech. The Yi lab has diverse research interests and the postdoctoral candidate will have an opportunity to pursue her/his specific research interests. The initial focus of the postdoctoral researcher will be an exciting ongoing project on regulatory evolution. Specifically, we are performing a large-scale comparative epigenomic analysis of human brains. The postdoctoral researcher will also have an opportunity to investigate the epigenomics of neuropsychiatric diseases. She/he will analyze new epigenomics data from the Yi laboratory and integrate them with the available data in public databases.

Examples of relevant publications include:

Lee, K. S., Chatterjee, P., Choi, E. -Y., Sung, M. K., Oh, J. Won, H. Park, S.-M., Kim, Y.-J., Yi, S. V., Choi, J. K. 2018. Selection on the regulation of sympathetic nervous activity in humans and chimpanzees. *PLoS Genetics*, 14: e1007311.

Mendizabal, I., Shi, L., Keller, T. E., Konopka, G., Preuss, T. M., Hsieh, T.-F., Hu, E., Zhang, Z., Su, B., and Yi, S. V. 2016. Comparative Methylome Analyses Identify Epigenetic Regulatory Loci of Human Brain Evolution. *MBE*, 33: 2947-2959.

Keller, T. E., and Yi, S. V. 2014. DNA Methylation and Evolution of Duplicate Genes. *PNAS*, 111: 5932-5937.

Zeng, J., Konopka, G., Hunt, B. G., Preuss, T. M., Geschwind, D., and Yi, S. V., 2012. Divergent whole-genome methylation maps of human and chimpanzee brains reveal epigenetic basis of human regulatory evolution. *American Journal of Human Genetics*, 91: 455-465.

We are looking for a highly motivated individual with a research interest/focus on genomics and regulatory evolution. Qualifications include 1) a Ph.D. in evolution, genetics, computer science, or statistics; 2) experience/ability in genomic data analyses (Python/R programming, proficiency with public databases); 3) ability to write/present scientific manuscripts. In addition to the comparative brain epigenomics project mentioned above, there are many opportunities to participate in other projects in the lab studying diverse systems.

The Yi lab is a member of the Bioinformatics, Quanti-

tative Biosciences, and Bio-E graduate programs and the postdoctoral researcher will have ample opportunity to interact with diverse faculties with expertise in computational/experimental genomics and bioengineering. Georgia Tech is located in midtown Atlanta, a vibrant area with tremendous cultural diversity. Atlanta is in close proximity to the Smoky Mountains/Appalachian Trail, and also the Atlantic Ocean and Gulf Coasts. The Yi lab has several collaborative projects with faculties at nearby Emory University as well.

Interested and qualified individuals should send a CV with names of three references and a cover letter to Soojin Yi (soojinyi@gatech.edu).

I will be at the SMBE next week in Yokohama and will be happy to arrange a personal meeting.

Soojin Yi <soojinyi@gatech.edu>

GhentU Bioinformatics

Bioinformatics Postdoc Position in Evolutionary and Comparative Genomics

A three-year postdoctoral position is available in the Van de Peer lab (<http://bioinformatics.psb.ugent.be/beg/>) at VIB/Ghent University, Belgium, starting October 1st, 2018.

The Van de Peer lab is considered a center of excellence in gene prediction and genome annotation, and comparative and evolutionary genomics. As we are involved in several international plant genome and evolution projects, we are currently looking for a bioinformatician to strengthen our genome annotation and analysis team. You will also be involved in the study of gene and genome duplications, another major interest of the research group.

Required Qualifications

The ideal candidate holds a PhD degree in bioinformatics or computational biology (or equivalent through experience), is highly interested, ambitious, curiosity-driven and likes interdisciplinary work. He/she will need to interact productively with evolutionary biologists, genome biologists and computer scientists. Programming/scripting experience (e.g., Perl, Python, R, and experience working in a Linux environment are essential. A background in genomic, transcriptomic and/or epigenetic research and experience in evolutionary and/or comparative genomics is expected. Since English is the

working language of the laboratory, excellent English communication skills are imperative. The candidate should have a proven track record with at least two publications as first author in renowned peer reviewed journals.

Working environment

The successful candidate will work in the Department of Plant Biotechnology and Bioinformatics/VIB Center of Plant Systems Biology, Ghent University, Belgium. VIB and Ghent University offer a supportive and stimulating environment, with access to excellent computer and academic facilities. More information on our research and research topics can be found at <http://bioinformatics.psb.ugent.be/beg/>. *Contact details*

To apply, please send a single document including a letter of motivation describing your research motivation and experience, a detailed CV with a list of publications, summary of past research, and contact details for at least two referees to yves.vandeppeer@psb.ugent.be.

Review of applications will continue until a suitable candidate is found.

Yves Van de Peer VIB Center for Plant Systems Biology
Department of Plant Biotechnology and Bioinformatics
Ghent University

Prof. Dr. Yves Van de Peer

Department of Plant Biotechnology and Bioinformatics,
Ghent University VIB - UGent Center for Plant Systems
Biology

Technologiepark 927, B-9052 Ghent, Belgium

Phone: +32 (0)9 331 3807 Cell Phone: +32 (0)476 560
091 email: yves.vandeppeer@psb.ugent.be

Department Chair

Part-time Professor at the Department of Biochemistry,
Genetics and Microbiology, University of Pretoria, South
Africa

Orchid ID: <https://orcid.org/0000-0003-4327-3730>
Google Scholar: <https://scholar.google.com/citations?user=tBs2BVMAAAAJ&hl=en>

Yves Van de Peer <yvpeep@psb.vib-ugent.be>

HongKong MarineBiodiversity

Applications are invited for appointments as Post-doctoral Fellow/Research Associate in The Swire Institute of Marine Science (SWIMS), to commence in September 2018 for one year, with the possibility of renewal.

Applicants should possess a Ph.D. degree in molecular ecology, or other biodiversity related disciplines. They should have a demonstrated publication record of question driven science in the field of marine biodiversity and/or microbiology. They should also have a toolkit comprised of a solid foundation in laboratory experience and computational skills related but not limited to barcoding, metabarcoding, and shotgun sequencing. Applicants should have strong skills in bioinformatics to manage the whole analyses of NGS metabarcoding and shotgun sequencing data. A capacity to perform fieldwork expeditions including the use of SCUBA is beneficial but not essential. The position is paired with a research assistant who will assist the appointee in all research activities.

The appointee will be based at SWIMS (<http://www.swims.hku.hk>) located in the Cape d'Aguilar Marine Reserve on the southeast corner of Hong Kong Island. He/She will combine field work, laboratory work, and analytical power for bioinformatics (provided by the Information Technology Services at HKU) under a newly formed research initiative funded by the Environment and Conservation Fund 'MarineGEO-Hong Kong: Towards an Understanding of Marine Biodiversity and Ecosystem Function'. The primary project will include assessing biodiversity of passive samplers deployed in marine waters around Hong Kong, which includes laboratory work comprising DNA extraction, amplification, and library preparations as well as computational analysis of metabarcoding and shotgun sequencing data.

A highly competitive salary commensurate with qualifications and experience will be offered, in addition to annual leave and medical benefits. Affordable accommodation at the laboratory residence can be arranged by the Institute subject to availability.

Applicants should send a completed application form together with an up-to-date C.V., a cover letter, and contact information of at least two referees to dm-baker@hku.hk. Application forms (341/1111) can be downloaded at <http://www.hr.hku.hk/apptunit/form->

ext.doc. Further particulars can be obtained at <http://-jobs.hku.hk/>. Closes August 1, 2018.

The University thanks applicants for their interest, but advises that only candidates shortlisted for interviews will be notified of the application result.

David M. Baker, Ph.D.

Assistant Professor The Swire Institute of Marine Science School of Biological Sciences The University of Hong Kong Kadoorie Biological Sciences Building Pokfulam Road, Hong Kong, PRC

dmbaker@hku.hk

www.thelifeisotopic.com dmbaker@hku.hk

Madrid BiodiversityEcolEvolution

The Evolution and Conservation Biology research group at Complutense University of Madrid (Spain, www.ucm.es/bcveng) welcomes proposals of postdoctoral researchers who wish to join the Department of Biodiversity, Ecology and Evolution taking advantage of the excellence programme for attracting talent released by the Regional Government of Madrid.

The successful candidate will demonstrate outstanding research performance in any field that fits to our department (not necessarily our own lines), independence and mobility (at least three years of research activity outside Spain). We offer an opportunity for developing independent research lines and for gaining teaching experience.

The deadline to submit applications is July 23, 2018. Applicants are to submit their proposals directly to UCM, but please be aware that they have to be sent to us in advance in order to be accepted by our Department. There are two parallel funding schemes directed to experienced researchers and young postdocs. Further information available at the following sites:

Trained researchers: <http://www.ucm.es/ct60-18>

Young postdocs: <http://www.ucm.es/ct61-18> Prospective applicants should submit a summary of their proposals to Javier Pérez-Tris (jperez@ucm.es) asap and not later than July 18, 2018.

Javier Pérez-Tris Departamento de Biodiversidad, Ecología y Evolución Facultad de Biología - Universidad Complutense de Madrid Tel. (+34) 91394 4949 <http://www.ucm.es/perez-tris> jperez@ucm.es

MaxPlanck EvolBiol MorphometricsMice

A position for an experienced postdoc in the field of morphometrics and quantitative trait analysis in mice is available in the group of Diethard Tautz (Max-Planck Institute for Evolutionary Biology, Department of Evolutionary Genetics, Ploen, Germany). The postdoc will enter a research program focusing on the analysis of the genetic architecture of skeletal traits, especially the genes affecting the shape of the skull and the mandible. Several candidate genes have been identified in previous studies in the lab (e.g. Pallares et al. PLoS Genet. 2015 11:e1005607) and corresponding genetically modified mice are ready for in depth analyses, following general principles laid out in Boell et al. Dev Genes Evol. 2013 223:2 79-287. A special focus is on Mn1, an orphan gene with an apparent major role in the evolution of bony skulls. The department runs a mouse house that harbors a collection of outbred mouse populations from the wild, as well as genetically modified inbred strains.

Qualification: PhD and postdoctoral experience in morphometrics and QTL/GWA analysis, ideally a previous experience with phenotyping mice, as well as genome data analysis. Proven scientific record with first author paper(s) in the discipline.

Salary will be according to the TvöD 13-14 scale (depending on experience), including social benefits and pension scheme. The position is initially for three years, but can be extended.

The Max-Planck Institute for Evolutionary Biology in Ploen has developed in the past years into a major center for basic research on evolutionary topics, ranging from evolutionary genetics, evolutionary ecology, experimental evolution to evolutionary theory. It runs together with the nearby University of Kiel an international graduate program (IMPRS in Evolutionary Biology) and a Master program in Molecular Biology and Evolution. Scientists come from all over the world and the working language is english. Ploen is a small village in a beautiful postglacially shaped landscape with all the amenities of a touristically active area. Two major cities (Kiel and Luebeck) as well as the Baltic Sea are only 30-40min away, Hamburg is about 90min away (all well connected by frequent trains).

Applications should include a CV and a publication list

(including papers in press or submitted), a statement of motivation, as well as two names for obtaining letters of reference. Applications should be sent by email with documents attached as pdf files to Diethard Tautz (tautz@evolbio.mpg.de).

Prof. Dr. Diethard Tautz Max-Planck-Institut fuer Evolutionsbiologie Abteilung Evolutionsgenetik August-Thienemannstrasse 2 24306 Ploen (Germany) Tel.: 04522 763 390 Fax: 04522 763 281 tautz@evolbio.mpg.de <http://www.evolbio.mpg.de/15929/evolutionarygenetics> Diethard Tautz <tautz@evolbio.mpg.de>

MississippiStateU HeliconiusGenomics

We are seeking to hire a postdoctoral fellow to work on the comparative and population genomics of *Heliconius* butterflies. The postdoc is funded by a National Science Foundation EPSCoR award to Mississippi State University and the University of Puerto Rico that seeks to better understand the genomic and developmental changes that drive butterfly wing pattern diversity.

Heliconius are renowned for their remarkable diversity of wing color patterns within and between species. The color patterns serve as warnings to predators of their unpalatability and influence mate preference of several *Heliconius* species. Recently, we narrowed the genomic regions responsible for wing pattern variation in *Heliconius erato* to a about a dozen non-coding regulatory regions on four chromosomes (Van Belleghem et al. 2017). The aims of the postdoc will involve (1) identifying the regulatory sequence and structural variants across the chromosomes associated with color variation (2) characterizing the mode and tempo of evolution at color pattern genes, and (3) reconstructing the evolutionary history of adaptive color pattern divergence among various *Heliconius* races and species. These data are part of a large collaborative effort that combines whole genome data with transcriptomics (RNA-seq), DNA accessibility (ChIP-seq, ATAC-seq) and functional tests (CRISPR) to better understand the evolution and development of wing pattern variation. The position is for two years, with the possibility to extend an additional two years (4 years total). The start date is flexible, but can begin as soon as September 2018.

This postdoc position will be based in the Counterman Lab at Mississippi State University, located in Starkville,

a quaint college town in northeast Mississippi. The postdoc will visit and work closely with collaborating labs, including Federico Hoffmann's lab at MSU, Riccardo Papa's lab at the University of Puerto Rico, Arnaud Martin's lab at George Washington University, Robert Reed's lab at Cornell University, and Owen McMillan's lab at the Smithsonian Tropical Research Institute.

The postdoc will be expected to lead their research project and produce first-author publications, with the mentorship from the project PIs. The postdoc will also be encouraged and supported to develop novel research projects that relate to the goals of the program that could result in intellectually independent work.

Required qualifications: The applicant must have a PhD or equivalent in a biological sciences discipline, a record of scholarly publication, and significant experience working with genomic datasets in a Unix environment.

Preferred qualifications: Strong preference will be given to applicants with any of the following skills: genome assembly, gene family evolution, and population genomic analyses.

The project team is committed to increasing diversity in STEM, and we especially encourage applications from women, minorities, veterans and other underrepresented groups.

Application: Please send a single PDF containing a CV, a statement of research interests, and contact information for three references to Brian Counterman at bcounterman@biology.msstate.edu with "Postdoc:HeliconiusGenomics" in the subject line. Applications will be reviewed until the position is filled. Salary will be determined based on experience level.

Brian A. Counterman Associate Professor Department of Biological Sciences Mississippi State University

bcounterman@biology.msstate.edu

www.countermanlab.org bc650@igbb.msstate.edu

NorthCarolinaStateU AppliedEvolModeling

Postdoc: Modeling Gene Drive and Evolution of Insecticide Resistance in Mosquitoes

OVERVIEW: We recently received funding from NIH for a project titled "Combining *Aedes aegypti* genomics and modeling to improve gene drive strategies and our understanding of insecticide resistance evolution". *Aedes*

aegypti is the primary vector of dengue, Zika, chikungunya, and urban yellow-fever. This project will fund two postdocs; one who will do the genomics and bioinformatics (individual already identified), and a second to work on the modeling aspects (this position).

PROJECT DESCRIPTION: Although the idea of using selfish genetic elements to drive specific transgenes into populations was proposed over 40 years ago, it is only recently with the advent of CRISPR-based gene editing technology that this approach has gained broad attention from researchers and the news media.

The most straightforward approaches for building gene drives using CRISPR/Cas9 technologies are theoretically expected to result in spread of the gene drive to individuals in all populations that are connected by even minimal gene flow. These approaches are appropriate in some cases, but detailed mathematical models are needed to understand the dynamics of spread and the potential for resistance evolving to the gene drive mechanisms. More complex approaches have been proposed for developing gene drives that are spatial and/or temporally limited. More novel molecular approaches accompanied by modeling are needed for development of these limited gene drives.

We have funding from the NIH to build mathematical models aimed at assisting the design and deployment of gene drives for suppressing or altering the characteristics of *Aedes aegypti*, the main vector of dengue virus that impacts over 100 million people a year. *Ae. aegypti* has substantial fine scale population structure but detailed parameter estimates are lacking. Other work within the project is focused on accurately estimating these parameters through genomic approaches.

We currently have a detailed model that simulates the population dynamics and population genetics of *Ae. aegypti* in a city on the Amazon river, Iquitos, for which there are rich data sets on both mosquito dynamics and dengue epidemiology. The first main goal of our NIH grant will be to incorporate the parameter values from the genomic analysis into the detailed model, and to use the model for assessing the expected performance of a variety of gene drive mechanisms in Iquitos and similar cities.

Insecticides have been used to suppress *Ae. aegypti* in Iquitos since 2001. The mosquitoes have responded by evolving resistance. We are fortunate to have samples of *Ae. aegypti* from the year 2001 to the present and have already begun molecular analysis of signatures of selection. The second main goal of our NIH grant is to use the detailed mathematical model to evaluate hypotheses about the spatial and temporal dynamics of insecticide resistance evolution that involves multiple

genes. This work will break new ground in efforts to control the evolution of insecticide resistance and will also be informative about the spread of resistance to gene drives.

JOB DESCRIPTION: The postdoc in this position will lead modeling efforts to achieve both of the project goals. In addition to working with our detailed model, the postdoc will have the option of developing more general models to evaluate novel approaches to spatially/temporally limited gene drives and examine impacts of specific gene drives on dengue virus epidemiology. Our project is strengthened by collaborations with a number of labs in the US and in Peru. The postdoc will interact with members of these other research groups. There will be an opportunity for some work in Peru. The initial appointment is for two-years with the potential for extension beyond that period.

QUALIFICATIONS: We are looking for a postdoc with a solid background in population biology and population genetics who has experience with modeling and who wants to do applied research. Experience with C++ or related languages is desirable. Ability to work independently and as a member of a team is essential.

TO APPLY: email a cover letter and CV to Fred.Gould@ncsu.edu AND Alun Lloyd@ncsu.edu

“fgould@ncsu.edu” <fgould@ncsu.edu>

OregonStateU SalmonDomesticationSelection

Position Summary: Candidate will work with Michael Blouin's lab (<http://people.oregonstate.edu/~blouinm/>) to identify the behavioral, physiological, or other traits associated with domestication (adaptation to hatchery culture) in salmonid fish. The long-term goal of the work is to identify ways in which hatchery culture could be changed to reduce the intensity of domestication selection. A background in fish behavior and physiology, and with an evolutionary focus, would be most desirable. Experience designing behavior trials would be an asset. We are looking for a creative, well-read person who can bring new ideas to this question, in addition to executing current projects. This research is funded by the Bonneville Power Administration, and by the Oregon Department of Fisheries and Wildlife (ODFW) through the Oregon Hatchery Research Center (a joint venture between OSU and the ODFW: <https://olis.leg.state.or.us/liz/2015R1/-Downloads/CommitteeMeetingDocument/76849>). Can-

didate will have access to facilities at the OHRC, and to production hatcheries run by the ODFW. The intellectual environment at OSU includes colleagues in ODFW and in the departments of Integrative Biology and of Fisheries and Wildlife at OSU. This is a full-time (1.0 FTE), 12-month, fixed-term Postdoctoral Research Scholar position, renewable yearly. The position is available starting November 1st, 2018.

Mentors and Affiliations: Michael Blouin, Department of Integrative Biology, College of Science, Oregon State University

Open Date: Now Close Date: Until filled. Start date: Any time after November 1st, 2018.

Required qualifications and experience: PhD in relevant field. Good quantitative skills, including experimental design Excellent written and verbal communication skills are critical, as the candidate will need to work in a research team and closely with agency staff at hatcheries. Must be within 5 years of PhD to qualify for the postdoctoral research scholar position. A more experienced candidate could be hired under a different position, so don't hesitate to inquire if that is your situation.

