
E v o l D i r

November 1, 2014

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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Basel MacrostromumEvolution Nov28-30

8th International Macrostromum Meeting: Evolution and Development in the free-living flatworm genus Macrostromum

We are happy to announce that we will hold the “8th International Macrostromum Meeting” (8th IMM) here in Basel. The meeting will last from the evening of Friday, 28.11.2014 at 18:00 to the evening of Sunday, 30.11.2014 at around 16:00.

With the “First International Macrostromum Meeting”, which took place in 2007, also in Basel, we have started a tradition of bringing together annually the growing community of researchers that are either using flatworms of the genus Macrostromum in their research or who are otherwise interested in research on this interesting model organism.

The topics of contributed talks and posters will likely span Aging, Development, Genomics, Genome Editing, Transcriptomics, Transgenesis, Regeneration, Neurobiology, Ecotoxicology, Systematics, Phylogenetics, and

Sexual Selection. It is a great opportunity to get an update on what is happening in the Macrostromum Community, and to establish personal contacts if you consider to start working on these lovely worms.

As before, we want to keep things very simple and we expect everyone to be prepared to cover their own costs. In addition, we will, during the meeting, collect a small fee to cover sandwich lunches, refreshments and a joint dinner on Saturday evening (60 Euros in total). For students we will try to find floor space accommodation in the apartments of people in our group (just bring along a mat and a sleeping bag). Please let us know if you would like to be accommodated in this way (see the form below). We’ll do what we can.

The other people should make a hotel reservation soon, because there are many fairs in Basel, and hotels can fill up quickly. We suggest that you book your room in the Hotel RoCHAT, where we routinely host guests that visit our department (<http://www.hotelrochat.ch>), and where we therefore have special rates. These rates are 125.- CHF for single rooms and 180.- CHF for double rooms. They also have 3- and 4-bed rooms for 210.-, and 240.- CHF, respectively, if you want to share costs. The Hotel RoCHAT is just five minutes by foot from the Institute. Please contact them directly to make your arrangements/payments, and mention the Zoological In-

stitute when you book to get the special rates.

For people coming by plane, please note that Easyjet (<http://www.easyjet.com>), Swiss (<http://www.swiss.com>), and AirBerlin (<http://www.airberlin.com/>) are flying to Basel from many European destinations.

If you would like to attend the meeting (and present a poster or talk) please fill out and return the form below to lukas.scharer@unibas.ch until 5. November at the latest.

Hopefully see you soon in Basel,

Lukas Schärer Dita Vizoso Lucas Marie-Orléach

First Name: xx Last Name: xx Institution (incl. address and Country): xx

Tel: xx Email: xx

Presentation (delete as appropriate): Oral/Poster/None Title: xx Authors: xx Institutions: xx Abstract (max. 300 words): xx

I am a student (delete as appropriate): Yes/No I want floor accommodation (delete as appropriate): Yes/No

I am looking at these kinds of worms <http://macrostomorpha.info> and studying these questions <http://evolution.unibas.ch/scharer> PD Dr. Lukas Scharer University of Basel Zoological Institute Evolutionary Biology Vesalgasse 1 4051 Basel Switzerland Tel: ++41 61 267 03 66 Fax: ++41 61 267 03 62 Email: lukas.scharer@unibas.ch Homepage: <http://evolution.unibas.ch/scharer/index.htm> Lukas Schärer <lukas.scharer@unibas.ch>

Brazil EvolutionaryResponseClimateChange Mar

A symposium entitled “Evolutionary Response of Marine Organisms to Climate Change” will be held as part of the Climate Change conference in Brazil in March 2015.

Our motivation is to address the scarcity of genetic evidence for evolution in response to climate change.

The deadline for submission of abstracts for the symposium is 31 Oct 2014.

The Plenary Speaker for the symposium is Philip Munday (ARC Centre of Excellence for Coral Reef Studies,

James Cook University, Australia).

The Invited Speaker is Robin Waples (Northwest Fisheries Science Centre, US).

More information about the Symposium and a link to the conference can be found here :-

<http://www.molecularfisherieslaboratory.com.au/evolutionary-response-to-climate-change/> Best, Jenny Ovenden and Einar Nielsen (Symposium convenors)

Jennifer Ovenden Head, Molecular Fisheries Laboratory Principal Research Fellow, School of Biomedical Sciences, UQ Affiliate Associate Professor, School of Biological Sciences, UQ Associate Editor Marine Freshwater Research IF 2.25 and Fish and Fisheries IF 8.76.

Jennifer Ovenden <j.ovenden@uq.edu.au>

Edinburgh QuantGenetics Oct31

The Edinburgh Alliance for Complex Trait Genetics, E-ACTG will run its seventh meeting, sponsored by the Genetics Society, on Friday 31st October 2014 at the Royal Society of Edinburgh, 22-26 George Street, EH2 2PQ. Programme below. The event is free. Anyone wanting to attend should sign up at <http://tinyurl.com/lsk3ned> by 24th October (or earlier if the meeting room reaches capacity).

Josephine Pemberton & Chris Haley, University of Edinburgh

13.00 Arrival, registration, coffee and biscuits

13.30 Gail Davies (Centre for Cognitive Ageing and Cognitive Epidemiology, Edinburgh) General cognitive function: a meta-analysis of genome-wide association studies in the CHARGE Consortium (N = 53 949)

14.00 Doug Speed (UCL Genetics Institute, London) Gene-based association testing and other fun things to do with heritability analysis.

14.30 Eileen Wall (SRUC, Edinburgh) Genetic improvement options for reducing of greenhouse gas emissions from ruminant production systems.

15.00 Santosh Atanur (Institute of Genetics and Molecular Medicine, Edinburgh) Genome sequencing reveals loci under artificial selection in laboratory rats.

15.30 Tea

16.00 Jacob Moorad (Institute of Evolutionary Biology, Edinburgh) Indirect genetic effects on post-reproductive lifespan in humans.

16.30 Heather Cordell (Institute of Genetic Medicine, Newcastle University) Comparison of family-based association tests in complex genetic diseases: Application to a Brazilian family study of visceral leishmaniasis.

17.00 Peter Joshi (Centre for Population Health Sciences, Edinburgh) Inbreeding depression for complex traits in humans.

17.30 Discussion and refreshments

Prof. J.M. Pemberton Institute of Evolutionary Biology University of Edinburgh West Mains Road EH9 3JT

Tel: 0131 650 5505 Fax: 0131 650 6564 Web: <http://wildevolution.biology.ed.ac.uk/>

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

Josephine Pemberton <j.pemberton@ed.ac.uk>

Gordon UNewEngland Evolutionary Genomics Jul12-17

Conference: Ecological and Evolutionary Genomics Gordon Research Conference July 12-17 2015 at University of New England, Biddeford, ME

>From Genomes to Biomes: Using Biodiversity to Explore Biocomplexity.

>From genomes to biomes, from microbes to plants and animals, the 2015 Gordon Research Conference on Ecological and Evolutionary Genomics will highlight how genome-enabled approaches are helping to rapidly advance our understanding of the complicated relationship between genotype, phenotype and the environment. Topic areas such as population genomics, adaptation & speciation, symbiosis and interacting organisms, biodiversity & phylogenomics, community & ecosystem genomics, genetic and ecological networks, methods & non-model organisms, genomics & animal behavior, and applications of ecological and evolutionary genomics, will highlight how biodiversity can be used to illuminate complex biological relationships and inform ecological and evolutionary processes and molec-

ular mechanisms of adaptation to changing environments. The conference will also feature emerging approaches and technologies to aid further exploration of the genomes from organisms that span the tree of life. Gordon Conferences are famous for fostering in depth interactions that yield new insights in a collegial atmosphere.

Co-chairs, Jack Werren (University of Rochester) and Michael Herman (Kansas State University) along with Vice-chairs Felicity Jones (Max Plank Institute, Tübingen) and Michael Pfrender (University of Notre Dame) invite you to join us on the ocean-side campus of the University of New England in Biddeford, Maine for a stimulating conference. We are assembling a diverse group of established and early career investigators to discuss their latest work. Discussion leaders and symposium speakers will also be chosen from among the applicants. The organizers are actively seeking funds to assist students and others attend the meeting. Applications for attendance will be accepted until the meeting is full, don't delay! Applications to attend are now open and information can be found at <http://www.grc.org/programs.aspx?id=13135> (click the "For Attendees" link). Please plan on joining us in Biddeford in 2015!

Symposium Topic Areas & Speakers as of 27 October 2014 Population Genomics, Adaptation & Speciation (Andy Clark, Josephine Pemberton, Elodie Ghedin) Symbiosis & Interacting Organisms (Angela Douglas, Siv Andersson, Takema Fukatsu, Todd Schlenke) Behavioral Ecology Meets Genomics (Laurent Keller, Wayne Potts, Amy Toth, TBA) Networks: From Genes to Ecosystems (Patricia Wittkopp, Cedric Feschotte, Alvaro Sanchez, Karoline Faust) Applications of Ecological & Evolutionary Genomics (Sherry Flint-Garcia, Joe Shaw, John Colbourne) Advances in Genomic Approaches in Non-Model Organisms (Steven Salzberg, Wes Warren, TBA) Biodiversity & Phylogenomics (Holly Bik, Casey Dunn, TBA) Community & Ecosystem Genomics (Jack Gilbert, Blake Matthews, Jen Schweitzer)

John (Jack) Werren Nathaniel & Helen Wisch Professor of Biology University of Rochester Rochester, NY 14627 Email: werr@mail.rochester.edu Web: <http://www.werrenlab.org/> "Werren, Jack" <werr@mail.rochester.edu>

Hamilton BacterialGenomeEvol Dec7-8

Research Symposium - The Origins and Evolution of Bacterial Genomes

Sunday Dec 7th Hamilton, Ontario.

This symposium focuses on the evolution and comparative analysis of bacterial and archaeal genomes. How fast does gene gain and loss occur? How frequent is horizontal gene transfer? How tree-like is evolution at the genome level? What kinds of mathematical methods are necessary for analysis of genome data?

Invited Speakers

Robert Beiko - Dalhousie University - When Phylogenetic Trees Can't Agree: Building a coherent network of microbial gene sharing

Yuri Wolf - National Center for Biotechnology Information - Turbulent genomes: quantification of gene acquisition, loss and displacement in prokaryotes.

Tal Dagan - University of Kiel - Phylogenomic networks reveal trends and barriers to lateral gene transfer during microbial evolution

Daniel Brown - University of Waterloo - Fast algorithms for phylogenetic reconstruction of aligned sequences

Weilong Hao - Wayne State University - Estimating evolutionary rates of discrete characters, and its application to genome evolution

Radhey Gupta - McMaster University - Applications of Group specific Conserved Signature Proteins for the Identification of Microorganisms in Metagenomic Sequences

Eric Collins - University of Alaska - TBA

Paul Higgs - McMaster University - Phylogenetic models of bacterial genome evolution incorporating gene insertion and deletion and horizontal gene transfer   Registration and Organizational Details

The Symposium is being sponsored by the Origins Institute at McMaster University and is being held at the Winter Meeting of the Canadian Mathematical Society. Those wishing to attend should register at the conference web site http://cms.math.ca/Events/winter14/-sessions_scientific as soon as possible. All talks in this symposium are on Sunday Dec 7th and will take place

at the conference venue (Sheraton Hotel, Hamilton). A one-day registration option is possible.

To facilitate discussion and collaboration between speakers, there will be a day of informal discussions at McMaster university on Monday Dec 8th. We welcome additional participants. Those interested should contact Paul Higgs (higgsp@mcmaster.ca) in order to be included in the arrangements. There will be opportunity for short submitted talks on Mon 8th, although the schedule is now complete for the conference day.

Latest information will be posted on <http://physwww.mcmaster.ca/~higgsp/symposium.htm>
Paul Higgs <http://physwww.mcmaster.ca/~higgsp/-Home.htm> Dept of Physics and Astronomy, McMaster University, Hamilton, Ontario, L8S 4M1, Canada. Tel. (905) 525 9140 ext 26870

Paul Higgs <higgsp@mcmaster.ca>

KansasCity EvolutionaryGenomics Oct31-Nov2 Deadline

5 DAYS TO REGISTER!!!

Join the Kansas State University Ecological Genomics Institute for a three-day conference bringing together distinguished and renowned academics, students, post-doctorates, and others interested in the field. Participants will hear, present, and discuss research in a broad range of topics pertaining to ecological genomics.

This year's event will showcase research on the latest ecological genomics topics. Packed with speakers, poster abstract presentations, and networking opportunities, the 2014 Ecological Genomics Symposium will be an exciting and invigorating avenue for cross-disciplinary interactions. Early registration discounts end Friday, October 3, so register now! < <http://ecogen.ksu.edu/symp2014/index.html> >

DON'T DELAY, PRICES INCREASE ON SATURDAY! When: October 31 - November 2, 2014 Where: Marriott Country Club Plaza Kansas City, MO Early bird registration fee: \$285 (\$190 for graduate and undergraduate students) Registration fee after October 4: \$360 (\$240 for students)

jenniferrhodes@ksu.edu

KansasCity EvolutionaryGenomics Oct31-Nov2 DeadlineExtended

EARLY BIRD REGISTRATION DEADLINE EXTENDED!!

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This year's event will showcase research on the latest ecological genomics topics. Packed with speakers, poster abstract presentations, and networking opportunities, the 2014 Ecological Genomics Symposium will be an exciting and invigorating avenue for cross-disciplinary interactions. Early registration discounts have been extended until Tuesday, October 14, so register now! < <http://ecogen.ksu.edu/symp2014/-index.html> >

Speakers include:

Zac Cheviron, University of Illinois

Cassandra Extavour, Harvard University

Felicity Jones, Max Planck Institute, Tübingen, Germany

Ari Jumpponen, Kansas State University

Catherine Linnen, University of Kentucky

Michael Lynch, Indiana University

Sean Place, Sonoma State University

Jesse Poland, Kansas State University

John Stinchcombe, University of Toronto

Alex Wilson, University of Miami

DON'T DELAY, PRICES INCREASE ON TUESDAY, OCTOBER 14!

When: October 31 - November 2, 2014

Where: Marriott Country Club Plaza

Kansas City, MO

Early bird registration fee: \$285 (\$190 for graduate and undergraduate students) Registration fee after October 14: \$360 (\$240 for students)

Jennifer Rhodes Program Coordinator Ecological Genomics Institute Kansas State University 302 Ackert Hall Manhattan, KS 66506-4901 jennifer-rhodes@ksu.edu 785-532-0115

jenniferrhodes@ksu.edu

Leipzig Germany EvolutionHumanMutationRate Feb25-27

A meeting dealing specifically with research on topics related to human mutation rates will be held at the Max Planck Institute for Evolutionary Anthropology from 25th - 27th February 2015.

URL: <http://www.eva.mpg.de/genetics/conferences/-thmr2015/index.html> This meeting aims at bringing together researchers from different fields that are interested in estimating the rate of mutations in humans and apes, the application of these rates to date events in the past, the differences in male and female mutation rates, the evolution of the mutation rate, the molecular and chemical mechanisms leading to germline and somatic mutations, and other topics related to the human mutation rate.

The meeting is limited to a total of 90 participants and we would like all attendees to actively participate in the meeting by presenting results and joining discussions.

Interested scientists are invited to submit an application including an abstract through our application website by 15th December 2014. Suitable abstracts will be selected on a first come, first serve basis and applicants will be informed as soon as possible whether they are accepted to attend the meeting.

Registration for the meeting is free of charge and includes coffee breaks and small meals during the conference. Unfortunately, we are not able to support participants by funding travel or accommodation. The meeting will start on the evening of 25th February 2015 to allow guests to fly in on the first day of the meeting.

Invited Speakers: * Kelley Harris * Agnar Helgason * Jean-Jacques Hublin * Michael Lynch * Kateryna Makova * Gilean McVean (tbc) * Molly Przeworski * David Reich * Aylwyn Scally * Mikkel Schierup * Michael Stratton * Shamil Sunyaev

For further information, please visit our website or contact us by email: THMR2015@eva.mpg.de

capone@cap1.eu

Leipzig Germany
HumanMutationRate Feb25-27

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For further information, please visit our website or contact us by email: THMR2015@eva.mpg.de

capone@cap1.eu

London NPimpactEvolution Jun1-2

Dear all,

We are happy to announce a Theo Murphy discussion meeting entitled, "Elements, genomes and ecosystems: cascading nitrogen and phosphorus impacts across levels of biological organization" funded by the Royal Society of London to be held in Buckinghamshire, U.K. June 1-2 2015. The meeting is open to everyone, but space is limited. Please visit the following website to request an invitation to register: <https://royalsociety.org/events/2015/06/elements-genomes-ecosystems/>. This meeting will explore how environmental nitrogen (N) and phosphorus (P) impact the evolution and use of nucleic acids and how these effects, in turn, cascade through natural and agricultural ecosystems. It unites expertise in N and P metabolism, plant and animal genome evolution, ecology (including those interested in biodiversity and ecosystem functioning), and agriculture.

The reason for this early message is to advertise funds from the U.S. National Science Foundation to help support the travel expenses of U.S. graduate students and postdocs. Applicants from underrepresented groups are specifically encouraged to apply. We will begin review of applications on December 15th 2014 to identify suitable candidates for receiving these limited awards.

Please go here for information on applying: <http://www.elementalbiology.info/JeyasinghLab/-RoySocMtng.html> Please do not hesitate to contact us with questions, and kindly forward to suitable candidates.

Best wishes, Puni Jeyasingh - puni.jeyasingh@okstate.edu
Maurine Neiman - maurine-neiman@uiowa.edu
Lawrence J. Weider - ljweider@ou.edu
Dag Hessen Ilia Letich
Andrew Leitch

Puni Jeyasingh 501 Life Sciences West, Department of Zoology, Oklahoma State University, Stillwater, OK 74078-3052. Phone: (405) 744-9634. Fax: (405) 744-7824. <http://www.elementalbiology.info> Twitter: @elementalbio

Puni Jeyasingh <puni.jeyasingh@okstate.edu>

Marseilles 19th Evolutionary Biology Sep15-18

Dear all the early registrations for the EBM 19 are open
<http://sites.univ-provence.fr/evol-cgr/> www.aeeb.fr all
the best Pierre

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

New York Population Genomics Jan15

Join us for the first New York Area Population Ge-
nomics Meeting!

This one-day event will be held THURSDAY, JAN-
UARY 15, 2015, at the New York Genome Center, 101
6th Avenue, New York NY.

Co-organized by researchers from across the region, the
workshop is intended to promote interaction among
New York area population geneticists. The meeting will
feature invited talks by Amy Williams (Cornell) and
Peter Andolfatto (Princeton) and talks selected from
abstracts submitted by students and postdocs. All talks
will be 15 minutes. The meeting's focus spans popula-
tion, quantitative, comparative, evolutionary, and sta-
tistical genetics and genomics.

The abstract deadline is NOVEMBER 15, 2014.

For more information, and to register and submit ab-
stracts, visit <http://nyapopgen.wordpress.com/>. Reg-
istration is free but required.

Organizers: Barbara Engelhardt (Princeton), Joe Pick-
rell (NY Genome Center and Columbia), Molly Prze-
worski (Columbia), Matt Rockman (NYU), Adam Sie-
pel (Cold Spring Harbor Labs), and Orli Bahcall (Na-
ture Genetics)

mrockman@nyu.edu

NHM London Systematists Nov21

Deadline reminder - Friday 24th. Its a great event, but
filling up fast!

16th YOUNG SYSTEMATISTS' FORUM

Friday, 21 November 2014, 9:30 am Please note date
change from earlier announcement

Venue: Flett Lecture Theatre, Natural History Mu-
seum, London, UK

The annual Young Systematists' Forum represents an
exciting setting for Masters, PhD and young postdoc-
toral 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.

Again the YSF will be held the day after the
Molluscan Forum ([http://www.malacsoc.org.uk/-
MolluscanForum.htm](http://www.malacsoc.org.uk/-MolluscanForum.htm)) also at the NHM, so that you
can attend both meetings. If you are attending both
you will need to register for each meeting separately.
Since talk slots are limited, we ask that you register
for a talk in one meeting and poster in the other, so
everyone gets time in the limelight!

Registration is FREE.

Send applications by e-mail to
(YSF.SystematicsAssociation@gmail.com), supplying
your name, contact and academic address, academic
level (MSc student, PhD student or postdoc), and
stating whether or not you wish to give an oral or
poster presentation. 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.

Abstracts must be submitted by e-mail in English no
later than Friday 24 October 2014. The body text
should not exceed 150 words in length. If the pre-
sentation is co-authored, the actual speaker (oral) or

presenter (poster) must be clearly indicated in BOLD text.

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).

Dr Ellinor MICHEL Department of Life Sciences The Natural History Museum Cromwell Road SW7 5BD London UK tel: +44-207-942-5516

<http://nhm.academia.edu/EllinorMichel> =-
[0Awww.researchgate.net/profile/Ellinor_Michel](http://www.researchgate.net/profile/Ellinor_Michel)
 e.michel@nhm.ac.uk

NHM London YoungSystematicists Nov21

Deadline reminder - TODAY Friday 24th. Its a great event, but filling up fast!

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

Again the YSF will be held the day after the Molluscan Forum (<http://www.malacsoc.org.uk/-MolluscanForum.htm>) also at the NHM, so that you can attend both meetings. If you are attending both you will need to register for each meeting separately. Since talk slots are limited, we ask that you register for a talk in one meeting and poster in the other, so everyone gets time in the limelight!

Registration is FREE.

Send applications by e-mail to (YSF.SystematicsAssociation@gmail.com), supplying your name, contact and academic address, academic level (MSc student, PhD student or postdoc), and stating whether or not you wish to give an oral or poster presentation. 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.

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Dr Ellinor MICHEL Department of Life Sciences The Natural History Museum Cromwell Road SW7 5BD London UK tel: +44-207-942-5516

<http://nhm.academia.edu/EllinorMichel> =-
[0Awww.researchgate.net/profile/Ellinor_Michel](http://www.researchgate.net/profile/Ellinor_Michel)
 e.michel@nhm.ac.uk

Paris MathModelsEcolEvol Jul CallSymposia

The conference

*Mathematical Models in Ecology and Evolution Paris 2015 ** <http://www.biologie.ens.fr/mmee2015/>*** will host 6 selected mini-symposia, with 6 speakers each: 2 invited speakers (approx. 25' talk) and 4 contributed speakers (approx. 15' talk).

If you consider participating in the conference, we invite you to propose a mini-symposium devoted to your favourite subject. We ask you to provide a title of your symposium, along with a short introduction to the subject and a list of (2+2 spare) invited speakers. You can propose 1 or 2 (related) mini-symposia by email to immee2015@list01.biologie.ens.fr Deadline Dec 12, 2014. Decision mid-January 2015.

Mini-symposia close to the following themes are especially appreciated: epigenetics and information transfer, evolution of cooperation, modelling of speciation, adaptive dynamics, individual-based models of phylogenies, microbial ecology, and adaptation in a changing environment.

Once the list of 6 mini-symposia is established, a call for contributions of 3 kinds will be sent: oral contributions within a mini-symposium (6*4 = 24 slots), free oral contributions, posters (deadline April 2015).

Please feel free to share this call with interested colleagues and relevant emailing lists.

The organisers,

Amaury Lambert (UPMC, Collège de France) Guillaume Achaz (UPMC, Collège de France) Minus van Baalen (CNRS, ENS) Silvia De Monte (CNRS, ENS) Todd Parsons (UPMC, CNRS, Collège de France) Emmanuel Schertzer (UPMC, Collège de France)

PS. If you are not yet part of the MMEE list, you can check <http://www.biologie.ens.fr/mmee2015/-information.html> to find out how to receive regular information about the conference (no more than approx. 5 emails per year). You can also follow us on twitter using @MMEE2015Paris.

Amaury Lambert, professeur UPMC <http://www.proba.jussieu.fr/pageperso/amaury> SMILE group <http://www.proba.jussieu.fr/~smile> Stochastics & Biology group <http://www.proba.jussieu.fr/~psb> amaury.lambert@ens.fr

Paris YoungNatHistoryScientists Feb4-6

2nd Young Natural History scientists' Meeting First Circular 4th - 6th February 2015 Muséum national d'Histoire naturelle (Paris, France)

The Bureau des Doctorants et Étudiants du Muséum (association for students and young researchers working at the Muséum national d'Histoire naturelle, Paris), Doc'up (association for PhD students working at Université Pierre et Marie Curie) and Timarcha (association for young naturalists) are pleased to announce the opening of the registration and abstract submissions for the 2nd Young Natural History scientists' Meeting hosted at the MNHN (Paris, France) on February 4th and 5th, 2014. The meeting will be followed by ex-

cursions on the 6th during the morning to visit some of the numerous exhibitions of the Muséum and in the afternoon we will host scientific debates.

We invite contributions from non permanent researchers (PhD students, postdoctorants, master students) in English (either oral or poster communications) on all aspects of natural history represented in these four sessions:

- ***Biodiversity Dynamics and Conservation***: any subject linked to ecology and conservation of the Earth's biological diversity, including studies of Earth's ecosystems, molecular diversity, the distribution, abundance and dynamics of micro- to macroscopic organisms, their interactions with both other lifeforms and/or physical environment, and conservation biology.

- ***Earth and Planetary Sciences***: any topic related to atmospheric science, biogeochemistry, cosmochemistry and cosmology, climate science, geochemistry, geology, geomorphology, glaciology, hydrology and limnology, mineralogy, oceanography, paleoecology, biostratigraphy, paleobiogeography, palaeoenvironmental reconstructions, taphonomy, petrology, tectonics, volcanology.

- ***Mankind, Prehistory, Nature and Societies***: any work on biological anthropology, genetics, prehistory, social and cultural anthropology, ethnology, ethnobiology, ethnomusicology, geography, and history and philosophy of sciences and techniques.

- ***Systematics, Evolution and Comparative Anatomy***: any aspects of comparative anatomy and morphology, evodevo, evolutionary ecology and behavior, experimental evolution, palaeobiology, taxonomy, phylogenetics and phylogeography, theories and models.

A keynote speaker will open each of these multidisciplinary themes with a lecture on a relevant topic.

Registration and abstract submission We propose free registration fees, including full package and tea/coffee breaks.

Deadline for abstract submission and registration is November 30th 2014 (23:59 GMT+1).

The submission process takes place on the following website: <http://ynhm.sciencesconf.org/submission/-submit?lang=en> A scientific committee has been appointed and will review all the abstracts. If we receive too many abstracts for oral communications only the successful abstracts will be given as talks, the other abstracts will be accepted for poster presentations. Guidelines on presentation formats will be given in the Second Circular, which will be available in early november.

Venue and travel The conference will take place at the Muséum national d'Histoire naturelle, in the Grand Amphithéâtre du Muséum 4th and 5th February 2014. We have some travel grants available for young researchers coming from far away who can not afford to pay for the trip to Paris. Information about the application to the grants will be available in the next circular.

GETTING THERE: Address: Jardin des Plantes 36, rue Geoffroy Saint Hilaire 75005 Paris - Bus: Lines 24, 57, 61, 63, 67, 89 et 91 - Metro, RER: M5: Austerlitz, M7: Censier Daubenton, M10: Jussieu or Austerlitz, RER C: Austerlitz. - SNCF Railway Stations: Austerlitz or Gare de Lyon (but all the railway stations are connected to metro and bus lines) - Getting to Paris by plane: Paris has two major international airports: RoissyCharles de Gaulle (north of Paris) and Orly (south of Paris). There is frequent connecting city trains (RER) or buses leading to the center of Paris (and therefore connection to the metro). The transfer takes between 30 and 45 minutes.

For those interested in taking advantage of their stay in Paris to access the collections The Muséum national d'Histoire naturelle stands as a fantastic memory of life forms and minerals, holding one of the most important international reference collections. Inert objects displaying palaeontology, geology, mineralogy, meteorites, botany, zoology, prehistory, anthropology, ethnobiology and chemistry are estimated to total over 60 million specimens. Visits to our collections are welcomed, but access is dependent on the availability of curatorial staff. Delegates are strongly encouraged to contact the curators well in advance of the meeting through

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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>

SanDiego PlantAnimalGenomics Jan10-14

Plant and Animal Genome XXIII (PAGXXIII) January 10-14, 2015 San Diego, California, United States <http://intlpag.org/> PAGXXIII will bring together over 2,800 leading researchers in plant and animal research, and over 130 exhibits, 150+ workshops, 1000+ posters, *and a computer demo track specifically for highlight-

ing relevant software and online resources.* PAG is the largest Ag-Genomics meeting in the world.

If you work on digital resources that enable life science research, then please consider submitting an abstract to the PAG computer demonstration track. Computer demos are 15-20 minutes long, and are an excellent way to get resources in front of the people who will benefit the most from it.

The Computer Demo abstract submission deadline is October 31, 2014. All computer demo presenters must be registered for the conference prior to submitting. Any software which is demonstrated at the PAG Conference must also be available to the scientific community and non-commercial.

See <http://www.intlpag.org/2015/abstracts/computer-demos> for additional information and a link to the submission form.

Hope to see you in San Diego!

Dave Clements and Brian Smith-White PAGXXIII
Computer Demo Track Co-Chairs

clementsgalaxy@gmail.com

Sicily SystemsBiology Jul5-9

Call for Participation (apologies for multiple copies)

Synthetic and Systems Biology Summer School: Biology meets Engineering and Computer Science - 2nd Edition Taormina - Sicily, Italy, July 5-9, 2015

<http://www.taosciences.it/ssbss2015/> ss-
bss.school@gmail.com

** Deadlines ** Student Application: February 15, 2015 Oral/Poster Submission: February 15, 2015

The Synthetic and Systems Biology Summer School (SSBSS) is a full-immersion course on cutting-edge advances in systems and synthetic biology with lectures delivered by world-renowned experts. The school provides a stimulating environment for doctoral students, early career researchers and industry leaders. Participants will also have the chance to present their results (Oral presentations or Posters) and to interact with their peers.

** Topics ** Genetic Engineering Metabolic Engineering Genome Design Reading and Writing Genomes Pathway Design Synthetic Circuits and Cells Biological CAD Industrial Applications Artificial Tissues and

Organs Genomically recoded Organisms Biological Design Automation

** List of Speakers ** * Adam Arkin, University of California Berkeley, USA * Jef Boeke, New York University, USA * Angela DePace, Harvard University, USA * Forbes Dewey, MIT, USA * Paul Freemont, Imperial College London, UK * Karmella Haynes, Arizona State University, USA * Richard Kitney, Imperial College London, UK * Timothy Lu, MIT, USA * Philip Maini, Oxford University, UK * Steve Oliver, Cambridge University, UK * Greg Stephanopoulos, MIT, USA - TBC * Nicola Zamboni, ETH, Switzerland

Other speakers will be announced soon.

** Industrial Panel ** * Zach Serber, Zymergen, Inc. USA

More speakers will be announced soon!

School Directors Jef D. Boeke, New York University, USA Giuseppe Nicosia, University of Catania, Italy Mario Pavone, University of Catania, Italy Giovanni Stracquadanio, University of Oxford, UK

** Short Talk and Poster Submission ** Students may submit a research abstract for presentation. School directors will review the abstracts and will recommend for poster or short-oral presentation. Abstract should be submitted by February 15, 2015. The abstracts will be published on the electronic hands-out material of the summer school.

<http://www.taosciences.it/ssbss2015/-index.html#applicationForm> <http://www.taosciences.it/ssbss2015/ssbss.school@gmail.com>

Apologies for multiple copies. Please forward to anybody who might be interested.

cfp.ssbss@dmi.unict.it

Tempe Arizona IntlSocEvolMedicine Mar19-21

The International Society for Evolution, Medicine, & Public Health Society will be hold its inaugural meeting March 19-21 in Tempe, Arizona. Registration and abstract submission are open now. Early registrants receive a substantial discount, and all fees are refundable until February 15th.

This meeting will bring together scientists, scholars, teachers, clinicians, and students in the evolution and

medicine community to share ideas and create new connections that will advance the field. Students and clinicians with an interest in the field are especially welcome. This meeting is co-sponsored by The Society and the Arizona State University Center for Evolution & Medicine.

Full information on the conference site <http://evmedmeeting.org> Registration at <http://www.regonline.com/evmed> Plenary Speakers include Harvey Fineberg, Institute of Medicine, Stephen Stearns, Yale University, Barbara Natterson-Horowitz, UCLA, Sir Peter Gluckman, University of Auckland, Ann Demogines, (Omenn Award Winner) BioFire Diagnostics, Ruslan Medzhitov, Yale

Other confirmed speakers include Carl Bergstrom, University of Washington, Sudhir Kumar, Temple University, Daniel Lieberman, Harvard University, Gilbert Omenn, University of Michigan, Allen Rodrigo, NES-Cent, Frank Rühli, University of Zurich, Elizabeth Uhl, University of Georgia, Robert Perlman, University of Chicago, Ajit Varki, UC San Diego, Gillian Bentley, Durham University, Bernard Crespi, Simon Fraser University, David Haig, Harvard University, Andrew Read, Penn State University, Mark Schwartz, New York University, Marlene Zuk, University of Minnesota, Cynthia Beall, Case Western University, Charles Nunn, Duke University, Randolph Nesse, Arizona State University, Carlo Maley, UCSF, Athena Aktipis, UCSF, Wenda Trevathan, New Mexico State University, Matthew Keller, University of Colorado, Boulder, Lewis Wolpert, University College London, Joshua Schiffman, University of Utah, Joseph Alcock, University of New Mexico, Kathleen Barnes, Johns Hopkins University, Fabio Zampieri, University of Padua, Italy, Michael Ruse, Florida State University, Detlev Ganten, World Health Summit, Berlin, Grazyna Jasienska, Jagellonian University, Poland, Beverly Strassmann, University of Michigan, Daniel Blumstein, UCL, Mark Flinn, University of Missouri, and Koos Boomsma, University of Copenhagen.

Wednesday on March 18 Noon-5 PM is a pre-meeting for Directors of Evolutionary Medicine Programs, Centers, and Institutes, and those who are considering organizing such units. The event, organized by Randolph Nesse, Gillian Bentley, Daniel Blumstein, Barbara Natterson-Horowitz, and Frank Rühle, will provide an informal opportunity to share strategies and resources and coordinate efforts.

Randolph Nesse

ASU Center for Evolution & Medicine

<http://evmedcenter.org> rmnesse@gmail.com

UCalifornia Irvine
ClonalReproduction Jan9-10

January 9-10, 2015 ****/In the Light of Evolution IX. Clonal Reproduction: Alternatives to Sex /Organizers: Michel Tibayrenc, John C. Avise and Francisco J. Ayala Beckman Center of the National Academies, Irvine, CA**

*Evolutionary studies of clonal organisms have advanced considerably in recent years, but are still fledgling. Although recent textbooks on evolution and genetics might give the impression that nonsexual reproduction is an anomaly in the living world, clonality is the rule rather than the exception in many viruses, bacteria, and parasites that undergo preponderant asexual evolution in nature. Clonality is thus of crucial importance in basic biology as well as in studies dealing with transmissible diseases.

This Colloquium will bring together specialists in various disciplines, including genetics, evolution, statistics, bioinformatics, and medicine. A balance will be sought between the various disciplines, including clonal animals and plants, animal and human cloning, pathogens, and cancer studies.

Registration is now open, http://www.nasonline.org/-programs/sackler-colloquia/upcoming-colloquia/-ILE_IX_Clonal_Reproduction.html

Registration fee is \$150. Graduate students and post-doctoral researchers are eligible for discount fee of \$100. All meals, break and reception refreshments listed on the agenda are included in the registration fee.

For more information, contact sackler@nas.edu.

– Francisco J. Ayala 2001 National Medal of Science Laureate 2010 Templeton Prize Laureate University Professor Donald Bren Professor of Biological Sciences University of California, Irvine Francisco J. Ayala School of Biological Sciences Department of Ecology and Evolutionary Biology 321 Steinhaus Hall Irvine, CA 92697-2525, USA tel: +1-949-824-8293 fax: +1-949-824-2474 fjayala@uci.edu http://www.faculty.uci.edu/profile.cfm?faculty_id=2134
“Francisco J. Ayala” <fjayala@uci.edu>

UHuddersfield BSPB
ProtistEvolution Apr15-17

BSPB 2015 Early Announcement

The 2015 British Society For Protist Biology Spring Meeting will be held between 15-17th April 2015 at the University of Huddersfield. The conference will host two mini-symposia - Experimental Evolution in Protists and The Evolution of Multicellularity - as well as sessions for posters, student talks and contributed talks.

A limited number of student bursaries will be allocated to Society members who are presenting at the conference and will be offered on a first come-first served basis. Registration will open on the 15th January 2015.

The following speakers will be presenting in the symposia:

Experimental Evolution In Protists

Will Ratcliff (Georgia Tech) - Plenary

Mike Brockhurst (York)

Duncan Cameron (Sheffield)

Ville Friman (Imperial)

Oliver Kaltz (Montpellier)

Kai Lohbeck (Kiel)

Chris Lowe (Exeter)

Peter O’Toole (York)

Evolution of Multicellularity

Iñaki Ruiz-Trillo (Barcelona) - Plenary

Mark Cock (Roscoff)

Frank Nitsche (Cologne)

Daniel Richter (Roscoff)

Pauline Schaap (Dundee)

BSPB Meeting Webpage: <http://www.protist.org.uk/-meetings.html> Martin Carr

MartCarr74@gmail.com

Martin Carr <martcarr74@gmail.com>

USaskatchewan CSEE Nov1 CallSymposia

The organizing committee of the 2015 CSEE Annual Meeting in Saskatoon invite proposals for symposia for the meeting (May 21-25). We anticipate featuring six half-day symposia occurring on the mornings of May 22-24 (two concurrent symposia each day). The theme of the meeting is 'Ecology and evolution in managed landscapes'. We encourage symposia reflecting this theme, but will consider exceptional symposia from across ecology and evolution. If you are interested in organizing a symposium please submit the following information to Jeff Lane <jeffrey.lane@usask.ca> by November 1, 2014.

1. Title
2. Description of symposium (200-250 words)
3. List of 6 suggested speakers, their affiliations, and tentative presentation titles
4. An indication of whether the speaker has confirmed their participation.

Each symposium organizer will have a budget of \$1200 that can be used to defray speaker conference registration fees and/or travel. For more information please contact Jeff or visit the conference website at <http://csee2015.usask.ca/index.php> Dr. Jeffrey Lane Assistant Professor Department of Biology University of Saskatchewan www.lanelab.ca jeffrey.lane@usask.ca

UStAndrews NGS Phylogeny Dec8

Dear Evoldir,

Next Generation Bioinformatics User Group AND Scottish Phylogeny Discussion Group joint meeting

8 December 2014, 12:30 PM onwards, University of St Andrews

A buffet lunch will be followed by a talk from invited speaker DR JO DICKS (National Collection of Yeast Cultures <http://www.ncyc.co.uk>, Institute of Food Research, Norwich):

“Estimating and exploiting yeast NGS-based phylogenies for industrial biotechnology”.

Over the course of the afternoon, the meeting will continue with several contributed talks. This part of the programme is still expanding. If you'd like to give a talk, please just give the title when you register.

Attendance is free but please register in advance.

Details and registration:

<https://genomics.ed.ac.uk/ngbug/next-meeting-st-andrews> Daniel Barker <http://biology.st-andrews.ac.uk/staff/db60> The University of St Andrews is a charity registered in Scotland : No SC013532

db60@st-andrews.ac.uk

UTennessee SEPEEG2014 Oct24-26

The University of Tennessee, Knoxville EEB department would like to invite students, postdocs, faculty, and others to attend SEPEEG 2014!

This year, the 39th annual SouthEast Population, Ecology, and Evolutionary Genetics (SEPEEG) meeting will take place at the facilities of Outdoor Adventure Rafting (www.raft.com) on October 24-26 in Ocoee, TN.

This years keynote speaker will be Prof. Dr. Margret Ptacek from Clemson University. Dr. Ptacek studies processes that control genetic divergence among populations and the contributions of these processes to local adaptation and speciation.

For more information and to register, please see the website below and/or locate SEPEEG on Facebook. <http://sepeeg.wordpress.com/> Registration is now open: full registration is \$145 for a bed in a bunkhouse or \$135 for camping and covers all meals and participant costs. If you have questions, please email Zach Marion atzmarion@utk.edu.

If you come, you will have a blast! There will be bonfires both nights, plenty of beverages, great company, and the opportunity for rafting and other opportunities on Sunday for those who are interested. It is an excellent opportunity to network, support education and research, and learn about great new science!

omeara.brian@gmail.com

Vienna SMBE2015 Jul12-16 CallSymposia

Reminder: Call for Symposia closing on October 19, 2014

Dear Colleague,

The Society for Molecular Biology and Evolution is now accepting proposals for symposium topics for the 2015 annual meeting, taking place in Vienna July 12th-16th 2015.

For each accepted symposium the society provides substantial financial support to facilitate symposia organizers to attract outstanding invited speakers (up two invited speakers per symposium):

- free registration for invited speakers
- free accommodation for invited speakers

- up to 1900 euro travel support

To submit your proposal please follow the instructions in the guide to applicants available at: <http://smbe2015.univie.ac.at/program/call-for-symposia/> Return your completed submission to office@smbe2015.at by Sunday October 19, 2014. The subject line should read: Symposium submission

Successful applications will be confirmed by December 5, 2014 and a call for abstracts will follow.

We hope to see you all in Vienna!

Kind regards,

Julia Hosp On behalf of the local organizing committee Website: <http://smbe2015.at> – Dr. Julia Hosp Vienna Graduate School of Population Genetics Coordinator www.popgen-vienna.at c/o Institut für Populationsgenetik Vetmeduni Vienna Veterinärplatz 1 A-1210 Vienna <http://www.vetmeduni.ac.at/en/-population-genetics/> Tel: +43 1 25077 4338 Fax: +43 1 25077 4390

SMBE 2015 in Vienna <http://smbe2015.at> julia.hosp@gmail.com

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BostonU EvoDevo

The Warkentin Lab at Boston University seeks applications for a PhD student to work on our NSF-funded project, 'The Development of Adaptive Embryo Behavior.'

Project Overview

When to hatch is an essential decision embryos make, based on environmental cues. Hatching is also a physical feat that embryos perform. The ability to assess cues, exit the egg, and survive outside the egg all change as embryos develop. Thus, under the same external conditions, both what embryos can do and what they should do to survive change developmentally. The overall project examines the development and regulation of environmentally cued hatching in red-eyed treefrogs, *Agalychnis callidryas*. These embryos hatch up to 40% prematurely to escape from threats to the egg, using cues in at least two sensory modalities, and multiple selective trade-offs shaping hatching timing are known. The project integrates work on hatching mechanisms and performance, sensory system development, and hatching decision rules for responses to simple hypoxia cues and complex mechanosensory cues, to examine why and how development changes behavior. It will improve our understanding of embryo lives, behavioral development, and how animals use different kinds of information to make decisions.

Position Description

The student will participate in multiple aspects of the project and be mentored to develop a dissertation that builds on some component of the project and extends to address independent questions. The student will be based in the Ecology, Behavior, and Evolution group at BU, conduct field research at the Smithsonian Tropical Research Institute in Gamboa, Panama and, depending on specific interests, may be co-mentored by mechanical engineer Greg McDaniel.

For more information see the lab website:

sites.bu.edu/warkentinlab/people/prospective-students/

For specific inquiries about the position, email Karen Warkentin (kwarken@bu.edu). Include your CV, transcript, and a statement of why you are interested in this position and how it relates to your overall goals and prior experience. Formal applications to the graduate school are due 7 December.