Preferred Qualifications and Experience: A background in fish behavior and physiology, and in evolution (background in quantitative genetics would be very desirable) Experience working with salmon Experience with hatcheries Demonstrated ability to publish their work

Information and Application: For more information or to apply, contact Michael Blouin at blouinm@science.oregonstate.edu, and include "hatchery postdoc position" in the title of your email. To apply, please send to Mike a cover letter describing your background and interests, and why you are interested in this position. Also include a curriculum vitae that includes the names of at least three professional references, their email addresses and telephone contact numbers. I will consider inquiries until the position is filled. The position could start as early as November 1st, 2018.

Michael Blouin Dept. Integrative Biology, Oregon State University Corvallis, OR 97331-2914 <http://oregonstate.edu/~blouinm/> Tel: 541-737-2362 Fax: 541-737-0501

Michael Blouin <blouinm@science.oregonstate.edu>

PurdueU AlgalEvolGenomics

Postdoctoral position on Genomics and Eco-Evolutionary Dynamics of Toxic Algal Blooms

An NSF-funded postdoctoral position is available in the lab of Jennifer Wisecaver at Purdue University to study the eco-evolutionary genomics of toxin production in mixotrophic algae. Both the frequency and magnitude of toxic algal blooms are increasing across the globe, yet the genes and pathways responsible for toxin production as well as the ecological and evolutionary drivers of bloom events are poorly understood. Much of the prior genetic and biochemical investigations of bloom-forming species have been limited to analyses of laboratory isolates maintained as monocultures despite growing awareness that algal blooms are diverse assemblages. Thus, there is a critical need to quantify the genetic and toxic diversity present in bloom events as well as understand how this diversity is maintained in nature and impacts bloom cycling. The objective of the project is to determine the functional significance, in terms of both toxin production and bloom cycling, of the biodiversity present in toxic algal blooms. We will focus on the golden algae *Prymnesium parvum* (Haptophyceae), an invasive species responsible for ecosystem disruptive toxic bloom events, causing devastating fish kills in brackish, inland waters of the United States.

Research activities for a postdoc on this project may include (but are not limited to): phenotypic characterization and whole genome sequencing of diverse *Prymnesium* strains, analysis of nucleotide and structural variation across these strains, culture-based abiotic and biotic stress experiments, co-expression network analysis to predict gene function, evolutionary analysis of gene families and integration of these results with gene expression networks and phenotypic data. To accomplish these tasks, the lab is seeking a highly motivated, creative individual with some combined experience in computational, evolutionary, and/or population genomics.

Dr. Wisecaver is committed to increasing STEM participation across all measures of diversity, fostering a positive and collaborative lab environment, and acting as a mentor and facilitator to enable the career success of all lab members. A postdoc in the Wisecaver lab would be a welcome member of a vibrant community of scientists in the Department of Biochemistry and the Center for Plant Biology at Purdue. In addition, a

postdoc would have access to world-class research facilities, most notably the Bindley Bioscience Center and the Rosen Center for Advanced Computing Community Cluster Program.

If you are interested in joining the lab, please send an email to Jen Wisecaver (jwisecav@purdue.edu) with a statement of research interests, CV, and the names and contact information for at least two references.

Evaluations of applicants will begin August 1, 2018 and continue until the position is filled.

Jennifer H. Wisecaver Assistant Professor Department of Biochemistry Center for Plant Biology Purdue University Ph: 1-765-494-4157 jwisecav@purdue.edu www.wisecaverlab.com “Wisecaver, Jennifer H” <jwisecav@purdue.edu>

PurdueU PlantEvolGenomics

Postdoctoral position on plant functional and evolutionary genomics

A postdoctoral position is available in the lab of Jennifer Wisecaver at Purdue University to study the genomic basis of metabolic innovation in plants. The lab uses network biology & functional genomics to identify the genes responsible for making specialized metabolites as well as comparative genomics & phylogenetics to untangle the genes' evolutionary histories. Questions we ask include: What are the relative contributions of innovative processes such as gene duplication, gene loss, polyploidization, and genome rearrangement in the origin and diversification of metabolic pathways? What is the speed and importance of gene innovation at the regulatory versus enzymatic level? How does the impact of these processes vary across environments and between lineages?

The lab has funding to study genes involved in herbivory defense and other specialized metabolic pathways in *Setaria viridis*, green foxtail, and other wild members of the genus. Research activities for a postdoc on this project would include (but are not limited to): performing plant abiotic and biotic stress experiments, preparing samples for high-throughput sequencing, developing and deploying bioinformatic pipelines to predict gene function, developing new analytical visualization methods of these data, evolutionary analyses of gene families and integration of these results with gene expression network modeling and phenotypic data. To accomplish these

tasks, the lab is seeking a highly motivated, creative individual with strong computational and evolutionary genetics skills.

Dr. Wisecaver is committed to increasing STEM participation across all measures of diversity, fostering an encouraging and collaborative lab environment, and acting as a mentor and facilitator to enable the career success of all lab members. A postdoc in the Wisecaver lab would be a welcome member of a vibrant community of scientists in the Department of Biochemistry and the Center for Plant Biology at Purdue. In addition, a postdoc would have access to world-class research facilities, most notably the Bindley Bioscience Center and the Rosen Center for Advanced Computing Community Cluster Program.

If you are interested in joining the lab, please send an email to Jen Wisecaver (jwisecav@purdue.edu) with a statement of research interests, CV, and the names and contact information for at least two references.

Evaluations of applicants will begin July 15, 2018 and continue until the position is filled.

Jennifer H. Wisecaver Assistant Professor Department of Biochemistry Center for Plant Biology Purdue University Ph: 1-765-494-4157 jwisecav@purdue.edu www.wisecaverlab.com “Wisecaver, Jennifer H” <jwisecav@purdue.edu>

RutgersU EvolutionaryGenomics

A postdoctoral position in evolutionary genomics is available in the Ellison Laboratory (www.ellisonlab.website) in the Department of Genetics at Rutgers University. The position involves using Hi-C data along with comparative genomic approaches to study the evolution of 3D genome organization in *Drosophila*. Candidates should have a PhD in a biology-related field, experience with genomic analysis in Unix/Linux environments, and proficiency in Python and/or Perl. The position is primarily computational although there are opportunities for wet lab work. Previous experience working with *Drosophila* is beneficial but not necessary. The start date is flexible and salary will be determined based on the NIH pay scale.

Rutgers-New Brunswick is a leading national research university and the preeminent public institution of higher education in the state of New Jersey. The campus offers a vibrant and diverse research community and is

close to New York City and Philadelphia.

Interested applicants should send a CV and a brief statement of research interests to ellison.laboratory@gmail.com

Ellison Laboratory <ellison.laboratory@gmail.com>

Seoul Korea VirusEvolution

A postdoctoral position is available in a NRF(National Research Foundation of Korea)-funded project jointly performed by Seoul National University (School of Medicine) and Ewha Womans University in Seoul, Korea. We are seeking candidates with solid theoretical understanding and bioinformatics skills in statistical phylogenetic analysis, which will be used to analyze molecular evolution of avian and human influenza viruses. Knowledge of advanced population genetics will be appreciated but not required. Basic questions addressed in the project include whether influenza viruses in different animal hosts experience different selective and mutational environments and how the nature of virus evolution is different in avian versus human hosts. Statistical analysis will involve the estimation of evolutionary parameters (rate and direction of migration/transmission, effective population size, mutation rate, reassortment rate, selection strength) in actual and simulated viral data, preferably using Bayesian phylogenetic inference. Further information about the project can be obtained upon request (see below for contact). A proposal of closely related project will also be welcomed.

A successful candidate will be affiliated in the School of Medicine at Seoul National University (PI: Prof. Hang-Rae Kim) but work closely with Prof. Yuseob Kim of Ewha Womans University, who is an expert of theoretical population genetics with recent focus on influenza viruses as an excellent system to test and advance the models of adaptive evolution. The main responsibilities include conducting research and documenting results for publication. Minimum qualification required at the time of application is PhD degree (or completion of all requirements for PhD) in relevant fields and the record of scientific productivity and publication. To apply, send your CV and short research interest to Yuseob Kim (yuseob@ewha.ac.kr). Letters of reference are not required at this time. We will seek your permission before contacting references. The anticipated start date is October 2018. Informal inquiry is encouraged to find out working condition, salary, living in Seoul and so on.

Application will be open until September 10, 2018.

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SimonFraserU PollinationBiodiversity

With Elizabeth Elle and Leithen M'Gonigle, Dept. of Biological Sciences, Simon Fraser University, British Columbia, Canada

We are looking for a postdoctoral researcher to collaborate with us on analyzing existing (and possibly new) data on plant-pollinator interactions in both natural landscapes and agroecosystems. There is substantial freedom for motivated individuals to design the direction of the work, depending on skills and interests.

Individuals with experience researching pollination and/or with strong skills in some combination of modeling, spatial analysis, and/or interaction network analysis, are encouraged to apply. Taxonomic knowledge of both pollinators and plants is a plus. The successful applicant will primarily collaborate on analysis and publication using existing datasets, but collection of new data (especially to fill gaps) is possible. The position is expected to be available for two years.

Simon Fraser University is in the Greater Vancouver region of British Columbia. The Department of Biological Sciences has research strength in ecology and evolution to provide an intellectual home for the successful candidate (<http://www.biology.sfu.ca/>)

To apply, please send a letter of application, curriculum vitae, and contact information for three references by email to Elizabeth Elle [elizabeth.elle@sfu.ca] and Leithen M'Gonigle [lmgonigl@sfu.ca]. Review of applications will begin in August and continue until a suitable candidate is identified. Start date is anticipated to be ~ January 2019. Salary and benefits will be competitive with NSERC postdoctoral fellowships.

Leithen K. M'Gonigle Assistant Professor Department of Biological Sciences Simon Fraser University 8888 University Drive Burnaby, BC, Canada, V5A 1S6 <http://www.sfu.ca/~lmgonigl/> Leithen <lmgonigl@sfu.ca>

StJohnsU NewYork PlantEvoDevo

Postdoctoral Research Position, St. John's University

Come join our lab working on Plant Evolution of Development! An NSF-funded postdoctoral position is available in the Howarth laboratory at St. John's University in the evo-devo project: "Transitions and transcriptomics: a novel approach to understanding shifts in floral developmental pathways preceding the origin of the Pentapetalae." This project is in collaboration with Andre Chanderbali, Pam Soltis, and Doug Soltis at the University of Florida. We are examining the genomic, developmental, and morphological changes that occurred around the gamma genome duplication event that accompanies the evolution of the core eudicots. The project will entail gene expression analyses of candidate genes that may have been involved in the transition to whorled, 5-merous flowers as well as bioinformatic analyses of genomic data.

Strong candidates will have a Ph.D. in developmental biology, plant biology, evolution, or related fields, and have demonstrated experience with standard molecular biology techniques. Candidates must have experience with or an enthusiastic willingness to learn developmental techniques, especially in situ hybridization.

Funding is available for at least one year. Review of applications will begin immediately and continue until the position is filled. The target start date is approximately September 2018. Please submit a letter of interest, CV, and contact information for three references to howarthd@stjohns.edu.

St. John's University is an equal opportunity employer located in Queens, NY. Women and minorities are encouraged to apply. For further information, please contact Dr. Dianella Howarth via email at howarthd@stjohns.edu, via mail at St. Albert Hall, Room 257, St. John's University, 8000 Utopia Parkway, Queens, NY 11439.

Dianella Howarth <howarthd@stjohns.edu>

**SwedishU
SalmonidParasiteGenomics**

Postdoctoral position on genomics of parasitic disease in salmonid fish

A postdoctoral position is available to study the genomics of parasitic disease in salmonid fish by joining the research group of Prof. Anti Vasmägi at the Institute of Freshwater Research, Department of Aquatic Resources, Swedish University of Agricultural Sciences. Research in the Vasmägi group focuses on understanding the relationships between genotype and phenotype, genetic basis of adaptation and how contemporary natural- and human-induced selection works on ecological time-scales.

The project builds on our previous work on host-parasite interactions and impact of proliferative kidney disease (PKD), which can cause high mortality both in wild and hatchery reared salmonid populations. This project aims to shed light on the spread, prevalence, connectivity and impact of the emerging temperature-dependent disease on anadromous salmonids in the Baltic Sea.

Duties: The position is one of three exciting postdoctoral positions in advanced ecology and genomics initiated at the same time at the Department. You will be part of our team working with molecular ecology and population genomics of aquatic organisms. You will carry out laboratory work, bioinformatic and population genetic analyses to characterize the spread, prevalence and connectivity of *T. bryosalmonae*, and impact of PKD. The principal responsibilities include phenotyping, sample collection, DNA extraction, library preparation, analyses of next-generation sequencing data, genotyping-by-sequencing, writing manuscripts and keeping detailed notes and logs of the analyses.

Qualifications: We are looking for a highly motivated candidate with a PhD degree in evolutionary biology, genomics, bioinformatics, or similar field. Suitable applicants have a strong background in next generation sequencing data analysis, transcriptomics, population genomics and/or host-parasite interactions as demonstrated by publications in relevant fields. Candidates should be familiar with one or more programming languages (such as Python, Perl, or R). Excellent communication skills in both oral and written English are expected. Candidates should be able to work both independently and as part of a collaborative team.

Place of work: Drottningholm, Sweden. Form of employment: Fixed term employment of 2 years. Extent: 100%. Starting date: By agreement; the position is immediately available. Application: Please submit your application electronically no later than 2018-08-28. For further information, please visit <https://www.slu.se/en/about-slu/jobs-vacancies/?rmpage=job&rmjob=1202&rmlang=UK> Applications must contain (1) CV and copy of PhD diploma, (2) statement of scientific interests and motivation for applying to this position, (3) description of research experience and other activities of relevance for the position, as well as (4) contact information of at least two references.

Department of Aquatic Resources The Department of Aquatic Resources (www.slu.se/aquaticresources) produces key knowledge in limnic, brackish-water and marine ecology, with a focus on fish and shellfish. We conduct research, education, environmental monitoring and assessment, and provide biological advice to promote sustainable use of aquatic resources. The department has more than 180 employees at three divisions: located outside Gothenburg (Lysekil), Uppsala (Åregrund) and Stockholm (Drottningholm) and at four field stations. Our combination of science and management advice, from local to international scale, provides a vibrant environment for applied research and education.

The Swedish University of Agricultural Sciences (SLU) develops the understanding and sustainable use and management of biological natural resources. SLU is a research-intensive university that also offers unique degree programmes in for example rural development and natural resource management, environmental economics, animal science and landscape architecture. SLU has just over 3,000 employees, 5,000 students and a turnover of SEK 3 billion. The university has invested heavily in a modern, attractive environment on its campuses in Alnarp, Umeå and Uppsala.

Contact person Prof. Anti Vasemägi Swedish University of Agricultural Sciences Institute of Freshwater Research / Department of Aquatic Resources Stångholmsvägen 2 17893 DROTTNINGHOLM, Sweden Phone: +46(0)10 4784277 anti.vasemagi@slu.se

Relevant articles: Ahmad F, Debes PV, Palomar G, Vasemägi A (2018) Association mapping reveals candidate loci for resistance and anemic response to an emerging temperature-driven parasitic disease in a wild salmonid fish. *Molecular Ecology*, 27(6):1385-1401.

Debes PV, Gross R, Vasemägi A (2017) Quantitative genetic

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

TelAvivU FloralDiversity

I am recruiting post-doctoral fellow through the Zuckerman STEM Leadership Program for outstanding USA or Canada citizens (<http://zuckerman-scholars.org/>). The scholarship is for two years with option for one year extension. Zuckerman Postdoctoral Scholars receive a scholarship of \$50,000 per academic year, with \$36,000 each year for living expenses and \$14,000 each year for research (\$10,000) and travel (\$4,000) expenses.

The research subject is drivers and consequences of floral diversity, from the genetic basis of floral traits to pollination networks. Specific study system and research question are open to discussion, and should fit to the candidate's skills and interests.

The lab of plant evolutionary ecology is part of School of Plant Sciences and Food Security in Tel Aviv University, and is located in the Botanical Garden. Major research projects in the lab include: molecular basis and evolution of floral colour variation in irises, ecological speciation in irises, adaptation and evolution of plants along climate gradients, conservation biology, and plant mating systems.

Tel Aviv is coastal city with an excellent beaches, and is highly liberal, vibrant and international. Israel is small enough to travel from Tel Aviv to either mountains or desert (or desert mountains) in only a couple of hours drive. Israel flora is among the most diverse ones outside the tropics, with about 3,000 species in an area of 1/6 of the state of Indiana.

Candidates must be citizens of United States or Canada, or have a documented status that allows them to study and work in the US. Candidates must hold a Ph.D. degree from a premier university, or if still studying for a Ph.D., must submit their Ph.D. thesis before October 1, 2018. Interested candidates should send a CV and a cover letter including brief ideas for research and names of at least two referees to sapiry@post.tau.ac.il. Applications are considered when received, but should be submitted before 1 October 2018.

– Yuval Sapir, PhD The Botanical Garden School of Plant Sciences and Food Security Tel-Aviv University, Tel Aviv, 69978 Israel Tl: +972(0)3-

6407354 (lab); +972(0)54-7203140 (mobile) <http://botanic.tau.ac.il/> <http://labsapir.wix.com/labsapir> yuval sapir <sapiryuval@gmail.com>

TempleU MolecularDating

Postdoctoral Position (Molecular dating and timetrees)

A postdoctoral position is available in my laboratory at Temple University in Philadelphia, USA. The focus of the position will be on developing and evaluating Bayesian and RelTime approaches for estimating divergence times from multigene and genome-scale datasets. I also encourage empirical analysis of available large molecular datasets, as well as development of tools for estimating divergence times.

Applicants should submit their detailed curriculum vitae and a summary of research interests by e-mail to s.kumar@temple.edu (send a single PDF file). Our recent publications online can be accessed at <http://www.kumarlab.net>. The position is available immediately, so apply as soon as you are ready. An additional position is available to start in January 2019, so you are welcome to apply for that, if suitable.

Sudhir Kumar s.kumar@temple.edu www.kumarlab.net
"s.kumar@temple.edu" <s.kumar@temple.edu>

UArizona AncientEpidemics

A postdoctoral research position is available to work in the Department of Ecology and Evolutionary Biology at the University of Arizona (Tucson, AZ, USA) with Dr. David Enard (@DavidEnard) on the population genomics of adaptation, with a particular focus on ancient epidemics through the lens of adaptation in host genomes. The postdoctoral researcher will have the opportunity to work on the detection and dating of ancient epidemics in human evolution by analyzing present and ancient genomes. The study of ancient epidemics will not be limited to humans and funds are available to sequence hundreds of primate, bat and other vertebrate genomes with interesting evolutionary arms races with multiple pathogens. Computational analyses will involve population genetics modeling, empirical testing and ma-

chine learning, and will be supported by access to a minimum of 196 computing cores. Specific projects of interest will include (but will not limited to) the detection and dating of ancient viral epidemics in modern human populations, the quantification of adaptive introgression between archaic and modern humans driven by different pathogens (see for example <https://www.biorxiv.org/content/early/2017/03/24/120477>), or the ecological determinants of adaptation against viruses across a phylogeny of 80 distinct bat species. The postdoc will also have ample freedom to develop her/his/their own related interests and analyses.

The position is for 3 years with a reappointment every year based on satisfactory performance. The proposed salary is substantially above the NIH stipend at \$55,000 per year. Start date can be as early as September 2018. Review of applications will begin immediately and will continue until the position is filled.

Desired qualifications include experience in population genetics and molecular evolution, and experience with statistical analysis and modeling. Experience in coding with python/perl and R are particularly welcome. Applicants must have a PhD in Biology or a related quantitative field at the time of the start of the postdoctoral position.

To apply, please submit a cover letter/statement of interest (max two pages), a curriculum vitae, and contact information for two references including the PhD advisor to David Enard at davidenard@gmail.com. Feel free to first send informal inquiries to David Enard for more information at davidenard@gmail.com.

US News & World Report recently ranked the EEB department at University of Arizona in the USA top 10. University of Arizona has a vibrant community of both American and international postdocs. Tucson, with almost a million people, is remarkably affordable and is surrounded by the breathtaking Sonoran Desert, also known as the desert in the world with the highest biodiversity. Tucson is close to multiple national and state parks. Nearby mountain ranges also diversify the surroundings with alpine environments. In addition, Tucson has recently been designated by UNESCO as World City of Gastronomy in recognition of the Sonoran cuisine.

"denard@stanford.edu" <denard@stanford.edu>

UArizona OncogenicVirusEvolution

UArizona.OncogenicVirusEvolution

The School of Animal and Comparative Biomedical Sciences is currently seeking a motivated candidate for the position of Postdoctoral Research Associate. The successful candidate will design research studies in collaboration with physicians, life scientists, or other professionals, focused broadly on interactions between human papillomaviruses (HPVs) and host tissues. Specifically, the candidate should have working knowledge of proteomics and genomics methodology and analysis, molecular biology (including DNA cloning).

It is improbable that the ability to cause cancer provides papillomaviruses with an evolutionary advantage. It is likely that many of the viral functions linked to oncogenesis were evolutionarily beneficial as papillomavirus adapted to novel environmental niches on the host (e.g. external genitalia vs. cervix). Papillomaviruses have evolved to usurp the cellular machinery to complete their life-cycle. The papillomaviral lifecycle perturbs the normal differentiation cycle of the infected cell, forcing cells to divide far beyond their normal lifespan. It is feasible that the continued insult provided by replicating viruses eventually results in malignant transformation of the infected cell. However, while persistent infection is key to viral oncogenesis, many long-term persisting viruses do not cause cancer. By carefully interrogating the differences between these viruses, We believe it will be possible to elucidate which viral phenotypes are associated with oncogenic progression. The pathways targeted by these viruses may represent powerful targets for therapeutic intervention. The successful candidate will be encouraged to develop their own projects and scientific direction. More information on the lab can be found at www.vandoorslaer.info The ideal candidate has some or all of these skills *Excellent communication and writing skills. *Experience in (single cell) -omics or primary cell culture. *Experience with evolutionary trait analysis *Working knowledge of single cell genomic approaches. *Knowledge and skills to participate in inventories and supplies requisition efforts. *Ph.D. (Evolution, Microbiology, Cellular Biology, or related field) *Minimum of 4 of experience in a related field.

Prior experience performing scientific data collection and experiments, compiling data and writing project summaries.

To apply please visit <http://uacareers.com/postings/-30733> . Outstanding UA benefits include health, dental, vision, and life insurance; paid vacation, sick leave, and holidays; UA/ASU/NAU tuition reduction for the employee and qualified family members; access to UA recreation and cultural activities; and more!

The University of Arizona has been recognized on Forbes 2015 list of America's Best Employers in the United States and has been awarded the 2015 Work-Life Seal of Distinction by the Alliance for Work-Life Progress!

“Van Doorslaer, Koenraad M - (vandoorslaer)”
<vandoorslaer@email.arizona.edu>

UArizona SimpsonFellow

A postdoctoral position, supported by the G.G. Simpson Postdoctoral Fellowship, is available in the Duckworth lab at the Department of Ecology and Evolutionary Biology at the University of Arizona. This position was established to honor Prof. G.G. Simpson's work at the Department and provides a unique opportunity for a productive and creative scientist to work on fundamental problems in evolutionary biology of their own choosing within the broad framework of the lab's current projects (see www.u.arizona.edu/~rad3/). Of particular priority are candidates interested in collaboration on one of the ongoing projects below, each offering opportunities for original experimental, integrative, and analytical studies:

1. Mechanisms of adaptive introgression of *Sialia* bluebirds across diverse ecological contexts. Requires expertise in population genomic analyses.
2. Neuroendocrine basis of adaptive stress-induced maternal effects. Requires expertise in one or more of the following: immunohistochemistry, histology, vertebrate neuroanatomy.
3. Ecological dynamics and evolutionary feedbacks. Requires expertise in one or more of the following: quantitative genetic animal models, population growth models, eco-evolutionary feedback analyses

Projects capitalize on long-term multi-generational datasets from the lab's ongoing studies of bluebird populations. There are also opportunities to participate in field research for projects that require additional data collection and/or field experiments.

The position comes with a salary of \$47,659 per academic year with full benefits, an additional research allowance of \$5,000, and is renewable for up to two

years.

The start date is flexible, but anticipated to be in Fall 2018 or when the suitable candidate is identified. Candidates should apply online at: <http://uacareers.com/-postings/29780> submitting 1) cover letter outlining proposed research and potential projects for collaborations, 2) a description of research experience (2 pages max), 3) CV with the contacts of three references, and 4) reprints of three most significant publications combined in a single file. Review of applications will begin 7 July 2018 and continue until the position is filled.

Questions regarding the search may be sent to Renee Duckworth: rad3@email.arizona.edu

“rad3@email.arizona.edu” <rad3@email.arizona.edu>

UCalgary ConiferAdaptation

Postdoctoral position: Genomics of adaptation to climate and fungal pathogens in conifers (CoAdapTree)

Yeaman Lab

Department of Biological Sciences, University of Calgary

The Yeaman lab is looking to hire a postdoctoral researcher to work on a large project focusing on the genomics of adaptation to climate and fungal pathogens in conifers, which has been funded by Genome Canada (CoAdapTree). The broad aim is to extend previous work comparing adaptation to climate in pine and spruce, to add three more species (Douglas-fir, western larch, and jack pine) and also examine resistance/tolerance to fungal pathogens. The main task associated with the position will be to apply GWAS methods to search for the genes driving adaptive trait variation, so excellent bioinformatic skills will be critical. The study design employs some complex and extensive sampling, with a combination of pool-seq and sequence capture to maximize depth of coverage across as many populations as possible, so inventive and creative solutions to analysis will also be required. The project involves several labs in different universities, so collaboration and occasional travel will be important components too, and there should be plenty of room for flexibility and side projects. Most sequence data will be generated by the end of 2018.

The position will run for 2+ years (CAD \$50k salary + benefits).

TO APPLY: Please send a CV and a short description

of your interest in the position and any relevant research experience to samuel.yeaman@ucalgary.ca, along with the names and emails of three people I could contact for reference letters. I will begin reviewing applications on August 1st, 2018, but please contact me to check in if you need to make a quick decision.

“yeaman@zoology.ubc.ca” <yeaman@zoology.ubc.ca>

UCalifornia Berkeley DiseaseEvolution

Description: From infectious disease ecology, we know that the magnitude of vertical (from parent to offspring) vs. horizontal (among unrelated individuals) transmission can predict pathogen virulence (the harm caused to the host) and the strength of selection for host resistance or tolerance against pathogens. Despite this, there has been little focus on how transmission of microbiota occurs, is maintained, and impacts upon (co)evolution. This is especially true in the plant literature, despite decades of evidence for a role of plant-associated microbiota in shaping plant health. An idea that has been gaining traction in recent years is that interrupted vertical transmission (for example through C-section delivery and antibiotic use in infancy) can lead to irreversible change and/or loss of human microbiome diversity over time. We are seeking to extend this concept to the plant microbiome, where common agricultural practices such as seed treatment, tillage, crop rotation, and chemical antimicrobials almost certainly result in disrupted microbiome transmission and could therefore have similar short and long-term impacts on the host-microbiome association.

We are seeking a postdoctoral researcher to lead an NSF-funded project exploring the importance of microbiome transmission mode in shaping adaptation and community assembly. The work will take place in the laboratory of Dr. Britt Koskella, at UC Berkeley, and will be in collaboration with Profs Steven Lindow (UC Berkeley, Plant and Microbial Biology) and Jessica Metcalf (Princeton). The project will include a combination of experimental evolution and bacterial/fungal community profiling/“omics” approaches, using tomato plants as a model system.

Responsibilities: Responsibilities include microbiological culturing, plant inoculations, extraction and analysis of both amplicon and metagenomic data sets, statistical analyses, and preparation of manuscripts for publica-

tion. There also exists ample opportunity to design and implement additional projects of mutual interest.

Minimum/Basic Qualifications Required (At the time of application): Candidates must have completed all degree requirements except the dissertation or be enrolled in an accredited Ph.D. or equivalent international degree program

Additional Required Qualifications (By start date): Ph.D. or equivalent international degree with a track record of publication in peer-reviewed journals.

Preferred Qualifications (By start date): Preference will be given to applicants with experience in bioinformatics, microbial ecology, molecular biology, statistics, and/or disease ecology, as well as excellent writing and communication skills.

Appointment: This position reports to Dr. Britt Koskella. The initial appointment will be at 100% time for one year with the possibility of extension for up to 3 years based on satisfactory performance. The approximate start date of this position will be September 2018, although a later start date could be negotiated for the right candidate.

Salary: \$49,188-V \$59,736 depending on qualifications. This position provides full postdoctoral scholar benefits.

To Apply: <https://aprecruit.berkeley.edu/apply/-JPF01841> Interested individuals should submit application documents as PDFs, which includes, an updated curriculum vitae (required), and names with contact information for 3-5 individuals who have agreed to provide a reference for this specific position (required) and a cover letter (required). (Letters of reference may be requested of the finalists).

Specific questions regarding the recruitment can be directed to Terri Leong, HR Partner, terri.leong@berkeley.edu

Next review date: August 15th, 2018 Apply by this date to ensure full consideration by the committee. Final date: September 30th, 2018 Applications will continue to be accepted until this date, but those received after the review date will only be considered if the position has not yet been filled.

Britt Koskella <bkoskella@berkeley.edu>

UCalifornia Berkeley HumanEvolGenetics

Recruitment Period

Open date: April 17th, 2018 Next review date: July 6th, 2018

Apply by this date to ensure full consideration by the committee. Final date: July 6th, 2018

Applications will continue to be accepted until this date, but those received after the review date will only be considered if the position has not yet been filled.

Description

Description:

The Moorjani Lab (<https://moorjanilab.org/>) at University of California, Berkeley has a post-doctoral position available for motivated candidates with background in statistical population genetics and/or data science.

Our lab focuses on using statistical and computational approaches to study questions in human genetics and evolutionary biology. 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 biology. 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.

Minimum/Basic Qualifications required at the time of application:

- Completion of all doctoral degree requirements ex-

cept the dissertation in genetics, computational biology, biostatistics, population genetics or related fields.

Additional Qualifications (required by start date):

- PhD or equivalent degree in genetics, computational biology, biostatistics, population genetics or a related field.
- Knowledge of statistics and population genetics theory.
- Demonstrated record of research productivity and publications.
- Programming experience (e.g. C/C++, Python/ Perl, R or other programming languages)

Preferred Qualifications:

Experience with large-scale genomic data analysis.

Salary: This is a full-time position. Salary is commensurate with qualifications and experience.

How to apply:

To apply, please go to the following link: <http://apptrkr.com/1205272> Applicants should submit the following materials:

- A cover letter
- A curriculum vitae
- Statement of Research (One-page summary of research interests)
- Contact information for 3 references

Letters of reference are not required at this time. We will seek your permission before contacting your references. All letters will be treated as confidential per University of California policy and California state law. Please refer potential referees, including when letters are provided via a third party (i.e., dossier service or career center), to the UC Berkeley statement of confidentiality: <http://apo.berkeley.edu/evalltr.html> . This position will be open until filled. The anticipated start date is June 2018. The appointment is for a duration of one year with the possibility of annual renewal up to three years. Please address inquiries to Maria Ruiz, maruiz@berkeley.edu.

The University of California is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age or protected veteran status. For the complete University of California nondiscrimination and affirmative action policy see: <http://policy.ucop.edu/doc/4000376/-NondiscrimAffirmAct> . Job location

Berkeley, CA

Requirements

Documents

-

Curriculum Vitae - Your most recently updated C.V.

-

Cover Letter

-

Statement of Research - One-page summary of research interests

References 3 references required (contact information only)

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Jessica Godoy <jessica@jobelephant.com> Jessica Godoy <jessica@jobelephant.com>

UCalifornia Berkeley StatPopGenetics

Recruitment Period Open date: April 17th, 2018 Next review date: August 8th, 2018 Apply by this date to ensure full consideration by the committee. Final date: August 8th, 2018 Applications will continue to be accepted until this date, but those received after the review date will only be considered if the position has not yet been filled.

Description Description: The Moorjani Lab (<https://moorjanilab.org/>) at University of California, Berkeley has a post-doctoral position available for motivated candidates with background in statistical population genetics and/or data science.

Our lab focuses on using statistical and computational approaches to study questions in human genetics and evolutionary biology. 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 biology. 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.

Minimum/Basic Qualifications required at the time of application: - Completion of all doctoral degree requirements except the dissertation in genetics, computational biology, biostatistics, population genetics or related fields.

Additional Qualifications (required by start date): - PhD or equivalent degree in genetics, computational biology, biostatistics, population genetics or a related field.

- Knowledge of statistics and population genetics theory.
- Demonstrated record of research productivity and publications.
- Programming experience (e.g. C/C++, Python/ Perl, R or other programming languages) Preferred Qualifications: Experience with large-scale genomic data analysis.

Salary: This is a full-time position. Salary is commensurate with qualifications and experience.

How to apply: To apply, please go to the following link: <http://apptkr.com/1254092> Applicants should submit the following materials: - A cover letter - A curriculum vitae - Statement of Research (One-page summary of research interests) - Contact information for 3 references Letters of reference are not required at this time. We will seek your permission before contacting your references. All letters will be treated as confidential per University of California policy and California state law. Please refer potential referees, including when letters are provided via a third party (i.e., dossier service or career center), to the UC Berkeley statement of confidentiality: <http://apo.berkeley.edu/evalltr.html> . This position will be open until filled. The anticipated start date for this position is late August or early September 2018. The appointment is for a duration of one year with the possibility of annual renewal up to three years. Please address inquiries to Maria Ruiz, <mailto:maruiz@berkeley.edu>.

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nity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age or protected veteran status. For the complete University of California nondiscrimination and affirmative action policy see: <http://policy.ucop.edu/doc/4000376/-NondiscrimAffirmAct> . Job location Berkeley, CA Requirements Documents - Curriculum Vitae - Your most recently updated C.V.

- Cover Letter - Statement of Research - One-page summary of research interests References 3 references required (contact information only) Copyright ©2017 Jobelephant.com Inc. All rights reserved.

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Jessica Godoy <jessica@jobelephant.com>

UCalifornia Berkeley StatPopulationGenetics

Recruitment Period Open date: April 17th, 2018 Next review date: August 8th, 2018 Apply by this date to ensure full consideration by the committee. Final date: August 8th, 2018 Applications will continue to be accepted until this date, but those received after the review date will only be considered if the position has not yet been filled.

Description Description: The Moorjani Lab (<https://-moorjanilab.org/>) at University of California, Berkeley has a post-doctoral position available for motivated candidates with background in statistical population genetics and/or data science.

Our lab focuses on using statistical and computational approaches to study questions in human genetics and evolutionary biology. 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 biology. 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.

Minimum/Basic Qualifications required at the time of application: - Completion of all doctoral degree requirements except the dissertation in genetics, computational biology, biostatistics, population genetics or related fields.

Additional Qualifications (required by start date): - PhD or equivalent degree in genetics, computational biology, biostatistics, population genetics or a related field.

- Knowledge of statistics and population genetics theory.
- Demonstrated record of research productivity and publications.
- Programming experience (e.g. C/C++, Python/ Perl, R or other programming languages) Preferred Qualifications: Experience with large-scale genomic data analysis.

Salary: This is a full-time position. Salary is commensurate with qualifications and experience.

How to apply: To apply, please go to the following link: <http://apprkr.com/1254092> Applicants should submit the following materials: - A cover letter - A curriculum vitae - Statement of Research (One-page summary of research interests) - Contact information for 3 references Letters of reference are not required at this time. We will seek your permission before contacting your references. All letters will be treated as confidential per University of California policy and California state law. Please refer potential referees, including when letters are provided via a third party (i.e., dossier service or career center), to the UC Berkeley statement of confidentiality: <http://apo.berkeley.edu/evalltr.html> . This position will be open until filled. The anticipated start date for this position is late August or early September 2018. The appointment is for a duration of one year with the

possibility of annual renewal up to three years. Please address inquiries to Maria Ruiz, maruiz@berkeley.edu.

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- Cover Letter - Statement of Research - One-page summary of research interests References3 references required (contact information only) Copyright ©2017 Jobelephant.com Inc. All rights reserved.

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Jessica Godoy <jessica@jobelephant.com>

UCaliforniaIrvine GenomeEvolution

The Emerson lab at UC Irvine (emersonlab.org) is soliciting candidates for one or more postdoctoral positions to study the population genetics and molecular evolution of genome structure. We have several shovel-ready data sets and are looking to generate more.

We study how gene duplications, transposable elements, deletions, and other structural mutations that change how genomes are organized. We also use patterns of polymorphism and divergence to explore how natural selection shapes genome structure. We have generated a large number of reference-quality genomes within and between *Drosophila* species. These high-quality genomes give us an unprecedented ability to detect and dissect mutations missed by other approaches. Though we focus on *Drosophila*, we're very open to different systems and have worked on *E. coli* and yeast as well. We are also currently collaborating on many other projects in other species, including projects on butterflies, mosquitoes, and fish (see <http://emersonlab.org/collaborators/>).

Candidates will ideally have interests broadly relevant to these themes but will also be offered opportunities to pursue their own interests in evolutionary genetics. A typical candidate will have a PhD in the following or related fields: evolutionary genetics, bioinformatics, computational biology, statistics, or experimental genomics (especially long molecule sequencing). If in doubt, get in touch!

The Emerson lab is affiliated with the department of Ecology & Evolutionary Biology, the Center for Complex Systems Biology, and the Center for Evolutionary Genetics at UCI as well as the Southern California Evolutionary Genetics Meeting.

Interested applicants should send their applications to J.J. Emerson here: <http://emersonlab.org/people/-Emerson.html> Applications should include: a CV; a research statement explaining the candidate's previous research experience and future research objectives; and contact information of two or more references.

For additional information about the lab and the academic and professional environment at UCI, see: <http://emersonlab.org/> For more about this job, visit: http://emersonlab.org/jobs/sv_postdoc.html "jje@uci.edu" <jje@uci.edu>

UCalifornia Riverside Bioinformatics

Research/Teaching Postdoctoral Position in Bioinformatics for Rice and Citrus Genomics University of California, Riverside Position Description An HHMI/NSF funded research/teaching (50/50) postdoctoral position is available in the laboratories of Drs. Susan Wessler and Jason Stajich (i) to study transposable elements (TEs) in rice, (ii) assemble a reference genome for citrus, and (iii) develop teaching modules for Wessler's Dynamic Genome (DG) Course (<http://dynamicgenome.ucr.edu/>).