Karen Warkentin Associate Professor of Biology Boston University and Research Associate Smithsonian Tropical Research Institute

kwarken@bu.edu

ColoradoStateU Evolution

Colorado State University is seeking outstanding graduate students in the field of evolutionary biology. CSU is home to a strong and diverse group of evolution-focused labs, many of which are accepting grad students this year. Interested students are highly encouraged to explore the research pages of CSU faculty and contact professors before applying to a CSU graduate program. The university is home to a number of departmental and interdisciplinary graduate programs, and prospective faculty mentors can assist in selecting the program that would be the best match for a student's interests. CSU faculty members currently accepting graduate students include:

Chris Funk Department of Biology <http://wp.natsci.colostate.edu/funklab/> Kim Hoke Department of Biology <http://hokelab.weebly.com/> Ruth Hufbauer Bioagricultural Sciences and Pest Management <http://www.hufbauerlab.org/> John McKay Bioagricultural Sciences and Pest Management <http://www.mckaylab.colostate.edu/> Rachel Mueller Department of Biology <http://rydberg.biology.colostate.edu/~muellerlab/Home.html> Dhruva Naug Department of Biology <http://rydberg.biology.colostate.edu/~dhruva/> Paul Ode Bioagricultural Sciences and Pest Management <http://lamar.colostate.edu/~paulode/> Mark Simmons Department of Biology <http://lamar.colostate.edu/~psimmons/> Dan Sloan Department of Biology <https://sites.google.com/site/danielbsloan/> Colleen Webb Department of Biology <http://rydberg.biology.colostate.edu/ctwebb/> CSU is a world-class research university located in Fort Collins, CO, about an hour north of Denver and right at the foothills of the Rocky Mountains. Fort Collins is widely regarded as having a great quality of life at a reasonable cost of living. It has excellent opportunities for outdoor recreation, an active music scene, a strong biking culture, and numerous great restaurants and breweries.

dbsloan@rams.colostate.edu

CWilliamMary EvolutionaryBiol

Masters Graduate Assistantships in Ecology and Evolution at the College of William and Mary

The Biology Department at the College of William and Mary is recruiting new research Masters students in ecology and evolution to start in Fall 2015. Full assistantships are provided to nearly all students.

We offer a two-year research-intensive Masters program where students are supported by teaching assistantships and full tuition waivers. For many students, getting a Masters in two years and writing publications and grants is the ideal preparation for applying to highly competitive Ph.D. programs or jobs. We have a great track record of our recent MS students going on to excellent PhD programs and professional positions. With a low student-to-faculty ratio (approximately 10 new students each year with 23 full-time faculty) we can offer an intimate and highly personalized research and education experience.

Importantly, we have real strengths in many aspects of ecology and evolution. We are one of the few smaller universities that have many evolutionary biologists and ecologists on their faculty, including: John Swaddle (sexual selection/behavioral ecology), Martha Case (plant systematics/pollination ecology), Jon Allen (evolution and development), Joshua Puzey (evolutionary genomics), Helen Murphy (evolutionary genetics/experimental evolution), Drew LaMar (mathematical modeling), Paul Heideman (physiological evolution), Dan Cristol (behavioral ecology/ecotoxicology), Harmony Dalgleish (forest ecology), Laurie Sanderson (functional ecology), Randy Chambers (wetlands ecology), Kurt Williamson (viral ecology), and Matthias Leu (conservation/landscape ecology). The proximity of William and Mary to county, state, and federal parks as well as the Chesapeake Bay allows for extensive field research opportunities.

Deadline for applications is February 1, but you should contact potential advisors soon. You can get general information about our program from the department website: <http://www.wm.edu/as/biology/-graduate/index.php> and more on potential advisors here:

Harmony Dalgleish: <http://wmpeople.wm.edu/~hjdalgleish> Kurt Williamson: <http://wmpeople.wm.edu/kewilliamson> Randy Chambers: <http://rmcham.people.wm.edu/> Jon Allen: <http://wmpeople.wm.edu/jdallen> Dan Cristol: <http://wmpeople.wm.edu/dacris> Matthias Leu: <http://wmpeople.wm.edu/mleu> Drew LaMar: <http://www.people.wm.edu/~mdlama/> Helen Murphy: <http://www.helenmurphy.net> Laurie Sanderson: <http://slsand.people.wm.edu> Paul Heideman: <http://pdheid.people.wm.edu/> Joshua Puzey: <http://puzeylab.weebly.com> Martha Case: <http://macase.people.wm.edu/> (on sabbatical 2015, not taking new students) John Swaddle: <http://jpswad.people.wm.edu/> (on sabbatical in 2015; not taking new students)

hamurphy@wm.edu

DalhousieU FishGenomics

PhD positions Landscape and Conservation Genomics of Fish Dalhousie University Support is available for two PhD positions in the laboratory of Daniel Ruzzante at Dalhousie University (Halifax, Nova Scotia, Canada) for research in landscape and conservation genomics of fish in Labrador and Patagonia. A Masters (MSc) degree with a background in population genetics and molecular laboratory or bioinformatics experience is required. One project will involve fieldwork in Labrador and the other in Patagonia. Both positions expected to start in the 2015/2016 academic year.

Applicants please send a statement of research interests, CV and the names and e-mail addresses of two people willing to act as academic references to:

Dr Daniel Ruzzante, Killam Professor, Department of Biology, Dalhousie University, Halifax, Nova Scotia, Canada, B3H4J1 email: daniel.ruzzante@dal.ca, <http://myweb.dal.ca/~ruzzante> Daniel.Ruzzante@Dal.Ca

EastCarolinaU ArthropodEvolutionaryGenomics

A Ph.D. position is available in the newly formed lab of Dr. Michael Brewer in the Department of Biology at East Carolina University (Greenville, N.C.).

My lab uses arthropod taxa, namely arachnids and myriapods, to address questions pertaining to evolutionary biology. More specifically, we utilize systematics, genomics, and bioinformatics to see how organisms and their genomes have evolved in response to various evolutionary pressures. Current projects include 1) investigating the evolution of color morphs in mimicry systems and adaptive radiations, 2) the evolution of venom proteins and compositions, and 3) the phylogenetics and population genomics of non-model arthropod groups. More information can be found through the following links: michael-brewer.com and ecu.edu/cs-cas/biology/brewer_mike.cfm

These projects will foster deep understandings and expertise in biosystematics, phylogenetics, bioinformatics, morphometrics, and various biotechnology techniques, including modern sequencing technologies (e.g., Illumina, Ion Torrent, and Single molecule real-time sequencing). Field work is a necessity for all projects.

I am seeking a highly motivated candidate with interests in evolution, genomics, bioinformatics, and systematics. A masters degree is desired but not required. Applicants with demonstrated experience in the fields mentioned above as well as proficient writing and speaking skills are preferred.

Our Ph.D. program offers five years of guaranteed financial support with two years non-teaching. The package includes a highly competitive stipend, full tuition waivers, and benefits (e.g., medical insurance) included. ECU is the third largest campus in the University of North Carolina system and is situated close to the Atlantic coast, research triangle, and Appalachian Mountains.

Interested students should send a CV and the names of two references to Dr. Michael Brewer (brewermi14@ecu.edu). Interviews will begin immediately and continue until the position is filled. Please contact me with any questions you may have.

Michael S. Brewer, II, Ph.D. Department of Biology East Carolina University Greenville, NC 27858 brewermi14@ecu.edu michael-brewer.com ecu.edu/cs-cas/biology/brewer_mike.cfm

“Brewer, Michael Scott, II”
<BREWERMII14@ecu.edu>

GhentU AvianBiodiversity

The Department of Biology at Ghent University is seeking to fill a full-time PhD position vacancy (m/f) on Avian Foodweb Ecology in Fragmented Landscapes

Background

While habitat fragmentation is increasingly recognized as one of the prime drivers underlying the current global biodiversity crisis, changes in foodweb dynamics resulting from habitat fragmentation have so far received scant attention in functional biodiversity studies. By applying state-of-the-art tools from ecological, forestry and epidemiological research disciplines within a unique plot design, biologists, bio-engineers and wildlife vets of

Ghent University aim to fill this gap by scaling up functional biodiversity research from a classical plot to a landscape level, and from producer dynamics to predator fitness. The research consortium that conducts this ambitious, 6 year research program will host 6 PhD students, each focusing on particular components of the terrestrial food web.

Project

This PhD project focuses on how tree diversity and the spatial configuration of broad-leaved forest fragments affect the ecology, health and performance of a secondary avian predator (great tit, *Parus major*), and how this shapes its predatory impact on arthropod populations (herbivore control). Higher nutritional quality in more diverse forests is thereby predicted to improve health by facilitating a better development of avian immunity and thereby reducing disease susceptibility. A highly fragmented habitat, in turn, is predicted to reduce health through an increase in the use of anthropogenic (lower quality) food and pathogen exposure at forest boundaries, owing to increased contact with human habitation. The successful applicant will implement a variety of field-, aviary- and lab-tools, and will work closely together with other PhD students, field assistants and postdocs.

Profile

You hold a Master degree in Biology or an equivalent Life Sciences degree, with a strong background in population and community ecology.

You are an enthusiastic and motivated student who can deal with long hours in the field, aviary and lab.

You have excellent organizational, writing and presentation skills and are capable of working both independently and within a multidisciplinary team.

Prior experience with ornithology and/or foodweb ecology is highly recommended but not restrictive.

Offer

A Ph.D. scholarship for one year (starting between 1 Jan and 1 Feb 2015) with a three-year extension after positive evaluation.

Enrolment in the Ghent Doctoral School training program that offers various courses, training programs and conferences within and outside the university.

Membership of the Terrestrial Ecology Unit, a dynamic research group that combines field, lab and modelling approaches to study various questions in ecological and evolutionary research (<http://www.ecology.ugent.be/terec/index.php>).

Interested?

Please send (i) a detailed curriculum vitae, (ii) a brief statement of your research interests and motivation for this project (max 250 words), and (iii) contact information of two referees who can supply letters of recommendation upon request, as a single PDF file to luc.lens@ugent.be.

The deadline for application is Friday 14 November 2014, 17 pm; interviews of short-listed candidates will start soon afterwards.

For more information, contact Luc Lens (luc.lens@ugent.be) or Liesbeth De Neve (liesbeth.deneve@ugent.be).

Luc Lens <Luc.Lens@ugent.be>

Halle PlantPopGenetics Baltic Islands

Within the DFG-funded project “Relative effects of local and regional factors as drivers for genetic diversity and functional trait diversity of plant communities on Baltic uplift islands” the Department of Community Ecology is offering a PhD position (65%, 3 years) at the 01.02.2015. The research project will focus on the effects of landscape structure and habitat conditions on patterns of genetic variation in plants on archipelagos in the Baltic sea using SNP data.

Your duties: - Plant sample collection in three island archipelagos in Sweden - Sample preparation for genotyping-by-sequencing, SNP-genotyping - Population genomic analyses of genetic population structure for multiple species in island and mainland landscapes. Testing for effects of landscape structure, isolation, land use and habitat conditions and test of the “southern richness-northern purity” hypothesis - Community genetics analysis of relationship between genetic variation, species and functional diversity - Work in an interdisciplinary project together with the Institute of Landscape Ecology, Justus-Liebig-University Giessen and the Institute of Ecology, Friedrich Schiller University Jena

Your profile: - You are an enthusiastic, dynamic and independent student broadly interested in studying the interface between plant population genetics, landscape ecology and evolution. - An excellent master’s degree in a relevant field of research, including biology, bioinformatics, molecular ecology - Expertise in molecular genetic approaches, ideally experience with genotyping-

by-sequencing methods (RAD-seq, GBS) - Proficiency in genetic data analysis and bioinformatics experience
 - Deep interest in biodiversity at all hierarchical levels
 - Excellent knowledge of spoken and written English and ambition to publish in international journals - High motivation to work in an interdisciplinary team and interest in fieldwork in Sweden for up to three months

For further information, please contact Dr. Walter Durka (walter.durka@ufz.de).

Applicants should apply online via <https://www.ufz.de/index.php?en=11426> or directly at <https://recruitingapp-5128.de.umantis.com/Vacancies/365/Description/2> Dr. Walter Durka Department of community ecology Helmholtz Centre for Environmental Research - UFZ Theodor-Lieser-Str. 4 06120 Halle Germany

walter.durka@ufz.de / <http://www.ufz.de/index.php?en=798> phone +49 345 558 5314 / Fax +49 345 558 5329

walter.durka@ufz.de

LausanneU Evolution

PhD fellowships at the University of Lausanne (Switzerland)

Each year the University of Lausanne offers competitive PhD fellowships in broadly defined biological sciences, including evolution and ecology. The winners can choose a supervisor among those participating in the program, including many group leaders at the Department of Ecology of Evolution (www.unil.ch/dee). The Department of Ecology and Evolution is one of the strongest centers in evolutionary biology in Europe and the organizer of the next congress of the European Society for Evolutionary Biology. It consists of over 20 research groups including about 50 postdocs and 70 PhD students; several of those PhD students are winners of the fellowship in previous years. The fellowships are for three years plus a fourth year funded by grants of the supervisor. A Master or an equivalent degree is a prerequisite of being admitted into a PhD program in Switzerland (but the candidates do not yet have to hold a master at the time of application).

Information about the fellowships, requirements and the application procedure can be found under <http://www.unil.ch/ecoledoctoralefbm/home/menuinst/phd-in-life-sciences/fellowships/procedure.html> Note that

to assure consideration, the application must be sent in paper form by mail and have arrived by November 1.

Lausanne is a medium-sized city on the shores of Lake Geneva, surrounded by a wine growing region (recognized as one of UNESCO Heritage sites) and within one hour of the Alps. It offers a great variety of cultural, recreational and outdoor opportunities.

Tadeusz J. Kawecki

tadeusz.kawecki@unil.ch

MartinLutherU MolEvol

Job: PhD position in molecular evolution

Fix term position in the molecular ecology research group at the Martin-Luther-University Halle-Wittenberg.

Duration: 2 years (01.02.2015 - 31.01.2017) Funding amount: 50% E13 TV-L

We are seeking a person with a Master of Science or equivalent in Biology in the field of molecular evolution. The successful candidate will be familiar with next generation sequencing techniques, the analyses of genomic data and the biology of social insects. Excellent command of the English language in both writing and speaking is essential.

The successful candidate will participate in the DFG project 'The role of major royal jelly proteins for caste determination in the honeybee, *Apis mellifera*' and in teaching activities in ecology and population genetics at the BSc/ MSc. The group has excellent laboratory facilities with all state of the art equipment including a next generation sequencing platform.

The research focus of the group is on evolutionary biology of social bees with the honeybee being used as the model system for many studies. A detailed research profile can be found at <http://www.mol-ecol.uni-halle.de/> More detailed information can be obtained by Prof. Dr. Dr. hc Robin F. A. Moritz, Tel: 0049-(0)-345 55-26223, E-Mail: robin.moritz@zoologie.uni-halle.de

Please submit your application before Nov 10. 2014 referring to Reg.-Nr.: 5-8594/14-D together with your CV, certificates, name of one referee by e-mail to : robin.moritz@zoologie.uni-halle.de or in hard copy to Prof. Dr. Dr. hc. Robin F. A. Moritz, Abt. Molekulare Oekologie, Institut fuer Biologie/Zoologie, Martin-

Luther- Universitaet Halle-Wittenberg, Hoher Weg 4, 06120 Halle (Saale).

anja.buttstedt@zoologie.uni-halle.de

MaxPlanckInstEvolBiol **EvolutionaryImmunogenomics**

The newly established Research Group Evolutionary Immunogenomics in the Department of Evolutionary Ecology at the Max-Planck Institute for Evolutionary Biology in Plön/Germany has an opening for a

PhD student

Our research explores the evolution of immunogenetic and genomic variability and its implications for individual immunocompetence and ultimately fitness. We are mainly focusing on data from human populations, using a wide spectrum of approaches from molecular biology and high-throughput sequencing to computational analyses and theoretical modeling, but also employ experimental model systems (stickleback, mouse) to test predictions in the lab. Our scientific motivation ranges from pure curiosity about evolutionary processes to the desire to push the practical boundaries of Evolutionary and Personalized Medicine. Specific projects within the scheme of the lab are flexible and can be tailored to skills and interest of the successful candidate.

The group is part of the Max Planck Institute for Evolutionary Biology with its vibrant and collaborative research community of experimental, computational, and theoretical labs that all share a common interest in Evolutionary Biology. Cutting edge infrastructure is available at all levels, including high-performance computer clusters, a next-gen sequencing core facility, as well as molecular and experimental labs with substantial fish and mouse rearing facilities. The institute also maintains strong ties to Kiel University with large communities in evolutionary biology and medical genetics. Furthermore, our lab is currently collaborating on a number of projects with groups at Harvard Medical School in Boston and the University of Texas in Austin. Working language at the institute is English.

This position requires a Master's/Diplom degree in Biology, Bioinformatics, Genetics or a related field. The ideal candidate is fascinated by evolutionary questions and eager to learn and master new skills and tools. The duration and funding of a PhD project in the German university system is generally aimed at three years.

PhD candidates at the institute have the opportunity to become member of the International Max Planck Research School for Evolutionary Biology in collaboration with the University of Kiel.

The PhD fellowship is funded for three years, extension possible. The starting date is flexible and can be immediate. The fellowship includes support for health insurance and family (if applicable), and housing and living in this area is affordable. The Max Planck Society is committed to employing more handicapped individuals and especially encourages them to apply. The Society also seeks to increase the number of women in those areas where they are underrepresented and therefore explicitly encourages female candidates to apply. The institute is located in Plön, northern Germany, in close proximity to the university cities of Kiel and Lübeck and not far from Hamburg, the second-largest city in Germany. Frequent train connections allow for an easy commute between Plön and Kiel/Lübeck (each 30 min) and provide general access to the well-developed European train network. Plön is surrounded by a beautiful landscape with many lakes and provides ample opportunity for water sports and other outdoor activities.

To apply, please send a cover letter with your motivation/interests and research experience (1 page max), CV, and contact info of 2-3 references in one PDF file to lenz <a> evolbio.mpg.de, using the subject line 'PhD in Evolutionary Immunogenomics'. Review of applications will start Nov 15th and will continue until the position is filled. Informal inquiries are welcome. For more information about our research and the institute, please visit the lab's website at <http://www.evolbio.mpg.de/EvolutionaryImmunogenomics>

Dr. Tobias Lenz Group Leader in Evolutionary Immunogenomics Department of Evolutionary Ecology Max Planck Institute for Evolutionary Biology August-Thienemann-Str. 2 24306 Plön Germany lenz@evolbio.mpg.de

lenz@evolbio.mpg.de

MaxPlanckInst Seewiesen **RavenBehaviour**

Do Ravens Modify Their Signals According to Their Audience's Comprehension?

We are looking for a motivated student for a master project at the Humboldt Research Group ³Comparative Gestural Signalling² at the Max Planck Institute for

Ornithology, Seewiesen, Germany

When people are not fully understood, they persist with attempts to communicate, in order to better convey their meaning. We want to investigate whether captive ravens (*Corvus Corax*) would use analogous communicative strategies in signaling, and whether they could distinguish different degrees of misunderstanding.

Terms of appointment and qualifications: - The project should start in March 2015 and will last for 4-5 months
- Experience in behavioural biology would be beneficial
- Because of the rather remote location of our institute, a private car would be recommended

We seek a highly motivated person with organizational skills, able and willing to work independently. You will learn to interact with eight hand-raised ravens, to set up the observation schedule, film the behaviour and experiments, design and develop a coding scheme and analyze the behavioural interactions.

We offer the opportunity to work at one of the leading institutes for bird research in Germany and Europe and to learn methods in comparative research and behavioural biology.

Applications should include a CV, a letter of motivation and contact details of one referee. Application deadline: 31.12.2014

For further information please contact:

Miriam Sima (Primary contact) msima@orn.mpg.de

Group Leader: Dr. Simone Pika spika@orn.mpg.de
Webpage: www.orn.mpg.de/cgs

“Sima, Miriam” <msima@orn.mpg.de>

MichiganStateU EvolutionElectricOrgans

Many studies have elucidated the genetic and developmental processes underlying major vertebrate traits (fins, limbs, etc) in extant lineages. Most of these traits have evolved only once, limiting insights into the degree of constraint and repeatability of the evolutionary processes. In contrast with most other vertebrate traits, there have been six independent origins of electrogenesis, the ability to generate electric discharges from an electric organ, within fishes. Despite their clear benefit as a model for understanding general principles of parallel evolution of complex vertebrate tissues, we know

little about the molecular and developmental processes underlying this tissue. In every group that has evolved electrogenesis, electric organs originate during development from skeletal muscle. The long-term goal of the Electric Fish Laboratory at Michigan State (<http://efish.zoology.msu.edu>) laboratories is to characterize the evolutionary steps that have occurred to modify the developmental program in skeletal muscle to give rise to the electric organ. A recent study (Gallant et al. 2014, Science) identified suites of genes in four species, representing three independent origins of electrogenesis, which appear to be critical in the evolution of electric organs. Using cutting edge techniques in evolution and development (including transgenics, genomics and molecular biology), we plan to test hypotheses concerning the roles of these genes in the evolution of electric organs.

Ideal candidates for this position are high achieving, creative, and independent. Training will combine cutting edge techniques in genomics, bioinformatics molecular biology and animal behavior. Michigan State University (MSU) is a world-class research university, providing world-class computing and genomics resources. Set in the college town of East Lansing, the area features a low cost of living as well as ideal surroundings for nature lovers and sports fanatics alike. Prospective applicants can be supported through several interdepartmental graduate programs, including a top-ranked program in Ecology, Evolutionary Biology and Behavior (<http://eebb.msu.edu>), as well as genetics (<http://genetics.msu.edu>). Students will be encouraged to participate in a one-of-a-kind NSF-sponsored BEACON center for the study of evolution in action (<http://beacon-center.org>), for which MSU is the host institution. Successful candidates will be supported through a combination of research assistantships and teaching assistantships, and highly qualified may be eligible for additional support through competitive fellowships at the University level.

Applications to MSU either graduate program in Biomolecular Science or Zoology is due December 1st, 2014. Interested candidates are strongly encouraged to send inquiries in advance of this deadline to Dr. Jason Gallant (jgallant@msu.edu) for more information concerning this position, as well as guidance on the most appropriate graduate program to apply through.

“jason.r.gallant@gmail.com” <jgallant@msu.edu>

MichiganStateU GenomicsAnimalCommunication

The relative contribution of divergent natural selection and sexual selection on communication signals in the evolution of reproductive isolation is a central question in biology. Progress is limited by poor knowledge of how divergent communication signals originate at the genetic, cellular, and morphological levels, as well as difficulty connecting population level processes prior to speciation with the macroevolutionary patterns of diversity observed after speciation is completed. The more than 200 nominal species of mormyrids are ideally suited for circumventing such problems, producing easily measured and quantified electric discharge signals (EODs), which have a discrete anatomical and physiological basis. EOD signals are typically species-specific and have been demonstrated to be a necessary component of courtship behavior, particularly for a rapidly evolved “species flock” of mormyrids in the genus *Paramormyrops*. The Electric Fish Lab at Michigan State University (<http://efish.zoology.msu.edu>) has recently focused on linking these macroevolutionary patterns of electric signal diversity to population-level processes. We have identified a key species to use newly developed techniques in evolutionary genomics to identify genes responsible for macroevolutionary patterns of electric signal diversity, critical in the speciation process.

Ideal candidates for this position are high achieving, creative, and independent. Training will combine cutting edge techniques in genomics, bioinformatics molecular biology and animal behavior. Michigan State University (MSU) is a world-class research university, providing world-class computing and genomics resources. Set in the college town of East Lansing, the area features a low cost of living as well as ideal surroundings for nature lovers and sports fanatics alike. Prospective applicants can be supported through several interdepartmental graduate programs, including a top-ranked program in Ecology, Evolutionary Biology and Behavior (<http://eebb.msu.edu>), as well as genetics (<http://genetics.msu.edu>). Students will be encouraged to participate in a one-of-a-kind NSF-sponsored BEACON center for the study of evolution in action (<http://beacon-center.org>), for which MSU is the host institution. Successful candidates will be supported through a combination of research assistantships and

teaching assistantships, and highly qualified may be eligible for additional support through competitive fellowships at the University level.

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Jason Gallant <jason.r.gallant@gmail.com>

MonashU EvolutionaryEcology

****PhD position: evolutionary ecology and physiology****

A PhD position is available in the group of Matthew Hall at Monash University. We are looking for a highly motivated candidate with broad interests in evolutionary ecology and physiology. The successful application will be familiar with basic evolutionary concepts and have the capacity to develop their own interests using water fleas of the genus *Daphnia* as a study system. Projects related to the following areas will be particularly encourage:

- The role of metabolic function in shaping organismal health
- The evolutionary ecology of ageing and life-history
- Local adaptation of ecological relevant traits

****Scholarship details**** The deadline for the current round of scholarships is 31st October 2014, but alternative funding is available for be outstanding candidate at anytime. Each PhD stipend is fully funded for a period of 3.5 years and is open to both Australian/NZ domestic and international students.

****Monash and the School of Biological Sciences**** Monash is a member of the Group of Eight, a coalition of top Australian universities recognized for their excellence in teaching and research. The School of Biological Sciences is a dynamic unit with key strengths in evolutionary ecology, physiology and genomics (monash.edu/science/about/schools/biological-sciences/research/). The University is located in Melbourne, one of the most liveable cities in the world and a cultural and recreational hub.

****Application process**** Interested candidates should send an email outlining their research interests and mo-

tivation, together with a CV and academic transcript to matthew.hall@monash.edu. Applicants must possess a Bachelor's or equivalent degree with first-class Honours, Master of Science or MPhil. Short-listed candidates will be asked for further information.

For further information on the research group of Matthew Hall visit mattdhall.com

matthew.hall@monash.edu

NorthCarolinaStateU EvolutionaryGenetics

Genetics Graduate Program Now Accepting Applications for Fall 2015

The Graduate Program in Genetics is currently accepting applications for M.S. and Ph.D. students for the Fall, 2014 semester. This program was established in 1952, and is one of the longest running genetics graduate programs in the USA. The graduate training faculty are a highly interactive group performing research in all aspects of genetics from molecules to populations. Our research encompasses behavioral genetics, biomedical genetics, computational genetics and bioinformatics, evolutionary, population and quantitative genetics, and molecular, cellular and developmental genetics. Our faculty utilize a wide range of traditional and non-traditional model systems in their research. We consider graduate students to be professionals in training, and provide a well-rounded program of academic, research and professional training. Students are intimately involved in program activities have a strong voice in shaping the program. We provide broad and comprehensive graduate training in genetics and also flexible academic programs tailored to meet the background and career goals of the individual student. For more information go to *genetics.sciences.ncsu.edu < <http://genetics.sciences.ncsu.edu> >* or email Trudy Mackay (trudy_mackay@ncsu.edu) or Melissa Robbins (melissa_robbins@ncsu.edu).

Melissa Robbins

Genetics Graduate Program Coordinator

Department of Biological Sciences < <http://bio.sciences.ncsu.edu/> > Genetics Program 3510 Thomas Hall Campus Box 7614 College of Sciences NC State University Tel: 919-515-2291 Email: merobbi3@ncsu.edu

Melissa Robbins <merobbi3@ncsu.edu>

NorthernArizonaU PlantHerbivoreInteractions

Ph.D. and M.S. positions are available for the fall of 2015 in the lab of Liza Holeski (<http://www.holeskilab.weebly.com>), Dept. of Biological Sciences at Northern Arizona University. Research in the lab broadly focuses on the evolution, genetics, and ecology of plant-herbivore interactions within *Mimulus* and *Populus* species. The graduate students will use a variety of greenhouse, laboratory, and field-based approaches to investigate the genetics and phenotypic plasticity of plant morphological and chemical traits that influence plant-herbivore interactions.

For more information about the NAU Biology department and graduate programs, visit <http://nau.edu/cefns/natsci/biology/> Northern Arizona University (<http://www.nau.edu>) is a comprehensive public institution located in Flagstaff, AZ (population 65,000; elevation 7000 ft) on the southern Colorado Plateau, adjacent to mountains, deserts, and the Grand Canyon.

Interested candidates should contact me (liza.holeski@nau.edu) by December 10th, 2014. Please include a C.V. and a brief description of your background and research interests.

Assistant Professor Dept. of Biological Sciences 617 S. Beaver St. Northern Arizona University Flagstaff, AZ 86011

Liza Marie Holeski <Liza.Holeski@nau.edu>

OhioU EvolutionaryEcophysiology

The Rosenthal lab in the Department of Environmental and Plant Biology at Ohio University, in Athens, OH is looking for independent, motivated graduate students interested in pursuing PhD in Plant Evolutionary Ecophysiology.

I am particularly interested in applicants with a strong foundation in evolutionary genetics or breeding and a demonstrated interest in plant physiological ecology.

The student will be expected to develop a thesis or dissertation that seeks to elucidate physiological, genetic (genomic) mechanisms constraining plant ecophysiological performance and productivity. Please contact me via email rosentha@ohio.edu prior to submitting an application.

Highly qualified applicants who have completed their degrees by December 2014 could begin as early as January of 2015. To be considered for January admission a complete application must be received before November 7th, 2014.

Application instructions can be found here: http://www.plantbio.ohiou.edu/index.php/grad/-admission_app David M Rosenthal Assistant Professor Department of Environmental and Plant Biology 309 Porter Hall Ohio University Athens, OH, 45701 740 593 0792 http://www.plantbio.ohiou.edu/-index.php/directory/faculty_page/david_m.rosenthal/davidrosenthal2@gmail.com

PurdueU FishEcologyEvolution

PhD and MS positions are available in lab of Mark Christie at Purdue University. Two positions are available for highly-motivated candidates interested in the ecology and evolution of fishes. For more information on research in the Christie lab please visit: <http://markchristie.wordpress.com> Potential projects include: 1. Examining the rapid adaptation of introduced fishes into the Great Lakes, 2. Identifying the genetic and evolutionary consequences of domestication, captive breeding, and supplementation within a hatchery context, and 3. Using existing and novel approaches to determine patterns of larval dispersal in fishes. These are the main research themes in the Christie laboratory, but graduate students are free to explore independent lines of inquiry. All graduate students will be encouraged to use molecular tools including next-generation sequencing (e.g., RAD-Seq, RNA-Seq) to generate and analyze comprehensive genetic data sets. As such, previous research experience with molecular techniques, computational work, bioinformatics, and assisting with the design and implementation of experiments will be highly regarded.

If you are interested in joining the lab, please contact me directly at markchristie@purdue.edu with a resume/CV and a brief description of your research interests and experience.

Mark Christie <markchristie@purdue.edu>

PurdueU HerpetologyConservation

Title: MS Research- Hellbender Ecology and Conservation Agency: Purdue University Location: West Lafayette, IN

Job Description: Seeking a highly motivated student for a MS position focusing on hellbender ecology and conservation. The selected candidate will assess post-release juvenile movements and survival, characterize juvenile habitat use, and conduct habitat modifications. This project will consist of intensive field work, up to nine months, at field sites located in southern Indiana. Transportation and off-campus housing will be provided. Graduate position begins in August 2015, but opportunities for field work can begin in May 2015.

Qualifications: A student with a background in herpetology or related field is preferred. Experience using radio-telemetry is desired. Applicants must have a strong work ethic and the ability to work both independently and as a member of a team of graduate students working on hellbender ecology and conservation (e.g., students evaluating larval hellbender captive rearing techniques, developing ecological niche models, and hellbender genetics). Applicants also will work closely with a diverse group of scientists, state wildlife biologists, private landowners, and zoo personnel. Excellent writing and interpersonal skills are essential.

Funding for research will be provided, but the successful student will need to secure a departmental assistantship through the application process from Purdue Department of Forestry and Natural Resources. Competitive students will have stellar GRE scores, grades/GPA, and letters of recommendation. Applicants are encouraged to visit <https://ag.purdue.edu/-fnr/Pages/gradadminguide.aspx> to ensure they meet the minimum departmental requirements for admission. Students that do not meet minimum requirements will not be considered.

To apply, electronically submit a single PDF that consists of a cover letter stating research and career interests, CV (including cumulative GPA and GRE scores & percentages), and contact information for three references to Dr. Rod Williams (rodw@purdue.edu). Only those applicants deemed competitive for a departmental assistantship will be asked to formally apply to the Purdue Graduate School and Department of Forestry

and Natural Resources.

Purdue University is an equal access/equal opportunity/affirmative action employer fully committed to achieving a diverse workforce.

Stipend: ~\$18,000/yr Last Date to Apply: November 14, 2014 Contact: Rod Williams E-mail: rodw@purdue.edu Web: <http://web.ics.purdue.edu/~rodw/> Steven J.A. Kimble, PhD Postdoctoral Research Assistant and Vertebrate Collection Curator, Department of Forestry and Natural Resources Purdue University skimble@purdue.edu sjkimble@gmail.com web.ics.purdue.edu/~rodw/sKimble.php < <http://web.ics.purdue.edu/~rodw/Steve%20Kimble.htm> >

Steve Kimble <sjkimble@gmail.com>

RiceU EvolutionaryBiology

The Department of BioSciences at Rice University invites applications for admission into our *Ecology & Evolutionary Biology Ph.D. program*. BioSciences is home to a vibrant community of faculty, postdoctoral, graduate, and undergraduate scholars in Ecology and Evolution, Biochemistry, Cell Biology, Genetics and Neuroscience. Our EEB program has particular strengths in animal behavior, population and community ecology, conservation biology, evolutionary ecology, and evolutionary genetics and genomics.

The following faculty members are potentially accepting graduate students for Fall 2015:

Scott Egan (scott.p.egan@rice.edu): evolution, speciation, population genetics and genomics, species interactions, conservation and invasions. <http://biosciences.rice.edu/FacultyDetail.aspx?pBF81ACD460E06B>

Volker Rudolf (volker.rudolf@rice.edu): Community ecology, ecological networks, climate change, intraspecific variation, predator-prey interactions, cannibalism, host-pathogen dynamics. <http://biosciences.rice.edu/FacultyDetail.aspx?pÖB0B3E3C0964CCA> *Julia Saltz* (julia.b.saltz@rice.edu): Development and evolution of individual differences in behavior, behavioral genetics, evolutionary feedbacks, phenotypic plasticity, learning. <http://biosciences.rice.edu/FacultyDetail.aspx?pF79640FD006124>

Evan Siemann (siemann@rice.edu): Population and community ecology, forests, grasslands, plant ecology,

insect ecology, plant/herbivore interactions, biodiversity, conservation. <http://biosciences.rice.edu/FacultyDetail.aspx?pA1E3DB5F2FD7D3> We offer highly competitive financial support and light teaching requirements for graduate students. We are located in Houston, Texas, an exciting, diverse, and affordable city with world-class opportunities for dining, arts, and entertainment and access to diverse terrestrial and aquatic environments. Rice is located beside one of the countrys largest medical research centers, providing additional opportunities in bioinformatics and genomics.

Completed applications should be received by January 10 to ensure full consideration. There is no application fee for US citizens and permanent residents. Prospective applicants are strongly encouraged to contact potential faculty advisors before applying. Complete information about the graduate program, including application instructions, may be found at <http://biosciences.rice.edu/Content.aspx?id6> . Julia B. Saltz Assistant Professor of Ecology & Evolutionary Biology Department of Biosciences Rice University 6100 Main Street, MS-170 Houston, TX 77005 julia.b.saltz@rice.edu Saltzlab.wordpress.com

Julia Saltz <julia.b.saltz@rice.edu>

SaintLouisU ArthropodEvolution

MS or PhD positions in the Evolutionary Ecology of Arthropods

Department of Biology, Saint Louis University

The Fowler-Finn laboratory has openings for 1-2 graduate students (MS or PhD) for the Fall 2015 at SLU. Potential projects include (but are not limited to) the evolution of arachnid mating systems and male investment strategies, social plasticity in male signaling and female mate preference behavior, indirect effects of predators on prey behavior, evolution of conflict and cooperation during mating, and epigenetics of behavior.

Applicants please contact Dr. Fowler-Finn directly and provide a statement of research interests, CV, and names and email addresses of one-two people willing to act as academic references to fowlerfinn@slu.edu

Kasey Fowler-Finn, Ph.D. Assistant Professor Department of Biology Saint Louis University

314-977-7062

<http://bio.slu.edu/fowlerfinn/> Kasey Fowler-Finn
<fowlerfinn@slu.edu>

StellenboschU InvasiveTree

PhD position: Disentangling the drivers of invasive alien trees in East Africa

An exciting PhD position is available at Stellenbosch University's Centre of Excellence for Invasion Biology (C*I*B, <http://academic.sun.ac.za/cib/>). The C*I*B is a world-leading research centre in the field of biological invasions. The proposed project forms part of a multi-national research initiative between European and African partners. The overarching goal of the research project is to help to mitigate the effects of invasive alien trees on biodiversity, ecosystem services and human well-being in East Africa. We are seeking a creative and motivated student who wishes to carry out original research in the field of invasion biology, with a strong evolutionary focus.

The PhD project is specifically aimed at understanding the drivers of alien tree invaders (*Prosopis* species) in East Africa and to relate species traits and habitat characteristics to invasions in East African biodiversity hotspots. The PhD candidate will determine the incidence and extent of hybridization between *Prosopis* species in various East African countries, assess genotype X environment interactions in these areas, assess how genotypic identity and/or incidence of hybridization links with habitat suitability, map *Prosopis* invasions in East African forest reserves to determine the effects of reserve isolation, proximity to propagule sources, and edge effects on invasion extent.

The student will be based at Stellenbosch University (<http://www.sun.ac.za/Home.aspx>) but will spend substantial periods of time in East Africa (Ethiopia, Kenya, Tanzania) to conduct field research and interact with other consortium members at various host institutions.

The project is suitable for students interested in environmental management, GIS, and population ecology, population genetics and/or evolutionary biology. Applicants should hold an MSc degree in one or more of the following fields: Ecology, Botany, Evolutionary biology or Population genetics. Preference will be given to individuals with demonstrated skills in one or more of these fields and an excellent academic track record (grades, publications in international journals, etc.). Successful candidates will be fully funded for 3.5 years, for

full time research, with no teaching requirements. An attractive annual stipend will be offered, along with additional expenses for research, international travel and subsistence and conference attendance. Individuals of all nationalities are eligible.

To apply, please send a CV, academic transcript, contact details for at least two academic references, and a brief outline of research interests to Dr. Jaco Le Roux (jlroux@sun.ac.za) and Prof. Brian van Wilgen (bvanwilgen@sun.ac.za) by 30 November 2014. Informal inquiries are welcome. Review of applications will begin immediately, and short-listed candidates will be contacted to set up phone/Skype interviews. The envisaged start date for the project would be March/April 2015. The integrity and confidentiality of this email is governed by these terms / Hierdie terme bepaal die integriteit en vertroulikheid van hierdie epos. <http://www.sun.ac.za/emaildisclaimer> "Le Roux, JJ, Dr <jlroux@sun.ac.za>" <jlroux@sun.ac.za>

StockholmU LifeHistoryVariation

PhD student position in Ethology at the Department of Zoology. Reference number SU FV-2909-14. Deadline for applications: November 20, 2014.

Project description We are seeking a highly motivated PhD student with an interest in evolutionary biology and behavioral ecology to take part in the research project "Life-history variation, behavior and methylation patterns", funded by the Swedish Research Council. The aim of the project is to investigate the association between methylation patterns and variation in life-history traits and behavior across species. Methylation is one of several epigenetic inheritance mechanisms, which may play an important role in phenotypic plasticity and genetic accommodation. Understanding epigenetic effects has implications for core evolutionary processes such as heritability, maintenance of genetic variation and speciation. Still, we have only a rudimentary understanding of how evolutionary processes are affected by these epigenetic effects. The project involves a combination of modern phylogenetic comparative methods and experimental approaches to analyze the association between methylation and interspecific variation in life-history and behavior using killifish (Cyprinodontiformes) as a model system. The selected candidate will gain experience in modern phylogenetic comparative methods, experimental design,

molecular analyses and statistics. This is an ambitious project which will be demanding and require excellent organization and analytical skills. However, we think it will also be very rewarding and exciting.

The candidate will be based in Stockholm, the capital of Sweden and a beautiful and vibrant Scandinavian city. Since one of the PIs of the project has a joint affiliation between Stockholm University and the Universidad Nacional Autónoma de México, research visits to the later, in Mexico City, another vibrant and diverse city with plenty of cultural offer, are also highly likely.

The proposed project combines the different areas of expertise of the two principal investigators, who will jointly supervise the candidate. Alejandro Gonzalez Voyer is interested in phenotypic evolution and speciation, topics that are mainly addressed using modern phylogenetic comparative methods. Björn Rogell has a broad interest in environmental stress, local adaptation and phenotypic plasticity.

Qualifications To be qualified for research studies in ethology the applicant must have completed a research degree (e.g. Master's), or have passed at least 120 hp (2 years) of biological studies, including an approved independent project of at least 30 hp at advanced level ("examensarbete") within ethology, evolutionary biology or related subjects. Applicants who have in principle acquired the corresponding competence in Sweden or abroad are also qualified.

Criteria for selection Among qualified applicants, selection is made according to the ability to benefit from the studies. The criteria to be used are properly documented competence within the described research area, capabilities with regards to speaking and writing in English (note that English is the working language in the groups), analytical thinking, organizational skills, creativity, initiative, independence, and team work performance. Experience with statistical analysis and molecular data is an advantage. The applicant's earlier experience within the field of research can be of relevance especially when further documented by university courses, independent research works, personal references, interview and an application indicating the applicant's motivations in written form.

Terms of employment The PhD studies include 48 months of full-time studies with employment as PhD student. The salary currently starts at 23.700 SEK/month.

Stockholm University aims to be a workplace free from discrimination and with equal opportunities for everyone.

Information For further details, please contact Dr. Alejandro Gonzalez Voyer, a.gonzalezvoyer@zoologi.su.se, or Dr. Björn Rogell, bjorn.rogell@zoologi.su.se, at the Department of Zoology.

Union representatives Anqi Lindblom-Ahlm (Saco-S) and Lisbeth Häggberg (Fackförbundet ST), telephone: +46 8 16 20 00 (switchboard), and Gunnar Stenberg (SEKO), telephone: +46 70 316 43 41.

Application The application should contain:

personal presentation and letter of intent/motivation: maximum one A4-page CV (including methodological skills) copy of independent project thesis copies of degree certificates and transcripts of academic records (attested) two reference letters and contact details for these academic referees. Please send your application, marked with the reference number SU FV-2909-14, no later than November 20, 2014, by e-mail to: registrator@su.se.

Documents sent by e-mail should be in Word or PDF format. NOTE! State the reference number SU FV-2909-14 also in the subject line of your e-mail.

– Alejandro Gonzalez Voyer Assistant Professor

— / —

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>

StockholmU PlantEcoEvolutionaryDynamics

Position for one PhD student in Plant Eco-Evolutionary Dynamics at Stockholm University, Sweden

We seek a PhD candidate to join a project examining how adaptive genetic variation and demographic processes influence evolutionary response and population dynamics in a changing environment. The research uses the perennial herb *Primula farinosa* as a model system, and focuses on the importance of variation in floral traits and life history in relation to differences in abiotic conditions, the intensity of biotic interactions, and climate. The project will combine demographic studies, field experiments, and population modeling, to address three main questions: (1) How is population viability influenced by local environmental conditions, grazing

intensity and climatic variation?, (2) How does variation in abiotic environmental factors and grazing influence the genetic structure of plant populations?, and (3) How does the presence of genetic variation in traits of adaptive significance and evolutionary responses influence population viability in a changing environment? Specific subprojects can be tailored to the skills and interests of the successful candidate.

The project is a collaboration between the labs of prof Johan Ehrlén at the Department of Ecology, Environment and Plant Sciences, Stockholm University and prof Jon Ågren at the Department of Ecology and Genetics, Evolutionary Biology Centre, Uppsala University. We are currently recruiting one PhD student to be placed at Stockholm University and a postdoc to be placed at Uppsala University.

We are looking for a candidate with a keen interest in population biology and eco-evolutionary dynamics. Previous experience of modelling, and field or experimental work is desirable. Proficiency in English is a requirement.

The successful PhD student candidate should have a degree in Biology at the advanced level (e.g. Masters) of at least 240 credits, and will receive a postgraduate position for four years of full-time studies.

Deadline for application is 20 November 2014

Please find the announcement, with all information about how to apply, at:

<http://www.su.se/english/about/vacancies/-phd-studies/phd-student-position-in-plant-eco-evolutionary-dynamics-1.205740>

For informal enquiries, please contact Johan Ehrlén johan.ehrlen@su.se, +46-8-16 12 02, or Jon Ågren, jon.agren@ebc.uu.se, +46-18-471 2860.

Jon Ågren Plant Ecology and Evolution Department of Ecology and Genetics, EBC Uppsala University Norbyvägen 18 D SE-752 36 Uppsala Sweden

Jon Ågren <jon.agren@ebc.uu.se>

StockholmU PlantInteractions

PhD position at the University of Stockholm (Department of Ecology, Environment and Plant Sciences)

Topic: The ecology and evolution of plant-microbe-insect interactions

Deadline for applications: November 20, 2014.

Project description

Plant-based food webs are well-known for their stunning species diversity and complexity. For example, several million insect species and a similarly large number of fungi, bacteria, nematodes and viruses interact with the world's c. 300,000 plant species. Unfortunately, studies on terrestrial food webs are often hampered by the lack of interdisciplinary approaches. For example, while we know that insects interact with insects, and microbes with microbes, cross-kingdom interactions among plants, insects and microbes have only infrequently been explored. Nevertheless, recent evidence indicates that plant-microbe-insect interactions may be one of the major forces structuring the ecology and evolution of terrestrial plant-based communities.