The rice project concerns an ongoing burst in copy number of a TE in several strains and its impact on the genome and epigenome (K. Naito et al, Nature 2009 461: 131; Lu Lu et al, PNAS 2017 114(49) E10550-E10559). This work will involve analysis of high throughput whole genome sequencing using Illumina technology to examine the genomes of hundreds of recombinant inbred lines. The citrus project involves the continued development and annotation of a high-quality reference genome using long-read technology and comparative genomics to

examine differences among citrus varieties. For the teaching component the successful candidate will design authentic research experiences based on the rice and citrus projects for first year students enrolled in the DG course. This position requires a commitment to innovative teaching along with excellent bioinformatics and programming skills to analyze and synthesize genome assemblies, identify polymorphisms, and perform quantitative trait mapping.

Applications will be accepted until the position is filled and review will begin on August 15, 2018. Salary and benefits are commensurate with NSF guidelines and the University of California Postdoctoral Union agreement.

Qualifications Minimum qualifications include a Ph.D. in Biological Sciences, Computer Science, Statistics, or a related field. Demonstrated experience in bioinformatics and high proficiency in programming is necessary along with an understanding of the mechanisms and methods of studying population and evolutionary biology. Experience with next generation sequence data is highly desirable. Ability to communicate clearly, work independently, and interact collaboratively is essential.

To Apply Contact Jason Stajich (jason.stajich@ucr.edu) or Susan Wessler (susan.wessler@ucr.edu) with a current CV and names of three references.

More information can be found online about the Stajich lab <http://lab.stajich.org>, Wessler lab <http://wesslerlab.ucr.edu>, and the research project <http://dynamiterice.org> and UC Riverside <http://www.ucr.edu>. Information about UCR, plant sciences and student success initiatives In the Heart of Inland Southern California, UC Riverside is located on nearly 1,200 acres near Box Springs Mountain in Southern California, the park-like campus provides convenient access to the vibrant and growing Inland region. The campus is a living laboratory for the exploration of issues critical to growing communities – air, water, energy, transportation, politics, the arts, history and culture. UCR gives every student the resources to explore, engage, imagine and excel.

UC Riverside has one of the top Plant Biology/Genomics groups in the world with 5 members of the National Academy of Sciences, four of whom are women.

UC Riverside is one of the most diverse research universities in the country. More than half of the 5000 students in our College of Natural and Agricultural Sciences (CNAS) are supported by Pell grants, are members of underrepresented groups, and are first generation college students. To improve student persistence in STEM, CNAS has focused on two experiential interventions for first year students: (1) Learning Communities - designed

to engage groups of 24 students with faculty, academic advisors and near-peer mentors, and (2) the Dynamic Genome course - an authentic research experience where UCR research faculty take ownership of a section and bring the excitement of their research labs to the classroom. Now in its sixth year at UC Riverside, DG is a hands-on bioinformatics/wet lab course that is taught in the state of the art Neil A Campbell Science Learning Laboratory.

UCR is an affirmative action and equal opportunity employer with a commitment to workforce diversity. AA/EOE Jason E Stajich, PhD Professor and Director, Microbiology Graduate Program Department of Microbiology and Plant Pathology University of California, Riverside <http://lab.stajich.org> @stajichlab @hyphaltip @zygolife +1 951.827.2363

Jason Stajich <jason.stajich@ucr.edu>

UCalifornia Riverside EvolutionFishTraits

Evolution of functional traits in fishes

An NSF funded postdoctoral position is available to study the evolution of functional traits in fishes in the Higham Lab (<http://www.biomechanics.ucr.edu>) at the University of California, Riverside. This project is in collaboration with the Rogers Lab (<http://people.ucalgary.ca/~srogers/>) at the University of Calgary.

The NSF-funded postdoc will work as part of an interdisciplinary team, studying the genetic architecture underlying biomechanical (feeding and locomotion) traits in three-spined stickleback. This would be ideal for an evolutionary biologist interested in the functional mechanisms underlying speciation. The postdoc will be required to travel to the Bamfield Marine Sciences Centre, and a significant amount of time will be spent there each year. The postdoc will collect stickleback in marine and freshwater habitats on Vancouver Island, perform crosses, obtain and analyze high-speed video, prepare DNA for sequencing, and perform genetic/QTL analyses. Collaborative trips to the University of Calgary are expected.

The candidate should have a PhD (or be nearing the completion of their PhD), and have experience in aquatic biomechanics and/or genetics (QTL and sequencing). If the candidate has experience in only one of these

areas, she/he must have a genuine interest in the other (outlined in application). Training will be provided. For biomechanics, the candidate should have experience with programming languages (e.g. Matlab and R) and high-speed 3D videography. Top candidates will have a strong track record of research productivity and interest in collaborative science.

Ideally, the start date will be October 1, 2018, but later dates will be considered. Application Procedures: Interested applicants should submit a single PDF containing 1) a cover letter summarizing research interests, professional experience, and career goals, 2) a CV including a complete list of publications, and 3) names and contact information of 3 references. Submit application materials directly to Dr. Tim Higham by email (thigham@ucr.edu). Review of applications will begin immediately and continue until the position is filled. The position will initially be for 1 year, with an option for a second year depending on progress.

UCR is a world-class research university with an exceptionally diverse undergraduate student body. Its mission is explicitly linked to providing routes to educational success for underrepresented and first-generation college students. The University of California is an Equal Opportunity / Affirmative Action Employer with a strong institutional commitment to the achievement of excellence and diversity. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, disability, protected veteran status, or any other characteristic protected by law.

The Bamfield Marine Sciences Centre (www.bamfieldmsc.com) is a world-class teaching and research facility located in traditional territories of the Huu-ay-aht First Nations, on the outer west coast of Vancouver Island, Canada. Located in the heart of Canada's Pacific Rim National Park, the town of Bamfield has a small but exceptionally vibrant community. The town is also the northern terminus of an iconic Canadian Trail, the West Coast Trail. The stunning surroundings of the rain forest, deserted beaches, uninhabited islands, rugged coastline, and diving inspire creativity and discovery.

Tim Higham <thigham@ucr.edu>

UCalifornia SantaCruz EvolutionaryGenomics

Evolutionary Genomics Postdoc Cluster Hire University of California 'V Santa Cruz

We are pleased to announce our first ever postdoc cluster hire in evolutionary genomics at UC Santa Cruz!

The Shapiro, Green, and Corbett-Detig labs UC Santa Cruz are hiring SIX postdoctoral fellows. This cluster hire will bring in a cohort of fellows to collaborate on several projects in the Evolutionary Genomics.

Project topics will include ancient DNA, population genomics, genome assembly, and sequencing technology development. Ideal candidates have strong team working skills, are excited about evolution, have a background in evolutionary biology, bioinformatics and/or molecular biology, and have an established record of achievement in research demonstrated in publications.

Post-docs will join the UC Santa Cruz research community which has a strong presence in genomics, computational biology, and evolutionary biology. We have a strong postdoctoral fellow association with lots of career development workshops and social events.

Santa Cruz is a fabulous place to live with lots of outdoor recreation and easy access to the San Francisco Bay Area.

We are committed to enhancing diversity in our community and in science more generally. Applicants from backgrounds that are underrepresented in the sciences are therefore strongly encouraged to apply.

The postdoctoral positions are minimum two-year appointments starting Fall 2018 (or when filled), with salary commensurate with experience and following the UC salary scales. To apply, please send CV, names and contact details of three references, and cover letter that describes your research experiences and why you would like to be part of this opportunity to Beth Shapiro, Ed Green, or Russ Corbett-Detig. Initial review of applications will begin on August 1, 2018.

The University of California is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability, age or protected veteran status. The PGL and UC Santa Cruz are committed to excellence through di-

versity, and strives to establish a climate that welcomes, celebrates, and promotes respect for the contributions of all students and employees. You can view the complete University of California nondiscrimination and affirmative action policy here. . Inquiries regarding the University's equal employment opportunity policies may be directed to: Office for Diversity, Equity, and Inclusion at the University of California, Santa Cruz, CA 95064; (831) 459-2686.

Russ Corbett <russcd@gmail.com>

UCambridge MicrobialPhageEvolution

Dear colleagues,

I am currently looking for a highly motivated and enthusiastic experimental *Postdoctoral Researcher *to work on the evolution and dynamics of bacteria and bacteriophage systems.

The ideal candidate should have expertise in at least one of the following areas: biophysics/biochemistry/molecular biology/microbiology. Previous experience with bacteriophage or biofilms is a plus, but not required.

We are a newly established lab in the Biological and Soft Systems Research Group in the Physics Department at the University of Cambridge, working at the interface between physics and biology. For more information, please email me at df390@cam.ac.uk or visit our lab website at <https://dianafusco.wixsite.com/fuscolab> . Best regards,

—
Diana Fusco

Lecturer

Department of Physics

Cavendish Laboratory

University of Cambridge

Diana Fusco <fusco@berkeley.edu>

UCollege London ComputationalGenomicsCellularVariation

We are seeking a postdoctoral researcher to work in a collaborative project between the research groups of Dr. Castellano and Dr. Kilpinen. The aim of the project is to understand how genetic variation, common and rare, affects molecular phenotypes in human induced pluripotent stem cells (iPSC) and neuronal cell types derived from them, and how this affects the use of iPSCs as models for rare genetic diseases. The project builds on resources and results from the Human Induced Pluripotent Stem Cell Initiative (www.hipsci.org). The successful candidate will analyse genetic, transcriptomic and epigenetic data from these cells to investigate molecular differences in disease phenotypes arising from their genetic background. The ultimate goal of the project is to improve the accuracy of iPSC-based disease models and enable clinically relevant findings.

We are seeking a creative and highly motivated individual with prime interest in genomics. Candidates should have a PhD in bioinformatics, computational or evolutionary biology, statistics or related genomic disciplines. The ideal candidate will have experience in at least one of the areas above, and a strong interest in the others. Previous work in translational bioinformatics (theoretical or analytical) is a plus. Experience with large-scale genomic datasets and databases, next-generation sequencing data, and strong programming and quantitative skills are required.

University College London (UCL) is London's leading multidisciplinary university. In the recent 2014 Research Excellence Framework (REF2014) UCL was rated the top university in the UK for research strength and the best research environment. The Genetics and Genomics Medicine Programme, within the Great Ormond Street Institute of Child Health at UCL, is a lively, stimulating, and highly collaborative place in the forefront of rare disease research. The programme is very international and its genomics section is moving in 2018 to the new and adjacent Zayed Centre for Research into Rare Disease in Children. The successful candidate will also have the opportunity to contribute bioinformatics approaches to UCL Genomics. The position will be part-funded by the GOSH-BRC.

Informal inquires can be sent to Sergi Castellano at s.castellano@ucl.ac.uk and Helena Kilpinen at he-

lena.kilpinen@ucl.ac.uk.

Additional details and application form can be found at UCL Jobs (search it using reference number 1736996):

<https://www.ucl.ac.uk/human-resources/working-ucl/-jobs-ucl> Best,

'X Sergi Castellano University College London (UCL)

Genetics and Genomics Medicine Programme UCL
Great Ormond Street Institute of Child Health UCL
Genomics

30 Guilford Street London, WC1N 1EH, UK Tel: +44 (0) 207 905 2108

"Castellano Hereza, Sergi" <s.castellano@ucl.ac.uk>

UFlorida DiseaseDynamics

The Keiser Lab at the University of Florida is seeking a postdoctoral researcher starting January 2019. We study the behavioral mechanisms of infectious disease dynamics, focusing particularly on how individual differences in host behavior underlie differences in infection risk and transmission potential.

The successful candidate will develop independent projects linking host behavior and disease dynamics across levels of biological organization (e.g., individuals, groups, populations, communities), while participating in collaborative projects within the lab. Applicants may propose studies utilizing existing test systems in the lab or a system of their choice, preferably invertebrate. The University of Florida operates multiple field stations among a diversity of nearby ecosystems that make us perfectly suited for projects incorporating field components.

We are especially interested in candidates with experience in social network analysis and/or microbiome techniques

The position is for one year, subject to renewal for a second year conditional on performance. Salary based on standard NIH stipend rates. Interested candidates should submit a 1-page statement of interest describing their research plans, a curriculum vitae, and contact information for three references to keiserlabpostdoc@gmail.com.

Information on the Keiser Lab can be found at www.keiserlab.com Information on the Department of Biology can be found at www.biology.ufl.edu The Uni-

University of Florida is an Equal Opportunity Institution. Individuals from under-represented groups in STEM are particularly encouraged to apply.

Thanks much! - Nick Keiser

Carl Nick Keiser Assistant Professor Department of Biology University of Florida www.keiserlab.com
"Keiser,Carl" <ckeiser@ufl.edu>

UFlorida DrosophilaVirusInteractions

Hello,

I am seeking a postdoctoral research fellow to assist in furthering our work in Drosophila-virus interactions, managing the lab, and assisting with mentoring undergraduate students. We are involved in a range of activities focused on host-parasite coevolution and evolution of virulence, usually but not always using Drosophila as a model for dipteran vectors such as mosquitoes. We collaborate with other investigators at UF, including Lei Zhou (College of Medicine) and Maureen Long (College of Veterinary Medicine); as well as investigators elsewhere, including Helen Piontikivska (Kent State University) and Ben Bolker (McMaster University).

Funding available up to three years at a rate of \$47,476 per year.

Qualifications:

- * PhD in Biology or a related field.
- * Strong background in Evolutionary Biology or Evolutionary Ecology required. You should be well versed in evolutionary genetics and evolutionary theory.
- * Strong organization and time management skills.
- * Excellent communication and writing skills.
- * Experience using R for statistical analyses highly desirable.
- * Expertise in related areas such as molecular evolution, molecular genetics, or bioinformatics desirable.
- * Experience working with Drosophila and/or basic virology skills a plus.

How to apply:

Please submit a letter of interest and CV, together with the names and contact information of three academic references, to Dr. Marta L. Wayne (mlwayne@ufl.edu).

The position will remain open until filled. I will be at SMBE in Yokohama and would be happy to meet with interested people there!

The University of Florida is an Equal Opportunity Employer.

Cheers,

Marta

Marta L. Wayne, Ph. D. Professor and Chair
P.O. Box 118525 Department of Biology University of Florida Gainesville, FL 32611-8525 (courier: 876 Newell Drive) vox: 352-392-9925 fax: 352-392-3704 <http://people.biology.ufl.edu/mlwayne/> <
<http://people.biology.ufl.edu/mlwayne/site/> >

"Wayne,Marta L" <mlwayne@ufl.edu>

UGhent PlantGenomeEvolution

Bioinformatics Postdoc Position in Evolutionary and Comparative Genomics

A three-year postdoctoral position is available in the Van de Peer lab (<http://bioinformatics.psb.ugent.be/beg/>) at VIB/Ghent University, Belgium, starting October 1st, 2018.

The Van de Peer lab is considered a center of excellence in gene prediction and genome annotation, and comparative and evolutionary genomics. As we are involved in several international plant genome and evolution projects, we are currently looking for a bioinformatician to strengthen our genome annotation and analysis team. You will also be involved in the study of gene and genome duplications, another major interest of the research group.

Required Qualifications

The ideal candidate holds a PhD degree in bioinformatics or computational biology (or equivalent through experience), is highly interested, ambitious, curiosity-driven and likes interdisciplinary work. He/she will need to interact productively with evolutionary biologists, genome biologists and computer scientists. Programming/scripting experience (e.g., Perl, Python, R, $\hat{\text{a}}$ euro $\hat{\text{A}}$) and experience working in a Linux environment are essential. A background in genomic, transcriptomic and/or epigenetic research and experience in evolutionary and/or comparative genomics is expected. Since English is the working language of the laboratory, excellent English communication skills are imperative. The

candidate should have a proven track record with at least two publications as first author in renowned peer reviewed journals.

Working environment

The successful candidate will work in the Department of Plant Biotechnology and Bioinformatics/VIB Center of Plant Systems Biology, Ghent University, Belgium. VIB and Ghent University offer a supportive and stimulating environment, with access to excellent computer and academic facilities. More information on our research and research topics can be found at <http://bioinformatics.psb.ugent.be/beg/>. *Contact details*

To apply, please send a single document including a letter of motivation describing your research motivation and experience, a detailed CV with a list of publications, summary of past research, and contact details for at least two referees to yves.vandeppeer@psb.ugent.be.

Review of applications will continue until a suitable candidate is found.

Yves Van de Peer VIB Center for Plant Systems Biology
Department of Plant Biotechnology and Bioinformatics
Ghent University Belgium

["yvpee@psb.vib-ugent.be"](mailto:yvpee@psb.vib-ugent.be) <yvpee@psb.vib-ugent.be>

UHelsinki Evodevo

Post-doc in mathematical modeling in development and experimental evolution:

1. Job/ project description:

The research will involve using and refining an existing mathematical model of wing morphogenesis to explore whether it can be used to predict how wing morphology changes over generations in an artificial selection experiment. These predictions would be contrasted with predictions stemming from a quantitative genetics analysis of fly populations.

The research will take place in the Center of Excellence in Experimental and computational developmental biology of the Biotechnology Institute of the University of Helsinki, Finland.

The job is for 1 year and renewable for 1 extra year.

2. Background:

Why organisms are the way they are?

Can we understand the processes by which complex

organisms are build in each generation and how these evolved?

The process of embryonic development is now widely acknowledged to be crucial to understand evolution since any change in the phenotype in evolution (e.g. morphology) is first a change in the developmental process by which this phenotype is produced. Over the years we have come to learn that there is a set of developmental rules that determine which phenotypic variation can possibly arise in populations due to genetic mutation (the so called genotype-phenotype map). Since natural selection can act only on existing phenotypic variation, these rules of development have an effect on the direction of evolutionary change.

Our group is devoted to understand these developmental rules and how these can help to better understand the direction of evolutionary change. The ultimate goal is to modify evolutionary theory by considering not only natural selection in populations but also developmental biology in populations. For that aim we combine mathematical models of embryonic development that relate genetic variation to morphological variation with population models. The former models are based on what is currently known in developmental biology.

There are two traditional approaches to study phenotypic evolution. One is quantitative genetics and one is developmental evolutionary biology. The former is based in the statistics of the association between genetic relatedness and phenotypic variation between individuals in populations, the latter in the genetic and bio-mechanical manipulation of the development of lab individuals. While the former models trait variation with an statistical linear approach the latter models it by deterministic non-linear models of gene networks and tissue bio-mechanics. For the most, these two approaches are largely isolated from each other.

The current project aims to contrast and put together these two approaches in a specific easy to study system: the fly wing. In brief, we are growing fly populations and, in each generation, we select the founders of the next generation based on how close they resemble an arbitrary optimal morphology in their wings (based on the proportions between several of their traits). In each generation also, we estimate the G matrix and the selection gradient to see how well one can predict evolution in the next generation. The quantitative genetics predictions will be contrasted with the predictions stemming from a wing morphogenesis model that we built based on our current understanding of wing developmental biology (see *Dev Cell.* 2015 Aug 10;34(3):310-22 for the model and for slightly similar approaches: *Nature.* 2013 May 16;497(7449):361-4. and *Nature.* 2010 Mar

25;464(7288):583-6).

Our center of excellence includes groups working in tooth, wing, hair and mammary glands development. In addition to evolutionary and developmental biologists the center of excellence includes bioinformaticians, populational and quantitative geneticists, systems biologists and paleontologists. The group leaders of the center involved in this project are Salazar-Ciudad and Shimmi.

'The Academy of Finland's Centres of Excellence are the flagships of Finnish research. They are close to or at the very cutting edge of science in their fields, carving out new avenues for research, developing creative research environments and training new talented researchers for the Finnish research system.'

3. Requirements:

The applicant must hold a PhD in either evolutionary biology, developmental biology or, preferably, in evolutionary developmental biology (evo-devo). Applicants with a PhD in theoretical or mathematical biology are also welcome.

Programming skills or a willingness to acquire them is required.

The most important requirement is a strong interest and motivation on science and evolution. A capacity for creative and critical thinking is also required.

4. Description of the position:

The fellowship will be for a period of up to 1+1 years (100% research work: no teaching involved).

Salary according to Finnish postdoc salaries.

5. The application must include:

-Motivation letter including a statement of interests

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UIceland EvolGenomicsHighFecundity

Postdoctoral position in evolutionary genomics at the Institute of Life- and Environmental Sciences, University of Iceland

A postdoctoral position in population and evolutionary genomics is available in the research group of Einar Arnason at the Institute of Life- and Environmental Sciences (ILES) at University of Iceland. We are looking for a highly motivated individual with strong computational skills, extensive experience working in the Linux environment, and strong interest in evolutionary and population genomics, to analyze and interpret extensive and unique whole-genome sequence data sampled from various gadid populations.

Field of work

Project title and description

Population genomics of highly fecund codfish

Our research focus is on understanding evolutionary processes in highly fecund organisms. We use highly fecund gadids as study organisms. With a recently awarded Icelandic Research Fund Grant of Excellence (id 185151-051) we will obtain unparalleled amount of whole-genome sequence data from various gadid populations. Whole-genome sequence data holds huge promise in furthering our understanding of the mechanisms of selection, speciation and adaptation in natural populations. The grant of excellence project is concerned with, among other things, understanding the mode of reproduction of gadids, mechanism of speciation, inferring the phylogeny of gadids, and identifying genetic units which may be under strong selection. This collaborative project is joint with Katrin Halldorsdottir at ILES, Alison Etheridge at the Department of Statistics in University of Oxford, and Wolfgang Stephan and Bjarki Eldon at the Leibniz Institute for Evolution and Biodiversity Science in Berlin. Among our collaborators are Montgomery Slatkin and Rasmus Nielsen at University of Berkeley in California, Fernando Racimo at Copenhagen University, and Tim Sackton which is Director of Bioinformatics at Harvard University. This is a highly interdisciplinary project combining latest molecular technology, and advanced statistical and bioinformatic analysis. We will maintain good communication and collaboration between all participants. The position therefore comes with possibilities to visit participating labs and groups in Berlin, Berkeley, and Cambridge (MA). We would expect the postdoc to (i) work on ideas already developed in the project, and (ii) develop new ideas and new methods to analyze and understand the data.

Qualification requirements

PhD in computational biology, evolutionary or population genetics, or related fields;

demonstrated research ability in the form of publications and presentations; ability to work both independently

and within a team;

proficiency in written and spoken English

Strong experience working in the UNIX/Linux environment.

Strong interest in evolutionary and population genomics is an asset.

Experience in analyzing whole-genome sequences is an asset.

Programming experience in e.g. Python, R, Perl, C, C++, also is an asset.

How to apply

Please include in your application:

i) 1-3 page motivation letter, which should state your interest in the project, what makes you qualified for the position, and your ideas for how to move the project forward; ii) CV and publication list,

iii) transcripts from B.Sc. and M.Sc. studies, and a list of courses during postgraduate studies,

iv) contact information for 2-3 letters of

APPLY by filling out form for vacancy nr. 355 <https://ugla.hi.is/radningar/index.php?sid=2448&starf=355>
The successful applicant could anticipate to start work as early as July/August 2018, with funding guaranteed for three years. This is a full-time position.

Salary will be according to the current collective wage and salary agreement between the Union of University Teachers and the Minister of Finance.

All applications will be answered and applicants will be notified of the employment decision when a decision has been made. Applications will be valid for six months from the end of the application deadline.

Some relevant articles

Einar Árnason and Katrín Halldorsdóttir. 2015. Nucleotide variation and balancing selection at the Ckma gene in Atlantic cod: analysis with multiple merger coalescent models. PeerJ e786. doi:10.7717/peerj.786

Bjarki Eldon and John Wakeley 2006. Coalescent processes when the distribution of offspring number among individuals is highly skewed. Genetics 172:2621-2633. doi:10.1534/genetics.105.052175

Bjarki Eldon, Matthias Birkner, Jochen Blath and Fabian Freund 2015. Can the site-frequency spectrum distinguish exponential population growth from multiple-merger coalescents? Genetics 199: 841-856. doi:10.1534/genetics.114.173807

Katrín Halldorsdóttir and Einar Árnason 2015. Whole-

genome sequencing uncovers cryptic and hybrid species among Atlantic and Pacific cod-fish. BioRxiv, doi:10.1101/034926.

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UMontpellier ClimateAdaptation

12 months Postdoctoral fellowship: Adaptation to climate variation

Institut de Recherche pour le Developpement, University of Montpellier, Montpellier, France

The project aims to investigate adaptation to future climate of several crops species in Africa. The post-doc fellow will primarily work on NGS data from whole genome re-sequencing or gene enrichment approaches already available for all species (Varshney et al. 2017; Cubry et al. 2018; Burgarella et al. 2018). Different modeling approaches and Bayesian statistics will be used to predict future adaptation. The post-doctorate will interact with PhD students/post-doctorat working on similar projects. Funding for a post-doctoral extension will be seeked.

Recent references:

Varshney et al. 2017. Nature Biotechnology. 35:969+, Cubry et al. 2018. Current biology. Burgarella et al. 2018. Nature Ecology & Evolution. In press.

Required skills: Knowledge in population genetic/genomic; Knowledge in NGS analysis and statistics using R is a plus; Knowledge in programming perl, bash is a plus; Good English written and verbal communication skills

Eligibility: Applications will be assessed as soon as they arrived. A first deadline for application is set to the first september. Position is available beginning between October and December 2018. Thank you for sending CV, cover letter and references.

Applications to be sent to Dr. Adeline Barnaud and Dr. Yves Vigouroux: _adeline.barnaud@ird.fr and yves.vigouroux@ird.fr

"yves.vigouroux@ird.fr" <yves.vigouroux@ird.fr>

UNevada LasVegas BioinformaticsGenomics

Postdoctoral Position in bioinformatics / genomics

Nevada Institute of Personalized Medicine / University of Nevada Las Vegas School of Life Sciences United States

BACKGROUND

A postdoctoral position is available in the lab of Mira Han at University of Nevada, Las Vegas and Nevada Institute of Personalized Medicine. Research will focus on integrating heterogeneous omics data to predict the tissue origin for metastatic cancer tissues. We are especially interested in integrating RNA and methylation data of non-coding elements and repeat elements. Other projects involve investigating the potential regulatory role of repeat elements, through analysis of existing ChIP-seq, eCLIP, RNA-seq and genetic datasets. Nevada Institute of Personalized Medicine was just awarded a \$11.4M, 5 year Center of Biomedical Research Excellence P20 Grant from NIH in personalized Medicine. The position will involve collaboration with other computational biologists and molecular biologists in the Nevada Institute of Personalized Medicine and School of Life Sciences. It will also involve assisting in the supervision of graduate and undergraduate students and developing new areas of research. Visit the website to find out more at www.unlv.edu/NIPM and <https://www.unlv.edu/lifesciences> RESPONSIBILITIES

The main responsibility will be to apply machine learning and statistical methods to link multiple modes of omics data and classify the metastatic cancer samples into correct tissue types. The postdoctoral researcher will be able to explore other projects independently in addition to the main project.

TERMS Appointment is for two years with a possibility of extension of one more year.

LOCALE The UNLV campus offers a stimulating and rewarding environment. Here, you will find a friendly community dedicated to learning and research. Las Vegas has its safe communities, affordable home prices, high quality of life, little traffic.

COMPENSATION NIH postdoc stipend level

REQUIREMENTS PhD degree in Bioinformatics, Computer Science, Biological Sciences, Mathematics, Bio-

statistics or related fields Proven skills in programming (Python, R, C/C++) and experience with Linux/Unix environments Practical experience of high-throughput data analysis, data management, data mining/ integration Practical experience of next-generation sequencing data analysis and skills in bioinformatic tools and databases Self-motivation with excellent communication skills and an ability to work well in a team environment

PREFERENCES Experience in machine learning and heterogeneous data integration Experience with molecular biology of next generation sequencing

HOW TO APPLY Please send a CV, three letters of reference, and a brief statement of research interests to Dr. Mira Han ([mira.han\[at\]unlv.edu](mailto:mira.han[at]unlv.edu)).

DEADLINE As soon as possible. The position can start immediately.

Thanks, Mira Han

Assistant Professor School of Life Sciences UNLV HRC
183B 702-774-1503

miraceti@gmail.com

UNewHampshire TreeMicrobialDiversity

The Garnas lab (<http://mypages.unh.edu/garnaslab>) seeks a highly motivated postdoctoral scientist to study 1) patterns and consequences of microbial diversity in the beech bark disease (BBD) pathogen complex and associated bark communities; and 2) impacts of divergent life histories among the dominant BBD associates on pathogen gene flow and population structure across the range of the disease. Within this framework, the successful candidate will be encouraged to develop their own ideas to advance basic understanding of fungal evolution in the context of a complex, multi-organism decline disease.

Brief background Beech bark disease (BBD) is a widespread decline disease arising from complex interactions among a non-native scale insect and at least two putatively native pathogens that differ in key aspects of their biology and ecology. Recent work also suggests that associated microbes may play a role in disease development and/or attenuation. In addition to being highly relevant ecologically (e.g., to wildlife and to forest stand development), the BBD system represents fertile ground for scientific inquiry, with many key questions

that are currently unexplored.

Details of the position and skills sought The ideal candidate will have both experience and a proven publication record that demonstrates a keen interest and background in population genetics, microbiome sequencing and bioinformatics as well as facility with the core concepts of eco-evolutionary dynamics. The research is primarily lab and bioinformatics-based using comprehensive collections across the range of the disease. Fungal isolation and culture curation will also be required. Experience working with fungi is preferred but not required.

Start date negotiable but must be no later than October 1, with an earlier start date preferred. Salary is \$48,000 plus benefits. Funding is for one year with reappointment subject to satisfactory performance.

Interested applicants should send the following as a single pdf file to jeff.garnas@unh.edu: - CV - Statement of purpose that summarizes research goals/interests/trajectory and relevant experience - 2-5 relevant publications, with an annotated list of the applicant's role/contribution for each - Contact information for three references Application review will begin immediately; the position is open until filled.

"Garnas, Jeff" <Jeff.Garnas@unh.edu>

UNorthCarolina Charlotte EvolutionOfGenomeStructure

The Rogers lab at UNC Charlotte is hiring a postdoc to work on evolutionary genetics of genome structure. The lab is interested in duplications, deletions, transposable elements and chromosomal rearrangements. We study the role these mutations play in creating new gene sequences, and the ways that selection acts on new genetic material. The postdoc will be expected to help analyze the lab's population genomic data for duplications, deletions, and rearrangements in *Drosophila*. Additional projects on genome structure evolution in other metazoans are encouraged, especially when public data or collaborations are available. The Rogers lab has no plans for any future work on frogs.

Some experience with bioinformatics and programming is essential. Knowledge of statistics and population genetics is recommended. Experience working with Illumina short read sequencing and long molecule sequencing will be advantageous. Postdocs must be less than 5 years post PhD.

Target start date is between Aug 15 2018 and Jan 1 2019. Some flexibility exists, depending on circumstances. The Rogers lab supports diversity in science. We are committed to a positive working environment for LGBTQ individuals, underrepresented minorities, and women in science. An overview of the lab can be found at evolscientist.com.

Applications should include a CV, a brief summary of research interests, proposal for how their work will fit with the lab, and three references to be contacted on request. Applications will be reviewed in the order they are received. Materials can be emailed to Rebekah.Rogers@uncc.edu. Minimum salary will follow NIH recommendations.

Charlotte, NC is a diverse city with an excellent symphony, theater, and performing arts scene. Charlotte also offers a thriving arts scene and live music in NoDa, excellent restaurants surrounding the Downtown, and family-friendly programs in local museums. Farm to table restaurants and farmers' markets are our forte. The cost of living is very affordable, offering a comfortable lifestyle for postdocs.

Rebekah Rogers <rebekah.rogers@gmail.com>

UNorthCarolina Greensboro BacterialSpeciation

Postdoctoral position: *Speciation and Recombination in Bacteria*

A two-year postdoctoral position is available in the laboratory of Dr. Louis-Marie Bobay at the University of North Carolina Greensboro.

The lab focuses on microbial evolution and genomics. Our research topics currently include: 1) the evolution of recombination in bacteria and archaea 2) the processes of speciation in microbial populations and 3) the evolution of gene diversity in prokaryotes. To find out more details about our research, you can visit: <https://louismariebobay.wixsite.com/bobaylab> The lab is primarily computational. The candidate must be proficient in programming, preferably in Python. The ideal candidate would have experience in bioinformatics, evolution, microbiology, and metagenomics.

To apply, email Louis-Marie Bobay at ljbobay@uncg.edu. Please include a CV, a short research statement and the name and email address of at least two referees.

To find out more information about Greensboro, North Carolina you can visit: <https://realestate.usnews.com/-places/north-carolina/greensboro> Louis-Marie Bobay

– Louis-Marie Bobay, PhD Assistant Professor Department of Biology - EBER 102-117 Univ. of North Carolina at Greensboro Greensboro, NC 27403 USA Website: <https://louismariebobay.wixsite.com/bobaylab> Louis-Marie Bobay <ljbobay@uncg.edu>

[Y&p_refresh_search=Y&p_recruitment_id=135833](https://www.zoo.ox.ac.uk/people/dr-kayla-king)

Please send inquiries to kayla.king@zoo.ox.ac.uk

Dr. Kayla King Associate Professor, Department of Zoology Tutorial Fellow, Christ Church University of Oxford

<https://www.zoo.ox.ac.uk/people/dr-kayla-king>

<https://sites.google.com/site/kckingevolution/kayla.king@zoo.ox.ac.uk>

UOxford HostParasiteInteractions

Postdoctoral Research Assistant in Host-Parasite Interactions

Salary: Grade 7.1 31,604

A full-time, 24-month position is available in the King Lab at the University of Oxford, Department of Zoology to work on host-parasite interactions. The post-holder will use experimental evolution to examine whether and how mixed species coinfections with natural bacterial parasites (isolated on banana leaves in Africa) can shape the evolution of resistance in *Caenorhabditis elegans* nematode hosts. Interestingly, environmental conditions, as well as the presence of a second parasite species, can affect the outcome of infection. This project will track the spread of resistance in host populations in an evolution experiment using compost microcosms. Detailed investigations of host evolutionary dynamics here will greatly contribute to our understanding of the sweeping impacts of parasite biodiversity, across space and time.

This post is suited to researchers who have experience with evolutionary biology, *C. elegans*, microbiology, and/or host-parasite interactions. The postholder will be given the opportunity to contribute to the development and direction of this project. Thus, this position is ideally suited for ambitious researchers, who are independent, but also enjoy working in a team. The successful candidate will hold a doctoral degree (or near completion) in a relevant subject area.

The position will start January 2019.

Only applications made online before 12.00 midday (UK time) on 8 August 2018 will be considered. You will be required to upload your CV and supporting statement. See https://www.recruit.ox.ac.uk/pls/hrsliverecruit/-erq_jobspec_version_4.display_form?p_company=-10&p_internal_external=E&p_display_in_irish=-N&p_process_type=&p_applicant_no=-&p_form_profile_detail=&p_display_apply_ind=-

UPittsburgh PlantVirusEvolution

Postdoc in Plant-Virus Interactions at the University of Pittsburgh

A Postdoctoral fellow position characterizing the POLLEN VIROME in diverse flowering plants is available in the laboratory of Tia-Lynn Ashman in collaboration with James Pipas, Department of Biological Sciences at the University of Pittsburgh.

The work will seek to understand the dominant ecological and evolutionary drivers of pollen virome diversity by linking plant traits, plant-pollinator interactions, geographic origin and phylogenetic history. Responsibilities include field work, RNA extraction and analysis of metagenomic data sets, bioinformatic characterization of novel viral sequences, phylogenetic analyses, phylogenetically-controlled and community-level statistical analyses; and preparation of manuscripts for publication. There is also the ample opportunity to design and implement additional projects of mutual interest.

The postdoc position is initially for one year with option for renewal. Start date is negotiable, but September 2018 is preferred.

QUALIFICATIONS: PhD in biology, virology, ecology, evolution, microbiology or related disciplines conferred by the time of appointment. Record of publication in the peer-reviewed literature; skills and experience in statistics, bioinformatics, microbial ecology, and/or molecular biology; demonstrated verbal and written communication skills; self-motivation, critical thinking and problem-solving skills; innovative ideas and vision for collaborative research.

TO APPLY: Please send a CV and a description of your experience and interests as relevant to the position to tia1@pitt.edu, along with the names and contact information for three referees. In a covering letter clearly highlight skills and experience related to key responsi-

bilities. Informal inquiries are also welcome!

Review of application materials will begin immediately and continue until position is filled.

Dr. Tia-Lynn Ashman Distinguished Professor of Ecology & Evolution Department of Biological Sciences University of Pittsburgh Pittsburgh, PA 15260-3929 412-624-0984 <http://www.pitt.edu/~tia1/> “Ashman, Tia-Lynn” <tia1@pitt.edu>

UppsalaU FungalPhyloinformatics

I am hiring a post doc to work on evolutionary processes shaping the diversity of fungi with focus on ectomycorrhizal fungi. The add is available at <http://www.uu.se/en/about-uu/join-us/details/?positionId=210086> and there is a link at the bottom of this page to submit your application.

Martin Ryberg Systematic Biology Uppsala University Uppsala

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/om-uu/dataskydd-personuppgifter/> “martin.ryberg@ebc.uu.se” <martin.ryberg@ebc.uu.se>

UStirling BuzzPollination

Postdocs on Buzz Pollination

A 12-month postdoctoral position, with the possibility of extension to 36 months, is available for a Leverhulme Trust funded project on the ecology and evolution of buzz pollination at the Vallejo-Marin Lab, University of Stirling, UK. The project will support two postdocs, each specialising on either flower or bee perspectives of buzz pollination, but who will work collaboratively using functional analyses of the vibrational properties of flowers, bee behavioural experiments, and field surveys in the tropics.

The postdocs will form part of a 3-year project funded by the Leverhulme Trust, entitled “Buzz pollination: Integrating bee behaviour and floral evolution”. The project is a collaboration between Dr. Mario Vallejo-Marin (Plant Evolution and Pollination, Stirling), Prof. Fernando Montealegre-Zapata (Bioacoustics and Sensory Biology, U. Lincoln) and Dr. Gema Martin-Ordas (Psychology, Stirling).

Buzz pollination, in which bees use high frequency vibrations to extract pollen from flowers with specialised morphologies, occurs in more than 22,000 species of flowering plants, including some crops. Despite being known for more than 100 years, many fundamental questions in buzz pollination remain unanswered. The two postdocs will join an ambitious project to link floral morphology and the vibrational characteristics of flowers with bee behaviour and cognition to determine how floral and bee characteristics affect buzz pollination. Each postdoc will specialise on either flower or bee perspectives of buzz pollination, but both will work collaboratively using functional analyses of the vibrational properties of flowers, bee behavioural experiments, and field surveys in the tropics.

DESCRIPTION OF DUTIES: The appointee will be expected to contribute to the intellectual development of the project, including participating in analysis and write-up of papers describing the work. In addition, the appointed researcher will participate in project meetings, and help supervise undergraduate and MSc students working on related research.