In this project, the PhD student can pursue multiple approaches (depending on skills and interest) to investigate the role of plant-microbe-insect interactions in structuring plant-based communities. The student will start the project by using field observations and a large greenhouse experiment to quantify the relevance of plant-microbe-insect interactions within a community context. Depending on the interest of the student, the next step may be to take a molecular approach to reveal the genetic and physiological mechanisms underlying plant-mediated insect-microbe interactions, or delve more deeply into community interactions under field conditions. Questions can be answered using the well-characterized food web surrounding *Plantago lanceolata* or the species-rich food web on the pedunculate oak *Quercus robur*.

For more information, see:

<http://www.su.se/english/about/vacancies/phd-studies/phd-position-in-ecology-1.206641>

Reference number: SU FV-2888-14

Dr Ayco Tack, Department of Ecology

Environment and Plant Sciences

Stockholm University, Sweden

Tel: +358 (0)45 1107855

< <http://www.plantmicrobeinsect.com/> >

< <http://www.su.se/emb/english/about-us/staff/t-%C3%B6/ayco-tack-1.174565> >

< <http://www.helsinki.fi/foodwebs/Ayco.htm> >

ayco.tack@su.se

StonyBrookU Evolution

GRADUATE OPPORTUNITIES IN ECOLOGY AND EVOLUTIONARY BIOLOGY

The Graduate Program in Ecology and Evolution in the Department of Ecology and Evolution at Stony Brook University is recruiting doctoral and master's level graduate students for Fall 2012. The program trains students in Ecology, Evolution and Biometry. The following faculty are seeking graduate students this year:

Stephen B. Baines - Aquatic Ecosystem Ecology <http://life.bio.sunysb.edu/ee/baineslab/-opportunities.grad.html> Michael A. Bell - Contemporary Evolution and Evolutionary Genetics <http://life.bio.sunysb.edu/ee/belllab/> Liliana M. Dávalos - Vertebrate Phylogenetics, Biogeography and Conservation <http://life.bio.sunysb.edu/ee/-davaloslab/Join.html> Lev Ginzburg - Theoretical Ecology <http://life.bio.sunysb.edu/ee/ginzburglab/> Catherine Graham - Tropical Vertebrate Biogeography and Ecology <http://life.bio.sunysb.edu/ee/-grahamlab/> Jessica Gurevitch - Plant Population and Invasion Ecology <http://life.bio.sunysb.edu/-gurevitchlab/> Brenna Henn - Human Evolutionary Genomics <https://ecoevo.stonybrook.edu/hennlab/> Jesse D. Hollister - Plant Evolutionary Genomics and Epigenetics <http://wp.biota.utoronto.ca/hollister/> 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/> Alistair Rogers - Plant Physiology and Climate Change www.bn.gov/-TEST John True - Evolutionary Developmental Biology <http://life.bio.sunysb.edu/ee/truelab/-True.Lab.html> Kishna M. Veeramah - Primate Comparative Genomics <http://life.bio.sunysb.edu/-ee/veeramahlab/index.html> For more information regarding the Graduate Program in Ecology and Evolution see <http://life.bio.sunysb.edu/ee> and <http://life.bio.sunysb.edu/ee/programs.htm> The deadline for receipt of all application materials for the PhD program is January 15, 2015 although earlier submission is encouraged to ensure full consideration for available fellowships. The deadline for receipt of all application materials for the master's program is April 15, 2015. The Graduate School's Center for Inclusive Education

is offering application fee waivers if a student has met with SBU representatives at a recruitment event and provided SBU with their contact information. For assistance, with this or other aspects of the application process, e-mail our Graduate Program Coordinator, Melissa Cohen melissa.j.cohen@stonybrook.edu.

lmdavalos@gmail.com

Sydney MolecularEvolution

3 PhD opportunities available in the Molecular Evolution Lab at Macquarie University, Sydney, Australia for a start from mid to late 2015.

Open to all nationalities. Closing date: December 15th 2014 More information: www.robertlanfear.com/join Project 1: The ecology and evolution of somatic mutation in plants

Somatic mutations (mutations in the body tissues) are fundamentally important in the ecology and evolution of plants, and they have huge implications for agriculture and plant industry. Surprisingly though, very little is known about them. This project will use cutting-edge sequencing and bioinformatic approaches to gain some of the first insights into the causes and consequences of somatic mutation in plants. The work will be carried out on an experimental population of eucalyptus trees planted in the beautiful Australian alps.

The research involves sequencing and comparing genomes to reconstruct the history of somatic mutations within individual plants. These histories will then be used to test hypotheses about the causes and consequences of somatic mutation within and between plants. The work will illuminate many fascinating and under-explored areas of biology, and there is great scope for students to develop the research in line with their interests.

Project 2: Molecular evolution and macroevolution in acacias

Why do some species evolve faster than others? Do rates of molecular evolution drive rates of speciation? Are rates of morphological and molecular evolution linked? This project will answer these and many other questions using acacias, one of the most iconic and species-rich plant groups in Australia, as a model system.

The research will combine sequencing, phylogenetics,

comparative analyses, and experimental work to gain a rich understanding of macro- and molecular evolution across the acacias. The initial focus will be on testing key hypotheses about the causes and consequences of molecular evolution, but following this there will be great scope for students to develop the research in line with their interests.

Prospective applicants should ideally have an MSc in a related discipline (with a 50% research component), and additional relevant research experience and/or qualifications. For project 1, experience with scripting in Python and/or R, and the analysis of large short-read sequencing datasets would be a bonus. If you don't have these skills, a willingness to learn them is absolutely essential.

The 2014 MQRES full-time stipend rate is \$25,392 pa tax exempt for 3 years. This can be supplemented by teaching and demonstrating.

Applications should include 1) your CV, 2) a brief statement of your reasons for applying (max. 500 words) and the project you are applying to work on, 3) contact details of two academic referees, 4) nationality. Applications should be submitted electronically as a single PDF file.

Applications for these positions (and initial enquiries) should be emailed by 15th December 2014 to: robert.lanfear@mq.edu.au

Dr Robert Lanfear, Dept. of Biological Sciences, Macquarie University, Sydney, NSW 2109, Australia

Rob Lanfear ARC Future Fellow and Senior Lecturer, School of Biological Sciences, Macquarie University, Sydney

phone: +61 (0)2 9850 8204 www.robertlanfear.com
robert.lanfear@mq.edu.au

TexasAMU EvolutionaryBiol

Interested in pursuing a PhD? Come take a look at Texas A&M! The Department of Entomology at Texas A&M University, a growing and vibrant Department with stimulating and diverse research opportunities, is pleased to announce the availability of travel grants for prospective PhD students. These grants, which provide airfare (within the continental United States), hotel accommodations and a modest per diem for food, give prospective PhD students the opportunity to meet

our faculty, students and staff, tour the department and campus, and explore College Station. For more information on how to apply for a PhD travel grant, please visit us at <http://entomology.tamu.edu/>. Spencer T. Behmer Professor

Department of Entomology | Faculty of Ecology and Evolutionary Biology | Faculty of Neuroscience

Texas A&M University Heep Building, room 509 College Station, TX 77843-2475 | Phone: (979) 845-7304 | FAX: (979) 845-6305

Email: s-behmer@tamu.edu | Website: <http://behmerlab.tamu.edu/index.html> s-behmer@tamu.edu

TexasAMU MarineBiodiversity

The lab of Ron Eytan (www.roneytanlab.com) at Texas A&M at Galveston is seeking outstanding and highly motivated PhD students for Fall of 2015. My lab studies the origin and maintenance of marine biodiversity, primarily in coral reef fishes, using genomic and computational methods. My lab has broad interests in phylogenomics and phylogeography, population genetics/genomics, and the geography and genetics of speciation in reef fishes. We work primarily in the Caribbean, but plan to expand to the Gulf of Mexico.

Current projects in the lab include 1) the study of hybrid breakdown in coral reef fishes, where we combine genomic data with live animal work, 2) cryptic speciation in Caribbean reef fishes, 3) using genomic data to track population fluctuations in reef fishes, 4) and phylogenomics, where we are sequencing hundreds to thousands of genetic markers for phylogenetic inference at both deep and shallow time scales.

Students are free to develop their own project or work on ongoing research in the lab. All student projects can involve a mix of field work, lab work, and computing. Previous experience in any of these areas is a plus, as are excellent written and oral communication skills. Assistantships are available for PhD student funding.

Students are admitted to TAMUG through the Interdisciplinary Graduate Program in Marine Biology (IDP). General information about the program, as well as application deadlines, can be found here: <http://www.tamug.edu/marb/Graduate/graduate.html> The Department of Marine Biology at TAMUG is home to a diverse, interdisciplinary faculty that provides instruction and training in evolution, molecular biology, micro-

biology, genetics, anatomy, taxonomy, physiology, and the behavior and ecology of estuarine/marine flora and fauna. The department is housed in new and modern facilities with brand new lab space. It is also home to the Sea Life Facility (<http://www.tamug.edu/sealife/-Index.html>), which has phenomenal resources for live animal work and breeding.

Texas A&M University at Galveston is a special-purpose institution of higher education for undergraduate and graduate instruction in marine and maritime studies in science and for research and public service related to the general field of marine resources. The institution is under the management and control of the Board of Regents of The Texas A&M University System, with degrees offered under the name and authority of Texas A&M University at College Station.

Galveston is located on the Gulf Coast of Texas, 50 miles south of Houston. It provides easy access to field sites in the Caribbean and the Gulf of Mexico. It is a beautiful community with over 30 miles of beaches, a relaxed atmosphere, abundant leisure activities, excellent medical facilities, and first-rate restaurants.

Ron I. Eytan Marine Biology Department Texas A&M University at Galveston PO Box 1675 Galveston, TX USA 77553 [P] 409-740-4527 [F] 409-740-5001 eytanr@tamug.edu ron.eytan@gmail.com www.roneytanlab.com eytanr@tamug.edu

TexasCU EvolutionaryGenetics

MS position: A graduate research assistantship position (TA funded) is available in the lab of Dr. Matt Hale in the Biology Department at Texas Christian University starting in August 2015. The student will develop a MS project on the genetic basis of complex phenotypic traits. Some possible research projects include questions relating to the genetic basis of migration in salmonid fishes, and the presence and identity of genes showing patterns of sex-bias in expression, also in the salmonid fishes. The applicant should have some previous lab experience, including DNA extraction, PCR amplification, and DNA sequencing. Ideally, the candidate will also have experience with RNA extraction, cDNA synthesis and bioinformatics, although training in these areas will be provided. Interested applicants should send a CV, a cover letter describing their research interests and reasons for applying, and the names and contact details of two potential ref-

erees. Review of applications will begin on December 1st 2014. Please send inquires and applications to Matt Hale (m.c.hale@tcu.edu) Interested students are encouraged to view the Biology Department website (<http://www.bio.tcu.edu>) for more information on the graduate program.

Matt C. Hale, PhD Assistant Professor, Biology Department Texas Christian University 2800 S University Drive Fort Worth, Texas 817-257-8707

“Hale, Matthew” <m.c.hale@tcu.edu>

TU Delft Evolutionary Biol

PhD: Biochemical and biophysical mechanisms underlying evolutionary change.

Job description

Cells are highly organized through complex gene regulatory and protein networks for faithful and precise function. These networks also need to be robust to genetic perturbations to buffer mutations that cells inevitably acquire during their lifecycle. Nevertheless, on long evolutionary timescales mutations are essential to allow organisms to adapt. In our recent studies we deleted nearly essential genes in budding yeast and subsequently evolved those mutants for 1000 generations. We found that those cells are remarkably adaptable. Three mutations are enough to nearly fully recover cell function; in this case, cell size and doubling time. This project aims to dissect the molecular changes underlying this adaptation. How do these mutations alter the biochemical/biophysical mechanism that comprise the specific cell function? Which properties of the network are maintained and which ones are lost? Can we learn general lessons from this lab evolution that we can apply to complex adaptation processes such as cancer formation? You will use quantitative fluorescence life cell microscopy as well as FRET measurements to investigate those questions. The aim is to combine the measurements with modelling, potentially in close collaboration with a theory group. Visit the lab website for more information:

<http://laanlab.tudelft.nl/index.html> Requirements Applicants should have a Master’s degree in biology, chemistry, physics, or a related field, and enthusiasm for applying quantitative approaches to understanding biological phenomena. The position will be for a fixed term of four years and is expected to result in a PhD.

Good communication skills in English are required.

Applied Sciences at TUDelft The Faculty of Applied Sciences is the largest faculty of TU Delft, with around 550 scientists, a support staff of 250 and 1,800 students. The faculty conducts fundamental, application-oriented research and offers scientific education at the bachelor, master and doctoral levels. The faculty is active in the fields of Life and Health Science & Technology, Nanoscience, Chemical Engineering, Radiation Science & Technology, and Applied Physics.

A new Department of Bionanoscience has been established at TU Delft, dedicated to research at the interface between nanoscience, synthetic biology, and cell biology. It studies single cells in all their complexity down to the molecular level, from both fundamental scientific and application points of view. The new department operates as part of the Kavli Institute of Nanoscience at the Faculty of Applied Sciences and aims at a leading international position.

Conditions of employment TU Delft offers an attractive benefits package, including a flexible work week, free high-speed Internet access from home (with a contract of two years or longer), and the option of assembling a customised compensation and benefits package. Salary and benefits are in accordance with the Collective Labour Agreement for Dutch Universities. Delft University of Technology strives to increase the number of women in higher academic positions; women are therefore especially encouraged to apply.

As a PhD candidate you will be enrolled in the TU Delft Graduate School. TU Delft Graduate School provides an inspiring research environment; an excellent team of supervisors, academic staff and a mentor; and a Doctoral Education Programme aimed at developing your transferable, discipline-related and research skills. Please visit www.phd.tudelft.nl for more information.

Information and application For more information about this position, please contact Dr. ir. Liedewij Laan, phone: +31 (0)15-2782856 , e-mail: l.laan@tudelft.nl. To apply, please e-mail a detailed CV, a letter of application and references by March 1st 2015

Liedewij Laan Assistant professor Department of Bionanoscience Kavli Institute of NanoScience TUDelft

Website: laanlab.tudelft.nl Tel nr: +31 (0) 15-2782856

Liedewij Laan - TNW <L.Laan@tudelft.nl>

TuftsU EvolutionaryBiology

A PhD position is available in the laboratory of Erik Dopman in the Department of Biology at Tufts University. Our research is a collaborative project with Rick Harrison at Cornell University, and the successful applicant will be part of a larger team at both Cornell and Tufts.

Our work focuses on the evolution of barriers to gene exchange during speciation. We apply a combination of comparative and experimental approaches using the European corn borer moth as a model system. Corn borers are a textbook example of incipient speciation, in which one species splits into two through the evolution of multiple forms of reproductive isolation. Of 12 potential isolating barriers between corn borer "strains," seven significantly reduce gene flow and five are either behavioral or ecological in nature. Current efforts are to identify the molecular genetic basis for traits contributing to reproductive isolation, to characterize the evolutionary history of these traits, and to evaluate the consequences of barrier loci on fitness and gene flow in nature.

We seek a creative and motivated graduate student to work on speciation, adaptive evolution, or genome evolution. Students must have the ability to work with others and a sense of humor. Undergraduate coursework in evolutionary biology is required, as is prior research experience. Relevant and highly desirable experience includes application of molecular genetic techniques or computational analysis of gene or genome data.

Relevant papers include:

Wadsworth, C.B., Woods, W.A., Jr, Hahn, D.A., and Dopman, E.B. (2013). One phase of the dormancy developmental pathway is critical for the evolution of insect seasonality. *J Evolution Biol* 26(11):2359-68

Dopman, E. B., P. S. Robbins and A. Seaman. 2010. Components of reproductive isolation between North American pheromone strains of the European corn borer. *Evolution* 64:881-902.

Dopman, E. B., L. Perez, S. Bogdanowicz and R. G. Harrison. 2005. Consequences of reproductive barriers for genealogical discordance in the European corn borer. *PNAS* 102:14706-14711.

Dopman, E. B., S. M. Bogdanowicz and R. G. Harrison.

2004. Genetic mapping of sexual isolation between E and Z pheromone strains of the European corn borer. *Genetics* 167:301-309.

The Dopman Lab (<http://ase.tufts.edu/biology/labs/dopman/Default.htm>) is in the Department of Biology and is a member of Tufts' Collaborative Cluster in Genome Structure and Developmental Patterning. The Cluster focuses on genome to organism research and is located at a new Tufts facility on the main campus in Medford, MA. With two additional Tufts campuses (in Boston and Grafton), other research universities (Harvard, MIT, BU), and the vibrant city of Boston all within reach, Medford and Tufts are ideal places to live and work (<http://ase.tufts.edu/biology/>).

Interested individuals should contact Erik Dopman by e-mail (erik.dopman@tufts.edu) and describe their research interests, relevant educational background, and prior research experience. Also include a CV with GPA/GRE scores and the names and contact information of 2-3 references. Applications to the graduate program are due on 15 January, with departmental review occurring shortly thereafter. See <http://ase.tufts.edu/biology/graduate/index.asp> for more information on the graduate program. Informal inquiries are welcome.

Erik.Dopman@tufts.edu

faculty mentor prior to submitting an application.

The Tulane EE BIO department emphasizes three main areas of academic inquiry: tropical biology, wetlands ecology, and global change biology. We study organisms, populations, communities, ecosystems and global systems as we focus our efforts on conservation biology, ecosystem ecology, environmental biology, evolutionary biology, global change, tropical ecology, and systematics. Our research is centered geographically in the subtropics — especially Louisiana — and the tropics, although we explore life in other regions of the Earth as well. Graduate students are important contributors to our effort to create and disseminate knowledge about organisms and their environments.

Tulane University is an Affirmative Action/Equal Employment Opportunity/ADA Employer committed to excellence through diversity. All eligible candidates are encouraged to apply.

– Elizabeth Derryberry, Ph.D. Assistant Professor Ken and Ruth Arnold Early Career Professor in Earth & Ecological Science Department of Ecology & Evolutionary Biology Tulane University New Orleans, LA 70118 504-862-8285 (office) 504-862-8706 (fax) elizabethderryberry.tulane.edu

Elizabeth Derryberry <ederrybe@tulane.edu>

TulaneU Evolutionary Biol

The Ecology and Evolutionary Biology department at Tulane University is seeking an outstanding candidate for one Board of Regents (BoR) Graduate Research Fellowship. The fellowship includes a yearly salary of \$30,000, and a yearly stipend for professional travel and/or research support. The fellowship is for one year. We *strongly* encourage applications from underrepresented minority students. Interested candidates should contact either the faculty representative for the BoR fellowships (Elizabeth Derryberry, ederrybe@tulane.edu) or a faculty member whose research aligns with that of the candidate (Faculty websites: <http://tulane.edu/sse/eebio/faculty-and-staff/faculty/>).

Review of applications will begin January 15th for matriculation in Fall 2015. Applicants should follow guidelines of standard graduate school applications, found at (<http://tulane.edu/sse/eebio/academics/graduate/apply.cfm>). Applicants are encouraged to identify a

UBasel Cichlid Evolution

A PhD position is available in the group of Walter Salzburger at the Zoological Institute, University of Basel, Switzerland.

The aim of the project is to study the early phases of adaptive divergence in East African cichlid fish. The project is highly integrative and involves a combination of RAD and genome sequencing, comparative genomics, geometric morphometric analyses and ecological assessment. Moreover, a series of behavioural experiments and tests on phenotypic plasticity will be carried out in the lab as well as in the field. The position is funded for 3 years by the Swiss National Science Foundation and will be based at the Zoological Institute in Basel, but will include field-work at Lake Tanganyika. Starting date is November/December 2014.

We are seeking a highly motivated candidate with interests in evolution, speciation, ecology and genomics. A master degree in Biology is required, experience in molecular biology, genomics and/or behavioural exper-

iments are a plus. Applicants should have high social skills, a good level of written and spoken English and should be able to work under field conditions in Africa.

Please send your application, including a CV and a copy of your degree, and the names of two referees to Dr. Bernd Egger (bernd.egger@unibas.ch). Applications will be evaluated starting immediately and continue until October 19th, 2014.

For further information see: - <http://evolution.unibas.ch/salzburger/> - <http://www.salzburgerlab.org> Bernd Egger Zoological Institute University of Basel Vesalgasse 1 4051 Basel Switzerland

bernd.egger@unibas.ch

UBologna GhentU AlgalMicrobialInteractions

PhD opportunity - *Microbial diversity and its role in the resilience of large brown seaweeds*

A PhD position focusing on interactions between brown seaweeds (*Cystoseira*, *Fucus*) in the Mediterranean Sea and associated microbial communities is currently being advertised. The grant concerns a joint PhD position between the University of Bologna (Laura Airoidi) and Ghent University (Olivier De Clerck) in the framework of the Mares programme.

More information on the subject and application procedure can be found at:

<http://www.mares-eu.org/index.asp?p=2174&a=1853&mod=phd&id=216> Feel free to contact Laura Airoidi (laura.airoidi@unibo.it) or myself (olivier.declerck@ugent.be) for additional information.

Kind regards,

Olivier De Clerck

Laura Airoidi

Olivier De Clerck Onderzoeksgroep Algologie, UGent. Krijgslaan 281, S8, 9000 Gent; Belgium [lokaal 130.046] Tel -32-9-2648500 <http://www.phycology.ugent.be/> <http://www.facebook.com/groups/Phycology.UGent/odclerck@gmail.com>

UCalifornia Merced DimensionsBiodiversity

Funded Ph.D positions are available for the fall of 2015 in the lab of Carolin Frank (acarolinfrank.com), Life and Environmental Sciences, University of California Merced. Research in the lab focuses on the evolution and ecology of bacterial endophytes in natural ecosystems.

The graduate students will work on a large NSF-funded project to study the taxonomic, genetic and functional biodiversity of a novel nitrogen fixing symbiosis in the above-ground tissues of high elevation pines. The research focuses on limber pine, a species with a wide climatic, elevational and geographic range. Limber pine grows in the Rocky Mountains from Alberta to New Mexico; in the Great Basin states of Nevada and Utah; and in the Sierra Nevada in California. To understand how endophyte diversity is shaped by the environment and how it shapes the nitrogen cycle in sub-alpine forests, we will examine the biodiversity of endophytes in limber pine and co-occurring pine species across the limber pine range. Like most bacteria, the endophytes cannot be cultured in the lab. Therefore, cutting-edge methods including DNA sequencing and genome analysis will be integrated with established and highly sensitive methods for detecting and visualizing nitrogen fixing activity inside limber pine tissue. The project is a collaboration with Lawrence Berkeley National Lab, Lawrence Livermore National Lab and the Joint Genome Institute. Students will actively participate in this team science project while developing their own line of research inquiry, using a variety of sequence-based, single cell genomics- and field-based approaches.

For more information about the Life and Environmental Sciences unit at UC Merced, and the Environmental Systems and Quantitative and Systems Biology graduate programs visit:

LES <https://les.ucmerced.edu> QSB <http://qsb.ucmerced.edu> ES <http://es.ucmerced.edu> UC Merced (www.ucmerced.edu) is a public research university located in Merced, California, close to Yosemite National Park and 2 hours from San Francisco. We have a small, close-knit graduate student population, and housing is cheap. The Frank lab shares space with a Microbial Biogeochemistry and a Paleocology lab.

Interested candidates should contact Carolin Frank (cfrank3@ucmerced.edu, acarolinfrank.com). Please include a CV and a brief description of your background and research interests.

For a project flyer see here: <https://acarolinfrank.files.wordpress.com/2014/10/frank-phd-students.pdf> Carolin Frank <cfrank3@ucmerced.edu>

UCopenhagen AncientDNA

PhD fellow in Ancient DNA and Evolutionary Genomics

Applications are invited for a three-year PhD fellowship in the field of Ancient DNA and Evolutionary Biology in the Paleomix group led by Dr. Ludovic Orlando at the Centre for GeoGenetics, University of Copenhagen, Denmark. Research in the Paleomix group is focused on developing integrative approaches for studying ancient DNA molecules, promoting the field of palaeogenomics by the merger of biochemistry, molecular biology, genomics and computational biology. These approaches are presently mainly used to reconstruct the evolutionary history of horses and other equids and have strong implications for conservation. Recent work from the group includes the characterization of the oldest genome hitherto sequenced and the first ancient human epigenome.

Project The project will concern retrieval, sequencing and analyses of ancient horse genomes, metagenomes and epigenomes for tracking the prehistorical and historical modifications that have accompanied the transformation of wild horses into modern domesticated breeds. The principal supervisor is Associate Professor Dr Ludovic Orlando, one of the six PIS of the Centre for GeoGenetics, University of Copenhagen.

We are seeking a highly motivated, hard worker and productive student who is interested and capable of contributing to a research team consisting of molecular biologists, bioinformaticians, statisticians, and evolutionary biologists. The ideal candidate will show great abilities to work in a team environment and strong expertise in experimental genetics, and the molecular tools used in next-generation sequencing and population genomics. She/he should have strong background in molecular biology, particularly in molecular methods for generating large-scale sequence/SNP datasets, and be familiar with basic concepts in computational science and optionally, with Bash or other program-

ming languages such as R, Perl and/or Python. Experience in the analysis of ancient DNA and/or Next-Generation Sequencing will be considered positively but is not mandatory.

Principal supervisor is professor, Ludovic Orlando, Centre for GeoGenetics, mail: lorlando@snm.ku.dk.

Job description PhD students at Science are expected to:

- Manage and carry through their research project
- Take PhD courses (equivalent to 30 ECTS)
- Write scientific articles as well as the PhD thesis
- Participate in scientific meetings
- Stay at an external research institution, preferably abroad, for a up to 3 months
- Teach and disseminate research
- Possibly partake curation work in the Collections of the Natural History Museum of Denmark

Key criteria for the assessment of candidates

- A masters degree related to the subject area of the project.
- The grade point average achieved
- Professional qualifications relevant to the PhD programme
- Previous publications
- Relevant work experience
- Other professional activities
- Language skills (English is the language at the Centre for GeoGenetics)

Terms of employment The position is covered by the Memorandum on Job Structure for Academic Staff. Terms of appointment and payment accord to the agreement between the Ministry of Finance and The Danish Confederation of Professional Associations on Academics in the State . The starting salary is currently up to DKK 305,291 including annual supplement (+ pension up to DKK 42,171). Negotiation for salary supplement is possible.

The University wishes our staff to reflect the diversity of society and thus welcomes applications from all qualified candidates regardless of personal background. The language of the Centre is English.

Application Procedure The application, in English, must be submitted electronically by visiting <https://ssl1.peoplexs.com/-Peoplexs22/CandidatesPortalNoLogin/-ApplicationForm.cfm?PortalID=3789&VacatureID=-691748> Please include:

- Curriculum vitae (with publication record, if any)
- Diplomas and transcripts of records (BSc and MSc)
- Motivation letter
- Contact details from two references
- Documentation of English language qualifications, cf. general rules and guidelines, p. 5

Review of applications will begin October 7st 2014 and will continue until the position is filled, with a deadline on November 15th 2014. The appointment is expected

to start in February 1st 2015.

Questions For specific information about the PhD scholarship, please contact the principal supervisor.

General information about PhD programmes at SCI-ENCE is available at PhD Regulations.

Further information: On the Department and the Centre for GeoGenetics.

Alan Wervick <awe@signatur.dk>

UDelaware PoultryGenomics

A PhD position in poultry genetics and genomics is available (Fall 2015) in the Department of Animal and Food Sciences at the University of Delaware.

The primary goal for this position is to work on a next-generation sequencing project on poultry genetics and genomics. The project will primarily be focused on using the whole-genome sequence data (i) to discover and characterize polymorphisms within and among purebred populations and (ii) to characterize genomic landscape and relatedness of purebred populations.

We are looking for a self-motivated and enthusiastic person who possesses good interpersonal skills and willing to work in close collaboration with others. The individual is expected to interact with our industry partner and have determination to gain insight and publish papers in leading, international scientific journals.

The Research Assistantship includes a competitive stipend, as well as covering 100% of tuition, and funds for presenting the research results at regional, national and international scientific meetings. The student will also have opportunities to perform internships or on-site research with our industry partner in the U.S.

Candidates from different fields of biology are encouraged to apply; however, those with background in animal breeding and genetics with experience in analyzing large datasets are preferred. In your application, please include a letter of interest; a curriculum vita as well as the names and contact details of 3 references; GRE and TOEFL or ILTS (if foreign students whose primary language is not English) scores. The application materials should be sent to Dr. Behnam Abasht (abasht@UDel.edu) no later than November 15, 2014.

The University of Delaware is an equal opportunity employer, which encourages applications from minor-

ity group members and women.

“Abasht, Behnam” <abasht@udel.edu>

UFlorida InsectEvolution

The Kawahara Lab at the University of Florida, Florida Museum of Natural History is accepting one graduate student (M.S. or Ph.D.) for the fall of 2015.

Research in the Kawahara Lab focuses on integrating many approaches, including phylogenomics, behavior, functional genomics, and biodiversity informatics to test hypotheses pertaining to the evolution of insects, especially Lepidoptera (butterflies and moths). Recent projects have focused on utilizing genome scale data to resolve phylogenetic relationships of Lepidoptera, study evolution of hawkmoth bat ultrasound interactions, and the diversification and evolution of Hawaiian leaf miners. The team regularly travels to conduct fieldwork in remote areas of Hawaii, Borneo, Central Africa, and the Amazon.

The lab is seeking a highly motivated candidate with interests in bioinformatics, evolution, genomics, and systematics. Applicants should be proficient at writing and speaking English and enjoy working with a team of researchers. A master's degree is desired but not required.

We are located in the McGuire Center for Lepidoptera and Biodiversity on the University of Florida (UF) campus. University of Florida is one of the nation's leading research institutions with 35,000 undergraduates, 15,000 graduate students, and over 4,500 faculty and academic staff. UF offers all resources of a top research university to study insect evolution, behavior, and genomics. In addition to the Florida Museum of Natural History (FLMNH), Florida State Collection of Arthropods (FSCA), and collections and molecular sequencing lab of the McGuire Center for Lepidoptera and Biodiversity, UF is equipped with the High-Performance Computing Center (HPC) and a state-of-the-art next-generation genome sequencing facility at the Interdisciplinary Center for Biotechnology Research (ICBR). Students can be co-advised through many departments at UF, such as the Department of Biology, Department of Entomology and Nematology, School of Natural Resources and Environment, Department of Wildlife Ecology and Conservation, School of Forest Resources and Conservation, Department of Microbiology and Cell Science, among others.

The selected candidate will join a team of 3 postdocs, 5 graduate students (1 M.S., 4 Ph.D.), a lab manager, technician, undergraduate and high school students. The candidate will also have the opportunity to work and interact closely with students in other lab groups at the McGuire Center. Further information can be found on the lab website: <http://www.flmnh.ufl.edu/mcguire/kawahara/> Interested candidates should contact Akito Kawahara at kawahara@flmnh.ufl.edu with a C.V. and a short paragraph explaining his or her research interests and why they would like to join the group.

kawahara@flmnh.ufl.edu

UGeneva HumanPopulationGenetics

A *PhD position* in Human Molecular Population Genetics is open at the Laboratory of Anthropology, Genetics and Peopling history (AGP Lab) of the University of Geneva (Professor Alicia Sanchez-Mazas). We are seeking a highly motivated student to analyse /in silico/multiple sets of DNA sequences for human MHC genes (HLA) in different populations worldwide. This research is integrated to a wider research project aiming at analysing the relationships between HLA molecular variation and both human populations' expansions and their immune adaptation to different environments (<http://ua.unige.ch/en/agp/recherche/fns/-31003A-144180/->).

Requirements

Master degree in biology or equivalent;

Deep interest for human evolution, population genetics, evolutionary genetics and anthropology as a whole;

Strong skills in biostatistics;

Strong skills in bioinformatics, previous experience in this domain being an advantage.

Terms of employment

The position starts with a 2-year appointment given that the 1st year (trial period) is successful, and is extendable 2 years.

The position is available from 1 January 2015 or to be agreed.

Salary: corresponds to a position of assistant DIP (class 8/4, 70%).

Other conditions:

The PhD student is hired as an assistant, he/she will thus participate to the teaching and other activities of the AGP Lab.

About the AGP lab

The Lab is hosted by the Department of Genetics and Evolution - Anthropology Unit at the University of Geneva, Switzerland. It offers a very stimulating environment with excellent computer resources and several independent researchers. The Anthropology Unit is located in the heart of Geneva (Acacias) at walking distance from the other buildings of the Faculty of science.

Both English and French are the working languages in the Lab.

More details about the Lab can be found at <http://ua.unige.ch/en/agp/> *How to apply*

Applications should be sent as *_a single pdf file*_ by email to Professor Alicia Sanchez-Mazas (alicia.sanchez-mazas@unige.ch) *_by 31 October 2014*_. These should include a motivation letter, a detailed CV, and statements of past (Master Thesis and others) research in the domain.

Alicia Sanchez-Mazas

Full Professor

Alicia Sanchez-Mazas <alicia.sanchez-mazas@unige.ch>

UGroningen EvolutionaryGenomics

The Marine Evolution and Conservation (MarECon) group at the Centre for Ecological and Evolutionary Studies (CEES) has a vacancy for a (funded) PhD position. CEES is placed within the Faculty of Mathematics and Natural Sciences at the University of Groningen (RUG) in The Netherlands. The research conducted by the members of MarECon is primarily aimed at understanding the ecological and evolutionary genomics of pelagic marine organisms, in particular marine mammals. Our primary research approach is to leverage population genetics and genomics techniques to uncover the processes that partition genetic variation within the species that inhabit this comparatively open marine environment. This research is conducted with a global network of collaborators who collect data and tissue samples in the field.

Job description The research project is flexible and the successful candidate will have the choice to focus on some ongoing projects in the lab. Most of these projects include a major component of (genetic) data analyses and bioinformatics, some include the production of genomic data in the lab (using Next Generation Sequencing Technologies, NGS), and on rare occasion field sampling trips.

Comparative genomics in marine mammals Our lab is actively engaged in the production and analyses of whole genomes from marine mammals using NGS technologies. The ultimate goal is to analyze the molecular evolution of genes across the genome of the three marine lineages of mammals that came back to an aquatic existence and identify candidate genomic regions that could have been involved in this major transition. This project will consist of primarily bioinformatic, population genetic and genomic approaches.

Evolution of marine trophic networks Climate change and human activities have deeply impacted the evolution and functioning of marine ecosystems. Using a number of model systems, we are exploring how environmental and human perturbations have actually impacted various species at different trophic levels, and further understand the link between them. To make inferences about past and recent evolution of these ecosystems, and make predictions about their future evolution we will be combining ecological, historical and population genetic modeling.

Statistical phylogeography, demographic history and evolution in marine mammals Our lab has a long standing interest in understanding the factors and processes involved in the partitioning of individuals and thus the genetic variation within and among populations, ecotypes and subspecies. This is fundamental to understand key evolutionary and ecological processes, such as adaptation, behaviour, and speciation. This is also crucial for many conservation issues. Therefore, our approach is multidisciplinary and combines population genetics/genomics, geo-statistical probabilistic modeling with ecological approaches such as (paleo-) habitat modeling, feeding ecology, etc. Our research focuses on various (pelagic) species, particularly for marine mammals. For example, we are currently developing projects on the demographic history and evolutionary genomics of harbour porpoises (*Phocoena phocoena*) and the comparative phylogeography of marine mammals, among other projects.

Qualifications We seek a bright and highly motivated and enthusiastic person able to work both as part of a team and independently. The ideal candidate would have a master degree in ecology and evolutionary bi-

ology, with good background in population genetics, bioinformatics, genomics and computational biology. Candidates from other programs such as computational sciences, bioinformatics, and mathematics with a strong interest in ecology and evolution are also invited to apply.

Proficiency with R statistical language, Linux/UNIX shell scripting, and (at least) a high level programming language (e.g. Python) is recommended. Experience with NGS technologies, Geographic Information System, SQL data bases is a plus, but full training will be provided.

The language in the lab is English. A high standard of spoken and written English is required.

Conditions of employment The University of Groningen offers a salary of euro 2,083 gross per month in the first year up to a maximum of euro 2,664 gross per month in the final year (salary scale Dutch Universities). Initially, the position will be for 1 year with possible extension of another 3 years, depending on performance during the first year. The PhD candidate will be evaluated after the first year in order to determine the likelihood of a successful completion of the PhD thesis within the following three years. If a successful completion is deemed unlikely, the employment will not be extended. The main objective of the position is to conduct original research published as research articles in peer-reviewed scientific journals. These publications will form the basis of the doctoral thesis that will lead to obtaining a PhD degree (Dr) at the

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UGroningen EvolutionaryGenomics corrected

(Sorry for the duplicate. Here is the PhD advertise with the correct link to apply)

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GRADUATE OPPORTUNITIES IN ECOLOGY AND EVOLUTIONARY BIOLOGY

The Department of Biology and Biochemistry at the University of Houston (UH) welcomes applications for its graduate program in Evolutionary Biology and Ecology for Fall 2015. The following faculty in the area of Evolutionary Biology and Ecology have opportunities available for their labs:

Blaine Cole (bcole@uh.edu) - Evolution and social behavior Dan Graur (dgraur@uh.edu) - Molecular evolutionary bioinformatics Dan Wells (dwells@uh.edu) - Evolution of development and behavior Diane Wiernasz (dwiernasz@uh.edu) - Sexual selection Elizabeth Ostrowski (eaostrowski@uh.edu) - Experimental evolution and social evolution Erin Kelleher (eskelleher@uh.edu) - Evolutionary genetics and genomics George Fox (fox@uh.edu) - Experimental evolution and origin of life Gregg Roman (gwroman@uh.edu) - Evolution of behavior Kerri Crawford (kmcrawford3@uh.edu) - Community ecology Rebecca Zufall (rzufall@uh.edu) - Evolutionary genetics Ricardo Azevedo (razevedo@uh.edu) - Evolutionary genetics Rich Meisel (rpmeisel@uh.edu) - Evolutionary genetics and genomics Steve Pennings (spennings@uh.edu) - Community ecology Tim Cooper (tcooper@central.uh.edu) - Experimental evolution Tony Frankino (frankino@uh.edu) - Evolution of complex traits

For more information regarding the Evolutionary Biology and Ecology graduate program at UH see:

<http://www.bchs.uh.edu/graduate/prospective-students/> <http://www.uh.edu/graduate-school/prospective-students/how-to-apply/> The deadline for application of prospective students is February 1st, 2015, but students are encouraged to apply as early as possible.

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

razevedo@Central.UH.EDU

Uillinois Evolutionary Immunology

Doctoral student positions in evolutionary immunology of human and nonhuman primates

Doctoral positions in evolutionary immunology and functional genomics are available in the Brinkworth Evolutionary Immunology and Genomics lab, Department of Anthropology, University of Illinois Urbana-Champaign. The lab investigates how primate genome expression has diverged and diversified, with particular attention paid to the evolution of the human innate immune response. Applicants should have strong interests in human/non-human primate evolution, immunology, genomics, bioinformatics or infectious disease. Positions are contingent on acceptance into the Department of Anthropology PhD program.

Projects: Students will be involved in the conceptual development, execution and publication of research concerned with evolutionary genomics, including but not limited to, primate comparative immunity, and the diversification of the human immune response. Students will use a broad range of immunological and cell biology techniques, in combination with bioinformatic methods to investigate questions of how immune function has evolved in humans and other primates.

Funding: Students are guaranteed full funding for 5.5 years. Support is provided via a combination of RA-ships, TAs and writing fellowships.

Who should apply: Candidates with an interest in the evolution of immune function/evolutionary genomics. Diverse educational backgrounds are welcome including anthropology, biology, bioinformatics, economics, computer science, epidemiology etc. Experience with genetics/genomics, immunological bench and analytical methods and clean technique are preferred, but not necessary.

UIUC: The positions offer an exceptional opportunity for highly collaborative research in a new facility, using state of the art immunological, genomic and computational techniques to answer questions relevant to both human evolutionary biology and disease. The UIUC is a competitive very high research/R1 institution, with a selective and very well respected Department of Anthropology and a worldwide reputation for excellence in genomics, supercomputing and engineering. The Institute for Genomic Biology, The Beckman Institute for Advanced Science and Technology, National Center for Supercomputing Applications foster a thriving research environment and provide many unique resources that can be woven into a students projects. Located a few hours outside of Chicago, Urbana-Champaign is home to the Krannert Center for the Performing Arts, Roger Ebert film Festival, Krannert Art and Spurlock Museums, a host of local cooperative theatres and farmers and art markets. Chicago is readily accessible via Amtrak, bus or car.

Application and Deadline: Queries should be sent to [jfbrinkworth AT gmail DOT com](mailto:jfbrinkworth@gmail.com). Please include a statement of interest (1 page), and a CV describing your previous education/internships/projects/employment/scholarships and publications, along with contact information for three references. Positions in this lab require acceptance into the UIUC Department of Anthropology PhD program. Applications for acceptance into the graduate program should be made online <http://www.anthro.illinois.edu/programs/graduate/> by the *program deadline December 1, 2014. *Please visit the labs website at www.jfbrinkworth.com for lab information.

Jessica Brinkworth <jfbrinkworth@gmail.com>

UKansas MedusozoanEvolution

Graduate Opportunities at the University of Kansas in Medusozoan Evolution.

The Cartwright Lab at the University of Kansas seeks PhD applicants for fall 2015. The lab investigates medusozoan evolution using developmental, genomic and phylogenetic approaches. More recently, the lab has been focusing on investigating the evolution of the the parasitic group, Myxozoa. Students must be highly motivated, have a demonstrated ability to work independently and show a keen interest medusozoan evolution.

The Ecology and Evolutionary Biology program at the University of Kansas offers five years of guaranteed support through a combination of graduate teaching assistantships, research assistantships, and university fellowships. For more information, please go to: <http://www.people.ku.edu/~pcart/index.html> and <http://eeb.ku.edu/>. Interested students should contact Dr. Cartwright (pcart@ku.edu) describing your background and research interests.

Paulyn Cartwright Associate Professor Department of Ecology and Evolutionary Biology University of Kansas Lawrence, KS 66045

pcart@ku.edu

ULisbon 11 SystemsBiology

Dear colleagues,

The applications to the BioSys PhD program are open with 11 fellowships. There are no restrictions applying to citizenship or age. Please distribute among your students. Please find the project details and instructions for applications here: <http://biofig.fc.ul.pt/-training-phd-programme> Kind regards,

Andreia

Andreia J. Amaral, PhD BioFIG - Center for Biodiversity, Functional and Integrative Genomics Instituto de Medicina Molecular University of Lisbon Tel: +352 217500000 (ext. office: 28253) email:andreaamaral@fm.ul.pt ; andreaamaral@fc.ul.pt

Andreia Fonseca <andrea.fonseca@gmail.com>

UManchester EvolutionaryTheory-ForMarineBiology

Developing theory to predict the effects of climate change on the fertility and reproduction of marine invertebrates

Description:

Human activities are changing the Earth's climate and the Earth's oceans. Air and water temperatures are increasing, and the uptake of CO₂ into seawater is causing oceans to become more acidic. These changes are expected to be detrimental to marine invertebrates^[1], a diverse group of species (e.g., sea urchins, corals, clams) that are often keystones in their ecosystems. Most marine invertebrates release their sperm and eggs directly into the water, where gametes meet and fertilization takes place. There is growing evidence that environmental change can impair gamete function and the fertilization process. However, whether these climate-mediated changes in marine invertebrate reproduction will affect population persistence and ecosystem stability is difficult to intuit. Mathematical models are urgently needed but do not exist.

In this project, the student will combine mathematical and computational modelling with empirical testing to understand how climate change affects marine invertebrates and the ecosystems they support. With guidance from Tucker Gilman and Richard Preziosi, the student will develop advanced analytical models[2] and individual-based simulations[2,3] of marine ecosystems. With guidance from John Fitzpatrick and Ceri Lewis, the student will test the model predictions in vivo[1,4,5]. This work will take advantage of the University of Manchester's Computational Shared Facility and of the University of Exeter's Aquatic Resource Centre. Students with backgrounds in life sciences, physics, mathematics, or computer science would be well-suited for this project.

Related Publications:

1.Lewis C et al. 2012. *Marine Biology* 160(8):2089-2101. 2.Gilman et al. 2012. *Nature* 483:328-330. 3.Gilman RT and Behm JE. 2011. *Evolution* 65(9):2592-2605. 4.Fitzpatrick et al. 2012. *Evolution* 66(9):2451-2460. 5.Fitzpatrick et al. 2010. *Biology Letters* 6:797-799.