. Postdoctoral researcher on the vibration properties of buzz-pollinated flowers: The appointed postdoc will estimate vibrational properties of flowers using a variety of tools including laser scanners and micro CT scanning. The postdoc will relate empirical measurements of flowers and vibrations to test hypotheses of the function of floral structures, oversee the growth and maintenance of plants to ensure sufficient availability of flower material at Stirling, and conduct field work in Mexico/Brazil.

. Postdoctoral researcher on the behaviour and cognition of buzz-pollinating bees: The appointed postdoc will analyse the relationship between bee morphology, behaviour and cognition, and the characteristics of vibrations produced by bees. The postdoc will carry out extensive experiments of bee behaviour under controlled laboratory conditions to test hypotheses on bee cognition, learning and vibrations produced by bees. Vibrational properties will be measured with a variety of tools including acoustic analysis, laser vibrometry and direct-contact motion sensors. The postdoc will need to provide support for plant growth to generate experimental flowers, as well as to create artificial models

using, among other tools, 3D printing. The postdoc will oversee the maintenance of bumblebee colonies and work with bees daily, and conduct fieldwork in Mexico/Brazil.

The appointee will be part of a thriving research environment within Biological and Environmental Sciences (BES) with more than 40 principal investigators, alongside postdoctoral researchers and 60 PhD students. The post is based in Stirling, but postdocs will conduct short research visits to the Bioacoustics and Sensory Biology lab of Prof. Montealegre-Zapata for data collection, project planning and paper writing.

SUMMARY OF QUALIFICATIONS: PhD in a relevant discipline (see full job description). The appointed candidate must be creative, organised and independent, self-motivated, able to communicate well, work collaboratively in a team, and able to conduct repetitive tasks precisely and carefully. Knowledge of floral morphology and evolution, pollination, strong numerical skills, and a background in biophysics (Floral Vibrations Postdoc) or knowledge of insect behaviour, experience at working with bees, pollination, and strong numerical skills (Bee Behaviour Postdoc), are an asset.

SALARY: These are Grade 7 positions, with an annual salary of 32,548 - 38,833 p.a. Fixed Term Contract for 12 months, full-time, with the possibility to be extended to 36 months, pending a first-year progress review of the appointee.

KEY DATES: We will begin reviewing applications on 23 August, and continue until the position is filled. Interviews will be held on 18-19 September. The date for the start of both posts is 1 January 2019.

TO APPLY: For more information, including instructions on how to apply

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UToronto Mississauga 2 EvolBiol

The Centre for Urban Environments (CUE) (www.urbanenvironment.ca) is seeking applications for two post-doctoral researchers to study any topic related to urban environments (including cities, towns and villages) in the social sciences, natural sciences or

humanities at the University of Toronto Mississauga (UTM). We especially encourage evolutionary biologists to apply who are interested in examining how urban environments may affect evolution due to natural selection, genetic drift, gene flow or mutation.

CUE is a new academic centre with the mission of providing local, national and global leadership in research, education, policy and outreach on urban environmental issues. Topics of research by CUE post-docs may include, but are not restricted to: policy related to the impact of climate change on cities, urban ecology and conservation, urban socioecology, pollution and ecosystem health in cities, urban evolutionary biology, urban anthropology including historical and contemporary indigenous communities, human health in cities, the economy of the city environment, the role of art in urban landscapes, and more. Proposed research that bridges traditional disciplines is an asset and should be highlighted in the cover letter and research statement. Before applying, applicants should identify and contact at least two potential supervisors at UTM, who will jointly supervise and are willing to support their application. To find potential supervisors, please see faculty listed in the following UTM departments:

Department of Anthropology - www.utm.utoronto.ca/-anthropology Department of Biology - www.utm.utoronto.ca/biology Department of Geography - www.utm.utoronto.ca/geography/ Department of Political Science - www.utm.utoronto.ca/political-science Faculty from other UTM departments are also eligible to sponsor applications provided they are open to working on urban environmental issues.

In addition to conducting original research, the CUE post-docs are expected to contribute to the broader mission of CUE, which may include giving academic and public lectures, hosting seminar speakers or organizing a workshop.

The University of Toronto is the leading academic institution in Canada and among the top universities in the world. The UTM campus offers excellent facilities for research (wet and dry lab infrastructure, growth chambers, greenhouses), high performance cluster computing, geospatial computing labs, access to census and other social data products, online survey tools (e.g. Qualtrics), world-class libraries, housing, and 90 hectares of fields, forests, trails and a wild salmon/trout river for research and recreation. We also have strong relationships with local and regional governments, conservation authorities, NGOs and private industry. The cities of Toronto and Mississauga are interconnected and culturally diverse, with many restaurants, excellent transit systems, a diversity of cultural activities (galleries, museums, the-

atres, sports, bars, clubs), and an abundance of parks and water.

Please submit applications to the Director of CUE, Prof. Marc Johnson (marc.johnson@utoronto.ca). Questions about CUE can be directed to the Director, including a list of faculty.

Additional details are as follows: Starting salary: \$45,000 CDN + benefits and \$5,000/year in research funds (more research funds may be provided by supervisors) Start date: Flexible, but preferably before Dec. 1, 2018 Duration: 2 years (conditional on favourable annual performance review) Application Deadline: Review of applications will commence August 15 Applications should include: i) a cover letter (please identify the potential supervisors in this letter); ii) full CV; iii) a one-page research statement indicating the planned research and how the applicant plans to contribute to the mission of CUE; iv) examples of up to three publications and/or creative works; and iv) contact information for three references.

Employment as a Postdoctoral Fellow at the University of Toronto is covered by the terms of the CUPE 3902 Unit 5 Collective Agreement and this job is posted in accordance with the collective agreement. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from racialized persons / persons of colour, women, Indigenous / Aboriginal People of North America, persons with disabilities, LGBTQ persons, and others who may contribute to the further diversification of ideas.

Marc T. J. Johnson, Ph.D.

Director, Centre for Urban Environments (CUE) Associate Professor Depts. of Biology & EEB

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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>

UWisconsin Madison Evolutionary Genomics

The research group of John Pool at the University of Wisconsin - Madison invites applications for a postdoctoral research position. We have multiple opportunities for projects to work on, with an overarching theme of addressing big questions in population/evolutionary genetics. Rather than filling a pre-defined role, our top priority is to recruit the best scientist and identify shared research interests.

Potential research areas could include:

* The Genetic Architecture of Adaptive Evolution When traits evolve in nature, we'd like to understand how many genes are involved, whether selection acts on standing variation or new mutations, whether it ultimately fixes the causative variants, and the predictability of genetic architecture across populations that evolve the same trait changes in parallel. Our focus on local adaptation among *Drosophila melanogaster* populations from contrasting natural environments provides a powerful and efficient system for addressing these questions. Potential projects could range from statistical methods (e.g. testing theoretical predictions about the distribution of effect sizes of adaptive variants) to experimental approaches (e.g. using RNAseq to extend our understanding of adaptive trait evolution).

* The Genetic Architecture of Rapid (Partial) Reproductive Isolation Partial prezygotic and postzygotic isolation exists between African and European populations, which diverged only ~10 kya but now occupy very different environments. I've found that natural admixture between these populations resulted in a genome-wide abundance of "ancestry disequilibrium" (non-random two-locus genotypes at unlinked loci) suggestive of incompatibilities between African and European alleles. Our lab is mapping incompatibilities related to viability and fertility. There is an opportunity to add a model inference approach aimed at broader questions regarding the number and strength of epistatically-interacting loci that separate these recently-diverged populations.

* Measuring Genetic Diversity to Predict Adaptive Potential Standing genetic variation provides the fastest route for populations to adapt to rapid environmental change. Both within-population variation and between-population adaptive differentiation may contribute raw

material to future evolution, and we're interested in testing the relative contributions of these sources. But even more, we are interested in developing methods that speak to the relative adaptive potential of different populations and different combinations of them, as indicated by their patterns of genomic diversity and population genetic estimates of the total level of adaptive differentiation between populations.

* Fundamental Population Genomics We are interested in leveraging data (such as our lab's *Drosophila* Genome Nexus), simulation, and statistical/computational methods to ask basic population genetic questions. Examples could include new angles on the classic but unresolved controversy over the relative roles of selective sweeps and background selection, and the relative roles of hard and soft sweeps on autosomes and the X chromosome.

I also encourage lab members to develop their own project ideas, and I am quite open to letting postdocs take important portions of our lab's research program with them when they found new research groups.

Our research group was founded 7 years ago and currently consists of the PI, 1 postdoc, 5 PhD students, and six undergraduate researchers. I have also advised 4 former postdocs, and the publication records of Amir Yassin and Justin Lack show what a productive environment our lab can be for postdocs. For more details on our lab's research, its current membership, and its published track record, please visit: <http://www.johnpool.net> UW-Madison offers a superb scientific environment with a supportive, collaborative, and egalitarian culture. There are a substantial number of labs in population genetics, evolutionary genomics, and *Drosophila* research: <https://genetics.wisc.edu/evolutionary-and-population-genetics/> http://www.evolution.wisc.edu/view_faculty <https://genetics.wisc.edu/drosophila-and-other-insects/> <https://qbi.wisc.edu/research/all-faculty/>

Madison offers an exceptional quality of life in a beautiful landscape. Downtown and campus are bordered by lakes, and the area offers great outdoor recreation options. Madison features diverse art, music, and cultural offerings. A great farmers market and a focus on local food are complemented by a wide range of international restaurants. Madison has been ranked as the best city in America for young adults, and has

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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>

UWisconsin Madison GeneticsGenomics

The Payseur lab at the University of Wisconsin-Madison invites applications for a new postdoctoral position in genetics and genomics. The overarching goal of the research is to understand how meiotic recombination evolves from a genetic perspective. Diverse projects employing a variety of approaches are available under this umbrella theme.

The successful candidate will demonstrate a strong research record in the life sciences. Clear evidence of productivity in the form of first-authored publications is required. Experience with genomic data, cell biology, quantitative genetics and/or programming is especially desirable. Applicants should be highly motivated and interested in working as part of a research team. A Ph.D. in biology or a related field is required.

The Payseur lab is located in the Laboratory of Genetics at the University of Wisconsin-Madison. Bret Payseur is dedicated to providing a supportive and stimulating training environment. The department and the university are home to a highly interactive collection of faculty with broad and deep expertise across the life sciences. The Payseur lab enjoys local collaborations with leaders in molecular genetics, statistical genetics, computational biology and evolutionary biology. The University of Wisconsin-Madison is consistently ranked as a top public university and is renowned for its strength in biological research. Madison is a vibrant place to live, offering excellent restaurants, a thriving arts community, and an impressive assemblage of bike paths and lakes. Madison is only a few hours driving distance from Chicago and Milwaukee.

The initial appointment will be for two years. The appointment may be renewed, contingent upon progress.

To apply, please email to Bret Payseur (payseur@wisc.edu) a SINGLE PDF consisting of three pieces: (1) a one-page research statement clearly explaining the qualifications for the position and the motivation for applying, (2) an updated CV, and (3) contact information for three references. Review of applications will begin immediately. Please contact Bret Payseur with any questions.

Bret Payseur <bret.payseur@wisc.edu>

VirginiaTech MicrobialEvolutionaryGenomics

Postdoctoral Research Position in the Aylward Lab at Virginia Tech.

Blacksburg, VA, USA.

The Aylward lab at Virginia Tech is seeking a postdoctoral researcher interested in the ecology and evolution of microbial life to join the recently established research group. The Aylward lab uses comparative genomic and metagenomic approaches to address questions regarding microbial diversity, with an emphasis on the ecological and evolutionary forces that shape the distributions and genomic repertoires of uncultivated microbial groups. Candidates will be able to work on existing research projects and develop their own, provided they are synergistic with the general research goals of the lab. Experience working with 'omic data is highly desirable, as is proficiency in Python or other coding languages commonly used in bioinformatics. More information on the lab and current research can be found on the website: www.aylwardlab.com Required Qualifications:

PhD in relevant field (microbiology, computational biology, genomics, etc.)

Preferred Qualifications:

Experience working with large genomic/metagenomic datasets,

Knowledge and enthusiasm for microbial ecology and evolution,

Experience with a coding language (preferably Python or R) and working with bioinformatic workflows.

For inquiries contact faylward@vt.edu. Interested applicant should submit a cover letter, CV, and list of references at jobs.vt.edu.

– Frank O. Aylward Assistant Professor Department of Biological Sciences Virginia Tech Blacksburg, VA, 24061 *www.aylwardlab.com* Frank Aylward <faylward@vt.edu>

YaleU EvolGenomicsMosquitoVector

Postdoctoral Position: Evolutionary Genomics and Adaptation in Invasive Mosquitoes of Medical importance

A postdoctoral position is available in the Caccone lab in the Department of Ecology and Evolutionary Biology at Yale University. The postdoc will work within a recently awarded 5 years NIH project aimed at using evolutionary genetic principles and methods to understand the phylogeography, range expansion, and climatic adaptation of a medically important disease vector, the invasive mosquito, *Aedes albopictus*.

The main goals of the project are to: 1) use whole-genome sequence data from thousands of individuals worldwide to determine the evolutionary history of the species range expansion, 2) develop a SNP-chip to rapidly genotype samples for a variety of scopes such as identifying the origin of new invasive populations or characterize allelic variation at genes of interest, such as insecticide resistance or vector competence, and 3) identify the genetic basis of the species ability to adapt to cooler climates using methods to look at genotype-phenotype associations and selection.

Dr Caccone is also the director of a training and research center (<https://cgab.yale.edu/>) sponsored by the YIBS Institute (<https://yibs.yale.edu/>), where a variety of evolutionary genetics/genomics projects on a variety of Invertebrate and Vertebrate organisms are carried out (<https://cgab.yale.edu/projects>). The center hosts graduate students, postdocs, and undergraduates that wish to use DNA based analyses to address organismal levels questions, which span from vector biology to conservation genetics and genomics. This provides for a multicultural, multidisciplinary and overall very dynamic environment with opportunities to develop additional projects and acquire experience on advising graduate and undergraduate students. Thus, the ideal candidate should be able to work well in such an environment, where true collegiality and ability to help colleagues that need advice and guidance is important.

This specific project is part of a collaboration with Peter Armbruster lab's and with multiple US and international partners. It will involve extensive interactions between the two main research teams at Georgetown and Yale, as well as others.

The initial appointment will be for two years, with the possibility of extension based on excellent performance. Starting salary will depend on the applicant seniority and will follow NIH guidelines. The start date is flexible, but sometime in the fall of 2018 would be ideal.

QUALIFICATIONS: Candidates should have completed their PhD in a project relevant field such as evolutionary or vector biology, population genetics/genomics, or a related discipline and they need to have a demonstrated record of research productivity and publication. As the project will involve substantial whole genome and population genomic analyses, familiarity with these fields and the programs most commonly used is a must.

APPLICATION: Review of applications will begin immediately and continue until the position has been filled. Applicants should submit the following material to Adalgisa Caccone (adalgisa.caccone@yale.edu) with 'mosquito postdoc application' in the subject line: 1) A CV including names and contact information of three references, and 2) A one-page research statement describing previous accomplishments and long-term goals. Informal inquiries prior to submission of a full application are welcome.

Yale University values diversity and is committed to equal opportunity for all persons regardless of age, color, disability, ethnicity, marital status, national origin, race, religion, sex, sexual orientation, veteran status, or any other status protected by law.

"Caccone, Gisella" <adalgisa.caccone@yale.edu>

YorkU GenomicsHoneybees

Postdoctoral or Research Associate Position in genomics and bioinformatics at York University, Toronto, Canada.

The honey bee lab (www.yorku.ca/zayedlab) at York University's Dept. of Biology (Toronto, Canada) has a position available for a postdoctoral fellow or research associate with demonstrable expertise in genomics and bioinformatics starting September 2018. We are particularly seeking individuals that have experiences in genome wide association studies.

The successful candidate will participate in the 'BeeOMICS' project 'V a large-scale association study of honey bees comprised of over one thousand colony 'genomes' and many colony-level phenotypes.

Qualified candidates are encouraged to submit a cover letter outlining their expertise, a CV, reprints of relevant papers, and contact information for 3 referees to honeybee@yorku.ca before August 25th. Compensation commensurate with experience.

Best,

Dr. Amro Zayed York Research Chair in Genomics Associate Professor Department of Biology York University 4700 Keele Street, Toronto M3J 1P3, ON, Canada Email: [zayed\[at\]yorku.ca](mailto:zayed[at]yorku.ca) <http://www.yorku.ca/zayedlab>
honeybee@yorku.ca

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Barcelona GeometricMorphometricsWithR Jan21-25

Dear colleagues,

The sixth edition of the course “Geometrics Morphometrics in R” has opened registration.

Dates: January 21th-25th, 2019.

Instructor: Dr. Julien Claude (Institut des Sciences de l'Évolution de Montpellier, France), author of Morphometrics with R (<http://www.springer.com/us/book/9780387777894>).

PLACE: Capellades, Barcelona (Spain).

Registration and more info: <http://www.transmittingscience.org/courses/geometric-morphometrics/geometric-morphometrics-r/> PRO-GRAM:

Monday, January 21st, 2019.

1. An Introduction to R / Image Processing / Organizing Morphometric Data.

1.1. Some Basics in R.

1.1.1. The R Environment.

1.1.2. R objects, Assigning, Indexing.

1.1.3. Generating Data in R.

1.1.4. 2D and 3D Plots in R; Interacting with the Graphs.

1.2. Organizing Data for Morphometrics.

1.2.1. Data-frame, Array and List.

1.2.2. Converting and Coercing Objects.

1.2.3. Read and Write Morphometric Data in R.

1.3. Image Processing in R.

1.3.1. Reading Various Image Files.

1.3.2. Obtaining Image Properties.

1.3.3. Modifying Image Properties: Contrast, Channels, Saturation Directly from R or by Interfacing R with Imagemagick.

1.4. Simple Tests, Simple Linear Modelling, Alternatives to Linear Modelling, an example using traditional morphometrics.

1.4.1. Defining size and shape using PCA and log-shape ratio approaches.

1.4.2. Getting stats and test outputs.

1.4.3. Testing assumptions of linear modelling.

1.4.4. Testing for allometry and isometry.

1.4.5. Solutions when assumptions of linear modelling are not met.

Tuesday, January 22nd, 2019.

1. Landmark data.

2.1. Acquiring Landmark Data in R.

2.2. Plotting Landmark Configurations in 2 and in 3D.

2.2.1. Using Different Symbols and Setting the Graphical Parameters.

2.2.2. Labeling Landmarks.

2.3. Geometric Transformation with Landmark Configurations.

2.3.1. Translation.

2.3.2. Scaling using Baseline or Centroid Size.

2.3.3. Rotation.

2.4. Superimposing and Comparing Two Shapes.

2.4.1. Baseline Superimposition.

2.4.2. Ordinary Least Squares Superimposition.

- 2.4.3. Resistant Fit.
 - 2.5. Representing Shape Differences.
 - 2.5.1. Plotting Superimposed Shape with Wireframe.
 - 2.5.2. Lollipop Diagrams and Vector Fields.
 - 2.5.3. Thin Plate Splines and Warped Shapes.
 - 2.6. Superimposing More Than Two Shapes.
 - 2.6.1. Baseline Registration.
 - 2.6.2. Full Generalized Procrustes Analysis.
 - 2.6.3. Partial Generalized Procrustes Analysis.
 - 2.6.4. Dimensionality of Superimposed Coordinates.
- Wednesday, January 23rd, 2019.
- 2.7. Exploring Shape Variation and Testing Hypotheses.
 - 2.7.1. PCA.
 - 2.7.2. Multivariate Linear Modelling (Multivariate Regression and MANOVA).
 - 2.7.3. Allometry free approaches (Burnaby correction).
 - 2.7.4. Linear discriminant and Canonical Analysis.
 - 1. Outlines.
 - 3.1. Acquiring outline Data in R.
 - 3.2. Fourier Analysis.
 - 3.2.1. Principles.
 - 3.2.2. Fourier Analysis of the Tangent Angle.
 - 3.2.3. Radius Fourier Analysis.
 - 3.2.4. Elliptic Fourier Analysis.
 - 3.2.5. Reduction of Shape Variables.
 - 3.2.6. Statistical Analysis of Shape Variation with Fourier Analysis.
 - 3.2.6.1. Exploring Shape Variation and Testing Hypotheses.
 - 3.2.6.2. PCA.
 - 3.2.6.3. Multivariate Linear Modelling (Multivariate Regression and MANOVA).
 - 3.2.6.4. Canonical Analysis.
- Thursday, January 24th, 2019.
- 3.3. Combining Landmarks and Curves.
 - 3.3.1. Hybrid Methods between Fourier and Procrustes Analysis.
 - 3.3.2. Sliding Semi Landmarks.
 - 3.4. Solutions for Open Curves.
 - 1. Specific Applications.