Advisory team:

Tucker Gilman (University of Manchester): <http://www.manchester.ac.uk/research/tucker.gilman/-research> John Fitzpatrick (University of Manchester): <http://www.ls.manchester.ac.uk/people/-profile/?personid335> Ceri Lewis (University of Exeter): http://biosciences.exeter.ac.uk/staff/-index.php?web_idIri.lewis Richard Preziosi (University of Manchester): <http://www.ls.manchester.ac.uk/-people/profile/?personid41> How to Apply:

This project is to be funded under the BBSRC Doctoral Training Programme. Projects under this scheme are competitively funded; i.e. there are more projects advertised than are available. If you are interested in this project, please make direct contact with the Principal Supervisor (tucker.gilman@manchester.ac.uk) to arrange to discuss the project further as soon as possible. You MUST also submit an online application form, full details on how to apply can be found on the University of Manchester's BBSRC DTP website <http://www.dtpstudentships.manchester.ac.uk/> tucker.gilman@manchester.ac.uk

UMinnesota Duluth PlantEvolution

MS position in the Gross Lab: I am seeking a Master's student who is interested in plant evolutionary genetics. My lab is located in the University of Minnesota-Duluth Biology Department, and potential students are eligible for TA funding. Research in my lab focuses on the evolution of wild, weedy, and especially domesticated plants (both annual and perennial) using a variety of genetic and genomic techniques. A graduate student would be expected to develop a research project focused on the genetics of apple, rice, or lingonberry, but other systems will be considered. Strong training in evolutionary biology is preferred, and molecular and/or bioinformatics skills are also useful. Note that the UMD Biology Department (www.d.umn.edu/biology/) has a group of evolutionary biologists with diverse interests and skills, including Dr. Julie Etterson, Dr. Tim Craig, and Dr. Jared Strasburg.

This position is administered through the Integrated BioSciences (IBS) graduate program of the University of Minnesota (<http://www.d.umn.edu/ibs/>). Applications are due by January 15 for priority consideration (or January 1 for potential DOVE fellowship applicants; see IBS page for details). Before applying, please send an email describing your interest and your CV to Briana (blgross@d.umn.edu).

Briana Gross <blgross@d.umn.edu>

UMississippi EvolutionSymbiosis

Graduate Assistantships in Synthetic Ecology and the Evolution of Symbiosis

Graduate assistantships are available to support Masters or PhD students in Erik Homs laboratory at the University of Mississippi (Ole Miss). The Hom lab is generally interested in understanding how biotic and abiotic factors facilitate the formation, persistence, and evolution of species interactions, notably those that are symbiotic. We are particularly fond of studying the interactions between fungi and algae and use a predominantly synthetic approach to address our questions (see *Science* 345:94-98). Our lab is seeking bright, highly motivated students with an appetite for learning to join us in pursuing research projects of mutual interest in areas that include (but are not limited to): experimental evolution, synthetic ecology, EcoEvoDevo, eukaryotic metagenomics, bioinformatics, and the ecology of microbial consortia. Stipend support will be a combination of research and teaching assistantships, and

includes tuition waivers and health benefits. The University of Mississippi is in an exciting phase of institutional growth and is located in Oxford, a vibrant and idyllic college town in northern Mississippi, about 75 mi south of Memphis, TN. If you are into football, William Faulkner, local music, and/or fine food, Oxford is a fun town! Requirements for graduate admissions can be found here: <http://goo.gl/t1CfcR>. The desired start date for these positions is August 2015 (although January 2015 may be possible). Women and underrepresented minorities are strongly encouraged to apply.

For consideration and/or more information, please contact Dr. Hom (erik@olemiss.edu, +1-662-915-1731, <http://darwinsdaemon.com>). To apply, please send a single PDF file that includes: 1) a cover letter explaining your specific research interest(s) and qualifications/research experience, 2) your curriculum vitae, 3) a scientific writing sample, 4) school transcript(s), 5) GRE scores (note: quantitative and verbal scores should be >150), and 6) contact information for at least 3 references.

Erik Hom

Assistant Professor Department of Biology University of Mississippi

“erik@olemiss.edu” <erik@olemiss.edu>

UMississippi SyntheticEcologyEvolutionSymbiosis

Graduate Assistantships in Synthetic Ecology and the Evolution of Symbiosis

Graduate assistantships are available to support Masters or PhD students in Erik Hom’s laboratory at the University of Mississippi (Ole Miss). The Hom lab is generally interested in understanding how biotic and abiotic factors facilitate the formation, persistence, and evolution of species interactions, notably those that are symbiotic. We are particularly fond of studying the interactions between fungi and algae and use a predominantly synthetic approach to address our questions (see *Science* 345:94-98). Our lab is seeking bright, highly motivated students with an appetite for learning to join us in pursuing research projects of mutual interest in areas that include (but are not limited to): experimental evolution, synthetic ecology, EcoEvoDevo, eukaryotic metagenomics, bioinformatics, and the ecology of microbial consortia. Stipend support will be a com-

bination of research and teaching assistantships, and includes tuition waivers and health benefits. The University of Mississippi is in an exciting phase of institutional growth and is located in Oxford, a vibrant and idyllic college town in northern Mississippi, about 75 mi south of Memphis, TN. If you are into football, William Faulkner, local music, and/or fine food, Oxford is a fun town! Requirements for graduate admissions can be found here: <http://goo.gl/t1CfcR>. The desired start date for these positions is August 2015 (although January 2015 may be possible). Women and underrepresented minorities are strongly encouraged to apply.

For consideration and/or more information, please contact Dr. Hom (erik@olemiss.edu, +1-662-915-1731, <http://darwinsdaemon.com>). To apply, please send a single PDF file that includes: 1) a cover letter explaining your specific research interest(s) and qualifications/research experience, 2) your curriculum vitae, 3) a scientific writing sample, 4) school transcript(s), 5) GRE scores (note: quantitative and verbal scores should be >150), and 6) contact information for at least 3 references.

erik@olemiss.edu

UNevada Reno PopulationGenetics

PhD student positions in the Parchman lab at UNR

The Parchman lab in the Biology Department at the University of Nevada Reno has several openings for graduate students (beginning in the fall of 2015) interested in applying population genetic and genomic approaches to address questions of evolutionary significance in natural populations. Ideal applicants would have exposure to, or motivation to learn, basic laboratory genetics approaches and some programming in R, Perl, and Unix. Potential research areas for PhD students include landscape genomic variation in conifers, population genomic analysis of hybrid zones, population genomic variation across the adaptive radiation of crossbills, and landscape genetic analysis of Brazilian pipers. This list serves only as an example, and students interested in alternative, but related research topics are encouraged to contact me. UNR has a strong interdisciplinary PhD program in Ecology, Evolution, and Conservation Biology (<http://environment.unr.edu/eecb/>). Graduate students accepted into the EECB program are guaranteed financial support through Teaching Assistantships (TAs) which

includes health insurance and an out-of-state tuition waiver. In addition, funds are available to seed doctoral dissertation projects, and Research Assistantships (RAs) will be periodically become available.

University of Nevada, Reno (UNR) is a Tier I research university located in a spectacular environment at the confluence of the Great Basin and the Sierra Nevada Mountains. The faculty and graduate students at UNR are highly interactive and include an internationally known group of evolutionary biologists and ecologists. A complete renovation of the Parchman lab has just been finished, and we are now equipped with ample (and new) molecular and computational resources for modern genome sequence analysis. We are also located in an ideal setting for field-based projects in the Great Basin and Sierra Nevada regions, allowing enviable access to spectacular montane and desert ecosystems. Reno is only 40 minutes from Lake Tahoe, offers a high quality of living, an excellent climate, and is a large enough city to offer diverse activities and amenities. World class rock climbing, skiing, and mountain biking opportunities are in extremely close proximity.

Those interested should contact me at tparchman@unr.edu with a description of your interests, and qualifications. More information on applying to the Graduate School at UNR can be found at <http://www.unr.edu/grad/admissions/apply> Thomas L. Parchman Assistant Professor Department of Biology, MS 314 University of Nevada, Reno Max Fleishman Agriculture Building 1664 N. Virginia Street Reno, NV 89557-0314 tparchman@unr.edu

Thomas L Parchman <tparchman@unr.edu>

UOslo Paleogenomics

PhD Research Fellow in Biology, Paleogenomics and Ancient DNA at CEES, Department of Biosciences

A 3 year position as PhD Research Fellow is available at the Centre for Ecological and Evolutionary Synthesis (CEES), Department of Biosciences, Faculty of Mathematics and Natural Sciences, University of Oslo.

The fellowship will be for a period of 3 years. Tentative starting date: 01.02.2015. To send application, go to <http://uio.easycruit.com/vacancy/-1280683/96871?iso=no> Job Description

The main objective of this PhD project is to investigate strains of *Yersinia pestis* from different localities

and periods of the second plague pandemic (14th-18th c.). With ancient DNA analysis it has been demonstrated that *Y. pestis* was the causative agent of all known historic plague pandemics with distinct variants circulating simultaneously through Europe during past outbreaks. Despite these findings, several questions which concern the plague and the historic *Y. pestis* strains remain open, the routes of transmission of plague, the mechanisms of dissemination and the implication of wild and urban fauna. We have proposed to investigate the evolutionary and ecological processes behind the historic plague pandemics using a multidisciplinary approach involving paleogenomics with high-throughput sequencing methods. With this approach, we aim to generate data on genetic diversity among ancient strains and define bacterial population dynamics of the past. We also aim to understand spatial and temporal trajectories of transmission by relating the genomic information to climatological and ecological data. The successful candidate will join the multi-disciplinary, international team of MedPlag ("MedPlag: The medieval plagues: ecology, transmission modalities and routes of the infections", Advanced Grant funded by the European Research Council (ERC)) that brings together experts from the fields of ancient DNA, ecology, evolution, microbiology, archaeology and history (<http://www.mn.uio.no/cees/english/research/projects/650125/>).

Requirements

The Faculty of Mathematics and Natural Sciences has a strategic ambition of being a leading research faculty. Candidates for these fellowships will be selected in accordance with this, and expected to be in the upper segment of their class with respect to academic credentials.

We search for a candidate who has completed a MSc degree (or other education equivalent to a Norwegian degree) of high quality in biology, anthropology, evolutionary biology, bioinformatics or a field demonstrably relevant to the project description. The candidate should have a background within population genomics, bioinformatics or ancient DNA. The candidate should be able to document strong analytical skills and experience in the laboratory. Experience with ancient DNA, analytical or theoretical, and bioinformatics will be of advantage.

The successful candidate will work with the ancient DNA group (Barbara Bramanti and Stephanie Hänsch) and closely with several researchers at the CEES with complementary skills, as well as with our international collaborators involved in the MedPlag project. We seek a highly motivated, enthusiastic person with the ambi-

tion to gain insight and publish papers in leading, international journals, in possession of good interpersonal skills and willing to collaborate with researchers across disciplines.

The purpose of the fellowship is research training leading to a successful completion of a PhD degree. The fellowship requires admission to the research training program at the University of Oslo.

The application to the PhD program must be submitted to the department no later than two months after taking up the position. For more information see:

<http://www.uio.no/english/research/doctoral-degree-and-career/phd/application/> <http://www.mn.uio.no/english/research/doctoral-degree-and-career/phd-programme/index.html> A good command of English is required.

<http://www.mn.uio.no/english/research/doctoral-degree-and-career/regulations/proficiency-requirements.html> Salary:

Position code 1017, Pay grade: 50 - 57 (NOK 429 700 - 482 800 per year)

The application must include: .Application letter including a statement of interest, summarizing your scientific work and interests and describing how you fit the description of the person we seek.

.CV (summarizing education, positions and academic experience).

.Copies of educational certificates (bachelor and master), and transcript

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UOslo SpeciationGenetics

Doctoral Research Fellowship in Speciation Genetics

A PhD position is available at the Department of Biosciences (IBV), Faculty of Mathematics and Natural Sciences, University of Oslo (UiO). The PhD project is part of a larger research program on the 'Evolvability of genomic architecture during hybrid speciation'.

Far from being an evolutionary dead end, hybridization

may even generate lineages that can speciate even under the most constraining of conditions. The Italian sparrow (*Passer italiae*) is the first documented case of hybrid speciation in birds (Hermansen et al. 2011). This hybrid species originated from past events of hybridization between two divergent parental species, the house sparrow (*P. domesticus*) and the Spanish sparrow (*P. hispaniolensis*) some thousands of years ago. The Italian sparrow is both phenotypically and genetically variable across the Italian peninsula and its genome is a composite mosaic of DNA from both parentspecies' genomes. But little is known about the consequences of such major genomic rearrangements on the evolutionary potential of hybrid species and how hybridization in general may favor novel evolutionary trajectories.

This project integrates ecological and molecular approaches to develop an understanding of the evolution of genomic architecture during hybridization events and its evolutionary implications, using the Italian sparrow as the model system. The successful candidate will be allowed to choose aspects of the evolutionary genetics and genomics of the larger study as best fits her/his skills and research interests. She/he will also be encouraged to develop additional, complementary avenues of research.

Interested candidates should have a Master degree or equivalent in a relevant field of biology, such as in genetics, genomics and/or bioinformatics. Documented knowledge in evolutionary biology is required. A good command of English and laboratory experience is likewise required. In addition, a special interest in the field of speciation and previous fieldwork or bird handling experience would be advantageous.

The position is affiliated with the Centre for Ecological and Evolutionary Synthesis (CEES), and research will be conducted in close collaboration with Prof. Saetre and his group at CEES. The research team will also include other scientists from Norway, the US and Switzerland. The working language will be English. Fieldwork may be conducted at a variety of locations, including Norway, Italy and other Mediterranean countries.

The appointment is for 3 years, but may be extended to 4 years conditional on 25% teaching obligations and approval from the Department of Biosciences. Candidates interested in a 4-year position should state so, in which case previous teaching experience would be considered a merit.

Application deadline: October 31st

Expected starting date: January-February 2015

Informal enquiries can be made to Fabrice Er-oukhanoff and Glenn-Peter Saetre:

fabrice.eroukhmanoff@ibv.uio.no

g.p.satre@ibv.uio.no

For more information and how to apply:

<http://uio.easycruit.com/vacancy/1271569/-96323?iso=no> Fabrice Eroukhmanoff Research Fellow Department of Biosciences, CEES University of Oslo Norway

Fabrice.eroukhmanoff@ibv.uio.no

Fabrice Eroukhmanoff <fabrice.eroukhmanoff@ibv.uio.no>

imprinting) Population-genetic models for the maintenance of genetic variation

More information on the application process can be found at: <http://www.otago.ac.nz/international/-apply/index.html> Graham Wallis office +64 3 479 7984 Department of Zoology fax +64 3 479 7584 University of Otago home +64 3 476 1314 PO Box 56, Dunedin 9054 courier 340 Great King St Aotearoa-New Zealand email g.wallis@otago.ac.nz

Professor in Genetics <http://www.otago.ac.nz/zoology/staff/otago008937.html> Graham Wallis <graham.wallis@otago.ac.nz>

UOtago EvolutionaryBiology

GRADUATE OPPORTUNITIES IN EVOLUTIONARY BIOLOGY AT OTAGO

The Department of Zoology at the University of Otago offers a range of research in evolutionary biology. Our faculty also contribute to interdepartmental programs in Ecology and Genetics.

We invite applications from high-quality motivated students to join our PhD program in Zoology. Scholarships (competitive), research support, travel/conference support and demonstrating/teaching assistant positions are available for qualified candidates. Applications may be made at any time.

Travis Ingram; Evolutionary Ecology <http://www.otago.ac.nz/zoology/staff/ingram.html>

Robert Poulin; Evolutionary Parasitology <http://www.otago.ac.nz/parasitegroup/> Bruce Robertson; Molecular Ecology <http://www.otago.ac.nz/zoology/staff/otago008933.html> Hamish Spencer; Population Genetics <http://www.otago.ac.nz/zoology/staff/spencer.html> Graham Wallis; Evolutionary Genetics <http://www.otago.ac.nz/zoology/staff/otago008937.html> Jonathan Waters; Ancient DNA, Genomics, Evolution <http://www.otago.ac.nz/zoology/staff/otago008938.html> Possible projects include:

Adaptive evolution of a zona-pellucida domain gene in galaxiid fishes Conservation genetics of the endangered black-billed gull Evolutionary consequences of freshwater fish introductions Genetics of hybridisation in NZ galaxiid fishes Host-parasite coevolution in complex aquatic ecosystems Mate choice and personality gene variation in the New Zealand sea lion Population-genetic models of epigenetic systems (including genomic

UPenn Paleobiology

PhD Fellowship in Paleobiology/Paleontology at the University of Pennsylvania

A PhD fellowship in Paleobiology is available in the Department of Earth and Environmental Science at the University of Pennsylvania, starting in Fall 2015. Prof. Lauren Sallan seeks a graduate student to address major paleobiological questions, such as how global change has affected life over time, how life evolves at high levels (macroevolution), and the origins of living biodiversity. Specific topics include, but are not limited to: the drivers and ecological consequences of mass extinction (e.g. the end-Devonian Hangenberg event), the role of predation and competition in setting marine biodiversity, the characteristics of adaptive radiations and 'living fossils,' the effects of long-term environmental events (e.g. the Late Paleozoic Ice Age) on biodiversity trends, and transitions in early vertebrate evolution (e.g. origin of jaws, invasion of land). The student can also develop a novel project that address similar questions using quantitative, phylogenetic and descriptive methods. While research in the lab has focused on fishes, any suitable group of fossil animals may be used.

Applicants are encouraged to contact Prof. Sallan (lsallan@sas.upenn.edu) for more details. Additional information on the fellowship is available on the departmental website: www.sas.upenn.edu/earth. Applications for entry in Fall 2015 are due December 15, 2014. Applications to graduate school at Penn must be submitted online at <https://www.applyweb.com/upenn/> Lauren Sallan Assistant Professor Earth and Environmental Science & Evolution Cluster University of Pennsylvania Office: 154B Hayden Hall Phone: (215) 898-

5650 Website: www.LaurenSallan.com E-mail: lsallan@sas.upenn.edu

Lauren Sallan <lsallan@sas.upenn.edu>

USaskatchewan 3 MammalEcologyEvolution

I am currently advertising three graduate student openings in my lab in the Department of Biology at the University of Saskatchewan (www.lanelab.ca). I envision two of these as most appropriate for Ph.D. students and one as most appropriate for an M.Sc. student. There is some latitude for broadening or tightening the focus, however, to accommodate alternatives. All will begin in either May or September, 2015. I have full funding for one of the Ph.D. positions. The other two positions will be supported by departmental or university-level teaching assistantships (competition for these funding sources will be in spring 2015).

Graduate student funding at the UofS is quite competitive so, for all positions, the successful applicant will have a GPA >80% (converted to the UofS 1-100 scale) over the past two years of schooling and a degree in a relevant discipline (i.e., Ecology, Evolutionary Biology, Physiology, Environmental Biology). Of note, while I certainly appreciate the hard work that is put into obtaining a degree in Biotechnology, I do not view this as relevant experience for these positions. The specific interests/experience of the successful candidate will vary to some extent on the project applied for, but in all cases, a passion for fieldwork (in beautiful places), strong scientific communication skills (both written and oral) and statistical proficiency (or a willingness to gain it) is necessary.

If you are interested in applying for one of these positions, please submit a cv (including names and contact details of references), a short (1 pg) description of research interests and an unofficial copy of your transcripts to jeffrey.lane@usask.ca. Applications will be accepted up to Jan 31, 2015, but will be evaluated as they're received. To ensure full consideration of your application, therefore, please submit asap. Any questions can be directed to Jeff Lane (email above).

Hibernation biology of Columbian ground squirrels (Ph.D.) Columbian ground squirrels are resident in the northwest Rocky Mountains and populations in Kananaskis, Alberta have been studied since the early

1990s. We have recently shown that, in contrast to the overwhelming majority of reported phenological trends in response to climate change, emergence dates from hibernation in this population have been consistently delayed over the past two decades. This effect is likely due to an increasing prevalence of late-spring snowstorms in the area. This project will involve investigating additional phenological traits (e.g., entry into hibernation), physiological changes during the active (e.g., energy expenditure during reproduction) and hibernation season (e.g., body temperature profiles) and survival and reproductive success of individuals. In all cases, datasets collected over multiple years are available and can be built upon, and multiple completely censused populations are available for study. This is an ideal opportunity for a student to leverage a proven powerful study system to address important fundamental and applied research questions.

Relevant literature: Lane, J.E., L.E.B. Kruuk, A. Charmantier, J.O. Murie and F.S. Dobson. 2012. Delayed phenology and reduced fitness associated with climate change in a wild hibernator. *Nature* 489: 554-557.

Lane, J.E., L.E.B. Kruuk, A. Charmantier, J.O. Murie, D.W. Coltman, M. Buoro, S. Raveh and F.S. Dobson. 2011. A quantitative genetic analysis of hibernation emergence date in a wild population of Columbian ground squirrels. *Journal of Evolutionary Biology* 24: 1949-1959.

Reproductive phenology of North American red squirrels (Ph.D.) The Kluane Red Squirrel Project (KRSP) was initiated in the late 1980s and now represents one of the longest running and most-comprehensive studies of a wild mammal in the world. Researchers from multiple universities are involved and exciting collaborations have produced many important, interdisciplinary findings. A clear strength of this project stems from our ability to quantify the primary food resource for individual red squirrels (white spruce seed, cached as cones). This project will involve investigation of phenological variation of individual red squirrels and its relationship to phenological variation in white spruce. Quantitative genetics analyses will be used to estimate heritabilities and genetic correlations (i.e., evolutionary potential) in phenological traits and opportunities are available to collaborate with other researchers in energetic physiology, population ecology, endocrinology and animal behaviour. All fieldwork will occur in the spectacular southwest Yukon Territory at KRSP's field camp.

Relevant literature: Williams, C.T., J.E. Lane, M.M. Humphries, A.G. McAdam and S. Boutin. 2013. Reproductive phenology of a food-hoarding mast-seed

consumer: resource- and density dependent benefits of early breeding in red squirrels. *Oecologia* 174: 777-788.

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USheffield SparrowPopGenetics

Contemporary evolution in response to environmental variation in an island bird population

Understanding how natural selection operates in fluctuating environments is fundamental to understanding evolution. Historically, it has been difficult to understand how the environment impinges on the physiological state of wild birds but the recent application of telomere measurement techniques in natural populations now provides a window into this question. This project will be one of the first to combine physiological state, demography (e.g. size, age structure and dynamics) and selection in a wild population.

The student will utilise Sheffield's unique long-term study of a wild house sparrow population on Lundy Island, providing access to an existing databank and samples covering more than 15 years. The programme of work will explore the relationship between bird survival and fecundity at different stages of the life-course, together with changes in physiological state (with telomere length as a proxy), population demography and other environmental variables. The heritability of these relationships (reaction norms) will also be investigated to determine if fitness differences are transmitted to future generations. There is flexibility in the programme and the precise direction and emphasis of the project will be determined by collaboration between the student and the supervisors.

The student can expect to receive exceptional training in state-of-the-art analytical methodology and laboratory techniques, including telomere analysis and DNA profiling, as well as benefitting from a well established and rewarding field project.

The PhD project is fully funded with a starting date between January/March 2015. Applicants, who must be residents of the EU and must have a good (i.e. minimum III grade) honours degree, a masters degree, or equivalent, in a relevant subject, should complete

an on-line application form via the University admission system (www.shef.ac.uk/postgraduate/research/-apply/applying) and should upload a supporting statement explaining why they want to pursue this PhD (maximum 1 page) followed by a short proposal explaining how they would approach the project, including any specific hypotheses (maximum 2 pages including any references). They should also upload their CV. Any enquiries about the project should be directed to Professor Terry Burke (t.a.burke@sheffield.ac.uk).

Applications for this project will be accepted until Monday 3 November 2014.

Mirre Simons <mirresimons@gmail.com>

USussex BacterialPopGenetics

A PhD position is available in the lab of Adam Eyre-Walker at the University of Sussex to work on bacterial population genetics.

The vast majority of organisms on this earth are prokaryotes and they are responsible for many of the biggest problems facing mankind, from diseases such as tuberculosis and typhoid, to hospital infections, such as those caused by methicillin resistant *Staphylococcus aureus* (MRSA). However, despite their prevalence and importance we still have a poor understanding of bacterial population genetics. We know the genome of many bacteria is highly labile so that any two strains of a bacterial "species" share only some genes; this has led to the concept of a core genome and an accessory genome. However, the evolutionary forces that act upon both genomes have not been extensively investigated. The aim of this project is to rectify this and to look at several aspects of bacterial population genetics in over 100 bacterial species for which multiple strains have been completely sequenced. The project will involve the bioinformatic analysis of publicly available data. Students with a strong background in evolutionary biology, genetics and/or bioinformatics are particularly encouraged to apply.

The position is available to UK and EU residents only. It is fully funded for 3.5 years; funding includes fees and a stipend equivalent to the standard UK research council rate (currently £13,863 per annum). The position involves 50 hours of teaching a year.

Informal enquiries should be directed to Adam Eyre-Walker - a.c.eyre-walker@sussex.ac.uk. Further de-

tails about the group can be found at <http://www.sussex.ac.uk/lifesci/eyre-walkerlab/index>. Applications must be made through the University of Sussex's clunky graduate school application system <http://www.sussex.ac.uk/study/pg/applying/>. Apply for September 2015 entry. Mention the name of supervisor in "suggested supervisor" section. In funding mention sponsored or seeking funding. In Award details mention School of Life Sciences funded studentship. Include brief statement of interest (upto 2 pages), CV, two academic references, UG/PG transcripts, IELTS/TOEFL results if residing in EU. Only full time students will be accepted. Deadline for applications is 30/11/14

A.C.Eyre-Walker@sussex.ac.uk

UTasmania ParentalEffects

Potential PhD project at the University of Tasmania, Australia Applications are currently being received for a 2015 commencement (deadline Oct 20th 2014). For more information please contact Prof Elissa Cameron (Elissa.Cameron@utas.edu.au) &/or Assoc Prof Erik Wapstra (Erik.Wapstra@utas.edu.au) at the School of Biological Sciences, University of Tasmania.

The study of parental effects is a fundamental area in evolutionary ecology, but is characterised by poor integration of proximate causation and ultimate explanation. Parents influence the development of their young through both genetic and non-genetic effects, with sex allocation one maternal effect that can have profound implications for fitness. In mammals, the glucose hypothesis has been postulated to link the adaptive hypotheses of sex ratio adjustment and unify other proposed mechanisms. This PhD project will investigate the role of glucose as a unifying mechanism in sex allocation theory and the practical applications of skewing sex ratios for conservation purposes in mammals.

Joanne McEvoy <Joanne.McEvoy@utas.edu.au>

UToronto EvoDevo

PhD position:

A PhD position is available to work on an interna-

tional project involving laboratories at the University of Toronto and at the Institute of Functional Genomics in Lyon, France (see project description below). The successful candidate will be enrolled into the University of Toronto's PhD program, and will jointly work in the labs of Locke Rowe, Ashley Bruce, and Abderahman Khila. Priority will be given to applications from Canadian Citizens. However, applications from international candidates are welcome.

<http://rowe.eeb.utoronto.ca/> <http://labs.csb.utoronto.ca/bruce/> <http://igfl.ens-lyon.fr/equipes/a.-khila-developmental-genomics-and-evolution>

To apply: Send a CV, a cover letter describing skill relevant to this project, and names and contacts of three referees to: locke.rowe@utoronto.ca

The role of ancient developmental genes in trait diversification. Males of the genus *Rheumatobates* are known to have highly modified appendages that aid in the grasping of resistant females. The transition from the ancestral to the derived states occurs multiple times and in different ways, leading to a diversity of morphological outcomes (presence and location of antagonistic hooks and spines etc). The remarkable diversity in these antagonistic traits may be driven by two processes ' a direct response to differences in female resistance to mating, and/or spatio-temporal variation in the expression of developmental genes, where a variety of outcomes are similarly effective. We have recently uncovered the role of an ancient developmental gene, *dll*, in controlling the sexually antagonistic modification of male grasping antennae in *Rheumatobates rylei*. To determine the relative importance of these two alternative processes in generating sexual diversity, we are combining behavioural studies of antennal function with studies examining the role of *dll* in the diversification of these structures, in *Rheumatobates* spp. that span the range of modified antennae. For more details see references below.

References: Khila, A., Abouheif, E., and L. Rowe. 2014. Comparative functional analyses of *Ultrabithorax* reveal multiple steps and paths to diversification of legs in the adaptive radiation of semi-aquatic insects. *Evolution*. doi: 10.1111/evo.12444. < <http://onlinelibrary.wiley.com/doi/10.1111/evo.12444/abstract> > Khila, A., E. Abouheif and L. Rowe. 2012. Function, developmental genetics, and fitness consequences of a sexually antagonistic trait. *Science* 336: 585-589. Rowe, L., Westlake, K. & D.C. Currie. 2006. The functional significance of elaborate secondary sexual traits and their evolution in the water strider *Rheuma-*

tobates rileyi. Canadian Entomologist 138:568-577.
< <http://rowe.eeb.utoronto.ca/files/2012/10/Rowe-et-al-2006-CanEnt.pdf> > Arnqvist, G., and L. Rowe. 2002. Antagonistic coevolution between the sexes in a group of insects. Nature 415: 787-789. Westlake, K.P., Rowe, L. and Currie, D.C. 2000. Phylogeny of the water strider genus Rheumatobates (Heteroptera: Gerridae). Systematic Entomology 25:125-144.

– Institute of Functional Genomics Ecole Normale Supérieure de Lyon Université Claude Bernard, Lyon 46 Allée d'Italie 69007 Lyon, France office: +33 (0)4 26 73 13 36 Cell: +33 (0)6 25 67 15 44

<http://igfl.ens-lyon.fr/> Abderrahman Khila
<abderrahman.khila@ens-lyon.fr>

UToronto SexGenomicsDuckweed

Grad student projects: Sex, Genomics, and Duckweeds

Why reproduce sexually and what happens if you don't? The Agrawal and Wright labs are engaged in a series of projects exploring the evolutionary causes and consequences of sexual reproduction in duckweed, a fast-growing aquatic plant that produces both clonally and via sexual reproduction. We have already obtained a number of genomic resources for several duckweed species and are using these data sets to infer historical rates of sex and relate this to the efficiency of past selection genome-wide. Lab and field studies are planned to study the ecological sources of selection on sex as well as to ground population genetics inferences.

We are excited about using a combination of approaches to address one of the classic problems in evolutionary biology! There are graduate opportunities involving evolutionary genomics as well as lab and field experiments with duckweeds.

Contact: Aneil Agrawal (a.agrawal@utoronto.ca)
Agrawal Lab website: <http://agrawal.eeb.utoronto.ca/>
or Stephen Wright (stephen.wright@utoronto.ca)
Wright Lab website: <http://wright.eeb.utoronto.ca/>

This research will be conducted within the vibrant research community at the University of Toronto's Department of Ecology and Evolutionary Biology
<http://www.eeb.utoronto.ca/> a.agrawal@utoronto.ca

UTuebingen 2 PlantEvolution

*Two Doctoral Positions in **Plant Evolutionary Ecology *are available at the Plant Ecology Group of the University of Tübingen. Applicants for the Ph.D. position must hold an M.Sc. or equivalent degree in biology, ecology, plant sciences or environmental sciences with a sound knowledge in plant ecology and /or evolutionary ecology of plants and /or molecular ecology. Ideally, the applicants have experience in designing and conducting large ecological experiments in the field and greenhouse and a sound knowledge of statistics and experimental design. Experience in basic lab work can also be advantageous.

The projects are part of a DFG priority programme entitled Adaptomics (<http://www.ruhr-uni-bochum.de/-dfg-spp1529/Seiten/index.html>) which aims at bridging the gap between ecological and molecular approaches to studying phenotypic and genotypic variation in plants.

Position #1 ("Biscutella") is within a cooperative project between the Universities of Tübingen, Vienna and the Max Planck Institute at Tübingen. We aim at studying whether plants can adapt to climate change by utilizing annual plants of the Brassicaceae family in an extensive experimental system in Israel. We use a combined molecular-population genetic-ecological approach to tackling this question. The work includes a several-month field stay in Israel, but the main working place will be Tübingen, a buzzing university town in Southwest Germany.

Position #2 ("metals") will be dedicated to studying plants that are able to hyperaccumulate and – tolerate heavy metals. We use two species from the Brassicaceae family to study heritability of these traits, and the role that plant-plant interactions play in determining variability in this trait within and between species. We use a combination of field and greenhouse experiments and basic lab work to study the positive and negative effects these plants may have on their neighbours. The main working place will be Tübingen, a buzzing university town in Southwest Germany.

Both positions are scheduled for 3 years with an anticipated starting date of January 2015, or until the position is filled. Payment is according to the German public tariff (65% TV-L E13).

Applications are to be submitted via email

and as *a single pdf file* to Katja Tielbörger, University of Tübingen, Plant Ecology Group: katja.tielboerger@uni-tuebingen.de. Deadline is November 15, 2014, or until position is filled.

Applications should include a letter of motivation, a CV, transcripts, proof of special qualifications, and prints of publications if applicable. The applicants are also requested to have two letters of reference sent independently to the above Email address.

The participating universities want to increase the number of female researchers, and specifically encourage female candidates to apply. Disabled persons will be preferred in case of equal qualification.

“\”Tielbörger, Katja\“” <katja.tielboerger@uni-tuebingen.de>

UWisconsin Madison EvolutionHerbivoreDefense

Graduate Research Assistantship

Evolutionary Ecology of Herbivore Defense in Aspen
University of Wisconsin, Madison

Funding will be available (2015) at the University of Wisconsin-Madison to support graduate research, at the Ph.D. (or Masters-Ph.D.) level, on the ecology and evolution of defense in aspen (*Populus tremuloides*). Aspen is a foundation species in boreal and montane forests of North America and secondary chemistry plays a key role in its interactions with diverse insect and mammalian herbivores. The graduate research assistant will assume primary responsibility for a collaborative project involving the labs of Rick Lindroth (UW Entomology & Zoology) and Eric Kruger (UW Forest & Wildlife Ecology). The research will evaluate the interplay of intraspecific plant competition and growth-defense tradeoffs with respect to the evolutionary trajectories of mixed-genotype aspen stands. Applicants may pursue admission to UW graduate programs in Entomology, Zoology or Forestry.

The University of Wisconsin-Madison is a premier institution for research in ecology and evolution, and has ranked among the top five research universities in the United States for each of the past 20 years. Graduate students have the opportunity to participate in the thriving Ecology (<http://ecology.wisc.edu/>) and Evolutionary Biology (<http://www.evolution.wisc.edu/>)

communities at UW-Madison.

Qualifications: Highly motivated individuals with a strong academic background in plant biology and/or ecology, as well as excellent quantitative and communication skills, are encouraged to apply. Candidates must be able to work independently and as part of a collaborative research team. Stipend/benefits: A 50% Graduate Research Assistantship is available beginning in spring, summer or fall semesters of 2014. A 50% RA currently provides a stipend of \$20,808 (12 mo.), tuition waiver, and excellent medical/dental health plans at low cost. Applications: Questions about the position may be directed to Rick Lindroth (lindroth@wisc.edu). Interested candidates should e-mail Graduate Student Services Coordinator Sara Rodock (rodock@wisc.edu) a single PDF file containing the following information:

- Cover letter outlining research interests, academic and professional backgrounds
- Resume
- Copies of transcripts (unofficial copies acceptable)
- GRE scores (if not available, indicate when exam will be taken)
- Names and contact information for three references

Applications will be reviewed upon receipt. Promising candidates will be requested to submit a formal application to a UW-Madison graduate program in Entomology, Zoology (Ecology), or Forestry. Note that the application deadline for Zoology is Dec. 31, 2014.

Richard L. Lindroth, Ph.D. Professor of Ecology, Associate Dean for Research, and Associate Director of the Agricultural Experiment Station 608-262-6792 (Deans office) 608-263-6277 (Lab office) 146 Agriculture Hall 1450 Linden Drive University of Wisconsin-Madison Madison, WI 53706 U.S.A. <http://labs.russell.wisc.edu/lindroth/> lindroth@wisc.edu

UYork AntEvolution

PhD position: The evolution of the supercolony and the role of parasites

Investigating the evolution of cooperation is essential to explaining the ecological dominance of many social species. The highly successful social insects are often thought of as colonies residing in single internally-cooperative nests. In reality, many ant species form nests that connect cooperatively with neighbouring nests, becoming 'unicolonial'. Explaining the evolution of unicolonial cooperation is challenging because although conspecifics in these extended colonies are be-

having co-operatively, they also compete for resources. Resource competition means that a unicolonial strategy should be vulnerable to cheats who recognise closer kin and cooperate selectively, securing resources for their own near relatives, at the expense of the whole colony. In the light of this potential instability, how does unicoloniality arise and persist? One possibility is that parasitism drives co-occurrence of multiple queens for increased genetic diversity, allowing colonies to split between connected nests. This studentship addresses the current lack of theoretical models of the evolutionary of unicoloniality and the absence of empirical data on the effects of parasitism on unicoloniality.

How to apply

This project will be co-supervised by Elva Robinson (Biology, University of York) and James Marshall (Computer Science, University of Sheffield). The project will start Oct 2015 and is competitively funded. UK/EU students only. If you would like to apply, please send a CV and covering letter to: Elva.Robinson@york.ac.uk

Elva Robinson <ejhr500@yccsa.org>

VirginiaTech Evolution

The McGlothlin lab at Virginia Tech is looking for enthusiastic and motivated Ph.D. students to start in fall 2015. Research in the lab focuses on a wide variety of questions in evolutionary genetics and evolutionary ecology. Ongoing research projects in the lab involve comparative quantitative genetics of Anolis lizards, molecular evolution of toxin resistance in snakes, lizards, and birds, and social evolution theory. Students will be strongly encouraged to develop their own ideas and projects, which may either build upon or depart from the lab's current research.

The McGlothlin lab is part of the growing Ecology, Evolution, and Behavior and Integrative Organismal Biology groups in Virginia Tech's Department of Biological Sciences. Outside the department, potential for collaboration and scientific interaction exist in a number of departments across campus, including Entomology, Fish and Wildlife Conservation, Forest Resources and Environmental Conservation, and the Virginia Bioinformatics Institute.

Interested students should contact Dr. Joel McGlothlin (joelmcg@vt.edu), providing a description of your

research interests and experience and a CV or resume that includes GPA, GRE scores, and contact information for 3 references.

Funding is available through both teaching and research assistantships, and a number of competitive fellowships are offered by the university. Interested students are strongly encouraged to apply for the NSF GRFP. For full consideration, applications to the department should be received by December 31, 2014.

Additional information: McGlothlin lab: <http://www.faculty.biol.vt.edu/mcglathlin> Graduate program: <http://www.biol.vt.edu/graduates/index.html> Graduate application: http://www.biology.vt.edu/graduates/how_to_apply/grad_application_information.html Biological Sciences at VT: <http://www.biol.vt.edu/research/index.html> Ecology, Evolution, and Behavior at VT: <http://www.biol.vt.edu/research/index.html>

Joel W. McGlothlin Virginia Tech, Dept. of Biological Sciences 2125 Derring Hall, 1405 Perry St. Blacksburg, VA 24061 <http://www.faculty.biol.vt.edu/mcglathlin> Email: joelmcg@vt.edu

joelmcg@vt.edu

Wageningen Zambia ExpEvolutionMicrobialEcosystems

WageningenZambia.ExpEvolutionMicrobialEcosystems

Three (3) PhD projects on the experimental evolution of microbial ecosystems in traditional fermented products from Zambia.

Location: Wageningen University (the Netherlands) and the University of Zambia (Lusaka, Zambia).

Like commonly known products such as yoghurt, wine, and beer, Zambia has numerous local fermented foods. Many are consumed on a daily basis by large parts of the population and are part of Zambian and African culture. Fermented food products rely on microbial activity and have significant added value compared to unfermented food products due to higher nutritional value, longer shelf life and better taste and are produced locally according to ancient traditions. Producers are mainly women, who produce at home by continuously re-using their bacterial cultures from batch to batch by serial transfer. They sell the products at local markets generating a livelihood for themselves and

their families. To stimulate development of the products through both fundamental and applied research, this NWO-WOTRO funded project will study the microbial ecology and evolution that underlies product properties and key elements of the food value chains of two exemplary products, Mabisi (based on milk) and Munkoyo/Chibwantu (based on cereal). This project is a collaboration of consortium led by Wageningen University in the Netherlands and the University of Zambia, further consisting of other partners in the Netherlands (CSK Food Enrichment and Yoba-for-Life) and in Zambia (Tropical Diseases Research Centre, Heifer International).

We are looking to fill three PhD positions.

PhD position 1. In this PhD project, we will use traditional fermented foods from Zambia as experimental model systems to study microbial community dynamics and evolution. We aim to address fundamental questions relating to eco-system evolution both experiments and modelling on the microbial ecology and evolution of fermenting microbes. We will also relate this to compositional and functional stability of the community of fermenting microbes. This PhD position will be part of a larger research programme on traditional fermented foods in Zambia. Candidate profile: Masters in (evolutionary) biology, genetics, microbiology, food (bio)technology or related field. Proven experimental skills in microbiology and molecular tools. Experience with of microbial community analysis is a bonus. Affinity with modelling (such as metabolic flux models, niche competitive exclusion models). Willingness and ability to travel to Zambia on occasion to visit field sites and to discuss with the other PhD candidates in the programme. The candidate will be stationed at Wageningen University at the Laboratory of Genetics on the basis of the CAO Nederlandse Universiteiten for 4 years. www.academictransfer.com/-24865 PhD positions 2 and 3. PhD candidates 1 and 2 will establish consumer preference and requirements and how taste, nutritional value, food stability and food safety of the products are affected by production procedures, fermentation processes and the ecology the micro-organisms responsible for fermentation. PhD candidate 2 will focus on Mabisi, PhD candidate 3 will focus on Munkoyo/Chibwantu. Candidate profiles: Masters degree in food science and technology, microbiology or related field. Willingness and ability to perform field as well as laboratory based research and affinity with conditions in rural Zambia. Willingness and ability to spend 50% of time in Zambia (mostly Lusaka) and 50% in Wageningen. Candidates will be offered a contract for 4 years out of Wageningen University on the basis of Nuffic guidelines (see www.nuffic.nl)

and will be stationed at Wageningen University (Food Quality and Design and Food Microbiology), as well as the University of Zambia (Department of Food Science and Nutrition). Preference will be given to candidates from Zambia and the Southern African region.

The 3 PhD candidates will be working with a multidisciplinary team of supervisors at Wageningen University: Dr Sijmen Schoustra and prof Bas Zwaan (Evolutionary Biology and Genetics), Dr Anita Linnemann (Food Quality and Design) and Prof. dr. Eddy Smid (Food Microbiology). In Zambia, supervision will be by Dr Sijmen Schoustra and Dr John Shindano (Department of Food Science and Nutrition, School of Agriculture, University of Zambia). Representatives of other members of the programme consortium will also be involved in the project.

To apply for PhD position 1, please send your application through the electronic system of Wageningen University, see www.academictransfer.com/24865. To apply for PhD positions 2 or 3, send one file containing a motivation letter, your CV and names and contact details of three references to Sijmen Schoustra via email. Sijmen.Schoustra@wur.nl.

— / —

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>

WesternKentuckyU AmphibianEvolution

MS ASSISTANTSHIP in the Biology Department at Western Kentucky University, Bowling Green, Kentucky, USA.

The Johnson Lab in the Biology Department at Western Kentucky University is seeking a motivated, qualified individual with prior experience in the fields of genetics and/or population biology to conduct independent research towards the completion of a Master's of Science Degree while acting as a teaching assistant for an undergraduate Biology course. Appropriate prior experience could include independent undergraduate research in any of a variety of disciplines or undergraduate coursework that utilized molecular genetic lab techniques.

Specific areas of research include (but are not limited to) 1) landscape genetics of amphibians using microsatellite loci to evaluate the distribution of genetic variation and identify the interaction between geographic features and gene flow; and 2) analysis of hybrid zones using single nucleotide polymorphisms (SNPs) to describe genomic patterns of admixture and identify genes of ecological interest. Desirable skills include a familiarity with standard population genetic software (Structure, Fstat, Migrate, etc.) and experience with basic laboratory techniques (PCR, sequencing, etc.). Other areas of research that fall under the broad umbrella of amphibian evolutionary ecology and conservation will also be considered.

While enrolled in the Master of Sciences in Biology program at WKU, students are expected to develop, implement, and analyze independent research projects, prepare scientific manuscripts, and present research at regional and/or national meetings. Additionally, the opportunity exists for qualified applicants to apply for a Graduate Research Fellowship that offers an enhanced financial package relative to the standard Department of Biology teaching assistantship (see below for necessary qualifications).

Teaching Assistant responsibilities include: instruction of two or three 18-student laboratories once a week, preparation of laboratory materials, grading and evaluation of student performance, and weekly TA meetings with the course instructor. Instruction responsibilities include a brief pre-lab lecture describing concepts and protocols followed by hands-on demonstration of appropriate techniques. Prior teaching experience is not required, but effective communication skills are a must.

A B.S. degree in biology, or closely related discipline is required. Additional requirements include: competitive GRE scores and undergraduate GPA, prior independent research experience, demonstrated excellence in course work, excellent written and oral communication skills, and ability to work independently and as a team member. The successful applicant minimally receives two years of TA stipend, a partial tuition waiver, and contributions towards health insurance benefits.

Pertinent requirements for Graduate Research Fellowship consideration are as follows: Students must be accepted in a graduate program at WKU. Students must demonstrate outstanding scholarly promise in their selected field (e.g., GPA >3.5, GRE >315, publications, presentations, research awards, etc.). Students must have a clearly identified research topic and proposed research plan that can be completed within the framework of a master's degree program.

For further details about this position please contact

Dr. Jarrett Johnson: jarrett.johnson@wku.edu. To apply please submit a letter of interest, CV, unofficial transcripts and GRE scores, and contact information for three references to jarrett.johnson@wku.edu. Review of applications will begin immediately (10/15/14) and will continue until a suitable applicant is selected, with a target deadline for selection being February 1, 2015.

“Johnson, Jarrett” <jarrett.johnson@wku.edu>

ZurichWadenswil CompSciPhylogen

Two Ph.D. student positions in computational science and phylogenetics

Two three-year Ph.D. studentships in computational science and phylogenetics are available jointly at the University of Zurich (UZH) and the Zurich University of Applied Sciences (ZHAW). The research project will focus on computational and statistical aspects of the alignment and phylogenetic tree estimation.

The project is collaboration between the Applied Computational Genomics group of Maria Anisimova (Institute of Applied Simulations, ZHAW) and Manuel Gil in the Bioinformatics and Systems Biology group of Christian von Mering (Institute of Molecular Life Sciences, UZH). Both groups have wide ranging expertise in computational biology. In addition, the candidates will benefit from the group membership in the Swiss Institute of Bioinformatics, providing further training and networking opportunities.

The successful candidate will have a strong background in computational science, including computational statistics, algorithmics, statistical estimation procedures, and numerical analysis. Fluency in a multi-paradigm programming language like C++ is required. Previous knowledge in phylogenetics is a plus but is not required. The candidate is expected to develop a background in phylogenetics and molecular evolution.

We are looking for an individual with a masters degree or equivalent, who is highly self-motivated and can work independently. The working language in the team is English. German skills, although helpful for day-to-day life, are not essential. Ideally, the candidate would be able to start on the 1st of February 2015.

To be considered, please send a single (!) PDF file merged from the following parts to maria.anisimova@zhaw.ch: CV including publica-

tion list (if available), a scanned academic transcript (list of grades in university courses), a motivation statement not exceeding two pages, and three references. Please include "JATI2014" in the subject line

of your email. The application deadline is the 1st of November 2014, but the candidates will be considered until the positions are filled.

manisimova@hotmail.com

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AustinPeayStateU MammalEvolution

Austin Peay State University Department of Biology
Assistant Professor V Biology Position No.: 105000
Position Summary: <https://apsu.peopleadmin.com/postings/5168> The Biology Department at APSU seeks an outstanding candidate to fill a tenure-track position in Evolutionary Biology (Mammalogist) to start Fall semester 2015. The successful candidate must be committed to excellence in teaching. Salary is competitive and commensurate with education and experience.

Duties and responsibilities include, but are not limited to the following: - Teach a variety of courses including but not limited to: Principles of Biology, Human Anatomy and Physiology, Zoology, Animal or Human Physiology, Principles of Evolution, and Mammalogy; - Mentor undergraduate and graduate research students; - Develop active collaborations with faculty members at APSU and other institutions; and - Seek external funding for research.

Required qualifications: - PhD in Biology or a related field. - ABD will be considered if all requirements are completed by date of hire, August, 2015. - Study of the evolution of molecular, cellular, functional, physiological, or behavioral traits of mammals; - A strong record of publications and grants; - Previous teaching experience at the collegiate level; and - Demonstrated ability to work with peers in a collegial manner. - A background search will be required of the successful candidate.

Special Instructions to Applicants: Applications taken ONLINE ONLY at <http://www.apsu.edu/human-resources/faculty> PLEASE ATTACH TEACHING PHILOSOPHY AND RESEARCH PHILOSOPHY to application. Applicant review will continue until the position is filled.

Please refer all questions to facultyapplications@apsu.edu

IT IS A CLASS A MISDEMEANOR TO MISREPRESENT ACADEMIC CREDENTIALS Austin Peay

State University is an AA/EEO employer and does not discriminate on the basis of race, color, national origin, sex, disability, status as a protected veteran, or age in its programs and activities. For inquiries regarding non-discrimination policies, contact Nondiscrimination@apsu.edu. Full Discrimination Policy: <http://www.apsu.edu/affirmative-action>.+ “Gienger, Christopher M.” <giengerc@apsu.edu>

CaliforniaAcademySci CuratorArachnology

California Academy of Sciences seeks an inspirational scientist who exemplifies the Academy’s mission to ‘explore, explain, and sustain life on Earth.’ The candidate is expected to develop an internationally recognized research program on arachnids, communicate effectively with diverse audiences and address local or global sustainability issues. We value innovation and creativity in both funding and engaging public audiences. The endowed position includes an appropriate start-up package, modest annual funds for research and a full-time postdoctoral position.

Application Instructions: Applicants should submit a cover letter, curriculum vitae, a statement of their research interests (not more than 3 pages), a statement of their sustainability and outreach goals (not more than 3 pages), and contact information for three references. Inquiries may also be directed to Dr. Brian Fisher (bfisher@calacademy.org), Chair of the search committee. Review of applications will begin January 2015. We encourage submission before that date, but applications will continue to be accepted until the position is filled. Please apply online through <http://bit.ly/1y3NZcJ> The California Academy of Sciences is an Equal Opportunity Employer and welcomes applications from individuals who will contribute to its diversity.

bpescador@gmail.com

CaliforniaStateU MontereyBay PopGenetics

Assistant Professor of Population Genetics and Computational Biology

The Biology program within the Division of Science and Environmental Policy at California State University, Monterey Bay seeks a population geneticist with strong computational biology skills to fill a tenure track assistant professor position. The applicant should be a dedicated teacher capable of successfully involving undergraduates in research. The successful candidate will work with other faculty to develop undergraduate curricula, professional outreach programs, and extramural research or programmatic funding. Additional information on the Division and the Biology program can be found at sep.csUMB.edu, the university and its vision at about.csUMB.edu/vision-statement, and our exceptional undergraduate research program at uroc.csUMB.edu.

Responsibilities The successful candidate will: (1) teach upper division evolutionary biology & population genetics, (2) develop and teach upper division bioinformatics & systems biology or a new upper division course in genomics or other computationally intensive branch of biology, (3) develop and maintain a research program that provides opportunities for undergraduates, (4) occasionally teach genetics or help with lower division instruction, and (5) contribute to the development of this new university.

Qualifications (minimum) Ph.D. in biology or related field at time of hire. Demonstrated excellence in teaching. Expertise in Population Genetics. Expertise in Computational Biology. **Qualifications (desired)** Research interests that leverage CSU Monterey Bays unique location at the interface between land and sea on the Central California coast.

Expertise in a computationally intensive field of study such as transcriptomics that can be applied to projects suitable for the undergraduate research environment.

A strong background in evolutionary or conservation biology.

Experience mentoring student research and/or internships.

Desire and ability to teach and mentor students from di-

verse cultural, ethnic, educational, and economic backgrounds.

A record of writing successful proposals for extramural funding.

Experience with course and curriculum development.
How to Apply

All prospective applicants must apply online at https://mocha.csUMB.edu/uhr/jobs/-login_applicant.jsp Applicants must submit: 1) Letter of Interest 2) CV 3) Teaching Statement (2 page max) 4) Research Statement (2 page max) 5) Contact information for 3 professional references

Please combine your teaching and research statement into a single document for upload.

SCREENING BEGINS NOVEMBER 1, 2014

“Cheryl A. Logan” <seasquirt@gmail.com>

ChicagoBotanicGardens ConservationInternship

The Conservation and Land Management Internship Program is now accepting applications for 2015! Please apply online at www.clminternship.org/applying

Would you like to put your education to use assisting in important conservation projects? Do you like to experience new landscapes, habitats, and species diversity? The CLM Internship Program is a wonderful opportunity to begin a career in botany, wildlife biology, natural resource management and conservation!

Each year, the Conservation and Land Management Internship Program places 75-100 college graduates in five-month paid internships to assist professional staff at the Bureau of Land Management (BLM), National Park Service (NPS), US Forest Service (USFS), US Fish and Wildlife Service (FWS) and US Geological Survey (USGS). Internships are primarily located in the western United States, including Alaska! Each internship is unique and may focus on botany, wildlife, or a combination of the two. Interns assist in a wide variety of projects depending on the needs of each field office. Examples of projects include: collecting seed for restoration and conservation purposes, performing surveys for threatened and endangered species and habitats, and collecting data on species reintroduction and habitat management experiments. Applicants with strong botany experience are especially encouraged to

apply!

Benefits of the CLM Internship Program are numerous. As a CLM intern, you will receive a stipend paid every two weeks totaling \$13,200 over 5 months and will attend an all-expenses paid week-long training workshop at the Chicago Botanic Garden. In addition, the CLM Internship Program provides opportunities to make connections in various governmental and non-profit organizations, to learn what it's like to work at a federal agency, to explore your career goals and expand your resume. Applications are due January 15th but we review applications on a rolling basis - the sooner your application is complete, the sooner we can review your files and consider you for available positions!

Spring semester 2015 graduates are encouraged to apply!

For more information and to apply online, please visit: www.clminternship.org/applying nze-
erega@chicagobotanic.org

ColoradoMesaU MammalEvolution

ANNOUNCEMENT OF POSITION VACANCY

Assistant Professor of Biology "Mammal Biologist

RESPONSIBILITIES: The Biological Sciences Department at Colorado Mesa University invites applications for a tenure-track faculty position in mammalian biology. The successful applicant will join a dynamic department, including field, organismal, cellular, and molecular biologists, focused on excellence in undergraduate teaching and mentorship of undergraduate researchers. Responsibilities include teaching 12 credits/semester, advising students, offering research opportunities, and participating in service to the department and university. Teaching responsibilities will include lower-division majors and non-majors courses, developing upper-division courses in mammalogy and within the candidate's specialty, and curating the mammal teaching collection.

EDUCATION & EXPERIENCE: A Ph.D. in biology or a related field is required. Preference will be given to candidates with undergraduate teaching and postdoctoral experience. Individuals with expertise as mammal biologists employing ecological, evolutionary, and/or management approaches are preferred. Colorado Mesa University is particularly interested in candidates who have experience working with students from diverse

backgrounds and who have a demonstrated commitment to improving the levels of access and success for underrepresented students within higher education.

TYPE OF APPOINTMENT: Full-time, tenure-track appointment beginning August 2015.

SALARY: Commensurate with education and experience. Excellent health and retirement benefits package.

APPLICATION DEADLINE: Open until filled. To ensure consideration, completed application packets must be received by January 16, 2015.

APPLICATION: Submit a cover letter describing your qualifications and experience as they relate to the specific responsibilities, requirements, and preferences of this position, CV, unofficial transcripts for all degrees completed (official transcripts will be required upon hire), statement of teaching philosophy, statement of teaching interests and experience (including a list of courses you are qualified to teach), statement of research interests, three letters of recommendation, and the following completed forms:

Applicant Authorization and Release to Conduct Reference and Background Check <<http://new.mesastate.edu/hr/documents/ApplicantAuthorizationforReferenceandBackgroundCheck.pdf>>

Background Investigation Disclosure and Authorization <<http://www.mesastate.edu/hr/documents/BACKGROUNDINVESTIGATIONDISCLOSUREANDAUTHORIZATION.pdf>>

Voluntary Affirmative Action Form < <http://www.mesastate.edu/hr/documents/Form-Affirmativeaction.pdf> >

Send to:

Biology Search Committee" Mammal Biologist

Human Resources, LHH 237

Colorado Mesa University

1100 North Avenue

Grand Junction, Colorado 81501-3122

Phone: 970 248-1820

*Colorado Mesa University is committed to providing a safe and productive learning and living community. To achieve that goal, we conduct background investigations for all final applicants being considered for employment. Background investigations include reference checks, a criminal history record check, and when appropriate, a financial and/or motor vehicle history. Applicant must be able to verify U.S. employment eligibility. Colorado Mesa University is an Affirmative Action/Equal Opportunity Employer, committed to a cul-

turally diverse faculty, staff and student body. Women and minorities are encouraged to apply. *Pos #1624

Susan M. Longest, PhD Assistant Professor of Biology
Colorado Mesa University 1100 North Avenue Grand
Junction, CO 81501

Phone: (970) 248-1554

susan.m.longest@gmail.com

ColoradoStateU CropFunctionalGenomics

ASSISTANT/ASSOCIATE PROFESSOR IN CROP
FUNCTIONAL GENOMICS DEPARTMENT OF
SOIL AND CROP SCIENCES COLORADO STATE
UNIVERSITY FT. COLLINS, COLORADO 80523

The Department of Soil and Crop Sciences (SCS) at Colorado State University is recruiting for a tenure-track Assistant/Associate Professor in the field of Crop Functional Genomics. We seek a dynamic, motivated scientist to lead an innovative research program that employs functional genomics approaches to discover and characterize genes controlling traits that are important for crop production and utilization. The intended focus of the position is in wheat, though opportunities exist for research in other areas and crops. Candidates are sought with demonstrated capacity to integrate modern whole-genome approaches and techniques to further gene discovery and characterization for agronomic, pest resistance, and crop utilization objectives. The successful candidate will advance Colorado State University's and SCS's land-grant mission and will contribute to programs of the College of Agricultural Sciences (CAS) by conducting research and teaching that is responsive to local or regional production constraints, global food security, and the rapidly expanding technological capacity in crop genomics. This tenure track position is a 60% research, 30% teaching, and 10% outreach appointment on a 9-month contract. Information regarding the department, its programs, and degrees offered can be viewed at <http://soilcrop.agsci.colostate.edu>.

The successful applicant will be expected to develop a nationally and internationally recognized research program using cutting-edge technologies in the arena of crop functional genomics, specifically to identify genes and characterize the mechanisms by which genes affect important agronomic, pest resistance, or end-use qual-

ity traits. Potential research topics include, but are not limited to, gene discovery and characterization via TILLING or genome editing methods, comparative genomics, integration of functional genomics techniques with other genotype to phenotype approaches (such as QTL analysis and genome-wide association studies), fine mapping and gene cloning, and plant transformation for validation of gene function. The successful candidate will teach an alternate-year undergraduate level course in applications of plant biotechnology and an alternate-year graduate level course in the candidate's primary area of expertise.

Required Qualifications: - Completion of PhD or equivalent degree by date of hire. Degree emphasis in a relevant field such as (but not limited to) plant breeding, plant genetics, genomics, or biotechnology. - Demonstrated ability and experience in the conduct of innovative field- and/or laboratory-based studies that incorporate functional genomics approaches relevant in agronomic or horticultural crops. Preferred Qualifications: - Demonstrated success in publication of research findings. - Demonstrated success in preparation of competitive grant proposals. - Post-doctoral (or equivalent) research experience, preferably with wheat or other grass species. - Effective communication skills, with an emphasis on presenting and disseminating research information. - Demonstrated excellence in teaching. - Ability to advance the department's commitment to diversity and inclusion through research, teaching, and outreach with relevant programs, goals and activities.

Applications will be accepted until the position is filled; however, to ensure full consideration applications should be submitted by December 31, 2014. The anticipated starting date for the position is August 15, 2015, but is negotiable.

Interested individuals should submit the following application materials on-line at https://advancing.colostate.edu/jobs/-login_new.asp?search_id=3D140: (1) a cover letter addressing required and preferred qualifications; (2) a curriculum vitae; (3) a statement of research background and interests; (4) a statement of teaching experience and philosophy; (5) PDF copies of up to three relevant publications; and (6) a list of three professional references whom we may contact at a future date for a letter of recommendation. References will not be contacted without prior notification to a candidate. Interested candidates may contact Search Committee Chair Dr. Scott Haley (scott.haley@colostate.edu) for questions about the position or SCS Office Manager Jeannie Roberts (jeannie.roberts@colostate.edu) for questions about the search process

Colorado State University, located in Fort Collins, Colorado, is situated on nearly 5,000 acres of land, including the main campus, a foothills campus, the Agricultural Research Development & Education Center (ARDEC), and a

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ColumbiaU ComparativeEvolutionNeurology

INTERDISCIPLINARY FACULTY POSITIONS IN NEUROSCIENCE AND BIOLOGY, PHYSICS, OR CHEMISTRY

Columbia University's Zuckerman Mind Brain Behavior Institute, together with four Departments - Biological Sciences, Chemistry, Physics and Ecology, Evolution and Environmental Biology (E3B) - invites applications for tenure-track faculty positions to begin July 1, 2015. Appointments would be at the assistant professor level in one of the four departments. In special cases, a senior faculty appointment may be possible. The Zuckerman Mind Brain Behavior Institute is a new comprehensive institute at Columbia for the pursuit of interdisciplinary and collaborative research in brain science.

We are interested in individuals with research programs in the areas of Biology, Chemistry, or Physics that interface with neuroscience and whose work involves the development of techniques, applications, and methods for neuroscience. In addition, we encourage applications from scientists with an affinity for multidisciplinary research, and who have a demonstrated commitment to tackling the challenges of studying mind, brain, and behavior.

Individuals conducting research in the following areas are highly desirable:

- Development of imaging methods to probe neural circuit function in vivo
- Development of tools to visualize or manipulate neuronal activity in vivo
- Use of genetic or chemical genomic approaches to studying the function of neural circuits in behaving animal models

- Comparative or evolutionary approaches to studying the neural circuits underlying specific behaviors
- Precision instrumentation, optics, lasers and imaging
- Computational and statistical approaches for the analysis of large datasets
- Machine vision, automation, and precision electronics

Applicants are expected to have a strong record of achievement and to demonstrate the ability to engage in innovative and interdisciplinary research and teaching.

The successful candidates will contribute equally to the intellectual vitality and teaching of their Department and the Zuckerman Mind and Brain Behavior Institute. A Ph.D. is required at the time of the appointment. Applicants are encouraged in their cover letters to discuss the Department(s) in which they would like to be based. For more information about the Zuckerman Mind and Brain Behavior Institute and the corresponding Departments, please visit:

<http://zuckermaninstitute.columbia.edu/>-

<http://www.columbia.edu/cu/biology/>

<http://www.columbia.edu/cu/chemistry/>

<http://www.columbia.edu/cu/e3b/>

[http://-](http://-physics.columbia.edu/)

[physics.columbia.edu/](http://-physics.columbia.edu/) For more information and to apply, please visit:

academicjobs.columbia.edu/applicants/Central?quickFindY935

Review of applications will start November 1, 2014.

Columbia University is an Equal Opportunity/Affirmative Action employer.

Lourdes A. Gautier Academic Department Administrator Department of Ecology, Evolution & Environmental Biology (E3B Columbia University 1200 Amsterdam Avenue New York, NY 10027 212-854-9987

Lourdes Gautier <lg2019@columbia.edu>

ColumbiaU PopulationBiology Genetics

ColumbiaU.PopulationBiology.Genetics

ASSISTANT PROFESSOR IN POPULATION BIOLOGY

The Department of Ecology, Evolution and Environmental Biology (E3B) at Columbia University invites

applications for a tenure-track position at the Assistant Professor level to begin July 1, 2015. Preference will be given to candidates who combine theory with state-of-the-art field, laboratory, and quantitative tools to study ecological, evolutionary and/or environmental processes at population scales. Relevant research areas include, among others, functional, comparative or evolutionary genomics of populations, population genetics, and population ecology.

Candidates must have a Ph.D. or equivalent in a relevant discipline, and a record of outstanding scholarship that demonstrates originality in addressing significant questions in ecology and evolutionary biology. E3B is part of an extensive network of some of the world's foremost research institutions in the biological, physical and social sciences (www.columbia.edu/cu/e3b). The successful candidate will be expected to establish a vigorous, externally funded research program that complements and augments existing strengths within E3B and related institutions, and to participate in undergraduate and graduate teaching.

All applications must be submitted online and must include a cover letter, CV, research and teaching statements, contact information for three reference letter writers, and three PDFs of re-prints/pre-prints. For more information and to apply, please go to

<http://academicjobs.columbia.edu/applicants/Central?quickFind=3D59884> Review of applications will begin November 1, 2014, and will continue until the position is filled.

Columbia University is an Equal Opportunity/Affirmative Action employer.

dr2497@columbia.edu

CornellU BirdMammalCurator

Curatorial/Research Associate Ornithology and Mammalogy Collections Department of Ecology and Evolutionary Biology Cornell University

The Cornell University Museum of Vertebrates (CUMV) is seeking an ornithologist or mammalogist to curate and grow the collections through an organized program of accession involving Cornell students in all aspects of museum-based activities. We are interested in a leader for all aspects of the program, from field collections through specimen preparation and curation, to use of the collections in modern specimen-

based research. The successful candidate will curate the Ornithology and Mammalogy Collections (including co-supervision of a full-time collections manager) and maintain an active research program in collections-based research.

The CUMV is a unit of the Department of Ecology and Evolutionary Biology and is housed in the modern Imogene Powers Johnson Center for Birds and Biodiversity, along with the Lab of Ornithology and its 200 plus faculty and staff. The CUMV holdings include over 1.25 million specimens, including over 60,000 bird and 38,000 mammal specimens and a substantial tissue collection. The CUMV includes space for teaching, specimen preparation and molecular work; a walk-in freezer, X-ray lab, dermestarium, etc. Cornell supports a diverse community of faculty, staff and students pursuing an uncommonly large number of programs and projects in vertebrate biology, ecology and evolution.

Qualifications: Applicants should have a Ph.D. in ornithology, mammalogy, or related area, have broad knowledge of birds and/or mammals, have experience working with natural history collections, and display an interest in interacting with students and the broader scientific communities at the Lab, Cornell and beyond.

Inquiries are encouraged to either of the co-chairs of the search committee: Prof. David W. Winkler (dww4@cornell.edu) or Prof. Jeremy B. Searle (jbs295@cornell.edu). Please send a CV, three letters of reference and a letter describing your vision for future collections-based research and education to: Curator Search, Department of Ecology and Evolutionary Biology, Cornell University, Ithaca, NY 14853. Review of applications will begin 20 October 2014 and continue until the position is filled.

Cornell University is an equal opportunity/affirmative action employer. Applications from women and minorities are encouraged.

john.friel@CORNELL.edu

CornellU BirdMammalCurator 2

Curatorial/Research Associate Ornithology and Mammalogy Collections Department of Ecology and Evolutionary Biology Cornell University

The Cornell University Museum of Vertebrates (CUMV) is seeking an ornithologist or mammalogist to curate and grow the collections through an orga-

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Inquiries are encouraged to either of the co-chairs of the search committee: Prof. David W. Winkler (dww4@cornell.edu) or Prof. Jeremy B. Searle (jbs295@cornell.edu). Please submit (as a single pdf file) a CV, a letter describing your vision for future collections-based research and education, and the names, phone numbers, and email addresses of three individuals who can serve as references to: curator_search@cornell.edu. Review of applications will begin 27 October 2014 and continue until the position is filled.

Cornell University is an equal opportunity/affirmative action employer. Applications from women and minorities are encouraged.

[Cornell University] < <http://www.cornell.edu> >

John P. Friel, Ph.D. < http://www.cumv.cornell.edu/wiki/pages/B0R4a4.7G/John_P_Friel_PhD.html >, Curator of Fishes, Amphibians & Reptiles Cornell University Museum of Vertebrates < <http://www.cumv.cornell.edu> > 159 Sapsucker Woods Road, Ithaca, NY 14850-1923 USA
Phone: +607.254.2162 | Fax: +607.254.2415

[email] <<mailto:john.friel@cornell.edu>> [facebook] < <http://facebook.com/john.friel> > [Skype] <callto://john_friel> [twitter] < <https://twitter.com/-friel> >

John Patrick Friel <john.friel@cornell.edu>

EarlhamC 1year TeachingEvolution

Earlham College: Visiting Assistant Professor of Biology- Ecology, Evolution, and Conservation Biology

Description

Earlham College invites applications for a biologist with teaching and research interests in ecology, evolution, and/or conservation biology. This is a full-time, one-year appointment in the Biology Department as a visiting professor. The position begins in August 2015.

The Department seeks an individual who is first and foremost excited about teaching“ in lecture, seminar classes, laboratory, and research venues ” to bright and motivated undergraduates in a nationally ranked department at a small liberal arts college.

Primary Duties and Responsibilities

Teaching responsibilities will include contributing to introductory team-taught courses in ecology and biodiversity, and upper-level courses in the applicant’s area of expertise. Applicants who have an expertise in one or more of the following areas are especially attractive: population and community ecology, conservation, evolutionary biology, field research. There are also opportunities for student-faculty collaborative research. For an expanded description of Earlham College and the Biology Department please visit: <http://www.earlham.edu/biology> *Experience and Qualifications*

A Ph.D. or equivalent is preferred; teaching or post-doctoral experience is desirable.

Application Instructions

Please send a single PDF that includes your curriculum vitae, a statement of teaching philosophy, and a statement of research interests. Please also arrange for three letters of reference that speak to your teaching, research, and communication skills to:

Kim Wills, Biology Administrative Assistant
willski@earlham.edu.

Review of applications will begin on December 1, 2014 and continue until the position is filled.

Please direct questions to Dr. Brent Smith (brents@earlham.edu)

Earlham College continues to build a community that reflects the gender and racial diversity of the society at large, and, therefore, we are particularly interested in inviting and encouraging applications from African Americans, other ethnic minorities, and women. Earlham also is eager to solicit applications from members of the Religious Society of Friends (Quakers). Earlham is an Equal Opportunity Employer.

Chris R. Smith Assistant Professor Department of Biology Earlham College 801 National Road West Richmond, IN 47374 USA tel: 765-983-1377

crsmith.ant@gmail.com

EasternConnecticutStateU VertebrateEvolution

The Biology Department at Eastern Connecticut State University invites applications for a tenure track position in Vertebrate Evolutionary Ecology starting August 2015. The position will be filled at the rank of Assistant Professor. A Ph.D. in a biological science with expertise in evolutionary ecology of vertebrates is required. Expertise in animal behavior and/or biostatistics is highly desirable; post-doctoral experience is preferred. The successful candidate must have demonstrated an interest in, and an aptitude for, teaching undergraduates. Responsibilities will include: teaching introductory and upper-level courses for biology majors, teaching a course in the University's liberal arts core curriculum and/or first-year program, and developing a research program involving undergraduates. Additional expectations include academic advisement, service to the University, and continued professional development.

The Department has outstanding resources for teaching and research housed in a modern science building. Facilities include: greenhouse, environmental chambers, vivarium, confocal microscope, campus arboretum, and the nearby Church Farm Center for the Arts and Sciences.

Send CV, a copy of all graduate transcripts, statements of teaching philosophy and research interests, documentation of teaching ability, and the name and contact

information for three references via email to biology-search1@easternct.edu, Dr. Patricia Szczys, Department of Biology, Eastern Connecticut State University, Willimantic, CT 06226. Search will continue until the position is filled. ECSU is an Affirmative Action/Equal Opportunity Employer.

Matthew R. Graham, Ph.D. Assistant Professor Biology Department Eastern Connecticut State University Science Building, Room 366 83 Windham Street Willimantic, CT 06226 Office: 860-465-3796 Cell: 702-427-1009 Fax: 860-465-5213 <http://scorpiophilia.wordpress.com> "Graham, Matthew R. (Biology)" <grahamm@easternct.edu>

FloridaStateU EvolutionaryBiol

While the search is not primarily for an evolutionary biologist, with up to 5 positions to fill, the ad makes it clear that evolutionary biology is one of the areas of interest.

Florida State University

Coastal & Marine Initiative: Conservation Biology, Fisheries Biology, Population Biology, Community Ecology and Organismal Biology. Florida State University is continuing its major interdisciplinary initiative in the broadly defined area of Coastal & Marine Research. During the 2014-15 academic year, the initiative will be recruiting up to five tenure-track faculty members and the search is open with respect to rank. We invite applications in five areas of research of importance to marine and terrestrial coastal areas: (1) conservation biology, (2) fisheries biology, (3) population biology (including demography and population genetics), (4) community ecology (including species interactions and macroecology) and (5) organismal biology (including environmental physiology and functional morphology). We encourage applications from ecologists and evolutionary biologists, empiricists and theoreticians. Habitats of interest include marine habitats (e.g., sea grass, oyster reef, saltmarsh, reefs, open water) and terrestrial systems (e.g., dunes, rivers and streams, maritime forests). Faculty appointments will be in the Department of Biological Science or the Department of Earth, Ocean and Atmospheric Science and can be based at the FSU Coastal and Marine Laboratory. Successful candidates are expected to have a synergistic impact on existing coastal and marine research programs at the University and to contribute to teach-

ing and mentoring at the undergraduate and graduate levels. Successful candidates will be offered highly competitive salaries and start-up packages, high quality research space and access to state-of-the-art instrumentation, computing and facilities in academic and interdisciplinary units. Applicants are asked to provide a single document in PDF format containing a letter of application, a curriculum vitae, a two page narrative describing their research interests and plans, and a brief teaching statement. Applications must be sent electronically to coastal-marine2014L.search@fsu.edu. Applicants should also have three letters of recommendation sent to coastal-marine2014L.letters@fsu.edu. The closing date for applications is November 12, 2014. Florida State University is committed to the diversity of its faculty, staff, and students, and to sustaining a work and learning environment that is inclusive. Women, minorities, and people with disabilities are encouraged to apply. FSU is an Equal Opportunity/Access/Affirmative Action Employer.

Scott Steppan Department of Biological Science Florida State University Tallahassee, FL 32306-4295

steppan@bio.fsu.edu phone: 850.644.6536 fax: 850.645.8447

<http://bio.fsu.edu/~steppan> <http://www.bio.fsu.edu/faculty-steppan.php> Ecology and Evolution Group at FSU: <http://www.bio.fsu.edu/ee/index.html> Scott Steppan <steppan@bio.fsu.edu>

George Washington Computational Biology

The George Washington University

Faculty Positions in Computational Biology and Bioinformatics

The newly established Computational Biology Institute at the George Washington

University seeks founding faculty members to establish externally funded, internationally recognized, and interdisciplinary research programs in bioinformatics and/or computational biology. There are two open tenure-track faculty positions at any academic level, and we seek applicants concentrating in the areas of genome analysis, biodiversity informatics, translational medicine, and systems biology developing methods to address big data issues from a computational perspective.

Basic Qualifications: Applicants must have an MD or PhD in Bioinformatics, Computational Biology, Computer Science, Mathematics, Genomics, or related discipline, with postdoctoral research experience, evidence of success in obtaining extramural funding, and a solid publication track record.

Successful candidates will enjoy joint appointments at the CBI and an affiliated academic department (e.g., Biochemistry, Biological Sciences, Biophysics, CASHP, Computer Engineering, Computer Science, Integrated Systems Biology, Mathematics, Microbiology, Statistics, etc.) upon approval and have opportunities to establish partnerships with regional research centers of excellence, including Childrens National Medical Center, NIST, Janelia Farm, INOVA hospital system, Naval Research Laboratory, the Smithsonian, and the NIH intramural research program.

Application Procedure: Applicants should submit an electronic application, and upload a cover letter emphasizing specific qualifications, a curriculum vitae, a description of research interests, and names and contact information of 3 references at: <http://www.gwu.jobs/postings/24171> Review of applications will begin on November 19, 2014 and will continue until positions are filled. Only complete applications will be considered. For further information about the Computational Biology Institute at George Washington University, please see <http://cbi.gwu.edu>. Employment offers are contingent on the satisfactory outcome of a standard background screening. For questions relating to this opportunity, please contact Keith Crandall, Director, Computational Biology Institute, The George Washington University, kcrandall@gwu.edu.

The university is an Equal Employment Opportunity/Affirmative Action employer that does not unlawfully discriminate in any of its programs or activities on the basis of race, color, religion, sex, national origin, age, disability, veteran status, sexual orientation, gender identity or expression, or on any other basis prohibited by applicable law.

Keith Crandall <kcrandall@gwu.edu>

GuangxiU Plant Evolution

Faculty position in Plant Physiological Ecology

The Plant Ecophysiology and Evolution Group at Guangxi University (Nanning, China) is seeking a

highly motivated and productive candidate for a faculty position in Plant Physiological Ecology. (<http://www.plant-ecophysiology-evolution.com/>)

Project and Qualifications: The candidate should have a Ph.D. in plant physiological ecology or plant physiology, and postdoctoral or junior faculty experiences. Research experience on plant hydraulics and water relations, or photosynthesis and photo-protection, and a background in trait evolution with relation to molecular phylogenetics are preferred. The candidate should have a proven track record of successful publication in peer-reviewed journals. The main task of the position is research, but also involves education of undergraduate and graduate students within our research group.

The position will be started with a 5-yr contract, with an annual salary and an additional one-year salary after the completion of a 5-yr contract as pension, housing on campus, medical insurance, as well as a starting-up research funding. Opportunities exist to apply for national and provincial research funding through our university. The candidate will be part of a growing and multidisciplinary team of Chinese and foreign researchers, providing a creative and stimulating research environment. Knowledge of Chinese is not mandatory, but opportunities exist to attend weekly courses in Mandarin. The working language in our research group is English.

Our research group is part of the College of Forestry, under the State Key Laboratory of Conservation and Utilization of Subtropical Agro-bioresources, which houses a wide range of laboratories and research teams. We are centrally located on the large Nanning city campus, with easy access to on-campus housing and day-to-day facilities for life on campus.

Guangxi University (>25,000 students) in Nanning is part of the National 211 University Scheme of China (http://en.wikipedia.org/wiki/Project_211) and aims to become a major research hub in southern China. The city forms the natural gateway to South-East Asia, with Vietnam a mere 300kms away and direct international connecting flights available to most major cities in Asia.

To apply for the position, please email a statement of research interests and goals, a curriculum vitae, and the email addresses of three references to Prof. Cao Kunfang (kunfangcao@gxu.edu.cn). Review of applications will begin immediately, and will continue until the position has been filled.

Dr. Joeri S. Strijk Associate Professor Plant Ecophysiology & Evolution Group, Room 124 State Key Laboratory for Conservation and Utilization of Subtropical

Agro-bioresources College of Forestry, Guangxi University Nanning, Guangxi 530005 PR China

Joeri Sergej Strijk <jsstrijk@hotmail.com>

IndianaUPenn ConservationGenomics

Department of Biology – Tenure Track Position, Conservation Genomics

The Department of Biology at Indiana University of Pennsylvania is seeking a broadly trained Conservation Genomicist for a full-time tenure track position beginning in August 2015.

The successful applicant will have three areas of focus: building an active, externally-funded research program involving undergraduate and master students, teaching introductory as well as specialty-area courses to majors and non-majors, and contributing to shared university governance through participation in departmental, college or university committees, programs, and work groups as appropriate.

The active, externally-funded research program will be focused on organismal conservation using analytical and model-based methods with genetic data in wild and captive populations, and will actively involve undergraduate and master students in research. Applicants specialized on a single taxonomic group will be considered, but preference will be given to applicants with broad interests and the ability to work with multiple taxonomic groups on different scales and scopes of research questions. Candidates should have experience with the collection and analysis of genetic data, including, but not limited to, using next-generation sequencing to identify target markers at individual, population, species, and community scales. Candidates should have the ability to work collaboratively in an interdisciplinary setting to address research questions related to molecular ecology, endangered species, phylogeography, habitat fragmentation, bio-monitoring, disease ecology, and/or energy development. The successful candidate will be expected to participate in the development of a new departmental core laboratory, including the pursuit of external funding. Our department is committed to innovative teaching and research in a student-centered setting based on the Teacher-Scholar Model (<http://www.iup.edu/teachingexcellence>; <https://depts.washington.edu/gs630/Spring/Boyer.pdf>).

The successful candidate may be assigned to perform work at off-campus sites and/or provide instruction through distance education.

Minimum qualifications include a PhD in Biology or a related discipline by time of employment, relevant teaching experience, and active research in conservation genetics as evidenced by peer-reviewed publications or external grants. Postdoctoral research experience in genomic applications to the conservation of wildlife, fishes, or plants at population, community, and/or landscape scales, a track record of successful publishing and grantsmanship, and evidence of teaching excellence is preferred. The department is interested in candidates who have demonstrated commitment to excellence by providing leadership in teaching, research or service towards building an equitable and diverse scholarly environment. Candidates must communicate effectively and perform well during interview(s) which will include providing a research seminar.

Review of applications will begin immediately and continue until the position is filled. Full consideration will be given to applications received by November 7, 2014. All applications for this position must be submitted via our online application system (<https://iup.peopleadmin.com/>). Please do not fax, mail or email any documentation. Only complete applications will be considered. A complete application will consist of a letter of application, a current curriculum vitae, unofficial transcripts, a statement of teaching philosophy, a statement of research goals and names and email addresses of three references. Three (3) letters of reference must be on file with IUP before consideration is given for an on campus interview. At least one letter of reference should address teaching potential. Official transcripts will be needed for hire.

Committed to excellence through diversity, Indiana University of Pennsylvania is an equal opportunity employer M/F/H/V.

Indiana University of Pennsylvania is a member of the Pennsylvania State System of Higher Education.

“Ms. Melanie Jean Muscatello” <melanie@iup.edu>

IowaStateU PopulationBiology

Tenure-Track Faculty Position in Population Biology

The Ecology, Evolution & Organismal Biology (EEOB) Department at Iowa State University seeks a scholar

employing theoretical or empirical approaches to understand the ecological or evolutionary dynamics of populations in response to abiotic or biotic stressors. Research may investigate the characteristics of individual or interacting species of any taxon in the context of population responses to environmental stress, broadly defined to include, for example, global climate change, habitat disturbance, or altered species interactions (invasive species, disease agents, predators, competitors, mutualists), among others. Successful candidates are expected to establish a vibrant, externally funded research program, demonstrate an ability to work collaboratively within existing research strengths at ISU (including a Presidential Translational Health Initiative), and teach undergraduate and graduate education courses, including courses in their area(s) of expertise.

Candidates must hold a Ph.D. by the time of appointment.

All applications must be submitted electronically at www.iastatejobs.com (vacancy #400041). Please be prepared to attach a letter of application, including concise teaching and research statements, curriculum vitae, and up to three reprints. Submission of three confidential letters of recommendation should be arranged as per instructions in the on-line application system. The positions will remain open until filled. Full consideration will be given to applications received by 6 November 2014. For additional information please email brent@iastate.edu.

Iowa State University is an EO/AA employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability, or protected Vets status. Iowa State University is an AAU-member comprehensive, land grant, Carnegie Doctoral/Research Extensive University with an enrollment of over 33,000 students. The university is located in Ames, IA, one of the nation's most highly rated metropolitan areas of its size (<http://www.iastate.edu/about/ames.php>) and is only 35 miles north of Des Moines. ISU is committed to achieving inclusive excellence through a diverse workforce and is dedicated to supporting work-life balance through an array of flexible policies.

Dr. Nicole Valenzuela Associate Professor Dept. of Ecology, Evolution, and Organismal Biology Iowa State University Office: 239 Bessey Hall 251 Bessey Hall, Ames IA 50011 URL: <http://www.public.iastate.edu/~nvalenzu/> “Valenzuela, M. N [EEOBS]” <nvalenzu@iastate.edu>

Lafayette Louisiana GeneticsTech MarineMammalConservation

Applicants can apply at www.iapws.com or contact me directly at brenda.lewis@noaa.gov Thank You

Fisheries Biologist II (Mammal Genetics Technician)

FLSA Exempt

Location:

Lafayette, LA

*Reports to: *

Project Manager, NOAA unit leaders

Period of Performance:

Two years from the official start date or until the funds for the position are depleted.

Summary:

The SEFSC Marine Mammal Program (MMP) is responsible for science-based assessment and conservation of marine mammal populations in the Southeast Region. Accurate assessments of population status require an accounting of the human-induced mortalities, accurate estimates of abundance, and a complete understanding of the population structure and mixing rates among populations. The MMP conducts small-boat field research and tissue samples collected from strandings and obtained through remote dart-biopsy techniques from both small and large vessels provide DNA for genetic studies of population structure and health at the Lafayette facility which houses a state-of-the-art molecular genetics laboratory. In addition to genetic analyses of population structure and gene flow, the genetics lab conducts research into the evolutionary relationships among cetacean species, social structure, and genetic species identifications. Tissue samples are also used to examine the levels of pollutants in the bodies of marine mammals. The contractor (Mammal Genetics Technician) shall work within the SEFSC Protected Resources and Biodiversity Divisions Marine Mammal Unit and will be located in Lafayette, Louisiana. The contractor shall support research projects focused on molecular genetic analyses of marine mammal populations and species. The contractor shall assist with processing marine mammal tissue samples for collection of a variety of types of molecular genetic data and shall play a role in the day-to-day

maintenance of a molecular genetics lab.

The Contractor shall: perform DNA extractions from cetacean and pinniped species tissue samples collected from strandings, live captures, bycatch and biopsies; perform PCR (polymerase chain) reactions, gel electrophoresis; collect DNA sequence and microsatellite data on ABI 310 or ABI 3130 automated Genetic Analyzers; and maintain an accurate and complete laboratory notebook. The Contractor shall log and archive tissue samples, DNAs and associated data into a database. The Contractor shall conduct data QA/QC, assist with basic data analysis, provide summaries of progress and results, provide data reports and presentations. The Contractor shall perform basic laboratory upkeep and maintenance as assigned, prepare reagents, prepare, ship and log tissue sample tubes, participate in bi-weekly laboratory meetings. The contractor may be required to perform marine mammal fieldwork as necessary.

Essential Job Functions:

- Knowledge of applying basic concepts, principles and methodologies of marine mammal science or related biological field sufficient to independently perform scientific tasks using standard molecular methods and techniques.
- Proficiency with DNA extractions, the polymerase chain reaction (PCR), DNA sequencing and microsatellite data collection and ability to independently perform scientific tasks using standard molecular biological methods and techniques.
- Experience with analysis of sequence or microsatellite data; computer literate and experience with common word processing, spreadsheet, statistical and graphics programs.
- Capable of writing reports at the college level and making oral presentations.
- Excellent problem solving and critical thinking skills. Good organizational skills and ability to plan daily duties. Ability to work independently as well as with other employees. Clear oral and written communication with Federal Managers and other employees.

Level of Supervision:

None

Education and Experience:

MS Degree in Marine Science or a related field of study (including Genetics, Molecular Biology, or Biology) or BS Degree in Marine Science or a related field of study (including Genetics, Molecular Biology, Biology) plus three (3) years of relevant experience.

License and Certifications:

None

Physical Demands/Working Environment:

The contractor may be required to perform marine mammal fieldwork as necessary. Overtime (up to 20 hours per week, on occasion) may be required.

Travel:

Periodic travel will be required for field work in estuaries and coastal regions of the Gulf of Mexico.

Security Clearance:

NACI - National Agency Check plus written Inquiries – Brenda Lewis Site Manager IAP World Services Contractor NOAA/NMFS Project 228-549-1659

Brenda Lewis - NOAA Affiliate
<brenda.lewis@noaa.gov>

LeibnizInstEvolution Berlin EvolutionEducation

Job in Education and Public engagement with Science at the Museum für Naturkunde Berlin, Leibniz Institute for Evolution and Biodiversity Science

This is a fantastic job opportunity to work at the dynamic, globally operating natural history museum in Germany's capital Berlin and to develop nationally and internationally recognized education and public engagement with science programs.

Salary TVL-13 (annual salary between c. 39,000 - 50,000, depending on qualifications). This is initially a two-year position that can be tenured.