- 4.1. Testing Measurement Error.
- 4.2. Partitional Clustering.
 - 4.2.1. K-means, Partition Around Medoids.
 - 4.2.2. Mclust.
 - 4.2.3. Combining Genetic, Geographic and Morphometric Data.

With best regards

Sole

Soledad De Esteban-Trivigno, PhD. Scientific Director Transmitting Science <http://www.transmittingscience.org/> Soledad De Esteban-Trivigno <soledad.esteban@transmittingscience.org>

Berlin Comparative Genomics Oct1-5

Dear all,

There are still a few spots left for our course on “Comparative Genomics”, which will take place from the 1st to the 5th of October 2018 at Freie Universität Berlin, Königin-Luise-Str. 6-8, Berlin (Germany).

Our instructors for this course are :

Dr Fritz J. Sedlazeck (<https://fritzsedlazeck.github.io/>) Prof. Dr. Ingo Ebersberger (<https://scholar.google.com/citations?user=-LOOY3kYAAAAJ&hl=en>) Course overview This course will introduce biologists and bioinformaticians into the field of comparative genomics. Different techniques will be introduced to identify single nucleotide polymorphism (SNP) and structural variations (SVs) as well as the annotation of these variations and the assessment for their functional impact.

TARGETED AUDIENCE & ASSUMED BACKGROUND The course is aimed at researchers interested in learning how to compare genomes and what can be learned from genomic similarities as well as variations. It will include information useful for both beginners and more advanced users. We will start by introducing general concepts of comparative genomics. On this basis, we will then continue to describe all major analysis steps from the raw sequencing data via the identification of variations to an assessment of their impact on the phenotype. Attendees should have a background in biology. There will be a mix of lectures and hands-on practical exercises using command line Linux. We will therefore dedicate one session to introduce basic

and advanced Linux concepts for processing data on Amazon cloud (AWS). Attendees should have also some familiarity with genomic data such as that arising from NGS sequencing experiments.

LEARNING OUTCOMES

- * Identification of SNPs and SVs using de novo genome assembly and read mapping strategies
- * Assessment of strengths and weaknesses of the different DNA sequencing technologies, Illumina, Pacific Bioscience, Oxford Nanopore, for the detection of variations
- * Strengths and pitfalls of de novo assembly and mapping approaches for comparative genomics
- * Hands on experience of state of the art methods to compare multiple genomes
- * Annotation of variations and comparative genomics analysis

PROGRAM Monday: Run your own de novo assembly
 Lecture 1 General introduction File formats: FastQ, SAM, BAM Introduction in de novo assembly strategies, best practices and quality control

Lab 1 Setting up the computers/AWS instances Reads QC + trimming De novo assembly Computing General assembly statistics

Tuesday: Run a multi sample SVs comparison
 Lecture 2 What are SVs and why are they important? Mapping of short and long reads Visualization SV calling

Lab 2 How to choose the appropriate short read mapper? Calling of SVs using de-novo and mapping based approaches Comparison of de novo based and mapping based results SV Visualization and quality control

Wednesday: Towards annotating the observed variations
 Lecture 3 Gene prediction RNA-Seq mapping Repeat annotation Gene order analysis

Lab 3 QC and mapping of RNA seq data Annotate genome Visualize read mapping

Thursday: Identifying genes affected by SVs
 Lecture 4 Gene order and their role in regulating gene expression The concept of shared synteny and regulation blocks Evolution of the gene set: Loss, duplication, fissions and fusion of genes

Lab 4 Annotation of variants Identification of orthologs/homologs across species

Friday: Predicting the functional consequences of genomic variations
 Lecture 5 Assessment of gene function (e.g. GO analysis) Functional changes due to loss, SVs, cis-regulation Impact in pathways (e.g. KEGG)

Lab 5: GO annotation and analysis Running your own pathway analysis

Lecture 6: - Summary and discussion

For more information about the course, please visit our website: <https://www.physalia-courses.org/courses-workshops/course34/> Here is the full list of our courses and Workshops: <https://www.physalia-courses.org/courses-workshops/> Best regards,

Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR
info@physalia-courses.org <http://www.physalia-courses.org/> Twitter: @physacourses mobile: +49 15771084054 <https://groups.google.com/forum/#!forum/physalia-courses> "info@physalia-courses.org" <info@physalia-courses.org>

Berlin

Genome Assembly and Annotation

Feb 11-15

Dear all,

we are pleased to inform you that we will run the 2nd edition of our "Assembly and Annotation of genomes" course from the 11th to the 15th of February 2019, in Berlin (Germany)

<https://www.physalia-courses.org/courses-workshops/course20/> Application deadline is: January 10th, 2019.

Instructor:

Dr. Thomas D. Otto (University of Glasgow, UK; <https://www.physalia-courses.org/instructors/t28/>)

Assistant instructor:

Mr. Maximilian Driller (Begnendiv, Germany; <http://bit.ly/2zcwmQT>)

Overview

This course will introduce biologists and bioinformaticians to the concepts of de novo assembly and annotation. Different technologies, from Illumina, PacBio, Oxford Nanopore and maybe 10X will be used mixed with different approaches like correction, HiC scaffolding to generate good draft assemblies. Particular attention will be given to the quality control of the assemblies and to the understanding how errors occur. Further, annotation tools using RNA-Seq data will be introduced. An outlook of potential analysis is given. In the end of the course the students should be able to understand what is needed to generate a good annotated genome.

Targeted Audience & Assumed Background

The course is aimed at researchers interested in learning more about genome assembly and annotation. It will include information useful for both the beginner and the more advanced user. We will start by introducing general concepts and then continue to step-by-step describe all major components of a genome assembly and annotation workflow, from raw data all the way to a final assembled and annotated genome. There will be a mix of lectures and hands-on practical exercises using command line Linux.

Attendees should have a background in biology. We will dedicate one session to some basic and advanced Linux concepts. Attendees should have also some familiarity with genomic data such as that arising from NGS sequencers.

Session content Monday 12th - Classes from 09:30 to 17:30 - “get it starting”

Session 1: Introduction (morning)

In this session I will kick off with an introduction lecture about genome assembly and annotation - the past, the present and the future. I will use this introduction to motivate the five-day course. Next, I will explain the use of the virtual machine (VM), and the use of cloud computing. This is followed by short introduction to Linux. Through the morning we will kick off our first assembly and put it through an annotation tool (Companion).

Session 2: Visualization (half afternoon)

During this afternoon, we are going to visualize the assembled and annotation genome from this morning in Artemis. The aim is to use the viewer to inspect the annotation, correct annotation and write out files. Next, we are going to perform a comparative exercise, (comparing the genome from the morning with a close reference) to understand the concept of synteny, breakpoint or errors.

Session 3: Mapping

In this module, I will teach the basics of read mapping. We will map reads with bwa mem onto a reference and will examine duplications and errors through not proper mapped read pairs. This is important to examine the correctness of assemblies and will be used later the week.

Tuesday 13th - Classes from 09:30 to 17:30 - “learn it the old way”

Session 4: De Bruijn graph and PAGIT

This module is dedicated to short read assembly. Although it might be superseded due to long reads, under-

standing the concept of short reads and De Bruijn graph is crucial. After a seminar about this subject, we will assemble the same genome as before, but this time with Illumina: de novo assembly with velvet, contig ordering, error correction. Through comparative genomics we are going to look at errors in the assembly, and how they could be found with remapping short reads, and also split long reads. Last, we are going to compare the assembly to the assembly from Monday. This session will go into the afternoon of Tuesday.

Session 5: RNA-Seq

In this session, we will analysis the transcriptome of the sample we assembled so far, motivated through a little talk. In the exercise, we will map RNA-Seq reads, (short and long reads) understanding first the basics of RNA-Seq, but then will use the reads to correct gene models. We will discuss the concept of alternative splicing.

Finally, we will annotate our assembly with Augustus, using the mapped RNA-Seq data and some manually corrected genes.

Wednesday 14th - Classes from 09:30 to 17:30 - “do it yourself”

Session 6: Large genome assembly

First we are going to kick off an assembly of a larger genome, and let it run in the cloud over the day and the night. It will be important during the day to check if the assembly is still running.

Session 7: Group Taks I

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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>

Berlin Python Oct-Dec

Dear all,

we are pleased to inform you that we will run two Python courses in Berlin this fall.

Our instructor for both courses is Dr. Martin Jones, who is a bioinformatics expert and founder of Python for Biologists(<http://pythonforbiologists.com/>).

1) Introduction to Python (Berlin, 15-19 October 2018): <https://www.physalia-courses.org/courses->

[workshops/course2/](#) 2) Data visualization with Python (Berlin, 10-14 December 2018):

<https://www.physalia-courses.org/courses-workshops/-course38/> Should you have any questions, please do not hesitate to contact us.

Best regards, Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR
info@physalia-courses.org <http://www.physalia-courses.org/> Twitter: @physacourses mobile: +49 15771084054 <https://groups.google.com/forum/#!forum/physalia-courses> “info@physalia-courses.org” <info@physalia-courses.org>

CornellU
ProgrammingPhylogeneticMethods
Sep20-25

FINAL ANNOUNCEMENT - APPLY NOW: Arbor Short-Course and Hackathon for Phylogenetic Comparative Methods

Short Course; 20-22 Sept 2018 Hackathon; 22-25 Sept 2018 Location: Cornell University, Ithaca NY

***Empiricists*:** Are you sick of fighting with hard-to-use software to carry out phylogenetic comparative analyses? Do you seek a better way to complete analyses that lets you focus more on your data and less on buggy, hard-to-use code?

***Programmers*:** Do you want to implement your methods in an easy-to-use, web-based framework? Would you like to expand your user base by implementing your methods on open-source web pages? Would you like to interact with a network of programmers developing modules to bring new functions to your comparative methods?

If you are either of the above, we announce an NSF-funded Short Course and Hackathon covering version 2.0 of Arbor, our software for comparative methods.

We will hold the ***Short Course/Workshop*** for end users from Sept 20-22 2018. Attendees will learn how to use Arbor to carry out ancestral state reconstructions, test linear models, and many other comparative analyses using a simple drag-and-drop interface implemented over the web. The workshop will also include a series of lectures on the basics of phylogenetic comparative methods, as well as a chance for users to discuss their work in a creative and supportive environment.

We will hold a ***Hackathon*** for programmers on 22-25 Sept 2018. Attendees will learn how Arbor can enable them implement their own comparative method(s) over the web, instantaneously building their userbase and enabling integration with other software through workflow development. We will cover how to build and host Arbor instances, implement new workflows combining methods for data manipulation, analysis, and visualization, and deploy these workflows on custom Arbor app pages providing an easy-to-use interface for users of all abilities.

Both the workshop and the hackathon have funds available to support travel and lodging for attendees. Apply by filling out this Google Doc application < https://docs.google.com/forms/d/e/1FAIpQLSef_eYz_0nnSn242O5jPR39dp4r-UA6hYBf8A3eb9L0aNaZ1g/viewform?c=0&w=1 > form by ***July 16 2018***.

Questions?

Luke Harmon: lukeh@uidaho.edu

Bob Thacker: robert.thacker@stonybrook.edu

Chelsea Specht <cdspecht@cornell.edu>

FrenchGuiana
8thDNAMetabarcodingSchool
Oct4-11

Dear colleagues,

The registration deadline for the eighth DNA metabarcoding Spring School in French Guiana has been extended to August the 3rd. Below the description of the school. For more information please consult the following web page: <http://metabarcoding.org/A88> < <http://metabarcoding.org/A88> >

All the best.

For the organisation committee.

DNA metabarcoding is a rapidly evolving method for assessing biodiversity from environmental DNA and bulk samples. It has a wide range of applications: biodiversity monitoring, animal diet assessment, reconstruction of paleo communities, among others. DNA metabarcoding uses molecular techniques such as PCR and next generation sequencing, and requires a broad range of skills, as it integrates molecular biology, bioinformatics, biostatistics, and ecology.

The DNA metabarcoding spring school is now in its eighth edition. This year, it is co-organized by the metabarcoding.org team and the Center for the Study of Biodiversity in Amazonia (CEBA) at the Nouragues Scientific Station in French Guiana

The DNA metabarcoding spring school will be held from October 4th to 11th, 2018

The school will be divided into lectures and practicals.

All the lectures and the practicals will be taught in English. The number of participants to this school is limited to 16.

Candidates can apply for the school by sending an email to the following address :

nouragues2018@metabarcoding.org

The email must contain a brief curriculum vitae and a letter of motivation indicating how the applicant's research will benefit from DNA metabarcoding and what (s)he is hoping to learn from this school. As part of the course, each participant will have to give a flash talk (5 minutes) about their research and how it is related to DNA metabarcoding.

Main lecturers - Frédéric Boyer (LECA, CNRS, France) - Eric Coissac (LECA, UGA, France) - Eric Marcon (EcoFog, AgroParisTech, France) - Pierre Taberlet (LECA, CNRS, France) - Heidy Schimann (EcoFog, INRA, France) - Lucie Zinger (IBENS, ENS, France)

Course Schedule

The lectures will cover different aspects of DNA metabarcoding. The bioinformatics practicals will introduce data analysis from raw sequences to basic ecological conclusions. The molecular ecology practical will present basic techniques for DNA extraction in the field and DNA amplification by PCR.

Venue

The school will take place at the Nouragues Scientific Station, in the middle of the Amazonian forest in French Guiana.

This location has accommodation for all participants in "carbet". This is not a classical hotel with all the associated services. You will have to bring your hamac and mosquito net. For details on how to fill your luggages (clothes, shoes, insect repellants, etc.), carefully read the Nouragues web site (<http://www.nouragues.cnrs.fr/>).

Attendees will be taken in charge at the Cayenne city center and will be transported to the field station by pirogues or helicopters. Therefore it will not be possible to arrive after the beginning of the school or to leave before the end.

For leaving the field station at the end of the school, a four hours walk to reach the river will have to be done. Cost of the school:

The return trip between Cayenne and the field station, the fees to stay at the field station including the meals and the lecture cost are taken in charge by the school organisation. Participants have to pay for their trip up to Cayenne and for their stay in Cayenne before and after the school.

To get there:

The appointment for the trip to the Nouragues field station is set on October the 4th early in the morning. Therefore attendees will have to be at Cayenne at least the day before. Participants will have to reach Cayenne on their own.

Direct flight are available daily from Paris to the Cayenne-Félix Eboué Airport. The two major companies offering these flights are : Air Caraïbes and Air France. Other flights are also available from few cities. The following link resume the main international connections to Cayenne.

For some countries, France requires a Schengen entry visa, to be arranged before the travel.

Yellow Fever vaccination and the corresponding International Vaccin certificat are Mandatory

Lucie Zinger, PhD Associate Professor

Ecology and Evolutionary Biology Section Institut de Biologie de l'Ecole Normale Supérieure (IBENS) Ecole Normale Supérieure 46 rue d'Ulm 75005 Paris FRANCE

Phone:+33 625 458 707 emails: lucie@zinger.fr; lucie.zinger@ens.fr Skype: lucie.zinger

Lucie Zinger <zinger.lucie@gmail.com>

IndianaU

FREEDeNovoTranscriptome Oct1-3

Supercomputing for Everyone Series: de novo assembly of transcriptomes using HPC resources workshop

The National Center for Genome Analysis Support (NCGAS) at Indiana University seeks interested participants for this FREE National Science Foundation-sponsored two-day workshop.

Registration page: <http://go.iu.edu/21IC> NCGAS is offering a National Science Foundation-sponsored, two-day

workshop on high performance computing (HPC) usage and de novo transcriptome assembly. It will take place October 1-2 on the IU Bloomington campus. There are limited spots on October 3 to have one-on-one consultation sessions with NCGAS Staff. Registration is free, but application is required.

The workshop will include discussions, lectures, and hands-on tutorials to cover topics important to getting started constructing and analyzing transcriptomes without the use of a ?genome. Material covers both the availability and use of HPC resources, alongside the task of assembling a new transcriptome, in order to provide a more comprehensive preparation for this and future bioinformatic tasks.

Transcriptome assembly will consist of using four separate assemblers (Trinity, SOAP de novo, Velvet Oases, and TransABySS), with multiple kmers, to be combined and curated with Evigenes. This combined assembly with multiple parameters is considered much more robust than simply using one assembler, and the NCGAS pipeline streamlines the process and allows for customization if desired.

While material will make heavy use of XSEDE and IU machines, the material is transferable to any cluster.

Deadline to apply: August 6, 2018.?

Please direct questions to ss93@iu.edu?

Sheri Sanders Bioinformatic Analyst National Center for Genome Analysis and Support (NCGAS)

NCGAS is part of the Research Technologies division of UITS; Research Technologies is a PTI Cyberinfrastructure & Service Center.

“Sanders, Sheri” <ss93@iu.edu>

InsitutPasteur
IntroToMolecularPhylogenetics
Oct22-27

C3BI Courses: Introduction to Molecular Phylogenetics - Hong Kong, 22 - 27 October 2018

At HKU-Pasteur Research Pole, HKJC Building for Interdisciplinary Research, 5 Sassoon Road, Pokfulam, Hong Kong.

Deadline for applications August 7

This introductory course aims to give the basic theoret-

ical and practical concepts, best practices, and software necessary to start working on molecular phylogenetics and its applications to epidemiology. The course will have theoretical morning sessions followed by small groups practice for a few selected students with their own data.

Topics:

Introduction to phylogeny: general principles for the inference, interpretation of trees, and application to infectious diseases; Introduction to the math behind the trees and evolutionary models; Distance and parsimony methods; Maximum likelihood methods; Bayesian methods, phylodynamics; Branch supports, bootstrapping; How to select the best method and evolutionary model; Tree dating, reconstructing and using character evolution; Molecular epidemiology.

Faculty :

Chair: Olivier GASCUEL, C3BI, Institut Pasteur (France)

Veronika BOSKOVA, ETH Zurich (Switzerland); Sebastian DUCHENE, University of Melbourne (Australia); Julien GUGLIELMINI, C3BI, Institut Pasteur (France); Tommy LAM, The University of Hong Kong (Hong Kong); Frederic LEMOINE, C3BI, Institut Pasteur (France); Hein Min TUN, The University of Hong Kong (Hong Kong); Tim VAUGHAN, ETH Zurich (Switzerland); Anna ZHUKOVA, C3BI, Institut Pasteur (France).