Job description:

§Design and coordinate projects and programs around science, natural history education and science communication

§Develop standards and guidelines for educational work for the natural history / science sector

§Develop and lead national and international networks

§Develop an externally funded scientific programs on education and scientific literacy

§Publish scientific papers

§Develop educational courses for teachers, museum guides and others

§Operational work at the museum

Your qualifications:

§Science degree /PhD in Science Education, cultural

history, museum studies, science

§Several years of experience in (leadership in) science education, science communication

§Good knowledge of (national and) international education policy and the museum sector

§Demonstrable experience and skills in program, project planning and management

§Knowledge and experience in Geo-/ Bio - Sciences

§Excellent communication skills and team player

§Appropriate English and German language skills to deliver tasks

Desirable:

§Citizenship of the European Union

The usual documentation should be send to recruiting@mfn-berlin.de by 05.11. 2014

The Museum für Naturkunde, Berlin Our Mission: Discovering and describing life and earth - with people, through dialog. The Museum für Naturkunde Berlin is an integrated research museum with strong national and international partnerships and networks. The research is collections based, the collections are developed through the research and the public engagement is science driven. Research areas: Evolutionary biology; evolutionary morphology, biodiversity in time and space; biodiversity dynamics; biodiversity and climate change; meteorites, impact geology & global disasters; collections development; history of science & natural history collections as cultural heritage; biodiversity informatics; public engagement with science: exhibitions; citizen science; education; science policy advice. We are currently undergoing a major renewal / building program (2007-2027). We are a member of the German Science Organisation Leibniz Gemeinschaft (89 organisations, annual budget 1.3B) and have recently been internationally evaluated as Excellent to very good.

To find out more, visit us on: <http://www.naturkundemuseum-berlin.de/en/> Professor Johannes Vogel, Ph.D. Director General Museum für Naturkunde Berlin, Leibniz-Institute for Evolution and Biodiversity

“Vogel, Johannes” <johannes.vogel@mfn-berlin.de>

LouisianaStateU EvoDevo

ASSISTANT PROFESSOR (TENURE-TRACK) (Developmental Biologist) Biological Sciences College of Science Louisiana State University

Responsibilities: This is a tenure-track faculty position and the successful candidate will be expected to establish and maintain a vigorous, extramurally funded research program in the areas of eukaryotic developmental biology at LSU. Biological Sciences is a large and dynamic department, with research ranging across all levels of biological organization from molecules to ecosystems. The successful candidate will complement these strengths and contribute to undergraduate and graduate teaching.

Required Qualifications: Ph.D. in Biological Sciences or related field; successful track record of independent research.

Additional Qualifications: Postdoctoral experience preferred.

An offer of employment is contingent on a satisfactory pre-employment background check. Application deadline is November 30, 2014, or until a candidate is selected. Apply online and view a more detailed ad at: <https://lsusystemcareers.lsu.edu> Position #001309

LSU IS AN EQUAL OPPORTUNITY/EQUAL ACCESS EMPLOYER

Quick link at ad URL: <https://lsusystemcareers.lsu.edu/applicants/-Central?quickFind=58209>

Jake Esselstyn Museum of Natural Science Louisiana State University 119 Foster Hall Baton Rouge, LA 70803

phone: (225) 578-3083 fax: (225) 578-3075 <http://www.museum.lsu.edu/esselstyn> Jacob A Esselstyn <esselstyn@lsu.edu>

LouisMarieHerbarium Quebec PlantSystematics

The Département de biologie de Université Laval invites applications at the level of assistant (tenure-track), associate or full professor in systematics of vascular plants, bryophytes or lichens. The selected candidate will be appointed curator of the Louis-Marie Herbarium. The candidate will teach botany and plant systematics and develop an active research program in plant phylogeny, which may include a biogeographic approach and the use of genomic tools. He or she is

expected to recruit and supervise graduate students. The candidate will ensure the development and promotion of the Herbarium and oversee the work of the Herbarium staff.

Applicants should have a Ph.D. in biological sciences or exceptionally, in the process of being completed. Postdoctoral experience is desirable. Established researchers are welcome to apply.

The appointee is expected to teach in French after a year, to possess an excellent publication record, and to demonstrate strong teaching abilities at all levels (e.g. introductory plant diversity and graduate course in plant taxonomy/systematics).

Université Laval has an affirmative action policy committed to reducing gender imbalance; qualified women are strongly encouraged to apply. Closing date: December 15, 2014. Starting date: September 1, 2015. Eligible candidates should submit a letter describing their qualifications and motivation for the position, a CV, and relevant publications to Line Lapointe, Chair, Département de biologie, Université Laval, Québec, QC G1V 0A6. FAX: 418-656-2043, directeur@bio.ulaval.ca. The letter of intent should describe the research interests and teaching philosophy of the candidate as well as propose a development plan for the Herbarium over the next ten years. The name and address of three potential referees should be included in the CV.

Le Département de biologie de l'Université Laval sollicite des candidatures pour un poste régulier de professeure ou de professeur (adjoint, agrégé ou titulaire) en systématique des plantes vasculaires, des bryophytes ou des lichens, auquel est assorti le poste de conservateur de l'Herbier Louis-Marie. Le candidat ou la candidate devra enseigner la botanique et la systématique végétale, développer un programme de recherche indépendant et subventionné dans le domaine de la phylogénie, pouvant inclure une approche biogéographique et les outils de la génomique. Il ou elle devra contribuer significativement au recrutement et à la formation d'étudiants aux 2e et 3e cycles. Il ou elle devra de plus assumer la gestion de l'Herbier Louis-Marie et de son personnel, poursuivre son développement et en faire activement la promotion.

Formation et compétence requises : doctorat en sciences biologiques (ou de manière exceptionnelle, en voie d'obtention); expérience postdoctorale souhaitable. Les candidatures de chercheurs établis sont les bienvenues.

Exigences : - Enseigner en français dans un délai d'un an. - Posséder un excellent dossier de publications et de recherche. - Démontrer une capacité à offrir un enseignement dynamique aux trois cycles (dont un cours

d'introduction à la diversité végétale et un cours de taxinomie/systématique végétale)

L'Université a une politique d'équité en matière d'emploi. Les femmes sont donc fortement encouragées à poser leur candidature. Date de clôture : 15 décembre 2014. Le candidat ou la candidate doit entrer en poste au plus tard le 1er septembre 2015. Les personnes intéressées doivent faire parvenir un dossier de candidature à : Line Lapointe, directrice, Département de biologie, Université Laval, Québec, QC G1V 0A6. Télécopieur: 418-656-2043, directeur@bio.ulaval.ca. Ce dossier doit comprendre une lettre de motivation et d'intention, un curriculum vitae détaillé et un exemplaire des publications les plus pertinentes. La lettre d'intention doit présenter les avenues d'enseignement et de recherche, ainsi qu'un plan de développement de l'Herbier Louis-Marie pour la prochaine décennie. Les noms et coordonnées de trois personnes pouvant fournir une lettre d'appui doivent également être inclus dans le curriculum vitae.

Louis Bernatchez, MSRC, FRSC

Chaire de recherche du Canada en Génomique et Conservation des Ressources Aquatiques Département de biologie, Institut de Biologie Intégrative et des Systèmes (IBIS) Pavillon Charles-Eugène-Marchand 1030, Avenue de la Médecine Local 1145 Université Laval Québec (Québec) G1V 0A6 Canada

Tél.: 1 418 656-3402 Téléc.: 1 418 656-7176 Courriel:Louis.Bernatchez@bio.ulaval.ca Web: <http://www.bio.ulaval.ca/louisbernatchez/> Louis Bernatchez <Louis.Bernatchez@bio.ulaval.ca>

LoyolaU Chicago EvolutionaryMorphology

Job Title: Assistant Professor of Biology

Background: Loyola University Chicago (LUC), College of Arts & Sciences, Department of Biology, seeks qualified candidates for a newly authorized tenure-track Assistant Professor position in evolutionary morphology beginning in the 2015-2016 academic year. The Department of Biology has 41 full-time faculty serving over 1,600 majors and students from associated university programs at the Lake Shore Campus on Chicago's north shore. The department also has two graduate programs, an MS degree program (30 students) and a post-baccalaureate Masters of Arts in Medical Sci-

ences (55 students) program. For more information on the department, please visit its web site at <http://www.luc.edu/biology>. Duties and Responsibilities: The successful candidate will be expected to run a productive research laboratory, involve undergraduate and graduate students in their research, and be competitive for external funding. The incumbent will also teach two courses per semester including a course in Human Anatomy and Physiology and courses in their area of expertise. We are particularly interested in researchers in the areas of functional morphology and/or development and evolution, although other research specialties consistent with teaching anatomy and physiology are also welcome.

Minimum Qualifications: The successful candidate for this position will have a PhD, postdoctoral research experience, experience in research, and strong potential for teaching at the college level. Candidates also should be willing to support the mission of LUC and the goals of a Jesuit Catholic Education.

Special Instructions to Applicants: Applicants should submit, by November 15, 2014, a current Curriculum Vitae, a research statement, a teaching statement, including courses they are prepared to teach, and a letter of interest to www.careers.luc.edu. They should provide the names and addresses of three individuals prepared to advise on their professional qualifications for this position. References will not be contacted immediately but may be consulted at subsequent points in the review process.

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

Applications received before November 15, 2014 will receive full consideration.

LUC is an Equal Opportunity/Affirmative Action employer with a strong commitment to hiring for our mission and diversifying our faculty. As a Jesuit Catholic institution of higher education, we seek candidates who will contribute to our strategic plan to deliver a Transformative Education in the Jesuit tradition. In order to gain a clearer understanding of LUC's mission, candidates should consult our website at <http://www.luc.edu/mission/missionandidentity.shtml>. For information about the university's focus on transformative education, they should consult our website at <http://www.luc.edu/transformatived>. Applications from women, minorities, veterans, and persons with disabilities are especially encouraged.

sreddy6luc@gmail.com

LoyolaU Chicago Genomics

Biology and Computer Science Departments: Genomics

Job Title: Assistant Professor in Computational Biology

Background: The Departments of Biology and Computer Science at Loyola University Chicago invite applications for a full-time tenure-track position at the rank of Assistant Professor with expertise in genomics research and the use of big data analytics for academic year 2015-2016.

The Department of Biology has 40 full-time faculty serving over 1600 majors along with students from associated university programs at the Lake Shore Campus on Chicago's north side. The department has 30 students in its MS program and 55 Masters of Arts in Medical Sciences post-baccalaureate students. For more information on the department please visit its web site at www.luc.edu/biology. The Department of Computer Science has 11 full-time faculty serving about 270 undergraduate majors and 135 MS students at the Lake Shore Campus and the Water Tower Campus in the heart of Chicago's Magnificent Mile. For more information on the department, please visit www.luc.edu/cs. The new computational biologist will support a growing Bioinformatics Interdisciplinary Major offered through the Biology and Computer Science departments. The Bioinformatics Program has 25 faculty serving over 60 undergraduate majors. For more information on the program, please visit www.luc.edu/bioinformatics. Duties and Responsibilities: This position involves teaching 2 courses per semester split between the Computer Science and Biology Departments. Candidates for the position must clearly demonstrate the potential for excellence in research and teaching, distinguished scholarship, grant-funded research, and student mentorship. Experience working or conducting research in the area of next-generation sequencing is desirable.

Minimum Qualifications: The successful applicant will have a PhD in Bioinformatics, Genetics and Genomics, Computational Biology, Computer Science, or related fields, and a strong commitment to excellence in teaching at all levels.

Special Instructions to Applicants: Applicants should submit a current Curriculum Vitae, research and teaching statements, and a letter of interest to

www.careers.luc.edu. They should provide the names and addresses of three individuals prepared to advise on their professional qualifications for this position. References will not be contacted immediately but may be consulted at subsequent points in the review process.

Review of applications will begin immediately and continue until the position is filled. Applications received before December 1, 2014 will receive full consideration.

LUC is an Equal Opportunity/Affirmative Action employer with a strong commitment to hiring for our mission and diversifying our faculty. As a Jesuit Catholic institution of higher education, we seek candidates who will contribute to our strategic plan to deliver a Transformative Education in the Jesuit tradition. In order to gain a clearer understanding of LUC's mission, candidates should consult our website at <http://www.luc.edu/mission/missionandidentity.shtml>. For information about the university's focus on transformative education, they should consult our website at <http://www.luc.edu/transformatived>. Applications from women and minority candidates are especially encouraged.

sreddy6luc@gmail.com

MartinLutherU InsectPopulationGenomics

Lecturer in population genomics of social insects

Fix term position (01.01.2015-30.9.2017)

in the molecular ecology research group at the Martin-Luther-University Halle-Wittenberg.

We are seeking a person with a PhD in population genetics of insects with proven experience in theoretical and empirical research. The successful candidate will be familiar with state of the art genomic techniques and the analyses of genomic/transcriptomic data. Excellent command of the English language in both writing and speaking is essential. Knowledge of German is a benefit.

The successful candidate will oversee the population genetics laboratory of the group and participate in teaching activities in ecology and population genetics at the BSc/ MSc/PhD. It is expected that the candidate establishes an own field of research and recruits appropriate outside funding. The group has excellent laboratory facilities with all state of the art equipment including a

next generation sequencing platform.

The research focus of the group is on evolutionary biology of social bees with the honeybee being used as the model system for many studies. A detailed research profile can be found at <http://www.mol-ecol.uni-halle.de/> More detailed information can be obtained by Prof. Dr. Dr. hc Robin F. A. Moritz, Tel: 0049-(0)-345 55-26223, E-Mail: robin.moritz@zoologie.uni-halle.de

Please submit your application before Oct 21. 2014 referring to Reg.-Nr.: 5-7112/14-H together with your CV, transcripts, publication list, names of three referees by e-mail to : robin.moritz@zoologie.uni-halle.de or in hard copy to

Prof. Dr. Dr. hc. Robin F. A. Moritz, Abt. Molekulare Ökologie, Institut für Biologie/Zoologie, Martin-Luther-Universität Halle-Wittenberg, Hoher Weg 4, 06120 Halle (Saale).

silvio.erler@zoologie.uni-halle.de

MichiganStateU QuantEvolution

Faculty Position in Quantitative Evolution or Ecology

Michigan State University

The interdisciplinary graduate program in Ecology, Evolutionary Biology & Behavior < <http://eebb.msu.edu/> > (EEBB) at Michigan State University (MSU) is seeking applications for a tenure-system Assistant Professor faculty position in *quantitative evolutionary biology or ecology*. The successful applicant will be able to demonstrate expertise and leadership in the study of fundamental questions in ecology, evolutionary biology, and/or behavior, establish an externally-funded research program that supports graduate training, and make significant contributions to both graduate and undergraduate teaching. Special consideration will be given to applicants who integrate empirical study of biological systems with cutting edge computational and quantitative methods. A competitive start-up and compensation package will be offered according to the applicant's experience and qualifications. MSU has additional resources, as part of an Excellence Hiring Initiative, to recruit exceptional candidates at the Associate and Full Professor levels, especially those who would strengthen the impact and diversity of our research and teaching programs.

With 136 graduate students and over 100 participating faculty, EEBB at MSU is one of the most successful graduate training programs in the world. The EEBB core curriculum provides students with broad training encompassing experimental, field, and theoretical approaches to the study of ecology, evolutionary biology, and behavior, as well as the computational, mathematical, and statistical methods used in these fields. The successful applicant will contribute to teaching in the EEBB core curriculum, and in the graduate and undergraduate programs of his or her home department. Depending upon research interests and programmatic fit, the successful applicant will have a tenure home in one of the following academic departments: Plant Biology < <http://www.plantbiology.msu.edu/> >, Microbiology and Molecular Genetics < <http://www.mmg.msu.edu/> > and Zoology < <http://www.zoology.msu.edu/> >. This new faculty member will also have the opportunity to participate in the NSF-funded BEACON Center for the Study of Evolution in Action < <http://beacon-center.org/> >.

MSU is an affirmative action, equal opportunity employer, committed to achieving excellence through a diverse workforce and an inclusive culture that encourages all people to reach their full potential. We actively encourage applications and/or nominations of women, persons of color, veterans, persons with disabilities and individuals who can contribute to the intellectual diversity and cultural richness at Michigan State University. MSU is committed to providing a work environment that supports employees' work and personal life, and offers employment assistance to the spouse or partner of candidates for faculty and academic staff positions.

Application materials should be submitted to the MSU Applicant Page (MAP) for faculty positions (online at <https://jobs.msu.edu> < <https://jobs.msu.edu/> >; posting number 0194) as a single, concatenated pdf document that includes: a letter of interest, CV, a statement of research accomplishments and goals, and a statement of teaching accomplishments and goals. The research and teaching statements should highlight the applicant's approach to achieving excellence through diversity. Three letters of recommendation should be submitted through the automated MAP/COMPASS web site. A separate pdf file containing three representative publications should be sent directly to the Search Committee at eebbsrch@msu.edu.

Applications will be accepted until the position is filled. Review of applications will begin on 3 November 2014.

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Questions can be addressed to the Search Committee Chair (Fred Dyer) at eebbsrch@msu.edu.

Ecology, Evolutionary Biology and Behavior Program
Kay E. Holekamp, Director Pat Resler, Secretary

293 Farm Lane, Rm. 103 Giltner Michigan State University East Lansing, MI 48824

Phone: (517) 432-1359 E-mail: eebb@msu.edu Website:
www.eebb.msu.edu EEBB Office <eebb@msu.edu>

MichiganTechU MicrobialEvolution

The Department of Biological Sciences at Michigan Technological University invites applications for a tenure-track Assistant Professor position in microbiology, with particular focus in environmental microbiology or microbial ecology. Areas of research interest may include: microbial genomics or evolution, community dynamics, nutrient cycling, environmental toxicology, remediation and restoration, and host-microbe interactions. Job expectations include establishing an externally funded research program complementary to the interests of the department and university and successful teaching at the undergraduate and graduate levels in area of expertise. Applicants must hold a Ph.D. in microbiology or a related field and post-doctoral experience is strongly preferred.

Additional information about this position, the Biological Sciences Department and its programs can be found at website: www.mtu.edu/biological/. Applications should be submitted electronically to www.jobs.mtu.edu/posting/1898. For consideration, the application should include: 1) curriculum vitae; 2) research statement (maximum 2 pages); 3) statement of teaching interests and philosophy (maximum 2 pages), 4) complete contact information for 4 references. Applications are due at 5 pm EST October 13, 2014. Direct inquires to Microbiology Search Committee Chair (microbiosearch@mtu.edu).

Michigan Tech is an ADVANCE institution, located in the Upper Peninsula of Michigan, one of a limited number of universities in receipt of NSF funds in support of our commitment to increase diversity and the participation and advancement of women in STEM. Michigan Tech. acknowledges the importance of supporting dual career partners in attracting and retaining a quality workforce. Visit: www.dual.mtu.edu < <http://www.dual.mtu.edu> >. Michigan Technological Uni-

versity is an Equal Opportunity Educational Institution/Equal Opportunity Employer, which includes providing equal opportunity for protected veterans and individuals with disabilities.

Erika Hersch-Green <eherschg@mtu.edu>

NHM LosAngelesCounty Curator

Curator, Rancho La Brea The Natural History Museum of Los Angeles County (NHM) seeks a Curator for its renowned late Pleistocene Rancho La Brea collections housed at the Page Museum at the La Brea Tar Pits. The successful candidate will conduct collection-based research in evolutionary biology and paleoecology including systematics, biogeography, climate change, and biodiversity science. The NHM, the largest natural history museum in the western United States, has recently finished a dramatic transformation including new ground-breaking exhibitions and a 3 ½ acre wildlife garden. It anticipates completing a similar transformation at the Page Museum facility and adjacent La Brea Tar Pits during the next decade. The NHM's mission is to inspire wonder, discovery, and responsibility for our natural and cultural worlds. Our strategic intent- "To be the best at communicating how our planet and life on it changes over time and why this matters"- guides our priorities for the next decade. The successful candidate will have a record of outstanding research and publications as well as excellent communication skills, a talent for collaboration across disciplines and an innate ability to engage and enthuse the public and stakeholders through his/her work.

The Page Museum is the site museum for the La Brea Tar Pits, one of the world's richest Ice Age fossil sites that has to date yielded an estimated 5 million specimens representing more than 600 species of animals and plants of Late Pleistocene 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 and Exhibits, Marketing and Communi-

cations, 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. His/her demonstrated talent for successful public communications will enhance collaborations with non-scientists in the NHM's Education and Exhibits, Marketing and Communications and Advancement Departments. Experience in collections management would be an advantage, as would an interest in creative ways of engaging the public in research (e.g., citizen science). The Curator will be expected to develop an active and publically engaging research program, develop working relationships with local universities, mentor students and post-doctoral fellows, and maintain research through obtaining competitive 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 NHM's ongoing efforts to document and interpret biotic responses to environmental change. He/she 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 NHM's various stakeholders is paramount. The successful candidate will be expected to help oversee staff and supervise the NHM's Rancho La Brea program including the collections and excavations. He/she 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 Page Museum at the La Brea Tar Pits. 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.

This is a full-time position with a salary and title commensurate with experience, plus excellent benefits.

Application deadline is December 1st, 2014. The starting date is July 1st, 2015. Applicants should send a cover letter, curriculum vitae, salary history, and the full contact information of at least three professional references to thayden@nhm.org, Page 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.

Tyler W. Hayden Administrative Assistant Research and Collectins Natural History Museum of Los Angeles County 900 Exposition Boulevard Los Angeles, CA 90007

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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>

NMNH Smithsonian VertebrateEvolution

Research Zoologist Department of Vertebrate Zoology
National Museum of Natural History Smithsonian Institution

Potential applicants: Please note that with this advertisement we seek to recruit a career Research Zoologist for our department. The position has a four-year probationary period similar to the academic tenure system. With a satisfactory career review after four years, the incumbent can become a permanent Federal employee. The official advertisement is below.

The Smithsonian's National Museum of Natural History seeks a zoologist to conduct an integrative, specimen- or collection-based research program in vertebrate evolution and biodiversity, in the disciplines of herpetology, ichthyology, mammalogy, and/or ornithology, particularly herpetology. The successful candidate is expected to develop an internationally recognized research program that makes important contributions to understanding vertebrate evolution and biodiversity through integrative research involving phylogenetics, anatomy, development, genomics, biogeography, conservation, informatics, or related fields. Frequent publication of highly regarded papers in competitive, peer-reviewed journals, curation of collections in specialty area, service to the scientific community in leadership capacities, acquisition of external funding, engagement in outreach activities, and mentorship of students are expected.

Full-time 4-year term appointment with full Government benefits to be filled at the GS-12 level; US citizenship required. The museum's authorized salary range for this position at this time is \$75,621 - \$80,662 per annum. College transcripts and proof of U.S. ac-

creditation for foreign study must be submitted online by the closing date of announcement or your application will be disqualified. For complete requirements and application procedures go to www.sihr.si.edu or www.usajobs.gov and refer to Announcement 14A-JW-299546-DEU-NMNH. The announcement opens Monday, September 29, 2014. Applications and all supporting documentation must be received on-line by Monday, October 27, 2014 and must reference the announcement number. All applicants will be notified by email when their application is received. The Smithsonian Institution is an Equal Opportunity Employer.

Thanks very much,

Helen James Research Zoologist and Curator Division of Birds, MRC-116 National Museum of Natural History Smithsonian Institution Washington DC 20013-7012 Ph. 202-633-0792

“James, Helen” <JAMESH@si.edu>

North Carolina MNS Ichthyology Curator 2

The position (Research Curator, Ichthyology at the NC Museum of Natural Sciences) will be re-opened for only a brief time (10 days), and previous applicants must re-apply.

Thank you!

Jason

Job Class Title: Natural Science Research Curator II
Working Title: Research Curator, Ichthyology
Position Number: 60034991 Department: Dept of Environment & Natural Resource Division/Section: NC Museum of Natural Sciences/Research and Collections
Salary Range: \$42,667.00 - \$69,177.00 Annually
Recruitment Range: \$42,667 - \$53,437 Salary Grade / Salary Grade Equivalent: 72 Appointment Type: Permanent Full-Time Pos. Location: Wake County, North Carolina
Opening Date: Thu. 10/09/14 Closing Date/Time: Sat. 10/18/14 5:00 PM Eastern Time

THIS IS A REPOST. PREVIOUS APPLICANTS MUST RE-APPLY TO BE CONSIDERED.

This position is located in Raleigh, North Carolina at the NC Museum of Natural Sciences, an award-winning major institution with a prominent State-wide, national and international profile. This key position is in the Museum's Research & Collections section and is located

at the Museum's Research Laboratory, approximately 15 minutes away from the downtown Raleigh Museum buildings.

This position of Research Curator, Ichthyology, has several areas of responsibility, including: 1. Development of original scientific research programs in ichthyological systematics (taxonomy, phylogenetics), genomics, ecology, and/or related fields; research programs may have local, regional, and/or international focus and will include pursuit of external research funding, data generation and analyses, and publication/dissemination of results; some aspects of this research should, ideally, include collaborations with other agencies, universities, and/or citizen scientists. 2. Curatorial responsibilities for the Ichthyology Research Collection, including maintenance and growth of collection, migrating collections data to database format, specimen loan activities, and setting curatorial best-practice guidelines for collection. 3. Operational management and administration of the Ichthyology unit, a subdivision of the Research & Collections section; duties include supervision of laboratory with oversight of equipment, budgets, and personnel. 4. Participation in science communication initiatives, including participation in Museum educational programming, delivering public science-based presentations, interacting with Museum visitors, serving as a role model for students and citizen scientists, and creating programmatic themes that raise the science literacy of visitors.

Knowledge, Skills and Abilities / Competencies: **To receive credit for your work history and credentials, you must list the information on the application form. Any information omitted from the application form, listed under the text resume section, or on an attachment will not be considered for qualifying credit**

A successful candidate will have the following knowledge, skills and abilities:

(1) Taxonomic/systematic expertise in Ichthyology (2) Experience applying principles and practices of research, with special expertise in at least one aspect of fish systematics (taxonomy, phylogenetics), genomics, ecology, and/or related fields. (3) Experience with specimen collections and/or curatorial activities. (4) Experience in science communications to diverse audiences (i.e., academic and/or public presentations, academic journal publications and/or experience with popular media). (5) Experience in preparing grant proposals to fund biological research and/or administering budgets supporting research or collections-related activities.

Minimum Education and Experience Requirements: Possession of a master's degree in biology, zoology, or a science curriculum related to area of expertise and three

years of experience in specialty area; or an equivalent combination of education and experience.

Preferred: A Ph.D. in biology, zoology, or related science field.

Supplemental and Contact Information: To apply for this position, please click APPLY link above. All relevant experience must be included on application to receive proper credit. Resumes are not accepted in lieu of state application.

Persons eligible for veteran preference must submit a copy of Form DD-214.

DENR uses the Merit-Based Recruitment and Selection Plan to fill positions subject to the State Personnel Act with the most qualified applicants. When a salary range is posted, the actual salary will be based on relevant competencies, knowledge, skills and abilities, internal equity and budgetary considerations pertinent to the advertised position. The State of North Carolina is an Equal Opportunity Employer.

For additional information, please contact: Eileen Head(919) 707-9819 or Eileen.head@naturalsciences.org

Jason R. Cryan, Ph.D. Deputy Museum Director, Research & Collections North Carolina Museum of Natural Sciences 11 W. Jones Street Raleigh, NC 27601

Phone: (919) 707-9933

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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>

OklahomaU Evolutionary Adaptation

Applications from researchers employing evolutionary and ecological approaches are encouraged for the following three positions.

Cluster Hire in Geographic Ecology: three positions at the rank of Assistant, Associate, or Full Professor <http://GE.ou.edu> The Department of Biology at the University of Oklahoma invites applications for three tenured/tenure-track faculty positions at any rank, beginning in fall 2015. We are searching for creative, collaborative thinkers who use integrative approaches to

address fundamental ecological questions at regional to global scales. Our ultimate goal is to enhance our expertise in geographical and aquatic ecology toward predicting ecological and evolutionary responses to global change. The search is open to theoretical, lab, and field biologists working on any taxa. In this cluster hire, we seek:

* A Geographical Ecologist who studies phenomena at multiple spatial scales toward understanding large-scale patterns and processes. Innovators in biogeography, macroecology, bioinformatics, and global ecology are especially encouraged to apply. * An Aquatic Ecologist who studies freshwater ecosystems toward predicting the role of changing water supplies on ecosystem services. Innovators in biogeochemistry, ecological networks, ecological genomics, river-reservoir systems and land-water interactions are especially encouraged to apply. * A Physiological Ecologist who studies the origin and maintenance of ecological traits and their ultimate role in the dynamics of population and ecosystem responses to a changing environment. Innovators studying traits involved in metabolic, stoichiometric, thermal and water-related variation and adaptation are especially encouraged to apply.

We are especially interested in candidates who use or combine some of the following three approaches in their work. The first is development and/or testing of models and theory that connect phenomena at scales from local to global. The second is an integrative use of data-from gene frequencies to biogeochemistry, species distributions to climate past and future, functional traits to landscapes-to advance theory and identify novel patterns and processes. The third is a desire to apply this research to ameliorating outstanding ecological problems, including climate change, biodiversity loss, dwindling water supplies, and the degradation of ecosystem services.

The University of Oklahoma is committed to building an international center of excellence exploring the geographical ecology of our evolving biosphere. Successful candidates will join colleagues across campus, including cluster hires in the EPSCoR initiative Adapting socio-ecological systems to increased climate variability. Our shared goal is to build theoretical and empirical bridges across the sciences, to predict the interplay between biotic and climatic changes, and to better steward our natural resources and services. Join us.

How to Apply Successful candidates will have a Ph.D. degree and a record of outstanding achievement as evidenced by publications. Preferred candidates will have a promising (assistant) or externally funded (associate/full) research program and the ability to lead

interdisciplinary, multi-investigator projects across a range of geographic scales. Each individual will be expected to provide excellent training for graduate students and postdocs, and contribute to undergraduate and graduate teaching (one course per semester) in the department.

Applicants should submit a cover letter, complete curriculum vitae, research and teaching statements, and selected reprints/preprints as PDF files to Chair, Geographical Ecology Search Committee, at biologyjobs@ou.edu. Applicants should also arrange to have three signed letters of reference sent to biologyjobs@ou.edu or Department of Biology, 730 Van Vleet Oval, University of Oklahoma, Norman, OK 73019, USA. Applicants at the rank of Associate Professor or Professor may submit names and contact information for three references in lieu of letters. Visit us at <http://biology.ou.edu>. Screening of candidates will begin 3 December 2014 and will continue until the positions are filled.

The University of Oklahoma is an Affirmative Action/Equal Opportunity employer and encourages diversity in the workplace. Protected veterans and individuals with disabilities are encouraged to apply.

“Knapp, Rosemary” <rknapp@ou.edu>

OldDominionU PlantEvolution

OLD DOMINION UNIVERSITY J.ROBERT STIFFLER ENDOWED PROFESSORSHIP IN PLANT SCIENCE

The Department of Biological Sciences at Old Dominion University (<http://web.odu.edu/scilbiology/index.html>), a state-supported Doctoral Research-Extensive institution invites applications and nominations for the endowed J. Robert Stiffler Professorship of Plant Science at the tenured/tenure track Professor or Associate Professor level. All candidates must demonstrate substantial research accomplishments with an established record of publications, a consistent record of independent peer-reviewed funding, have active competitive grants and a strong and successful graduate and undergraduate teaching and student mentoring record. Candidates with research programs and teaching expertise in one or more of the following areas are preferred: (1) molecular systematics, (2) plant conservation biology, (3) biogeography and/or phytogeography, (4) plant/animal interactions, and/or (5) eth-

nobotany. Experience in advanced genomics or transcriptomics is desirable. The ideal candidate will be active in university undergraduate and graduate programs, utilizing resources from the Norfolk Botanical Garden. Research related to the objectives Kaplan Orchid Conservatory and/or Blackwater Ecological Preserve is desirable. Applicants must have a Ph.D. or an equivalent degree in Plant Science, Botany or a closely related field. State salary support, funds from the endowment income of the J. Robert Stiffler Professorship and a competitive start-up package are available. The Department of Biological Sciences receives substantial support from state funds, from research grants from federal and other granting agencies and from endowment income funds. The Department has strong Ph.D. and M.S. graduate programs with over 100 students. The College of Sciences and the Department of Biological Sciences are undergoing a major expansion of research and educational programs. Five new faculty members joined the Department of Biological Sciences over the last two years and active searches for two additional faculty positions are in progress. Research and training grant expenditures increased in the College of Sciences by 44% over seven years to approximately \$16M in FY 2013-14. Old Dominion University (www.odu.edu) is a state-supported, Carnegie doctoral research extensive institution enrolling approximately 25,000 students including 5,000 graduate students.

Please submit electronically a curriculum vitae, a statement of research and teaching interests, and names, telephone numbers, and addresses (postal and email) of four references to: Professor Lytton John Musselman, Mary Payne Hogan Professor of Botany, Chair, Stiffler Search Committee at hortssearch@odu.edu Review of applications will begin immediately and continue until the position is filled.

Old Dominion University is an Affirmative Action/Equal Opportunity Institution and requires compliance with the Immigration Reform and Control Act of 1986.

Daniel P. Hennelly Old Dominion University Office of Academic Affairs 2021 Koch Hall Norfolk, VA 23529-0011 Phone: 757 683-4559 FAX: 757 683-6888

“Hennelly, Daniel P.” <dhennell@odu.edu>

Philadelphia BiodiversityLabTech

BIODIVERSITY LABORATORY SPECIALIST

(PHILADELPHIA)

The Center for Biodiversity at Temple University (Philadelphia) is interested in hiring a Biodiversity Laboratory Specialist. The successful applicant will be responsible for organizing and carrying out research in biodiversity, specifically to maintain a molecular biology laboratory including a frozen tissue collection, collect and analyze DNA sequence data from a diversity of vertebrate species (mostly amphibians and reptiles), and to assist the center and work with students and other users of the laboratory. The successful candidate will also work with whole organisms, the databasing of collections, and organization of project data. A bachelor's or master's degree is preferred.

The Center for Biodiversity is located in the new Science, Education, and Research Center (SERC building) on Temple's main campus (<http://cst.temple.edu/-research/centers-and-institutes/center-biodiversity>). Interested persons should send an e-mail to temple.biodiversity@gmail.com, stating their interest in this position, and attach a curriculum vitae that also contains contact information for three references. The e-mail may be addressed to the director, S. Blair Hedges (<http://www.hedgeslab.org/>). Review of applications will begin on November 1 and continue until the position is filled.

Temple University is located in the heart of historic Philadelphia and is the sixth largest provider of graduate school education in the USA. Situated in close proximity to New York City and Washington DC, Philadelphia is the birthplace of America and home to many academic and research institutions as well as numerous cultural attractions.

sbh@temple.edu

Philadelphia MultimediaSpecialist

MULTIMEDIA SPECIALIST (PHILADELPHIA)

The Center for Biodiversity at Temple University (Philadelphia) is interested in hiring a Multimedia Specialist. Duties include, but are not limited to, graphics illustration for publication, image and video editing, web site design and editing, and assisting the center in other activities. The successful applicant should be proficient in multimedia design and production, and familiarity with web programming (HTML and/or PHP coding) is preferred. A bachelor's degree is preferred.

The Center for Biodiversity is located in the new Science, Education, and Research Center (SERC building) on Temple's main campus (<http://cst.temple.edu/-research/centers-and-institutes/center-biodiversity>).

Interested persons should send an e-mail to temple.biodiversity@gmail.com, stating their interest in this position, and attach a curriculum vitae that also contains contact information for three references. The e-mail may be addressed to the director, S. Blair Hedges (<http://www.hedgeslab.org/>). Review of applications will begin on November 1 and continue until the position is filled.

Temple University is located in the heart of historic Philadelphia and is the sixth largest provider of graduate school education in the USA. Situated in close proximity to New York City and Washington DC, Philadelphia is the birthplace of America and home to many academic and research institutions as well as numerous cultural attractions.

sbh@temple.edu

PrincetonU LabTech BehaviourEvolution

RESEARCH TECHNICIAN POSITION AVAILABLE

McBride Lab Dept. Ecology & Evolutionary Biology and Princeton Neuroscience Institute Princeton University

The laboratory of Carolyn (Lindy) McBride at Princeton University is seeking a technician to support research on the molecular, neural, and evolutionary basis of host-seeking behavior in a recently evolved form of the dengue fever mosquito that specializes in biting humans. This is a unique opportunity to assist in exciting research on mosquitoes and help start a research laboratory from the ground up. Individuals looking for a research opportunity before applying to graduate school are encouraged to apply.

Responsibilities - Mosquito breeding, transgenics, and behavioral experiments - Molecular genetic and neuroscientific studies using techniques such as DNA and RNA extraction, cloning, PCR based genotyping, library preparation for next-gen sequencing, microscopy, and/or electrophysiology - General maintenance and development of the research lab, including purchasing, organization, and the training of undergraduate and graduate students - Participation in laboratory meet-

ings and planning sessions

Essential Qualifications The interested candidate should have a bachelor's degree in biology or related field and previous experience in a research laboratory (beyond lab classes). Previous experience rearing insects and carrying out molecular biology protocols in a research setting is strongly preferred. A demonstrated interest in evolution, neuroscience, and/or genetics is also preferred. It is absolutely essential that candidates be highly organized, detail-oriented, and demonstrate enthusiasm for working and communicating with others in a collaborative lab setting.

Applications Please apply online at <https://jobs.princeton.edu> (requisition #1400714) and/or send the following in a single pdf file to esm7@princeton.edu:
– Cover letter explaining your qualifications and interest in the position – CV – Names and contact information for 3 references

esm7@princeton.edu

PurdueU PlantAdaptation

Purdue University, West Lafayette, Indiana, invites applications from outstanding basic scientists for five tenure-track assistant professor positions that will be part of a new Center for Molecular Agriculture. With the establishment of this Center, we aim to build a team of scientists that will cooperatively address grand challenges in plant biology including, but not limited to, the molecular basis of complex traits, genome interactions with the biotic and abiotic environment, the role of metabolic and cellular processes in determining phenotypes, and the molecular/genetic basis for developmental plasticity and adaptation in changing environments. We seek individuals with vigorous and innovative research programs that address fundamental questions in plant biology and who are eager to be part of an interdisciplinary team that will discover basic principles that may contribute to improving agricultural productivity and sustainability on regional, national, and international scales. Candidates utilizing computational/modeling approaches; biosensor/imaging technologies; and working on molecular, organismal or ecosystem levels are all encouraged to apply. The successful candidates will be expected to develop internationally recognized and extramurally funded scholarly research programs, interact with diverse faculty across the Purdue campus, teach undergraduate and graduate

level courses and excel in doing so, and function as active and involved members of the Center. This is an academic year appointment.

The Center is part of the Plant Sciences Research and Education Pipeline, which also includes facilities for genome editing, plant transformation, high-throughput phenotyping, and a plant commercialization incubator. Purdue is home to a dynamic research community of basic and applied plant scientists in the College of Agriculture and across the University. The Center is located in the newly renovated Lilly Hall with excellent modern lab space and plant-growth facilities. Facilities for field-based research are available near campus and throughout the state. Core facilities for genomics, bioinformatics, microscopy, metabolomics, and proteomics are available. Discovery Park promotes interdisciplinary research interactions and provides access to advanced analytical technologies and expertise.

The Center is an integral part of the College of Agriculture, one of the world's leading colleges of agricultural, food, life, and natural resource sciences and ranked number 8 globally in the 2014 QS World University Rankings. The College is deeply committed to the three land-grant missions (teaching, research, and extension), to international activities and perspectives that span all missions, and to supporting a diverse and inclusive environment focused on excellence in all we do. Purdue is an ADVANCE institution - www.purdue.edu/dp/advance. The College has 11 academic departments and includes 330 faculty, 2710 undergraduate students, and 685 graduate students. The College's strategic plan can be accessed at <https://www2.ag.purdue.edu/Pages/strategicplan.aspx>. Applicants should have a Ph.D. in life, computational, or physical sciences, preferably with at least two years of post-doctoral experience or its equivalent, a strong publication record, the potential to develop a vigorous, extramurally funded research program, and a commitment to both hypothesis-driven research and teaching excellence. Applications should be submitted electronically to molecularag@purdue.edu and must include a cover letter, curriculum vitae, two-page summary of research interests, statement of teaching objectives/interests, and the names and contact information for three references. Screening of applications will begin December 1, 2014 and will continue until the positions are filled. A background check is required for employment in this position.

Purdue University is an Equal Opportunity/Equal Access/Affirmative Action Employer fully committed to achieving a diverse workforce. All individuals, including minorities, women, individuals with disabilities, and protected veterans are encouraged to apply.

Meredith Cobb Operations Manager, Agricultural Research at Purdue Biochemistry Building, Rm. 119 175 S. University Street West Lafayette, IN 47907 Phone: 765-494-3951

“Cobb, Meredith L.” <mcobb2@purdue.edu>

QueensU EvolutionaryTheory

The Department of Mathematics and Statistics, Faculty of Arts and Science at Queen’s University is seeking outstanding candidates for at least one and, subject to budgetary approval, up to three Tenure-track faculty positions at the rank of Assistant Professor, with a starting date of July 1, 2015. Candidates from all areas of mathematics and statistics are invited to apply.

Candidates must have a PhD or an equivalent degree at the start date of the appointment. The successful candidate(s) will provide evidence of high quality scholarly output that demonstrates potential for independent research leading to peer assessed publications, as well as strong potential for outstanding teaching contributions at both the undergraduate and graduate levels, and an ongoing commitment to academic and pedagogical excellence in support of the department’s programs. The successful candidate(s) will be expected to work in areas of study that complement areas already represented in the department (see <http://www.mast.queensu.ca/>), and to demonstrate evidence of an ability to work in an interdisciplinary, collaborative environment. They will also be expected to make substantive contributions through service to the Department, to the Faculty of Arts & Science, to the University, and/or the broader community. Salary is commensurate with qualifications and experience.

The University invites applications from all qualified individuals. Queen’s is committed to employment equity and diversity in the workplace and welcomes applications from women, visible minorities, Aboriginal people, persons with disabilities, and persons of any sexual orientation or gender identity. All candidates are encouraged to apply; however, in accordance with Canadian Immigration requirements, Canadian citizens and Permanent Residents of Canada will be given priority.

To comply with Federal laws, the University is obliged to gather statistical information about how many applicants for each job vacancy are Canadian citizens / permanent residents of Canada. Applicants need not identify their country of origin or citizenship, however,

all applications must include one of the following statements: “I am a Canadian citizen / permanent resident of Canada”; OR, “I am not a Canadian citizen / permanent resident of Canada”. Applications that do not include this information will be deemed incomplete.

A complete application consists of: a cover letter (including one of the two statements regarding Canadian citizenship / permanent resident status specified in the previous paragraph), a current Curriculum Vitae (including a list of publications), a statement of research interests, a statement of teaching interests and experience (including teaching outlines and evaluations if available), and at least four letters of reference (one of which addresses teaching abilities and/or potential).

Application materials, with the possible exception of recommendation letters, should be submitted through <http://www.mathjobs.org>. Recommendation letters may be uploaded directly on <http://www.mathjobs.org>, or sent by e-mail to position@mast.queensu.ca, or mailed to: the Department of Mathematics and Statistics, Jeffery Hall, University Ave., Kingston, ON Canada, K7L 3N6. In order to ensure full consideration, complete applications should be received by November 17, 2014.

The University will provide support in its recruitment processes to applicants with disabilities, including accommodation that takes into account an applicant’s accessibility needs. If you require accommodation during the interview process, please contact: the Department of Mathematics and Statistics, Marge Lambert, at lambertm@mast.queensu.ca, phone number 613- 533-2440.

Additional information about Queen’s University, which may be of interest to prospective faculty members, can be found at <http://www.queensu.ca/-facultyrecruitment> . Academic staff at Queen’s University are governed by a Collective Agreement between the Queen’s University Faculty Association (QUFA) and the University which is posted at <http://www.queensu.ca/provost/faculty/facultyrelations/-qufa/collectiveagreement.html> . troy.day@icloud.com

RowanU EvolutionaryPhysiologist

Below is an advertisement for an opening for a physiologist at Rowan University in Glassboro, NJ. This is a joint position shared by the Department of Biological Sciences and the new Department of Biomedical and

Translational Sciences. While the ad does not specifically mention evolution, candidates with research programs that employ evolutionary perspectives and methods to the study of organismal physiology and function are certainly of interest and encouraged to apply.

The Department of Biological Sciences in the College of Science and Mathematics and the Department of Biomedical & Translational Sciences in the School of Biomedical Science & Health Professions at Rowan University seek an outstanding scholar and teacher for a joint tenure-track Assistant Professor position. The successful candidate is expected to develop an externally funded research program in animal physiology; we are particularly interested in candidates that can enhance current university initiatives related to biomedical sciences. Candidates that study physiology at the organismal or organ system levels, including (but not limited to) biomechanics and functional morphology, endocrinology, systems physiology, and integrative physiology, are encouraged to apply. The successful candidate's research program should provide opportunities for undergraduate and possibly Master's student research, training, and mentoring. Teaching responsibilities will include a combination of courses drawn from the following: undergraduate Core Biology lab courses, upper-level Biology lab courses (such as Animal Physiology, Human Physiology, Comparative Biomechanics, or other courses in the applicant's area of expertise), and undergraduate courses in TBS. Applicants must have a doctoral or equivalent degree, post-doctoral experience, documented evidence of high-quality research productivity, and a strong commitment to excellent teaching at the undergraduate level. For more information, including instructions for submitting an electronic application, please visit <http://rowanuniversity.hodesiq.com/jobs/assistant-professor-biological-sciences-biomedical-translational-sciences-glassboro-new-jersey-job-4620235>. Three letters of recommendation should be sent via email directly to Ms. Tricia Joslin (joslin@rowan.edu) AND to Dr. Luke Holbrook (holbrook@rowan.edu). The application deadline is November 15, 2014.

"Holbrook, Luke T." <holbrook@rowan.edu>

Smithsonian Bioinformatics

The Office of Research Information Services (ORIS) of the Smithsonian Institution and the Smithsonian Institute for Biodiversity Genomics (SI BioGenomics)

are looking for suitable applicants for Bioinformatics/Computer Programming Support position(s). SI BioGenomics is an ambitious new initiative that will greatly expand the capacity and emphasis of genomics throughout all aspects of Smithsonian research and public outreach.

The applicant will work closely with the scientists, collaborators, and lab personnel of SI to design and/or implement algorithms and computational pipelines to process genomic sequencing datasets for population and quantitative genetics analysis or plant, animal, and microbe genome assembly. The applicant will work closely with the Technical Manager of ORIS to integrate these pipelines with the SIdora research data management system that is under construction in order to preserve information at appropriate points in the process as a part of the complete data record of research projects, as well as with other infrastructure improvements that are aimed at supporting SI BioGenomics.

Involvement with the scientific personnel from project conception, through experimental design and data generation and quality control will be pivotal in order to maximize the efficiency of data analysis and interpretation. The analyst may also be involved in the building and maintaining databases for management of biological samples, sequencing, phenotype, and genomic data. The position also involves writing reports, presenting research results at lab meetings and conferences in addition to publications, data management and dissemination, administration and maintenance of computational infrastructure, mentoring graduate and undergraduate students, and related tasks in support of research projects.

The position requires a Bachelor's degree in Bioinformatics, Computer Science, Evolutionary Biology, Genetics, or a related field. Experience with bioinformatics programming platforms and tools for processing and analysis of next generation sequencing data is required. The incumbent will demonstrate the ability to integrate across biological disciplines, identify and troubleshoot promising new methodologies independently, and be able to coordinate with multiple research staff concurrently to pursue diverse questions or types of analysis.

The ideal candidate will have a strong background in bioinformatic and computational analysis of NGS data, including comparative genomic analysis, and/or phylogenomics. Experience in evolutionary ecology and/or evolutionary genetics is a plus. Demonstrated expertise in programming and scripting (such as Unix and Perl and/or Python), a good understanding of high performance computing, and knowledge of probability theory are essential. Proficiency in C/C++, Javascript,

R, Perl, Python, Java, Matlab, and/or SQL is preferred. Experience with statistical analysis, morphometrics, cluster computing, IT support, and development of web applications is highly desirable.

Starting Salary: Negotiable and commensurate with experience, with a guaranteed 40-hr workweek for 52 weeks/year, including two weeks paid annual leave and 1 week of paid sick leave per year. Benefits also include health insurance with dental coverage and access to a 401K plan. It would also be possible to negotiate a consulting arrangement instead, if preferred. The position is full-time for one year, with further extension subject to satisfactory performance in the first year and availability of funding. Start date is negotiable, but preferred date is Nov. 1, 2014. Location: Smithsonian facilities in Washington D.C. and Herndon, VA.

For questions regarding this position, please contact Thornton Staples (StaplesT@si.edu) or Warren Johnson (johnsonwe@si.edu). To apply for the position, please submit by email a curriculum vitae and a cover letter that summarizes research interests and professional goals to StaplesT@si.edu .

Review of applications will begin immediately; however, the position(s) will remain open until filled.

JohnsonWE@si.edu

Smithsonian Institution Bioinformatics

Bioinformatic positions: The Office of Research Information Services (ORIS) of the Smithsonian Institution and the Smithsonian Institute for Biodiversity Genomics (SI BioGenomics) are looking for suitable applicants for BioInformatics/Computer Programming Support position(s). SI BioGenomics is an ambitious new initiative that will greatly expand the capacity and emphasis of genomics throughout all aspects of Smithsonian research and public outreach.

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The ideal candidate will have a strong background in bioinformatic and computational analysis of NGS data, including comparative genomic analysis, and/or phylogenomics. Experience in evolutionary ecology and/or evolutionary genetics is a plus. Demonstrated expertise in programming and scripting (such as Unix and Perl and/or Python), a good understanding of high performance computing, and knowledge of probability theory are essential. Proficiency in C/C++, Javascript, R, Perl, Python, Java, Matlab, and/or SQL is preferred. Experience with statistical analysis, morphometrics, cluster computing, IT support, and development of web applications is highly desirable.

Starting Salary: Negotiable and commensurate with experience, with a guaranteed 40-hr workweek for 52 weeks/year, including two weeks paid annual leave and 1 week of paid sick leave per year. Benefits also include health insurance with dental coverage and access to a 401K plan. It would also be possible to negotiate a consulting arrangement instead, if preferred. The position is full-time for one year, with further extension subject to satisfactory performance in the first year and availability of funding. Start date is negotiable, but preferred date is Nov. 1, 2014. Location: Smithsonian facilities

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Review of applications will begin immediately; however, the position(s) will remain open until filled.

JohnsonWE@si.edu

SouthAfrica ResAssist MouseEvolutionaryFitness

Blood Glucose Levels, Evolutionary Fitness and Cognition in free Ranging African Striped Mice

Paid Research Assistant Position (1 year)

What we are looking for: An extremely motivated and independent biology student who joins the striped mouse project for approximately one year from December 2014/Jan 2015 until the end of 2015 as a research assistant. Research assistants get free accommodation at the station, and R3500/month to cover their daily costs. Travel costs will be refunded by a maximum of 100 Euro/month based on the time spent at the research station. This would also be an opportunity for 2 external master students, who would only get part of their travel costs refunded (100 Euro/month), but would have to cover the daily costs of living themselves plus the costs of accommodation of R1550/month. Master students have to stay 6 months at the station, one for the first half and the other one the second half of 2015 (not simultaneously).

The job: Help in data collection for the project Eco-Physiology of Cognition, where we study how environmentally induced physiological change affects cognition. Help in all general duties at the research station and in general data collection for the long-term project <http://stripedmouse.com> . Project summary

As a consequence of global change, extreme environmental events threaten biodiversity, bringing about the 6th extinction, with the increase of drought periods being one major challenge. Droughts induce physiological mechanisms of fasting which might impair cognitive performances of animals, such as reaction time and spatial memory, both being important when having to re-

spond to predators. Fasting is often associated with a decrease in blood glucose levels and studies on humans indicate an influence of blood glucose levels on cognitive performance. The student will study African striped mice (*Rhabdomys pumilio*) in the field in South Africa at the Succulent Karoo Research Station. These mice live in a semi-desert and have to survive the annual dry season in summer, when their blood glucose levels are significantly lower than during the moist season in winter and spring. The student will perform tests in both seasons and will test the hypothesis that free living striped mice which received glucose water for drinking at their nest during the dry season perform better than striped mice with lower blood glucose levels. These experiments will be conducted with free living striped mice during the dry season.

Dry season projects (Jan-May)

Field experiments on reaction time: The student will measure reaction time during afternoon observations using our developed “moving shadow test”. A minimum of 20 mice from several groups will be tested twice, once under normal conditions, and another time after they received glucose solution to drink to increase their blood glucose levels. Water / sucrose solution will be presented one hour before onset of experiments.

Field experiments on spatial orientation: A barrier will be presented in the field, giving the individual mouse two escape routes, a long one and a shorter one. Mice will be lured to a starting point with water as reward, they will be startled, and it will be noted whether they take the short or long escape route. A minimum of 20 mice from several groups will be tested with water as reward, another 20 mice with sugar solution as reward.

Moist season projects (Jan-May): These data will be compared with data collected by the postdoc Dr. A. Maille during the dry season, who will train the student in these procedures. Data will be collected using the moving shadow test in the field, and the orientation response test and Barnes maze in the research room at the field station.

Permanent projects

Pilot studies with a captive colony: using a captive colony of striped mice at the research station and using modern touchscreen chambers (<http://www.phenosys.com/index.php/en/products/-touchscreen-chamber>), the student will test whether two cognitive tests for reaction time and spatial memory can be used with this equipment: the 2-choice visual discrimination test and the 5-choice serial reaction time test.

Long-term data base: The student will help with the

general field work in the morning and during the afternoon, contributing to trapping, marking, observing and radio-tracking of striped mice. The student will assist the research station manager in his work, learn research management skills, and take over his duties when he is on leave.

Work and life at the research station: The student also has to help with the general duties at the research station, such as maintenance and cleaning of the research station. Information about life at the research station:

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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>

St.EdwardsU InvertebrateEvolution

Assistant Professor Department of Biological Sciences
School of Natural Sciences

St. Edward's University invites applications for a full-time, tenure track assistant professor appointment in Biological Sciences to begin in mid-August, 2015. Applicants should have the interest and ability to teach a variety of biology courses and have research interests in invertebrate biology.

Responsibilities Initial teaching assignments include the senior-level Evolution course and the freshman-level Organisms and Populations lecture and laboratory with the possibility of additional opportunities in first year biology courses for non-majors. Development of elective courses in the applicant's area of expertise. Development of a successful research program involving undergraduates. Other required duties as specified in the Faculty Manual.

Qualifications Ph.D. in biology required. Commitment to developing teaching excellence. Excellent interpersonal and communication skills. Commitment to serving a diverse student body. Successful completion of an employment and/or criminal history background check.

About St. Edward's University Founded in 1885 by the Congregation of Holy Cross, St. Edward's University is a private, Catholic liberal arts institution of more than 5,000 students located in Austin, Texas. St. Edward's emphasizes critical thinking and ethical practices, as well as small classes, personalized learning and exciting internship opportunities. The community appreciates

faculty and students from all backgrounds, as engagement with various perspectives prepares our students to be involved and equipped for life in a global society. The School of Natural Sciences offers B.A. and/or B.S. degrees in Biology, Medical Laboratory Science, Biochemistry, Bioinformatics, Environmental Chemistry, Chemistry, Computer Information Science, Computer Science, Forensic Chemistry, and Mathematics. The School is located in the recently completed John Brooks Williams Science Center complex. The Wild Basin Creative Research Center (WBCRC) serves as an extension of main campus and includes 227 acres within the Balcones Canyonlands Preserve system.

How to Apply Qualified applicants are invited to submit an online application. The job listing and link to apply can be found here: <https://stedwards.applicantpro.com/jobs/143675.html> Applications reviewed until position filled. Please attach: a cover letter that includes any courses which the applicant is especially qualified to teach (see Undergraduate Bulletin: <http://think.stedwards.edu/avpacademicaffairs/studentbulletins>) and should indicate ways in which the applicant will support St. Edward's commitment to fostering a global perspective and to serving diverse students. Also attach a vita, a teaching philosophy, a short statement of research interests indicating how you will engage undergraduates and whether this work could involve WBCRC and the names, addresses, phone numbers, and email addresses of three references.

St. Edward's University is an equal opportunity employer and hires only U.S. citizens and documented workers.

akenney@stedwards.edu

StockholmU EvolutionBehaviour

The Department of Zoology at Stockholm University has just opened a search for an Assistant Professor in Ethology.

This is a four-year tenure-track position, with a career path with the opportunity for promotion to a permanent position as Associate Professor in Ethology at the department*.

The field of ethology explains behavior, using micro- and/or macroevolutionary perspectives, through integration of mechanistic and adaptive approaches.

The assistant professorship consists mainly of research but also some teaching (typically ca. 10% of the time) and supervision. At the Department of Zoology, research is being pursued in ecology, ethology, functional morphology, population genetics and systematics and evolution. The spirit of research is collaborative, both within the department and internationally. The department has a total of 16 permanent Associate Professor/Full Professor positions, and presently accommodates 45-50 staff and about the same number of PhD students.

Research in ethology at the department currently covers a wide range of topics, including behavior, cognition and brain size in guppies, the ontogeny of social behavior in dogs and wolves, insect phenology, evolution of phenotype determination, predator psychology and the evolution of aposematism and mimicry in bird-insect interactions, bird migration, comparative methods, personality and social dominance in fowl, and foraging behavior in red deer and fallow deer. The department has laboratory space for large-scale studies of insects and fishes at the Stockholm campus, and also a large and well-equipped field station with great opportunities for ethological studies.

Informal inquiries can be made to Prof. Olof Leimar (olof.leimar@zoologi.su.se). Note that applications should be submitted through the Stockholm University website, where further details also are available:

<http://www.su.se/english/about/vacancies/lecturers-researchers/assistant-professor-in-ethology-1.208390>

Closing Date: Monday 15 December 2014

* Decisions about promotion will be based on the research and teaching expertise of the person awarded the assistant professorship, as evaluated in the fourth year of the position. For an ambitious and successful person, the chances of promotion are very high. See <http://www.science.su.se/english/rules-regulations/-guidelines-for-employment-recruitment-1.67131> for a document detailing the formal requirements for promotion to associate professor.

Olof Leimar, Professor Department of Zoology Stockholm University SE-106 91 Stockholm Sweden

olof.leimar@zoologi.su.se

www.zoologi.su.se/research/leimar/

<http://www.zoologi.su.se/research/leimar/> Olof Leimar

<olof.leimar@zoologi.su.se>

Associate professor in marine fish ecology

at the Department of ecology, environment and plant sciences. Reference number SU FV-2307-14. Deadline for applications: November 30, 2014.

The department of ecology, environment and plant sciences originates from merging former Botany and Systems Ecology departments. The department's research activities involve terrestrial as well as marine environments, and are conducted primarily in biodiversity, ecology, ecotoxicology, evolution, plant physiology and plant systematics. In these areas studies are performed on processes and patterns from molecular to ecosystem level, and interactions within and among species and with the environment and society. Several of our research areas are among those identified as strong within Stockholm University (climate, ocean, and environment) and the Faculty of Science (species interactions). Some of the research has direct environmental and societal relevance and the approach is often broad and interdisciplinary.

Main tasks: Research, teaching in marine ecology and supervision.

Required qualifications: In order to qualify for employment as associate professor, the applicant must have demonstrated good teaching skills and have a doctoral degree, or equivalent research expertise, of relevance to the subject area and the main responsibilities of the position.

All teaching positions at Stockholm University require the ability to collaborate and the general ability and suitability to perform one's duties.

Teaching and learning in higher education: Completed training in teaching and learning in higher education, or equivalent knowledge, is an advantage. An applicant who has not completed at least 7.5 credits of teaching and learning in higher education and is not considered to have otherwise acquired equivalent knowledge should undergo such training within the first two years of employment.

*Assessment criteria: *In the appointment process, special attention will be given to research and teaching skills. The assessment of research skills will focus primarily on merits within the subject area of the position.

Additional information: The successful candidate is expected to conduct independent research in the Baltic Sea that connects with existing areas of focus in the department.

*Information about the position *can be obtained from <http://www.su.se/english/about/vacancies/lecturers-researchers/>

researchers/associate-professor-in-marine-fish-ecology-1.204581 *In order to apply* for this position please use the Stockholm University web-based application form. Application < <http://lararansokan.su.se/ref/-SU%20FV-2307-14> >

Peter.Hamback@su.se

SwarthmoreC 2year EvolutionaryBiology

The Department of Biology at Swarthmore College invites applications for a two-year visiting The Department of Biology at Swarthmore College invites applications for a two-year visiting assistant professor position for the 2015-16 and 2016-17 academic years. Teaching responsibilities include participation in a team-taught introductory biology course as well as teaching intermediate-level courses with weekly laboratories in evolutionary biology (2015-16) and animal behavior (2016-17). Additionally, there may be an opportunity to teach an advanced seminar-style course (with laboratory projects) in an area that is complementary to our existing curriculum.

Applicants should have a Ph.D., teaching experience, and a strong commitment to undergraduate education. The College provides laboratory space and funds to support student research and faculty travel. The Biology Department is dedicated to educating and supporting a rich, diverse body of students and encourages candidates who will further advance the goals of fostering an inclusive community with diverse ideas and experiences. All application materials (curriculum vitae, statements of teaching and research interests, and three letters of recommendation) should be submitted online at <https://academicjobsonline.org/ajo/-jobs/4886> by January 12th, 2015.

For more information, please visit our website at <https://www.swarthmore.edu/biology>. Questions regarding this position should be addressed to the Biology Department chair, Amy Cheng Vollmer, at avollme1@swarthmore.edu or by calling 610-328-8044.

Vince Formica <vformic1@swarthmore.edu>

TempleU Genomics

TEMPLE University Genomics faculty positions (Assistant/Associate Professors)

The Department of Biology at Temple University invites applications for tenured and tenure-track faculty positions in genomics. We are interested in early and mid-career scientists who will integrate concepts, methods, and tools from evolutionary and population genomics to address significant questions in biology and biomedicine. Successful candidates will have a primary focus on large scale analytics and computational science. They will be core faculty of the new Institute for Genomics and Evolutionary Medicine (iGEM) or the Center for Computational Genetics and Genomics (CCGG) at Temple University. We are seeking candidates who will closely complement existing strengths in the Dept. of Biology in the areas of molecular evolution, population genetics, phylogenomics, phylomedicine, biodiversity, and computational biology.

Applicants should submit to igem@temple.edu a single pdf containing a cover letter, a detailed *curriculum vitae*, a summary of current and future research interests, and a statement of teaching philosophy. Please include in the cover letter a link to a Google Scholar profile. Through their research and teaching statements applicants should inform the search committee about the transformative and cross-disciplinary aspects of their work. Review of applications will begin on November 1.

Temple University is located in the heart of historic Philadelphia, and is the sixth largest provider of graduate school education in the USA. Situated in close proximity to New York City and Washington DC, Philadelphia is home to a large biotech industry and has many outstanding academic and research institutions.

Temple University is an equal opportunity, equal access, affirmative action employer committed to achieving a diverse community (AA, EOE, m/f/d/v).

<http://igem.temple.edu/> <https://bio.cst.temple.edu/~hey/CCGG/> <https://bio.cst.temple.edu/> Jody Hey hey@temple.edu

Director, Center for Computational Genetics and Genomics <https://bio.cst.temple.edu/~hey/CCGG/> Professor, Department of Biology <https://bio.cst.temple.edu/~hey> < <https://bio.cst.temple.edu/~hey> >

heylab > Department of Biology Temple University
1900 N. 12th Street Philadelphia, PA 19122 Office
phone: 215 204 8569 fax: 215 204 6646

Jody Hey <tuf29449@temple.edu>

TexasAMU AncientDNA

The Department of Anthropology at Texas A&M University invites applications for a tenure-track assistant professor position in ancient genetics/genomics beginning August 2015. We seek an energetic scholar with an active research program in molecular anthropology/archaeology and strong records of publishing in top-tier venues and participating in sponsored research. While geographic specialization is open, preference will be given to candidates who use ancient genetics to investigate evolution, dispersal, and migration in an archaeological context, and who can cooperate with existing faculty investigating these problems in the department and the department's Center for the Study of the First Americans.

The successful candidate will be expected to teach two courses in anthropology each semester ranging from introductory and upper-level undergraduate classes to graduate seminars; conduct research in the area of ancient genetics/genomics; advise and mentor students; and participate in service to the department, college, and university.

Minimum qualifications: Applicants are required to have a PhD in hand by 2014 or earlier, demonstrated experience in ancient DNA analysis either at the doctoral or post-doctoral level, and ability to teach undergraduate and graduate courses in anthropology. Post-doctoral research in an ancient DNA laboratory, prior teaching experience, an active field research program, research publications, and success in obtaining grants for research will be considered as strengths in the search process. Applicants are encouraged to articulate how they may contribute to the diversity and excellence of the academic community through their research, teaching and/or service.

Review of applications will begin November 1, 2014 and continue until the position is filled. Applicants should submit a cover letter, CV and contact information for three references preferably as a single pdf file by email or mail to Dr. Ted Goebel, Chair, Anthropological Genetics Search Committee, Department of Anthropology, Mailstop 4352, Texas A&M University, College Station,

Texas 77843-4352 (goebel@tamu.edu).

Texas A&M University is a leading public research university with over 55,000 students. Texas A&M is located in the city of College Station which is within 90 minutes of both Houston and Austin metropolitan areas. Texas A&M University is an equal opportunity/affirmative action institution and prohibits discrimination based on race, color, religion, sex, national origin, disability, age, veteran status, genetic information, sexual orientation, gender identity or gender expression.

“Goebel, Ted” <goebel@tamu.edu>

TexasAMU Genomics

Faculty Position in Comparative/Biomedical Genomics
Texas A&M University

The Department of Veterinary Integrative Biosciences at Texas A&M University invites applications for a tenure-track faculty position in the area of comparative genomics at the Assistant or Associate Professor level. We seek energetic individuals applying innovative comparative, population-based genomic approaches to better understand the genetic bases and environmental components of complex traits, susceptibility to disease conditions, and other fundamental processes in biology. Applicants with an outstanding record of achievement, a research program using established or emerging vertebrate model organisms, and strong computational skills are of particular interest.

The successful candidate must have a doctoral degree and relevant post-doctoral experience, and will be expected to develop and sustain a vigorous extramurally funded research program, train graduate students, and teach within the Biomedical Sciences program. Opportunities exist to interact collaboratively with a large and expanding genomics and life science faculty within the College of Veterinary Medicine & Biomedical Sciences and across the broader University community through the Whole Systems Genomics Initiative (genomics.tamu.edu), One Health Initiative (onehealth.tamu.edu), and several interdisciplinary, degree-granting faculties and research programs (e.g., Genetics, Neuroscience, Reproduction, Toxicology, Ecology and Evolutionary Biology). Salary and start-up packages will be competitive and commensurate with level of accomplishment. Modern laboratory and office space

will be provided within the Veterinary Medical Research Complex, as will access to modern core facilities for next-generation sequencing (txgen.tamu.edu) and significant computational resources on campus.

Review of applications will begin November 1 2014, and continue until the position is filled. Applicants should send a curriculum vitae, statement of research and teaching interests, three relevant reprints, and the names of three potential references to: Genomics Search Committee, Department of Veterinary Integrative Biosciences, College of Veterinary Medicine & Biomedical Sciences, VMA Bldg. Rm. 107, College Station, TX 77843-4458 or by email (preferred): dhernandez@cvm.tamu.edu

For more information please visit: vetmed.tamu.edu/vibs and genomics.tamu.edu

Texas A&M University is an Affirmative Action Employer/Equal Opportunity Employer. Applications from women and individuals from ethnic/racial minority groups are actively encouraged.

WMurphy@cvm.tamu.edu

UAlabama InvertebrateSystematics

The Department of Biological Sciences at The University of Alabama invites applications for a tenure-track faculty position at the rank of Assistant Professor in Systematic Invertebrate Biology to begin August 2015. All taxonomic groups of invertebrates will be considered. Applicants whose research integrates modern genomic approaches to study the taxonomy, systematics, biogeography, and evolution of invertebrates are encouraged to apply. The successful applicant will be expected to establish an active independent research program, attract extramural funding, and must be committed to excellence in teaching and mentoring undergraduate and graduate students. In addition, the successful applicant will be expected to curate the invertebrate collection maintained by the Department of Biological Sciences and must provide evidence of curatorial experience and/or other relevant abilities. The invertebrate collection at the University of Alabama contains significant holdings of freshwater mussels, freshwater decapods, and marine invertebrates. Individuals interested in diversifying this actively growing collection are encouraged to apply. Candidates must have a Ph.D. in the Biological Sciences or a related field and postdoctoral (or equivalent job) experience.

A complete application includes (1) an application letter; (2) CV; (3) statement of research interests and goals; (4) statement of teaching interests and philosophy; and (5) a list of at least four references (including contact information). Letters of reference will be requested by the search committee as appropriate. To apply, go to <https://facultyjobs.ua.edu>, complete the online application (Job #0809229), and upload all requested documents. Questions about the position may be addressed to Dr. Phil Harris (pharris@ua.edu; 205-348-1831). Consideration of applications will begin December 1, 2014 and will continue until the position is filled. For more information about the department, visit our website at <http://bsc.ua.edu>. Prior to hiring, the final candidate will be required to pass a pre-employment background investigation. The anticipated start date is August 16, 2015.

Additional information about the Department of Biological Sciences and this available position can be found on our website at <http://bsc.ua.edu>. Applications from women and members of traditionally under-represented groups in Biology are especially encouraged. The University of Alabama is an Equal Opportunity/Equal Access Employer and actively seeks diversity among its employees.

pharris@ua.edu

UAlbany SUNY DiseaseEvolution

The Department of Biological Sciences (<http://www.albany.edu/biology>), University at Albany, invites applications for two tenure-track positions at the Assistant Professor level. The Department seeks candidates whose research will advance conceptual understanding of ecological and evolutionary aspects of infectious diseases. Possible research themes may include, but are not limited to: microbial/viral pathogen transmission and spread, host-pathogen interactions, vector biology or pathogen variation and evolution. Applicants should have wide interests in disease biology, and the ability to interact with a diverse faculty working across many research areas.

Opportunities for collaboration include faculty in the Life Sciences (<http://www.albany.edu/lifesciences>), the RNA Institute (<http://www.albany.edu/rna>), and the School of Public Health (<http://www.albany.edu/sph>), as well as the New York State Department of Health (<http://www.wadsworth.org>). Successful candidates

will contribute to the Department's graduate program in Ecology and Evolutionary Biology (EEB).

The successful candidates will be expected to teach at the undergraduate and graduate levels in courses appropriate to their expertise and to establish a sustained, externally funded research program. Initial salary and start-up funds are competitive.

For more information, please see: <http://albany.interviewexchange.com/-jobofferdetails.jsp?JOBID=3D53990> Ing-Nang Wang Associate Professor Department of Biological Sciences University at Albany - SUNY Life Science Research Building Rm. 2077

iwang@albany.edu

Columbia, 3259-6270 University Boulevard, Vancouver, B. C. V6T 1Z4, Canada. Email: pkeeling@mail.ubc.ca. Fax: (604) 822-6089. Closing date is November 3, 2014.

UBC hires on the basis of merit and is strongly committed to equity and diversity within its community. We especially welcome applications from visible minority group members, women, Aboriginal persons, persons with disabilities, persons of minority sexual orientations and gender identities, and others with the skills and knowledge to productively engage with diverse communities.

Canadians and permanent residents of Canada will be given priority.

pkeeling@mail.ubc.ca

UBritishColumbia ResAssociate ProtistDiversity

Research Associate Position in Protist Diversity of Coastal Ecosystems

University of British Columbia

Vancouver, Canada

The Department of Botany seeks a well-trained, highly motivated and enthusiastic individual interested in exploring the diversity of protists in marine and coastal environments as a Research Associate.

The applicant must have a PhD or equivalent and at least three additional years of research experience. Essential skills include a well-developed expertise in eukaryotic biodiversity, evolutionary history, and protist identification, the use of single cell isolation and cultivation methods, methods for cultivating predatory protists, advanced microscopy analysis (light microscopy, TEM, SEM), and basic skills in molecular biology and interpretation of large sequence data sets. The applicant must have excellent written and oral communication skills and be highly organized. The candidate must have a proven record of publication in significant journals in the field.

The position is available starting Feb 1 2015 for an initial period of one year with a possibility for extension subject to a satisfactory performance and funding. To apply, please send a cover letter outlining research experience and interest, a curriculum vitae and the names and contact information for 3 referees to Patrick Keeling, Department of Botany, University of British

UCalifornia Berkeley PlantEvolution

ASSISTANT PROFESSOR IN PLANT BIOLOGY The Department of Plant and Microbial Biology at the University of California, Berkeley, has an opening for an Assistant Professor (tenure track, nine-month appointment) with an expected start date of July 1, 2015.

We seek applications for a faculty member who will develop an internationally recognized, extramurally funded research program with a focus on whole plant biology. Areas of particular interest include fundamental aspects of development, such as growth, diversification, adaptations, and interactions of plants with microbes. The desirable candidate's research will be expected to integrate a broad spectrum of genetic, physiological, computational, and genomic technologies. Candidates who use systems and/or synthetic biology approaches and conduct translational research with crops and/or naturally occurring populations are encouraged to apply.

Candidates must have a strong background in experimental plant biology and the ability to contribute to instruction at the undergraduate and graduate level. Applicants must have a Ph.D. or equivalent by the time of application. Candidates must have postdoctoral experience by the date of hire and have a demonstrated excellence and originality in research. The successful applicant will join a dynamic and diverse community of biologists on the UC Berkeley campus in the Department of Plant and Microbial Biology (<http://pmb.berkeley.edu/>), and will have extensive opportunities for synergis-

tic collaborations with the nearby USDA-ARS Plant Gene Expression Center (<http://pgec.berkeley.edu/>), UC Berkeley Energy Biosciences Institute (<http://www.energybiosciencesinstitute.org>), Lawrence Berkeley National Laboratory (<http://www.lbl.gov/>), Joint Genome Institute (<http://www.jgi.doe.gov/>), and the Joint BioEnergy Institute (<http://www.jbei.org/>).

A curriculum vitae (your most recently updated C.V.), cover letter, statement of research (current and future research interests), statement of teaching (including experience and teaching philosophy), three to five letters of reference, statement of contributions to diversity (addressing past and/or potential contributions to diversity through research, teaching, and/or service), and up to five papers or other documents (optional) should be submitted via UC Berkeley's online application system by the search closing date, November 14, 2014.

<https://aprecruit.berkeley.edu/apply/JPF00522> 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>) prior to submitting their letters.

Chelsea D. Specht, PhD Associate Professor; Departments of Plant and Microbial Biology & Integrative Biology Curator of Monocots; University and Jepson Herbaria University of California, Berkeley 111 Koshland Hall, MC 3102 Berkeley, CA 94720 510.642.5601

cdspecht@berkeley.edu <http://spechtlab.berkeley.edu/>
cdspecht@berkeley.edu

UCalifornia Davis InsectSystematics

FACULTY POSITION ANNOUNCEMENT Schlinger
Endowed Chair in Insect Systematics University of California, Davis

Title: Associate Professor or Professor in the College of Agricultural and Environmental Sciences, and Associate Entomologist or Entomologist in the Agricultural Experiment Station. This is an academic year (9 mo.) tenured position.

Responsibilities: The appointee will be required to organize and present undergraduate and graduate courses in the areas of systematics and phylogenetics, as well as

contribute to other courses in the departmental teaching program. Supervision of graduate students, involvement in curricular development, participation in outreach programs, and performance of University service are expected.

The appointee to the Endowed Chair is expected to maintain an innovative research program on the systematics of insects or other terrestrial arthropods, and to interact collaboratively with the diverse community of systematists and evolutionary biologists on campus. The appointee will also be designated as a curator in the Bohart Museum of Entomology, and will be expected to contribute towards the development of this internationally recognized systematics resource.

Qualifications: Ph.D. in the biological sciences, demonstrated leadership in insect or terrestrial arthropod systematics, with training and experience commensurate with a comprehensive and cutting-edge research program. Examples of fields considered appropriate include species delimitation and description, phylogenetics, revisionary taxonomy, biogeography, character evolution, and comparative biology. Demonstrated competence in molecular systematics and field-based research are required. Familiarity with natural history collections and their development is also highly desirable.

Salary: Commensurate with experience within the Associate Professor or Professorial ranks at the University of California.

Appointment Date: July 1, 2015

Applications: Applications should be submitted on-line at <http://entomology.ucdavis.edu> and inquiries should be directed to Dr. Philip Ward, Search Committee Chair, Department of Entomology and Nematology, University of California, One Shields Avenue, Davis, CA 95616, telephone (530) 752-0486, e-mail: psward@ucdavis.edu.

UC Davis is an affirmative action/equal employment opportunity employer and is dedicated to recruiting a diverse faculty community. We welcome all qualified applicants to apply, including women, minorities, veterans, and individuals with disabilities.

Thank you, Amanda

Amanda Isaac Executive Academic Assistant The Phoenix Cluster (Plant Pathology, Entomology and Nematology) 367 Briggs Hall 530-752-0492 alisaac@ucdavis.edu

Amanda Lee Isaac <alisaac@ucdavis.edu>

UCalifornia SanFrancisco Programmer

The Hernandez Lab at UCSF < http://bts.ucsf.edu/-hernandez_lab/ > has an open position available for a computational specialist/programmer. In our computational lab, we use detailed simulations, modeling, and analysis of high throughput genome sequencing data in humans and other mammals. Research projects in the group focus on developing novel techniques for applying principals of population and evolutionary genomics to medical resequencing studies, analysis of the patterns of global genetic diversity across several whole genome sequencing data sets, quantifying the genetic basis of asthma in admixed populations, and the genomics of host-pathogen interactions. The successful candidate will be expected to work with members of the group to implement and optimize algorithms for various projects, as well as maintain a Linux server.

Basic Qualifications: - BA/BS/MS in computer science or related computational field. - Experience implementing efficient algorithms in a research setting. - Proficiency in C/C++ and perl/python. - The ideal candidate will also be proficient in managing Linux workstations, familiarity with the Sun Grid Engine queuing system, and ability to write parallelized code (MPI, pthreads, and/or openCL).

UCSF is an Equal Opportunity/Affirmative Action Employer, and the Hernandez Lab is committed to increasing diversity in the sciences. Applications from women and minorities are highly encouraged.

Applicants should email a short statement on education/experience/career goals, CV, and the names and email addresses of one-three references as a single pdf file to Ryan Hernandez <ryan.hernandez@ucsf.edu>. Informal inquiries are also welcome.

Ryan.Hernandez@ucsf.edu

UCalifornia SantaBarbara BehavioralEvolution

fessor, UC Santa Barbara

The Department of Ecology, Evolution and Marine Biology (EEMB; www.eemb.ucsb.edu) at the University of California, Santa Barbara invites applications for a tenure-track faculty position in Behavioral Ecology, broadly defined, at the rank of Assistant Professor. We are searching for a highly creative and interactive scholar who fits into our multidisciplinary department. The area and system of study are open, although we are most interested in candidates who study the fitness consequences or evolutionary outcomes of variation in behavioral strategies or who use comparative analyses relating behavior to the environment. We encourage applications from candidates who adopt an integrative, mechanistic approach and have a strong field component in their research.

The candidate is expected to have or develop an internationally recognized research program, mentor graduate and undergraduate students in the candidate's area of expertise, and teach both graduate and undergraduate courses. This position requires a PhD at the time of appointment.

Applicants should submit: 1) a cover letter, 2) a curriculum vitae, 3) a statement of research that covers research accomplishments and future plans, 4) a statement of teaching experience and interests, 5) three selected publications, and 6) letters of recommendation from three to four persons with the ability to evaluate the candidate.

EEMB is especially interested in candidates who can contribute to the diversity and excellence of the academic community through research, teaching and service.

Submit applications electronically at: <https://-recruit.ap.ucsb.edu/apply/JPF00387> . Review of applicants will begin November 15, 2014 and will continue until the position has been filled.

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, or any other characteristic protected by law including protected Veterans and individuals with disabilities.

- Stephen Proulx Associate Professor Ecology, Evolution, and Marine Biology UC Santa Barbara
proulx@lifesci.ucsb.edu

stephen.proulx@gmail.com

UCentralFlorida EvolutionaryBiol

Dear EvolDir members

The University of Central Florida has several faculty positions open. We are hiring an Entomologist, a cluster of 3 Geospatial folks and 2 coastal ecologists/conservation biologists.

All of these positions have an evolutionary aspect and we would encourage evolutionary biologists working in these areas to apply. For example, landscape geneticists would be a great fit in the Geospatial cluster etc.

Please see the link below for the position announcements.

<http://biology.cos.ucf.edu/faculty-positions/>

Best,

Chris

Christopher L. Parkinson, Ph.D. Professor and, Chair , Institutional Animal Care and Use Committee Dept. of Biology Rm 424. University of Central Florida 4000 Central Florida Blvd. Orlando, FL 32816-2368 office: 407-823-4847 fax: 407-823-5769 <http://parkinson.cos.ucf.edu/> Parkinson@ucf.edu

3 Geospatial Faculty positions 1 Entomologist 2 Coastal Ecology/conservation biology positions

Geospatial Faculty Positions The University of Central Florida (UCF) is in a hiring campaign to recruit 200 new faculty for Fall 2015. UCF seeks to strengthen its research mission and academic offerings in the broad interdisciplinary area of Geospatial Analysis. In support of this effort, the College of Sciences has established three tenure-earning assistant professor positions expected to begin in fall 2015. Ideal candidates will have a strong background in the application of GIS and other geospatial analytical approaches to address questions in their research area, a desire to collectively build curricula centered on geospatial science, and a passion for integrating multiple disciplines to confront challenges facing society.

Minimum qualifications include a Ph.D. from an accredited institution by the time of hire in a suitable field, a research record that demonstrates expertise in the use of geospatial analysis methods, and research and teaching interests that complement and expand existing departmental strengths. We seek candidates with

the potential to develop high-quality, extramurally-funded research programs appropriate for a Carnegie very high research activity university and to help develop both undergraduate and graduate certificate programs in GIScience/Geospatial Analysis. Experience and commitment to collaborative, interdisciplinary research is highly desirable.

Examples of research areas include (but are not limited to) conservation and sustainability, coupled human-natural systems, criminology, cultural/demographic/economic/political/social behavior and dynamics, environmental/social justice/health politics and policy, global change, human/natural disasters, landscape archaeology, national security, and urban studies and policy.

UCF is committed to the development of new hires in interdisciplinary clusters. Faculty will be expected to strengthen both their tenure home department (Anthropology, Biology, Political Science, or Sociology) as well as the geospatial cluster. It is expected that there will be both individual and interdisciplinary infrastructure and startup associated with these three new positions. Each new faculty member will have a unique interdisciplinary mentoring team to foster intellectual breadth and to facilitate integrative capacity to strengthen the success of the cluster.

Candidates must apply online at <http://www.jobswithucf.com/postings/40000> (Position #37456) and attach the following materials: a cover letter, curriculum vitae, and contact information for three professional references. In the cover letter candidates should address their background in geospatial analysis, current and planned future research directions, and GIScience courses that they could develop and teach, and should identify the department(s) for their potential tenure home. The search committee will begin reviewing applications December 1, 2014 and continue to accept applications until January 1, 2015. The University of Central Florida is an Equal Opportunity and Affirmative Action employer. All applicants are encouraged to apply, including minorities, women, veterans, and individuals with disabilities. For more information about these positions please contact the Geospatial Cluster Search Chair, Dr. Cynthia Young, Associate Dean in the College of Sciences at Cynthia.Young@ucf.edu.

Entomology Position

The Department of Biology at the University of Central Florida (UCF) invites applications for a tenure-track faculty position at the rank of Assistant Professor. The candidate's research will address important questions in entomology using innovative approaches. Individuals

with curatorial experience and interests in collections-based research are preferred. Candidates must have a demonstrated ability or strong potential to establish and maintain a vigorous, extramurally-funded

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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>

letter, curriculum vitae, three representative publications, statements of research, teaching, and curatorial experience and vision, along with names and addresses of four references. Review of applications begins December 1, 2014. Contact search committee chair: Christy.McCain@colorado.edu. The University of Colorado is an Equal Opportunity/Affirmative Action employer.

erin.tripp@colorado.edu

UCColorado CuratorInvertebrates

Curator of Invertebrates and Assistant Professor in Ecology & Evolutionary Biology

The University of Colorado Museum of Natural History and Department of Ecology and Evolutionary Biology (EBIO), University of Colorado Boulder, invite applications for a joint, tenure-track appointment as Curator of Invertebrates and Assistant Professor. Primary responsibilities will be to develop an active research program on any group of non-insect invertebrates using molecular systematic approaches preferably including bioinformatics tools, to curate and develop the Museum's invertebrate collections, and to teach in the Museum and Field Studies and EBIO programs. The successful candidate will be expected to take a leadership position in advancing the role of the collections, particularly in digital and molecular assets. The Invertebrate collection houses approximately 870,000 specimens of molluscs, other non-entomological marine, freshwater, and terrestrial invertebrates. Most holdings are from Colorado and the southern Rocky Mountain region, and enhanced by wider US and international collections. The successful candidate will contribute to research, curation, mentoring, and teaching at graduate and undergraduate levels and will be expected to develop an externally funded research program. We offer a collaborative, intellectually stimulating, and supportive environment in which a new professor can thrive. Additional information about EBIO and the CU Museum can be found on the web at: <http://www.cumuseum.colorado.edu> and <http://www.colorado.edu/eeb>. Applicants must have a doctoral degree and strong research, curatorial, and teaching and mentoring credentials. Application materials must be submitted electronically at <https://www.jobsatcu.com>, Posting #89649, beginning October 13. The application package should include a cover

UCRiverside SocialInsectEvol

Position Announcement: Molecular Biology of Social Insects (Entomology) **Assistant Professor/Assistant Entomologist** Department of Entomology, University of California, Riverside, California, <http://www.entomology.ucr.edu> *POSITION: *Molecular Biology of Social Insects.* The Department of Entomology invites applications for a tenure-track position, 9-month appointment, available July 1, 2015. The position has 25% Instruction and Research and 75% Organized Research in the Agricultural Experiment Station <http://cnas.ucr.edu/about/anr/>. Applicants must hold a Ph.D. in Entomology, Molecular Biology, or a related discipline; post-doctoral experience is preferred. The focus of the position will be on the functional connection between social behaviors and genetic, epigenetic, neurophysiological and chemical pathways. Areas of research emphasis may include, but are not limited to, pheromone perception, responses to semiochemicals, regulation of social interactions, genetic and epigenetic mechanisms underlying caste determination, and evolution of sociality.

RESPONSIBILITIES: Develop an extramurally funded research program to conduct basic and applied research in the area of molecular biology of social insects. Teaching responsibilities include supervision of graduate students, participation in undergraduate biological science instruction. The development of new undergraduate courses in behavioral genetics would be encouraged as well as a graduate level course within the candidates' field of interest. Participation in graduate training within Genetics, Genomics and Bioinformatics; Evolution, Ecology and Organismal Biology; and Cellular, Molecular and Developmental Biology interdepartmental programs would be encouraged.

APPLICATION: Applications should include a curriculum vitae (6 pages maximum), statements of re-

search interests (3 pages maximum), teaching interests and philosophy (2 pages maximum), pdf files for up to three papers, and four letters of references. All application materials should be sent to: <https://aprecruit.ucr.edu/apply/JPF00266> Questions regarding this position should be directed to Dr. Timothy Paine, Chair of the Molecular Biology of Social Insects Search Committee at timothy.paine@ucr.edu

*APPLICATION DEADLINE: *Evaluation of applications will begin December 1, 2014, but the position will remain open until filled.

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

bradley.white@ucr.edu

UGeorgia Athens Bioinformatics-DataScience

ASSISTANT PROFESSOR POSITION IN BIOINFORMATICS/BIOLOGICAL DATA SCIENCE AT THE UNIVERSITY OF GEORGIA

The Institute of Bioinformatics at the University of Georgia invites applications at the Assistant Professor level for a tenure-track faculty position in bioinformatics or computational biology starting August 2015. We welcome applications from candidates with experience in any area of bioinformatics or biological data science/data analytics research.

The candidate should have a Ph.D. or equivalent degree in the sciences or any related field and a strong research record at the interface of computing and life science. The successful candidate will join our highly-active interdisciplinary program in Bioinformatics (<http://iob.uga.edu>) with a tenure home in one of the following Franklin College Departments: Computer Science, Genetics or Plant Biology (<http://www.franklin.uga.edu/academics/departments.php>). The candidate will be expected to maintain a rigorous, externally funded research program and contribute to undergraduate and graduate teaching. To apply, candidates should submit a cover letter, curriculum vitae, copies of their three best publications, and statements of research interests and teaching philosophy (no more than 4 pages total)

as a single PDF file to <https://www.franklin.uga.edu/jobs/>. Three letters of recommendation should be uploaded separately to the same web site. The committee will begin reviewing applications on December 1, 2014, and continue until the position has been filled.