Applications:

Open to postgraduate students, MD, DVM, postdoctoral fellows and young scientists from Hong Kong and overseas. The course fees are 500HK for the theory sessions and 1000HK for the full course. Students coming from the Institut Pasteur international Network will have the fees waived.

To see the details go to hkupasteur.hku.hk

Best regards,

Simon Muller

Simon Muller Communications Officer | Scientific Officer Consulate General of France in Hong Kong and Macau HKU-Pasteur Research Pole

simonmb <simonmb@hku.hk>

Norway
Population Genetics Of Polyploids
Dec1-7

Population genetics of polyploids, from theory to practice -> This hands-on course will take place in the Drøbak Marine Research Station (near Oslo, Norway) from the 1st to the 7th of December 2018.

Location info: <https://www.mn.uio.no/ibv/english/-research/sections/aqua/Infrastructure/biological-station/> Confirmed teachers: Filip Kolář*, Patrick Meirmans*, Marc Stift*, Olivier Hardy, Camille Roux, Patrick Monnahan *course organisers Course dates: 1-7 Dec 2018 Application deadline: September 1st 2018.

More details and preliminary program: <https://www.forbio.uio.no/events/courses/2018/-polyploids.html> Objectives: Polyploidy is widespread and frequent in plants (including many crops), but also occurs in animals such as fish and amphibians. However, our understanding of the genetics of polyploid populations and populations of mixed ploidy is still poor. This is mainly because population genetics theory was originally developed for diploids. Moreover, there is often a gap between theory developed for polyploids and its practical implementation. This practically-oriented course will attempt to bridge this gap. Simulation-based exercises (among others using R) will elucidate theoretical foundations of both diploid and polyploid population genetics. Additionally, analyses of real or realistic example datasets (microsatellite and SNP markers) will give participants hands-on training in several available methods for the population genetic analysis of polyploids.

The exact course contents are not cast in stone, but will include clustering methods with specific attention for the problem of mixed ploidy, evolutionary history reconstruction of polyploid complexes, the effect of mating system variation, and detection of linked selection in polyploid genomes. Participants will also devote time to a group project focused on application of gathered knowledge in further modelling or on analyses of sample or own datasets and discussion of further prospects and methods limitations.

Prerequisites: Basic knowledge of R programming language and general knowledge of population genetic foundations of diploid populations (diversity, differentiation,

inbreeding). Experience in scripting in R is useful, but for the beginners there will be an extra R-introductory day before the workshop start.

Costs: course participation is free (!) and includes food and accommodation, but travel arrangements are at own cost. Please apply to participate using the link to the registration form on

<https://www.forbio.uio.no/events/courses/2018/-polyploids.html> where you should upload a ca 200-500 word summary of your research and motivation and the CV, merged in a single PDF file. This should be done no later than September 1st 2018 (we may only consider later applications in case the course is not fully booked). In case the participant is willing to provide his/her own data for the project work (not obligatory), please also upload a short description of your data set (organism, type of markers, analyses done/in progress) and scientific questions addressed. There is a maximum of 16 participants. If needed, we will select participants based on topical relevance and motivation). Members of ForBio and PhD students will be prioritized (but MSc students and postdocs will also be considered). For non-ForBio members we require registration as ForBio associates (free of charge).

We look forward to your application, Filip, Patrick and Marc.

marcstift@gmail.com marcstift@gmail.com

QueensU Belfast
EvoAnimalBehaviour Aug29-30

Dear all,

Just a reminder that there is one week left until abstract submission closes for the upcoming interdisciplinary workshop 'Broader perspectives on animal contests' to be held at Queen's University Belfast from 29th-30th August.

The aim of this workshop is to gather perspectives from across disciplines so we really encourage anyone with an interest to register.

See details of the workshop below or on our website < <https://contestsworkshop.wordpress.com/> >.

If you have any questions please contact us at asab.workshop@qub.ac.uk.

We hope to see you there!

Sarah Lane and Gareth Arnott

*** ABSTRACT DEADLINE EXTENDED TO MONDAY 23rd JULY***

Interdisciplinary workshop: 'Broader perspectives on animal contests' Wednesday 29th August - Thursday 30th August 2018 Queen's University Belfast

This ASAB-funded two-day workshop is aimed at anyone studying contests and aggression, as well as those interested in bringing their disciplinary expertise to this area.

We encourage anybody with an interest in contests, from economists to psychologists and biologists, everyone is welcome.

The workshop will include the opportunity for delegates to give short research talks (15-20 min) within themed sessions, as well as a chance for structured discussion concerning timely topics in the contests field.

Confirmed plenary speakers:

- Professor Yuying Hsu | National Taiwan Normal University
- Professor Mike Mesterton-Gibbons | Florida State University
- Dr Dayu Lin | New York University

Dr Sarah Lane Postdoctoral Research Fellow Marine Biology and Ecology Research Centre Plymouth University Davy 620 01752 584618 <https://sarahlanebehaviour.wordpress.com/> Sarah Lane <sarah.lane@plymouth.ac.uk>

QueensU Belfast
EvolAnimalBehaviour Aug29-30
Deadline

*** TODAY IS THE FINAL DAY FOR ABSTRACT SUBMISSION***

Interdisciplinary workshop: 'Broader perspectives on animal contests' Wednesday 29th August - Thursday 30th August 2018 Queen's University Belfast

Submit your abstract and register here < <https://contestsworkshop.wordpress.com/registration-abstract-submission/> >.

This ASAB-funded two-day workshop is aimed at anyone studying contests and aggression, as well as those interested in bringing their disciplinary expertise to this

area.

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Dr Sarah Lane Postdoctoral Research Fellow Marine Biology and Ecology Research Centre Plymouth University Davy 620 01752 584618 <https://sarahlanebehaviour.wordpress.com/> <<http://www.plymouth.ac.uk/worldclass>>

Sarah Lane <sarah.lane@plymouth.ac.uk>

Turkey ComputationalEcolEvolution
Sep16-22

The Ecology and Evolutionary Biology Society of Turkey and evolutionary biologists from Greece are proud to announce the 1st Aegean Seminars for Computational Ecology and Evolution to be held at the Izmir Institute of Technology between 16 - 22 September 2018. For registration (deadline August 1st) and details please visit: <https://aegeancompecevo.wixsite.com/home/-application> Efe Sezgin efeszgn0@gmail.com On Behalf of Organization Committee

Efe Sezgin <efeszgn0@gmail.com>

UBristol UK CerealsDB Sep18-19

The Cereal genomics group at the University of Bristol are hosting a two-day bioinformatics workshop focussing on the CerealsDB website.

The workshop will take place on Tuesday 18th September and Wednesday 19th September at the Bristol University Life Sciences Building.

We will provide training for life scientists and plant breeders enabling them to explore the wealth of genomic data contained in CerealsDB and related bioinformatics resources.

The content examines the data repositories, resources and web tools available to explore and analyse wheat SNP datasets and introduces the principles of web services for data integration and high-throughput programmatic access to CerealsDB. The course is expected to be of interest to early career plant breeders and researchers with an interest in wheat genomics.

Travel expenses and accommodation will be provided for successful UK candidates.

Interested applicants should contact Paul.Wilkinson@bristol.ac.uk providing information on their background in wheat genomics and their eligibility for this course. Applications are also accepted via the CerealsDB website:

<http://www.cerealsdb.uk.net/cerealgenomics/-CerealsDB/workshop-2018.php> Best regards, Paul Wilkinson

Paul Wilkinson <Paul.Wilkinson@bristol.ac.uk>

UGroningen PopulationDynamics Oct21-26

Postgraduate Course on 'Linking Community and Ecosystem Dynamics'

This is the first announcement of the winter school for PhD students and Postdocs on Linking Community and Ecosystem Dynamics organized by Research School Ecology & Evolution of the Groningen Institute

for Evolutionary Life Sciences (GELIFES; University of Groningen, Netherlands).

The school will be held in the University field station 'De Herdershut' on the Dutch island of Schiermonnikoog from October 21 - 26 2018.

Scope of the course

The research fields community and ecosystem ecology have diverged more or less independently over the last decennia. In community ecology progress is made in understanding shifts in community composition under the influence of environmental change and how these shifts can be explained by functional trait approaches of component species. Also, the importance of positive feedbacks in community dynamics is more and more appreciated, and merged with trophic interactions in ecological networks. Studies in ecosystem ecology traditionally have a strong focus on energy and nutrient fluxes and how deviation in these fluxes affect ecosystem functioning and stability. Recent studies reveal tight links between these sub-disciplines that enforce us to rethink how communities and ecosystems interact.

This course focuses on theoretical concepts, such as autocatalytic loops and positive and negative feedbacks between organisms in ecological networks, as well as the importance of non-trophic interactions by ecosystem engineers. The course will address how these principles can be used to link communities to ecosystems enabling a better understanding of how environmental changes affect community and ecosystem dynamics. Students will construct ecological networks of their own study system or based on literature data and analyze these using structural equation modelling.

Course Set-up

The course is composed of a series of lectures, a poster session, analysing ecological networks using structural equation modelling and finalized with a debating session.

Poster session: Prior to the course, participants submit a poster of their work (A4-size) in PDF, which will be printed and included in the course reader. The poster contains name and affiliation, title and short description of research project (including concepts) with one highlight (something exciting) and the reason you want to participate in this course. During the course, participants briefly pitch their research (maximum 3 slides) and indicate where they would like to receive input from the course participants and lecturers.

Lectures and discussion: Each day starts with a key speaker who will give a lecture on one of the key course topics (covering both general theory and own research). After lecture a discussion which is convened by three

participants who challenge the speaker on the lecture and two papers that the speaker submitted which are related to the topic of the lecture (participants will receive these before the course to prepare them self).

Group activities: In the afternoons, participants will be split into working groups, which will work on specific group assignments associated with the topic of the course (design ecological networks and analysing these). The exact topics of these activities will be selected by the participants. Each group will present the results to all course participants the following day. Group activities will be supervised by the lecturers and course organizers (which are present the whole course), so that the students can optimally benefit from experts that are among the leaders in their fields.

Debating session: We will debate propositions that have been brought forward by speakers, students or have appeared to be a point of discussion during the course.

Course lecturers include Prof. Neil Rooney (U. of Guelph), Prof. Han Olf (U. of Groningen), Prof. Matty Berg (Free University Amsterdam), Prof. Tjeerd Bouma (Netherlands Institute for Sea Research).

Further information on the programme can be found on the course webpage of the Research School Ecology & Evolution: <http://www.rug.nl/research/ecology-and-evolution/phdcourses/communityecosystemdynamics2018>

Pre-registration for the course is now open.

Dr. Corine M. Eising

Adaptive Life < <http://www.rug.nl/research/fmns/themes/adaptive-life> > Administrative coordinator

PhD Coordinator & Policy Officer

Groningen Institute for Evolutionary Life Sciences (GELIFES)

P.O.Box 11103, 9700CC

Groningen, The Netherlands

Corine Eising <c.m.eising@rug.nl>

UK IntroToRForBiologists Oct28-Nov1

Introduction to R for biologists (IRFB02)

<https://www.prstatistics.com/course/introduction-to-statistics-and-r-for-biologists-irfb02/> This course

will run from the 29th October - 1 November 2018 in Glasgow and will be delivered by Dr. Olivier Gauthier

Here is a brief overview and course programme, if you want more details or to ask about suitability please email oliverhooker@prstatistics.com

Course overview: The course will consist of a series of 8 modules each lasting roughly half a day, and designed to build required skills for subsequent modules and more advanced courses. At its conclusion, participants will have acquired basic skills in coding with R, and will be able to perform and interpret simple analyses, and critically evaluate similar analyses from the scientific literature and technical reports.

Monday 28th 1. Data visualisation using ggplot2 2. Packages, names, data types 3. Read, write, access, manipulate data

Tuesday 29th 1. Scripts and projects 2. Probability distributions, parameter estimation, confidence intervals 3. Null hypothesis testing

Wednesday 30th 1. Control statements 2. Writing R Functions 3. Simple linear regression

Thursday 1st 1. Multiple linear regression (Estimation of model parameters, Ordinary and standardized regression coefficients, Multicollinearity, Hypothesis testing) 2. Model and variable selection

Check out our sister sites, www.PRstatistics.com (Ecology and Life Sciences) www.PRinformatics.com (Bioinformatics and data science) www.PSstatistics.com (Behaviour and cognition)

1. July 23rd - 27th 2018 EUKARYOTIC METABARCODING (EUKB01) Glasgow, Scotland, Dr. Owen Wangenstein <http://www.prinformatics.com/course/eukaryotic-metabarcoding-eukb01/> 2. October 1st - 5th TIME SERIES MODELS FOR ECOLOGISTS (TSME02) Glasgow, Dr Andrew Parnell

<https://www.prstatistics.com/course/time-series-models-foe-ecologists-tsme02/> 3. October 1st - 5th 2018 INTRODUCTION TO LINUX WORKFLOWS FOR BIOLOGISTS (IBUL03) Glasgow, Scotland, Dr.

Martin Jones <https://www.prinformatics.com/course/introduction-to-linux-workflows-for-biologists-ibul03/>

4. October 8th - 12th 2018 INTRODUCTION TO FREQUENTIST AND BAYESIAN MIXED (HIERARCHICAL) MODELS (IFBM01) Glasgow, Scotland, Dr Andrew Parnell <https://www.psstatistics.com/course/introduction-to-frequentist-and-bayesian-mixed-models-ifbm01/> 5. October 15th - 19th 2018 APPLIED BAYESIAN MODELLING FOR ECOLOGISTS AND EPIDEMIOLOGISTS (ABME04) Glasgow, Scotland, Dr. Matt Denwood, Emma Howard

<http://www.prstatistics.com/course/applied-bayesian-modelling-ecologists-epidemiologists-abme04/> 6.

October 23rd - 25th 2018 INTRODUCTION TO R (This is a private 'house' course) London, England, Dr William Hoppitt

7. October 29th - November 2nd 2018 INTRODUCTION TO R AND STATISTICS FOR BIOLOGISTS (IRFB02) Glasgow, Scotland, Dr. Olivier Gauthier <https://www.prstatistics.com/course/-introduction-to-statistics-and-r-for-biologists-irfb02/>

8. October 29th - November 2nd 2018 INTRODUCTION TO BIOINFORMATICS FOR DNA AND RNA SEQUENCE ANALYSIS (IBDR01) Glasgow, Scotland, Dr Malachi Griffith, Dr. Obi Griffith www.prinformatics.com/course/precision-medicine-bioinformatics-from-raw-genome-and-transcriptome-data-to-clinical-interpretation-pmbi01/

9. November 5th - 8th 2018 PHYLOGENETIC COMPARATIVE METHODS FOR STUDYING DIVERSIFICATION AND PHENOTYPIC EVOLUTION (PCME01) Glasgow, Scotland, Dr. Antigoni Kaliontzopoulou <https://www.prstatistics.com/course/phylogenetic-comparative-methods-for-studying-diversification-and-phenotypic-evolution-pcme01/>

10. November 19th - 23rd 2018 STRUCTURAL EQUATION MODELLING FOR ECOLOGISTS AND EVOLUTIONARY BIOLOGISTS (SEMR02) Glasgow, Scotland, Dr. Jonathan Lefcheck

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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/evo/evodir.html>

UK Population Genetics Feb11-15

Reproducible data science for population genetics (RDPG02)

This course is being delivered by Dr Thibaut Jombart and Dr Zhian Kamvar (authors of the Adgenet package which will focus heavily in the course) from the 11th - 15th February 2019 in Glasgow City Centre

Course Overview: With the increasing availability of various types of genetic and genomic data, population genetics and molecular ecology are becoming largely data driven sciences. Understanding the evolutionary, demographic, and ecological underpinning the genetic

makeup of natural populations now relies on a combination of exploratory approaches and models. This course will provide an in-depth introduction to these techniques, with a strong emphasis on reproducibility though the use of modern analytic practices and tools. After an introduction to phylogenetic reconstruction, the course will cover a number of multivariate approaches for the analysis of genetic patterns, including supervised and unsupervised factorial methods, clustering approaches, and advanced methods for describing population diversity and revealing spatial genetic patterns. The approaches introduced will be applicable to most genetic data, including markers such as microsatellites, SNPs, or AFLP, as well as nucleotide and amino-acid sequence data. Every day will start with a lecture dedicated to a type of problem and methods, followed by an introduction to a specific technique for reproducible data analysis; afternoon will be devoted to hands on practicals. The last day will be devoted to open problems, where participants will be able to analyse their own data.

Intended Audience The course is aimed at PhD students, research postgraduates, and practicing academics as well as persons in industry working with genetic data in fields such as molecular ecology, evolutionary biology, and phylogenetics.

Email oliverhooker@prstatistics.com

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UPCOMING COURSES!

1. July 23rd - 27th 2018 EUKARYOTIC METABARCODING (EUKB01) Glasgow, Scotland, Dr. Owen Wangenstein <http://www.prinformatics.com/course/-eukaryotic-metabarcoding-eukb01/>

2. October 1st - 5th Time series models for ecologists (TSME02) Glasgow, Dr Andrew Parnell <https://www.prstatistics.com/course/-time-series-models-foe-ecologists-tsme02/>

3. October 1st - 5th 2018 INTRODUCTION TO BIOINFORMATICS USING LINUX (IBUL03) Glasgow, Scotland, Dr. Martin Jones <https://www.prinformatics.com/course/-introduction-to-linux-workflows-for-biologists-ibul03/>

4. October 8th - 12th 2018 INTRODUCTION TO FREQUENTIST AND BAYESIAN MIXED (HIERARCHICAL) MODELS (IFBM01) Glasgow, Scotland, Dr Andrew Parnell <https://www.psstatistics.com/course/introduction-to-frequentis-and-bayesian-mixed-models-ifbm01/>

5. October 15th - 19th 2018 APPLIED BAYESIAN MODELLING FOR ECOLOGISTS AND EPIDEMIOLOGISTS (ABME) Glasgow, Scotland, Dr. Matt Denwood, Emma Howard

<http://www.prstatistics.com/course/applied-bayesian-modelling-ecologists-epidemiologists-abme04/>

6. October 23rd - 25th INTRODUCTIUON TO R (This is a private 'in-house' course) London, England, Dr William Hoppitt

7. October 29th - November 2nd 2018 INTRODCUTION TO R AND STATISTICS FOR BIOLOGISTS (IRFB02) Glasgow, Scotland, Dr. Olivier Gauthier Link to follow - see previous <https://www.prstatistics.com/course/introduction-to-statistics-and-r-for-biologists-irfb01/>

8. October 29th - November 2nd 2018 INTRODUCTION TO BIOINFORMATICS FOR DNA AND RNA SEQUENCE ANALYSIS (IBDR01) Glas-

gow, Scotland, Dr Malachi Griffith, Dr. Obi Griffith www.prinformatics.com/course/precision-medicine-bioinformatics-from-raw-genome-and-transcriptome-data-to-clinical-interpretation-pmbi01/ 9. November 5th - 8th 2018 PHYLOGENETIC COMPARATIVE METHODS FOR STUDYING DIVERSIFICATION AND PHENOTYPIC EVOLUTION (PCME01) Glasgow, Scotland, Dr. Antigoni Kaliontzopoulou

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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>

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 send to me at Golding@McMaster.CA and processed later. In either case, please do not expect an instant response.

Afterword

This program is an attempt to automatically process a broad variety of e-mail messages. Most preformatting is collapsed to save space. At the current time, many features may be incorrectly handled and some email messages may be positively mauled. Although this is being produced by \LaTeX do not try to embed \LaTeX or \TeX in your message (or other formats) since my program will strip these from the message.