The Franklin College of Arts and Sciences, its many units, and the University of Georgia are committed to increasing the diversity of its faculty and students and sustaining a work and learning environment that is inclusive. The University is an EEO/AA Institution. Women, minorities, protected veterans and individuals with disabilities are strongly encouraged to apply. Georgia is well known for its quality of life in regard to both outdoor and urban activities. The University of Georgia, the oldest state-chartered university in the United States, is a land/sea grant institution located in the city of Athens (<http://visitathensga.com/>), 70 miles northeast of Atlanta.

Jessica C. Kissinger Professor of Genetics Director, Institute of Bioinformatics University of Georgia Assistant: Ms. Carrie Jarrard 706-542-7784 email:jckadmin@uga.edu

jkissing@uga.edu

UGroningen EvolutionarySystemsBiol

Tenure Track Assistant Professor Evolutionary Systems Biology (1.0 fte) (214278)

University of Groningen, the Netherlands

Organisation

Since its foundation in 1614, the University of Groningen has established an international reputation as a dynamic and innovative university offering high-quality teaching and research. Its 30,000 students are encouraged to develop their own individual talents through challenging study and career paths. The University of Groningen is an international centre of knowledge that counts among the best research universities in Europe and that is allied with prestigious partner universities and networks worldwide.

The Faculty of Mathematics and Natural Sciences (FMNS) The Faculty of Mathematics and Natural Sciences harbours a kaleidoscope of disciplines and research strengths. Research and education programmes range from nanomaterials to astronomy, from molecu-

lar biology to mathematics, from computer sciences to pharmacy, from neurosciences to industrial engineering, and from ecology and evolution to marine biology. Our researchers pursue fundamental questions while collaborating with partners from industry, the medical world and other realms of society. Frontline research groups explore new fields such as synthetic biology and evolutionary robotics.

The Centre for Ecological and Evolutionary Studies (CEES) CEES offers excellent opportunities and infrastructure for theoretical and experimental research in the field of ecology and evolution. Field programmes range from polar to tropical regions and comprise marine and terrestrial ecosystems. Theoretical work ranges from studying the origins of and implications of individual variation for the evolution of novel species interactions and speciation dynamics. Within FMNS, CEES collaborates closely with the Centre of Behaviour and Neurosciences (CBN) and the Groningen Biomolecular Sciences and Biotechnology Institute (GBB). The institute plays a leading role in various national and international research networks.

Job description

The Centre for Ecological and Evolutionary Studies (CEES) has a vacancy for a tenure track position at assistant professor level in Evolutionary Systems Biology. The applicant is expected to develop a strong and internationally competitive research line that integrates evolutionary and mechanistic perspectives, thereby contributing to the integration of CEES research with that of its sister institutes CBN and GBB. Specifically we seek a new faculty member who investigates the molecular basis of adaptive evolution by combining approaches from evolutionary theory with techniques from systems biology. Ideally, the candidate combines theory development with experimental approaches, such as experimental evolution of micro-organisms, and has an interest to link to understanding of adaptive evolution at higher levels of organization (individuals, populations, ecosystems) . The successful candidate will actively participate in the teaching and research programmes of the faculty, provide state-of-the-art research training to MSc and PhD students, and acquire funding for establishing and sustaining a viable and internationally visible research group.

Qualifications

Candidates must have the motivation and dedication to establish an independent line of high-quality research and to acquire an internationally recognized position in the scientific community that leads to a positive evaluation after a term of five years and beyond. We are seeking proven affinity with teaching and the super-

vision of students. More specifically, candidates will need to have the following qualifications: - a PhD in the field of theoretical, mathematical or computational biology with proofs of a strong interest in Evolutionary Systems Biology - demonstrated knowledge and expertise in computational and analytical methods for the analysis of complex adaptive systems, such as network theory, bifurcation analysis, fitness landscape reconstruction and individual- based simulation - excellent research, teaching and organizational skills appropriate to career stage - excellent research accomplishments, as expressed in high-impact publications appropriate to career stage - evidence of successful acquisition of external funding appropriate to career stage - excellent communication skills and fluency in English - two or more years of academic international experience (outside The Netherlands).

Conditions of employment

The University of Groningen offers a salary depending on qualifications and previous experience. For candidates at the Assistant Professor level, the salary ranges from a minimum of 3,259 (salary scale 11 of the Dutch Universities) gross per month to a maximum of 5,070 (salary scale 12) gross per month for a fulltime position, excluding 8% holiday allowance and 8.3% end-of-year bonus and participation in a pension scheme for employees. Favourable tax agreements may

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UHohenheim Bioinformatics

The Faculty of Agricultural Sciences invites applications for the position of a Full Professor (W3) of Bioinformatics at the Institute of Animal Husbandry and Breeding to be filled first in summer semester 2015.

The successful candidate will teach management and analysis of omics-data in agriculture and life science in the study programmes of the Faculty of Agricultural Sciences and will participate in teaching in the Faculty of Natural Sciences and the Faculty of Business, Economics and Social Sciences.

The research focus of the professorship should be on the development of bioinformatic methods and algorithms

and the analysis of massive DNA and RNA data sets from livestock and crop populations and associated microorganisms. This includes assembling and functional annotation of sequenced genes and transcripts as well as taxonomic and functional classification of data from microbiological metagenome projects.

Interdisciplinary collaborations with associated research groups of the University of Hohenheim are expected.

The position offers attractive conditions for first-time full professor appointees. Prerequisites for applicants are habilitation or an equivalent research and teaching record that may have been established during a Junior or Assistant Professorship.

The advertised position is tenured. If appointed as full professor for the first time, the University of Hohenheim reserves its right to a probationary employment. With equal qualifications, preference will be given to candidates with disabilities.

The University of Hohenheim seeks to increase the proportion of women in research and teaching, and strongly encourages qualified female scientists to apply.

Applications should include a statement of your future research interests, a curriculum vitae, a documentation of academic achievements (copies), a list of publications, a list of third-party funded projects, a teaching record, information on teaching evaluations as well as three key publications.

Please apply online at <https://www.uni-hohenheim.de/prof-appt-portal> before November 24th, 2014. Questions regarding the position may be directed to Prof. Dr. Markus Rodehutschord (markus.rodehutschord@uni-hohenheim.de).

University of Hohenheim Faculty of Agricultural Sciences (300) 70593 Stuttgart Germany

Best regards, Gaby Steinbeck

[agrar <agrar@uni-hohenheim.de>](mailto:agrar@uni-hohenheim.de)

techniques, including PCR, RT-PCR, qPCR, molecular cloning, and western blotting. Experience with immunoprecipitation, immunocytology, Illumina sequencing library prep, and Drosophila husbandry is desired, but not necessary. Proficiency in English is required. Salary is negotiable and commensurate with experience.

The successful candidate will perform molecular biology experiments and carry out some data analysis for evolutionary genetics and genomics experiments; participate in the design of these experiments and the preparation of the resulting data for publication; provide support and training to undergraduates and graduates students who are learning molecular biology techniques; maintain the molecular biology laboratory space, including ordering reagents and maintaining equipment.

Please visit the websites of the Kelleher lab (<http://nsmn1.uh.edu/eskelleh/>) and Meisel lab (<http://nsmn1.uh.edu/rpmeisel/>) for additional information about current research projects. You may email Erin Kelleher (eskelleher@uh.edu) or Rich Meisel (rpmeisel@uh.edu) with questions about the job, but you must submit your application via the following website to be considered:

<https://jobs.uh.edu/hr/postings/23036> The University of Houston is an Equal Opportunity/Affirmative Action employer. Minorities, women, veterans, and persons with disabilities are encouraged to apply.

Richard P. Meisel Assistant Professor Department of Biology and Biochemistry University of Houston 4800 Calhoun Rd. Houston, TX 77204-5001

Office: 421C Science and Research Bldg 2 Lab: 428/433 Science and Research Bldg 2

1-713-743-3607 rpmeisel@uh.edu <http://bchs.uh.edu/~rpmeisel> "Meisel, Richard P" <rpmeisel@Central.UH.EDU>

Uillinois Chicago 2 Evolution

UHouston LabTech

The Kelleher and Meisel labs in the Department of Biology and Biochemistry at the University of Houston are jointly hiring a full-time laboratory technician to begin in January of 2015. A slightly earlier start date may be possible (please inquire if interested). Preferred candidates will have experience with molecular biology

ASSISTANT PROFESSOR POSITIONS- University of Illinois at Chicago The Department of Biological Sciences at the University of Illinois at Chicago (UIC) invites applications for two tenure-track positions at the assistant professor level. Located in the heart of Chicago, UIC is one of the nation's leading research universities. Numerous opportunities exist for collaborative research in biological sciences across disciplines at UIC and with colleagues and institutions throughout

the Chicago region.

Successful candidates will be expected to establish a vigorous, externally funded research program, and teach in the department's undergraduate and graduate level programs. Applicants working in all areas of animal and plant genetics are encouraged to apply. Genetic, biochemical, and bioinformatic approaches to cellular pathways, development, and/or evolution are of particular interest. The successful candidates will join an interdisciplinary scientific community on the UIC campus and the Chicago area, as members of a diverse department investigating a broad range of areas in biology, supported by excellent facilities and resources.

Candidates must have a Ph.D. degree, with postdoctoral experience strongly preferred, and a demonstrated record of research accomplishments. To receive full consideration, candidates must complete an on-line application including the names and email addresses of three references and submit a CV, research and teaching statements, at <https://jobs.uic.edu/job-board/job-details?jobID=45805&job=assistant-professor-biological-sciences> by December 1, 2014. Final authorization of the positions is subject to availability of state funding. Questions should be directed to Prof. Brian Kay at bkay@uic.edu.

The University of Illinois at Chicago is an affirmative action/equal opportunity employer, dedicated to the goal of building a culturally diverse pluralistic faculty and staff committed to teaching in a multicultural environment. We strongly encourage applications from women, minorities, individuals with disabilities and covered veterans.

Priya D'Souza <pdsouza@uic.edu>

U Illinois HostParasiteInteractions

Harley Jones Van Cleave Professor Host-Parasite Interactions Department of Animal Biology and School of Integrative Biology University of Illinois at Urbana-Champaign

The Department of Animal Biology and the School of Integrative Biology at the University of Illinois, Urbana-Champaign seek a highly qualified candidate for the Harley Jones Van Cleave Professor of Host-Parasite Interactions. This Professorship was made possible by the generous gift of David R. and Margaret Stirewalt Lincicome. This is a full-time faculty

position at the rank of Associate or Full Professor with credentials warranting tenure at the University of Illinois. We seek a broadly trained biologist who has a well-established, internationally renowned, externally funded research program in any aspect of host-parasite interactions, including but not limited to coevolutionary interactions, the molecular, physiological, developmental, or immunological bases of such interactions, molecular parasites and genome evolution, effects of parasites on host behavior, life histories, population dynamics, conservation biology, or alterations in such interactions caused by global change. We welcome empirical and theoretical approaches. The successful candidate will have the opportunity to be part of dynamic and well-established communities of integrative biologists with interests spanning a wide range of taxa in the School of Integrative Biology, as well as in a number of interdisciplinary programs across the campus. Responsibilities also include teaching and participation in both undergraduate and graduate training. The successful candidate must have a Ph.D. in biology or related discipline. Salary is commensurate with qualifications and experience. Target start date is August 16, 2015 but is negotiable.

The University of Illinois at Urbana-Champaign is a public land-grant university with more than 40,000 students and provides a highly collaborative and supportive academic environment. There are opportunities for interactions with the Institute of Genomic Biology, the Program in Ecology, Evolution and Conservation Biology, the National Center for Supercomputer Applications, Roy J. Carver Biotechnology Center, the Beckman Institute for Advanced Science and Technology, and the Illinois State Natural History Survey and the Illinois State Geological Survey.

To ensure full consideration, please create your candidate profile through <http://go.illinois.edu/-VanCleaveProf> and upload your application letter, curriculum vitae, summary of research and plans, teaching philosophy and experience, and contact information for three professional references by December 9, 2014. After a review of the research record, the search committee may then contact the applicant about soliciting letters of reference. Applicants may be interviewed before the closing date; however, no hiring decision will be made until after that date. For further information contact Host-Parasite Interactions Search Chair, sib@life.illinois.edu.

Illinois is an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, religion, color, national origin, sex, age, status as a protected veteran, or status as a qualified individual with a disability. Illinois is an

Affirmative Action /Equal Opportunity Employer and welcomes individuals with diverse backgrounds, experiences, and ideas who embrace and value diversity and inclusivity. (www.inclusiveillinois.illinois.edu).

Alison M. Bell Associate Professor Integrative Biology University of Illinois, Urbana 439 Morrill Hall 505 S. Goodwin Avenue Urbana, IL 61801 217-265-5469 (phone) 217-244-4565 (fax) alisonmb@life.illinois.edu

<https://sib.illinois.edu/bell/> Alison Bell
<alisonmb@illinois.edu>

UKentucky ArthropodEvolution

Integrative Arthropod Biologist University of Kentucky Department of Entomology <http://www2.ca.uky.edu/entomology/entomology.php> Position: Assistant Professor of Entomology, Integrative Arthropod Biology, twelve-month, tenure track appointment, research (80%), teaching (20%)

Description: The Department of Entomology at the University of Kentucky is seeking a broadly trained entomologist or biologist who will develop an internationally recognized, externally funded research program that integrates evolutionary, ecological, physiological, molecular and/or genomic approaches to study arthropod biology. The Department is particularly interested in an integrative biologist in one of the following areas: pollinator biology and their role in ecosystem functioning, arthropod vectors of pathogens affecting human health, or invasion biology. The individual is expected to develop a program that complements and enhances existing research programs at the University of Kentucky. Additionally, the individual is expected to expand the integrated graduate research program within the Department. This position includes a 20% teaching responsibility. The individual will be expected to participate in undergraduate and graduate education, including developing a course in their area of expertise and mentoring graduate students. Qualified candidates will participate in the graduate training of students, whose interests vary from population management and organismal insect biology to molecular biology and genomics.

Qualifications: The successful applicant must have a PhD in Entomology or related discipline with demonstrated experience and publications in integrative arthropod research. Post-doctoral research, potential as both an independent researcher and as a member

of a multidisciplinary team, and teaching experience are highly desirable. Applicants should be familiar with integrated research techniques, including ecological, molecular, genomic, and statistical methods.

Salary and Benefits: Salary commensurate with background and experience; overview of benefits: <http://www.uky.edu/professors/benefit.htm> Application Procedure: Applicants should submit a CV, list of publications with up to (5) selected reprints, names and addresses of four individuals who may be contacted for letters of reference, copies of undergraduate and graduate transcripts, and an application letter describing background and expertise specifically related to this research/teaching position at the University of Kentucky.

Applications must be submitted electronically to the Integrated Employment System at the University of Kentucky (copy and paste into browser) <https://ukjobs.uky.edu/postings/45339> Application Deadline: January 15, 2015 or until a suitable candidate is identified

Date Position is Available: July 1, 2015 or as mutually agreed upon

The University of Kentucky College of Agriculture, Food and Environment is an equal opportunity organization and welcomes applications from women and minorities.

Dr. Charles W. Fox Professor and Director of Graduate Studies Department of Entomology University of Kentucky Lexington, KY 40546-0091 phone: 859-904-9404 e-mail: cfox@uky.edu web: www.uky.edu/~cfox Charles Fox <cfox@uky.edu>

UKentucky MicrobialEvolution

The Department of Biology at the University of Kentucky in Lexington, KY seeks outstanding candidates for a tenure-track ASSISTANT PROFESSOR in the area of MICROBIAL ECOLOGY. This includes but is not limited to the study of human and non-human animal microbiomes and the ecology and evolution of disease, symbiont-host interactions, and extremophile communities. The successful candidate will be expected to develop an independent, extramurally funded research program that complements growing research strengths within the Department and across a highly interactive life science community at the university, as well as participate in undergraduate and graduate edu-

cation in microbiology. The startup package will include a competitive salary in an affordable community, a generous startup budget, modern laboratory facilities and an outstanding collegial environment. A Ph.D. (or equivalent) and postdoctoral research experience are required. Send cover letter, *curriculum vitae*, statements of research and teaching philosophy and three letters of recommendation to <http://apply.interfolio.com/26915> Questions regarding this position may be directed to Dr. Vincent Cassone: 859-257-6766 / vincent.cassone@uky.edu

The University of Kentucky is an Affirmative Action/Equal Opportunity University that values diversity and is located in an increasingly diverse geographic region. It is committed to becoming one of the top public institutions in the country. Women, persons with disabilities, and members of other underrepresented groups are encouraged to apply.

Catherine Linnen <clinnen@gmail.com>

UMarylandBaltimoreCounty BiologicalDataSci

Assistant Professor in Biological Data Science

The Department of Biological Sciences at UMBC invites applications for a tenure-track Assistant Professor position in biological data science specializing in computational neuroscience, metabolomics, metagenomics, data visualization or evolutionary genomics. The successful applicant will set up a computational laboratory and interact with faculty whose interests span the range from genomics and molecular genetics to evolution and behavior. Applicants must have a Ph.D. in a relevant field, post-doctoral experience in big-data computational or theoretical biology and a strong publication record, and are expected to establish a vigorous, externally funded research program, supervise doctoral-level graduate students, and teach at the undergraduate and graduate levels.

Applicants should submit a cover letter, curriculum vitae, research statement, research plan, a statement of teaching interests and philosophy and three letters of reference. Application materials and letters of reference should be submitted to apply.interfolio.com/25756 by November 15, 2014.

UMBC is a medium-sized research university in the Baltimore-Washington D.C. area, whose combined ex-

cellence in research and outstanding educational programs have earned recognition by US News and World Report as the “#1 Up-and-Coming National University” for five years running. For information about the Department of Biological Sciences and its graduate programs, visit <http://www.umbc.edu/biosci/>. The University of Maryland Baltimore County is an Equal Opportunity Employer/Affirmative Action. UMBC values gender, ethnic, and racial diversity; women, members of ethnic minority groups, and individuals with disabilities are strongly encouraged to apply. UMBC is the recipient of an NSF ADVANCE Institutional Transformation Award to increase the participation of women in academic careers.

Kevin Omland Professor, UMBC Dept. Biological Sciences 1000 Hilltop Circle Baltimore, MD 21250 <http://biology.umbc.edu/directory/faculty/omland/> Omland Kevin <omland@umbc.edu>

UMaryland TeachingEvolution

Position Summary/Purpose of Position -

The First-Year Innovation & Research Experience (FIRE) is a new major initiative at the University of Maryland, College Park. FIRE provides first-year students research experience, broad mentorship and social connectivity that impacts academic success and professional development.

The Office of the Provost and Senior Vice President in collaboration with Dr. Mihai Pop, Dr. Michael Cummings, Dr. Stephen Mount and Dr. Sridhar Hannenhalli of the College of Computer, Mathematical and Natural Resources is seeking a Research Associate to serve as the Research Educator for the FIRE Terrapin Genome Project innovation and research stream. The stream Research Educator works in collaboration with the stream-affiliated faculty members to design and implement the group research agenda and is responsible for all curriculum, instruction and broad student mentorship. The Research Educator will coordinate with a team of undergraduate peer mentors to oversee research operations including student research progress, infrastructure maintenance as well as management of the fiscal budget. The position empowers the individual to develop a strong portfolio of experience in curriculum development, instruction, mentorship, leadership and research group management.

The Terrapin Genome Project stream will reconstruct

and annotate the genome of the Diamondback Terrapin - the Maryland State reptile and mascot of our University. During this project, students will be involved both in biological activities related to high-throughput DNA and RNA (cDNA) sequencing, and in the bioinformatics analysis of the data being generated. Specifically, the students will contribute to two complementary research objectives: (i) the completion of the assembly of the terrapin genome; and (ii) the improved annotation of genes, gene structures, and gene functions within the assembled genome. The resulting data will be published in public databases (such as those hosted at National Center for Biotechnology Information) as well as in scientific publications.

Minimum qualifications -

PhD in Molecular Biology, Bioinformatics or related field.

Research experience in genomics and bioinformatics with mixed wet-lab and computational expertise.

Experience and strong interest in teaching.

At a minimum the following skills are required:

Laboratory - PCR, DNA extraction

Computational - knowledge of Unix, scripting in Perl/Python, expertise running and analyzing the output of BLAST, expertise using genome browsers.

Additional preferred qualifications -

Strong preference will be given to applicants who have actively participated in genome projects.

Ability to lead a team of undergraduate peer mentors through clear communication and management.

Ability to develop instructional curriculum and protocols for research-based inquiry and discipline understanding.

Ability to effectively teach undergraduate students in lecture and research-based environments.

Ability to mentor students from research, academic and personal perspectives.

Ability to assess student learning through development of formative and summative assessments appropriate for inquiry-based instruction.

Ability to manage research operations including student progress, equipment, consumables and oversight of the fiscal budget.

Ability to effectively communicate with stream faculty members, undergraduate peer mentors, students and institutional colleagues.

Ability to problem-solve, prioritize and manage multi-

ple projects and timelines.

Strong organizational and interpersonal skills including the ability to communicate clearly and effectively.

Ability to work autonomously and collaboratively.

Ability to coordinate multi-author publication development and submission.

Ability to communicate stream and program accomplishment through presentation at relevant conferences.

Ability to serve the FIRE program through oversight of some programmatic component (peer mentor oversight, outreach, marketing, assessment, etc).

Flexibility to grow, adapt and change as FIRE develops at UMD.

Additional information -

The Research Educator position will be supported from January 2015 through December 2017 (3 years) contingent on positive annual reviews (each December 2015 & 2016). The position co-reports to the Director of First-Year Research Programs in the Office of the Provost and Senior Vice President as well the stream affiliated faculty members Dr. Mihai Pop, Dr. Michael Cummings, Dr. Stephen Mount and Dr. Sridhar Hannehalli.

More information about the FIRE program and the Research Educator position is available at the FIRE website: <http://fire.umd.edu/>, and <https://ejobs.umd.edu/postings/29969>. To apply for this position please submit the following documents: a cover letter; a curriculum vitae; a list of three professional references

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UMiami EvoDevo

***Faculty Position in Evolutionary Developmental Biology*

The University of Miami, FL

The Department of Biology at the University of Miami, Coral Gables, Florida invites applications for a tenure-track appointment at the Assistant/Associate Professor

level in Evolutionary Developmental Biology. We are searching for an outstanding scientist addressing fundamental questions in evo-devo; however, applicants who complement the existing strengths of our department and who can also contribute to a university-wide initiative in Biomaterials are particularly encouraged to apply. Potential areas of research interests include, but are not limited to, regenerative studies with a focus on extracellular matrices, the evolution and development of biomineralized structures, plant cell walls, spider silk or other biological novelties that can potentially be exploited for biologically-inspired materials research. We seek candidates with a Ph.D. and postdoctoral experience who have demonstrated creativity and productivity in research and have a strong interest in undergraduate and graduate education. The successful candidate will have the opportunity to interact with a growing community of integrative scientists in the Departments of Chemistry, Physics, Math, Computer Science, Biochemistry, and Psychology, as well as the Miller School of Medicine, Rosenstiel School for Marine and Atmospheric Science, Fairchild Tropical Botanic Garden and Abbess Center for Environmental Science & Policy.

Inquiries may be directed to the Search Chair at evodevo@bio.miami.edu

Details on the Department of Biology and our strengths and foci can be found at:

<http://www.as.miami.edu/biology/> Applications should include a full curriculum vitae listing all publications and contact information of three references. Copies of three relevant publications and statements of research objectives and teaching interests should also be included. A cover letter outlining how the applicant will complement the current research areas of the Department of Biology, and link with a campus-wide initiative on interdisciplinary approaches to biomaterials should be included.

The position will remain open until filled, but to receive full consideration, application materials must be uploaded at <http://content.as.miami.edu/biology/about-the-department/apply/by> November 15, 2014.

The University of Miami is an Equal Opportunity Employer — Females/Minorities/Protected Veterans/Individuals with Disabilities are encouraged to apply. Applicants and employees are protected from discrimination based on certain categories protected by Federal law.

J. Albert C. Uy Aresty Chair in Tropical Ecology Department of Biology University of Miami 1301 Memorial Drive 202/204 Cox Science Center Coral Gables, FL 33146, U.S.A.

Office: 305.284.8558 Lab: 305.284.3039

<http://www.bio.miami.edu/uy/> uy@bio.miami.edu

UMinnesota PlantCurator

Curator, College of Biological Sciences Conservatory, University of Minnesota

Position Description The College of Biological Sciences at the University of Minnesota is a growing and dynamic community of biologists situated in a city consistently cited as one of the most livable in the country. We are recruiting an outstanding organismal plant biologist to serve as director of the college plant conservatory, which houses a large, living collection. The worldwide collection includes over 600 plant species from 7 biomes in 6700 square feet of greenhouse space. The greenhouse plays an essential role in supporting formal classroom instruction, faculty research, and public outreach. We are particularly interested in recruiting candidates with a Ph.D. (or Masters with relevant experience) in evolutionary biology, plant biology, botany, ecology, horticulture, or related fields with a strong interest in plant diversity. The ideal candidate has experience with collections and management, but we strongly encourage all interested persons to apply.

The role of curator requires an individual who is energetic and professional with excellent managerial, organizational, and communication skills. The primary responsibilities will be to curate the conservatory collections, develop innovative programming, oversee greenhouse operations, and manage staff and volunteers. This position offers exciting opportunities to expand and reimagine how the conservatory interfaces with teaching, research, and outreach. The curator will have opportunities to engage in teaching, research, and outreach as part of professional activities and growth in the position.

Applicants should submit the following items as part of their application: - Cover letter describing the candidate's interest and qualifications for the position - Curriculum vitae - Names and complete contact information for three references, including a description of the relationship to the applicant. References will not be contacted without the permission of the candidate.

Review of complete applications will begin on November 17, 2014 and continue until the position is filled. More information on the position and

the College of Biological Sciences can be found at the following website: (www.cbs.umn.edu/explore/departments/plantbio/conservatory-curator)

A complete position description can be accessed via the following human resources website: (employment.umn.edu/applicants/Central?quickFind4946).

Application materials should also be uploaded through this human resources website. Please contact the chair of the search committee with questions about the position.

Environment The University of Minnesota has a large and dynamic community of biologists conducting diverse and cutting edge and developing innovative educational curricula. Our campuses have extensive facilities for research and teaching across the state. The Twin Cities of Minneapolis and St. Paul offer extraordinary quality of life, consistently ranking among the most livable, well educated, and healthy cities.

The University of Minnesota provides equal access to and opportunity in its programs, facilities, and employment without regard to race, color, creed, religion, national origin, gender, age, marital status, disability, public assistance status, veteran status, sexual orientation, gender identity, or gender expression. The University supports the work-life balance of its faculty and staff and especially encourages applications from women and members of under-represented groups.

David Moeller, Search Committee Chair Department of Plant Biology University of Minnesota 1445 Gortner Avenue St. Paul, MN 55416 moeller@umn.edu 612-624-1037

moeller@umn.edu

UMinnesota Pollinator Evolution

We encourage those with expertise in the evolution of plant-pollinator interactions, bee evolutionary biology, pollinator behavior, and the evolutionary ecology of native bee populations to apply for this position.

Assistant Professor, Pollinator Ecology

Position: Full-time, nine-month tenure-track faculty position with responsibilities for Research and Teaching, including advising graduate students, with a focus on pollinator-plant interactions, especially involving native bees. The successful applicant's main responsibility will be to establish a prominent, externally-funded research program. In addition, the success-

ful applicant will teach undergraduate and graduate courses, and participate in departmental, college, and university service activities. The position is jointly supported by the Department of Entomology, College of Food, Agricultural and Natural Resource Sciences (CFANS), and the Department of Ecology, Evolution and Behavior, College of Biological Sciences (CBS), with tenure home negotiable. The position is located on the St. Paul Campus of the University of Minnesota.

Responsibilities - Research: In response to national concern about declining bee pollinator populations, the successful candidate will develop an internationally recognized research program supported by external funding in pollinator ecology with an emphasis on the habitat, nesting, and foraging requirements, and surveys of native bee populations, in areas including Minnesota and the Upper Midwestern United States. Possible research topics include but are not limited to: enhancement of native bee populations and habitat in natural, agricultural and urban landscapes, integrated pollinator management, pollinator community ecology, impact of parasites and pathogens on native bee populations, pollination efficiency, floral specificity, and the ecology, evolution, and behavior of bee pollinators.

Responsibilities - Teaching: The appointee is required to teach a course in pollinator ecology and a graduate-level course in their area of specialization. The use of innovative experiential learning and pedagogy is encouraged. Supervision of graduate students including those from culturally diverse backgrounds, student advising, and performance of University service are expected

Inherent in faculty responsibilities is service to the department, college, and University, which may include serving on and/or chairing faculty committees, task forces, or development and implementation of university policies or programs.

Qualifications - Required: - Ph.D. or equivalent degree in Entomology, Ecology, or related field by date of appointment. - Excellence in written and oral communication. - Research experience relevant to pollinator ecology, biology, and/or behavior. - Experience mentoring graduate or undergraduate students. - Research publication(s) in peer-reviewed journals.

Qualifications - Desired:

- Cross-disciplinary strengths in areas such as insect taxonomy, landscape ecology, behavioral ecology, conservation biology

- Experience working in interdisciplinary teams including individuals from diverse backgrounds

- Capacity and willingness to collaborate with state and

federal agencies on issues related to pollinator protection

-

Evidence of success in obtaining extramural funding -

Post-doctoral experience in pollinator biology and ecology -

Demonstrated commitment to diversity and inclusion

Salary and benefits: The tenure-track position will be filled at the rank of Assistant Professor with a full-time, nine-month (B-term) appointment in the Department of Entomology and/or the Department of Ecology, Evolution and Behavior. Salary will be competitive and commensurate with professional experience and qualifications. Benefits include a competitive faculty retirement program, and group life, medical and dental insurance plans, disability benefits, sick leave, and sabbatical opportunities. Two months of summer salary for the first three (3) years will be covered. A competitive start-up package will be provided.

Date Available: August 31, 2015

Application: Apply online to requisition number 194884 at https://employment.umn.edu/applicants/-jsp/shared/Welcome_css.jsp, and attach CV, college-level transcripts, a statement of research and teaching interests, and future goals, along with the names and addresses of three references. Screening of applicant files will begin December 15, 2014. Any offer of employment is contingent upon the successful completion of a background check.

Direct questions about the application process to: Felicia Christy

Department of Entomology 218 Hodson Hall 1980 Folwell Avenue St. Paul, MN 55108 christy@umn.edu 612-624-3278

Department of Entomology, University of Minnesota: www.entomology.umn.edu College of Food, Agricultural and Natural Resource Sciences:

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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>

UOklahoma 3 EcologicalAndEvolutionaryResponsesToGlobalChange

Although these positions are for ecologists, we think this cluster hire would be of interest to the readers of *evoldir*.

Cluster Hire in Geographic Ecology: three positions at the rank of Assistant, Associate, or Full Professor <http://GE.ou.edu> The Department of Biology at the University of Oklahoma invites applications for three tenured/tenure-track faculty positions at any rank, beginning in fall 2015. We are searching for creative, collaborative thinkers who use integrative approaches to address fundamental ecological questions at regional to global scales. Our ultimate goal is to enhance our expertise in geographical and aquatic ecology toward predicting ecological and evolutionary responses to global change. The search is open to theoretical, lab, and field biologists working on any taxa. In this cluster hire, we seek:

* A Geographical Ecologist who studies phenomena at multiple spatial scales toward understanding large-scale patterns and processes. Innovators in biogeography, macroecology, bioinformatics, and global ecology are especially encouraged to apply.

* An Aquatic Ecologist who studies freshwater ecosystems toward predicting the role of changing water supplies on ecosystem services.

Innovators in biogeochemistry, ecological networks, ecological genomics, river-reservoir systems and land-water interactions are especially encouraged to apply.

* A Physiological Ecologist who studies the origin and maintenance of ecological traits and their ultimate role in the dynamics of population and ecosystem responses to a changing environment. Innovators studying traits involved in metabolic, stoichiometric, thermal and water-related variation and adaptation are especially encouraged to apply.

We are especially interested in candidates who use or combine some of the following three approaches in their work. The first is development and/or testing of models and theory that connect phenomena at scales from local to global. The second is an integrative use of data from gene frequencies to biogeochemistry, species distributions to climate past and future, functional traits to landscapes-to advance theory and identify novel patterns and processes. The third is a desire to apply this research to ameliorating outstanding ecological prob-

lems, including climate change, biodiversity loss, dwindling water supplies, and the degradation of ecosystem services.

The University of Oklahoma is committed to building an international center of excellence exploring the geographical ecology of our evolving biosphere. Successful candidates will join colleagues across campus, including cluster hires in the EPSCoR initiative Adapting socio-ecological systems to increased climate variability. Our shared goal is to build theoretical and empirical bridges across the sciences, to predict the interplay between biotic and climatic changes, and to better steward our natural resources and services. Join us.

How to Apply

Successful candidates will have a Ph.D. degree and a record of outstanding achievement as evidenced by publications. Preferred candidates will have a promising (assistant) or externally funded (associate/full) research program and the ability to lead interdisciplinary, multi-investigator projects across a range of geographic scales. Each individual will be expected to provide excellent training for graduate students and postdocs, and contribute to undergraduate and graduate teaching (one course per semester) in the department.

Applicants should submit a cover letter, complete curriculum vitae, research and teaching statements, and selected reprints/preprints as PDF files to Chair, Geographical Ecology Search Committee, at biologyjobs@ou.edu. Applicants should also arrange to have three signed letters of reference sent to biologyjobs@ou.edu or Department of Biology, 730 Van Vleet Oval, University of Oklahoma, Norman, OK 73019, USA. Applicants at the rank of Associate Professor or Professor may submit names and contact information for three references in lieu of letters. Visit us at <http://biology.ou.edu>. Screening of candidates will begin 3 December

2014 and will continue until the positions are filled.

The University of Oklahoma is an Affirmative Action/Equal Opportunity employer and encourages diversity in the workplace. Protected veterans and individuals with disabilities are encouraged to apply.

Rosemary Knapp Professor and Director of Graduate Studies Department of Biology University of Oklahoma Norman, OK 73019

“Knapp, Rosemary” <rknapp@ou.edu>

USDA Montana PlantHerbivoreInteractions

Biological Control of Weeds Position Sidney, Montana Interdisciplinary: Research Entomologist/ Ecologist, GS-0414/0408-12/13 Salary Range of \$69,497 - \$107,434 per year (GS 12 or 13). Promotion potential of GS-15.

The United States Department of Agriculture, Agricultural Research Service, Northern Plains Agricultural Research Laboratory, Pest Management Research Unit in Sidney, Montana is seeking a permanent full-time Research Ecologist/ Entomologist as a lead investigator in classical biological control of invasive plants of the Northern Great Plains. The research focuses on plant and insect ecology; plant-herbivore interactions; characterization of ecological factors affecting biological control agents (insects or other arthropods) and invasive weeds; invasion ecology; host-specificity and efficacy studies of potential biological control agents; non-target effects of biocontrol on ecological communities; post-release efficacy studies; and long-term monitoring. For details and to apply, see <http://www.usajobs.opm.gov/>. Reference Job Announcement Number ARS-D14W-0060A or search USAJOBS for positions in Sidney, MT. Applications must be post-marked by November 19, 2014. U.S. citizenship is required. USDA/ARS is an equal opportunity employer and provider. Questions? Contact: John Gaskin (406) 433-2020.

John Gaskin Botanist/Research Leader PMRU Acting Research Leader ASRU USDA ARS NPARL 1500 N. Central Ave. Sidney, MT 59270 USA Office: 406.433.2020 Cell: 406.489.1384 Fax: 406.433.5038

“Gaskin, John” <John.Gaskin@ARS.USDA.GOV>

USussex ResTech DrosophilaGenetics

Research Technician (Full-time, 2 years) Ref 847 School of Life Sciences University of Sussex Salary range: starting at £31,342 and rising to £37,394 per annum.

Closing date for applications: 6 November 2014 Expected start date: 1 January 2015

A position as a research technician is available in my lab (Lab website: <http://www.sussex.ac.uk/lifesci/morrowlab/index>) as part of an ERC funded project investigating the genetics of sexual antagonism in the fruit-fly *Drosophila melanogaster*. It will mainly be laboratory based but may also involve some fieldwork. The main duties will involve maintaining fly stocks, performing behavioural assays, as well as developing genetic tools specific to the project requirements. Other duties include maintaining supplies and equipment, and assisting in training staff. The post-holder is expected to work closely with the PI and other members of the group.

The position would be ideal for a highly motivated individual with an interest in evolutionary biology or genetics/genomics. The candidate should have experience with *Drosophila* (lab or field based) or other laboratory model organisms, and should be familiar with a range of molecular biology techniques such as nucleic acid extractions and quality control, quantitative rt-PCR, cloning and genetic tools for driving gene expression or gene editing. The candidate should have excellent organizational and communication skills. The post-holder must have a degree in a biological or related subject.

Ref 847 Further particulars including person specification PDF: <http://www.sussex.ac.uk/aboutus/documents/847-fps.pdf> FULL DETAILS HERE: <http://www.sussex.ac.uk/aboutus/jobs/847> Informal enquiries with CV to ted.morrow@sussex.ac.uk

Email: ted.morrow@sussex.ac.uk Twitter: @ted_morrow
 Webpage: <http://www.sussex.ac.uk/lifesci/morrowlab/>
 ResearcherID: <http://www.researcherid.com/rid/C-2358-2011>
 ResearchGate: https://www.researchgate.net/profile/Edward_Morrow
 Edward H. Morrow Evolution, Behaviour and Environment Group (@SussexBiology) School of Life Sciences University of Sussex John Maynard Smith Building Falmer Brighton, BN1 9QG UNITED KINGDOM

Tel: +44 (0)1273 87 2862 Mobile: +44 (0)783 772 7714

Edward Morrow <ted.morrow@sussex.ac.uk>

USussex ResTech SocialBees

RESEARCH TECHNICIAN IN MOLECULAR/BEHAVIOURAL ECOLOGY OF SOCIAL

SYSTEMS

Fixed term for 36 months, full time Salary range: starting at 27,864 and rising to £ 31,342 per annum. It is normal to appoint at the first point of the salary scale.

Closing date for applications: 10 November 2014 Expected start date : 1 January 2015

We seek an enthusiastic, self-motivated person with an interest in behavioural ecology and genetics/entomology for a 36-month NERC-funded full-time post in the research group of Professor Jeremy Field at Sussex University (<http://www.sussex.ac.uk/lifesci/fieldlab/>). The main aim of the project is to use a combination of approaches from behavioural ecology and quantitative genetics to investigate queen-worker coadaptation and conflict in primitively eusocial sweat bees (*Lasioglossum*). A major part of the work will be microsatellite genotyping, including helping with the development and testing of new marker loci, with initial training provided as required. There will be a range of other work, including a considerable UK fieldwork component. There will be a postdoctoral researcher working with the technician on the project.

The successful applicant will have a degree or equivalent in a relevant subject and an interest in animal behaviour/entomology. Experience with animal social systems (especially social insects), and experience of molecular techniques, behavioural ecology/entomology and fieldwork would be useful, but it is not necessary to have experience in all of these areas.

As well as the standard University of Sussex application form, applicants should send a CV, a covering letter explaining their suitability for the post, a statement of the applicants availability for interview during 21-28 November 2014, and contact details (including email addresses) of 2-3 referees who would be available to provide references before interview. Please also provide a clear statement concerning (a) whether the applicant would be available to start work on 1 January 2015, (b) whether the applicant has a full clean driving licence; (c) that the applicant is not colour-blind (see Person Specification below)

Informal enquiries may be made to Professor Jeremy Field (j.field@sussex.ac.uk).

Closing date for applications: 10 November 2014

Interviews will be held between 21 and 28 November 2014

For full details and how to apply see <http://www.sussex.ac.uk/aboutus/jobs/877> The University of Sussex is committed to equality of opportunity

Jeremy Field <J.Field@sussex.ac.uk>

UTennessee Knoxville SystemsBiol

Assistant Professor Position Molecular or Cellular Systems Biology University of Tennessee, Knoxville

The Department of Biochemistry and Cellular and Molecular Biology at the University of Tennessee, Knoxville invites applications for a tenure-track faculty position at the rank of Assistant Professor in the area of molecular and cellular systems biology. Systems biology seeks to understand and predict how molecules and cells interact and communicate to give rise to emergent properties and behaviors of biological systems. We seek applicants whose research interests lie in understanding central biological phenomena by analyzing multi-dimensional, or large-scale experimental data within a quantitative framework. Ideal candidates will integrate experimentation with biomolecules, genomes, cells, or organisms with a tailored computational approach, such as bioinformatics, in the case of an omic-centered program, and/or mathematical modeling. The successful candidate should address questions that complement existing strengths in the department (cellular and developmental biology, plant and microbial biology, structural biology, neurobiology; see <http://bcmb.utk.edu/> for details). We anticipate that the candidate will also take advantage of scientific interactions with the National Institute for Mathematical and Biological Synthesis on our campus or the nearby Oak Ridge National Laboratory.

A PhD in a relevant field and postdoctoral research experience are required. The successful candidate is expected to establish an innovative, externally funded research program and contribute to the departmental teaching mission at the undergraduate and graduate levels. We are seeking candidates who will actively contribute to the diversity and intercultural goals of the University. The position will start as early as August 1, 2015, and the salary will be competitive. Applications should include a brief cover letter, CV with list of publications, a 2-3 page outline of research interests, and a description of teaching interests. Please email the application as a single pdf file to bcmbsysbio@utk.edu, and arrange for three letters of recommendation to be sent directly to referenceletters@utk.edu. For informal inquiries please contact Albrecht von Arnim, PhD, at vonarnim@utk.edu. Review of applications will begin October 15, 2014 and will continue until the position is

filled.

The University of Tennessee is an EEO/AA/Title VI/Title IX/Section 504/ADA/ADEA institution in the provision of its education and employment programs and services. All qualified applicants will receive equal consideration for employment without regards to race, color, national origin, religion, sex, pregnancy, marital status, sexual orientation, gender identity, age, physical or mental disability, or covered veteran status.

Dept. of Ecology & Evolutionary Biology Office Location: 439 Hesler Biology Building Mailing Address: 569 Dabney Hall University of Tennessee Knoxville, TN 37996-1610 Web page: <http://eeb.bio.utk.edu/-gilchrist.asp> Calendar: <http://www.tiem.utk.edu/~mikeg/calendar.html> Phone: (865) 974-6453 Fax: (865) 974-6042

mikeg@utk.edu

UVermont LabTech PlantGenomics

Lab Technician in Plant Ecological Genomics, University of Vermont

The Keller Lab is looking to fill a technician position in ecological genomics in the Department of Plant Biology at the University of Vermont. The focus of the lab's research is on using high-throughput genotype and phenotype data to understand the evolutionary impacts of changing environmental conditions on natural populations. Our research investigates the genetic architecture of local adaptation, genotype-phenotype mapping, ecological divergence in patterns of gene expression, and genetic signatures of demographic history such as effective population size, structure, and landscape connectivity. Our main study systems are forest trees and invasive plants.

Duties and responsibilities: The technician must be comfortable in both the lab and in the field. Lab work will focus primarily on generating population genomic data for evolutionary analysis (e.g., high-throughput genotyping and sequencing). The position will also include field work involving trait measurements and maintenance of common garden experiments, as well as travel for specimen collecting from natural populations. Additional responsibilities may include growth and maintenance of plants in the greenhouse or growth chambers, ordering of lab supplies, maintaining lab equipment, ensuring lab safety standards, contributing

to manuscript preparation, and assisting undergraduate students.

Qualifications: A B.S. or B.A. in biology is required by the time of appointment. Candidates should have strong organizational skills, and be proficient in standard molecular biology techniques such as DNA/RNA extraction, electrophoresis, primer design, PCR, qRT-PCR, DNA sequencing, genotyping, restriction digests, etc. Desirable experience includes making next-generation sequencing libraries (GBS or RAD-Seq, RNA-Seq, WGS), and the ability to conduct occasional field work under diverse outdoor conditions, including in mountainous, forested terrain.

Start date is flexible, and could begin as soon as a suitable applicant is found. The position is full time and comes with benefits. Funding is available for an initial period of two years, contingent on performance.

Apply through the UVM jobs website: <https://www.uvmjobs.com/postings/13488> Informal inquiries are welcome and should be directed to srkeller@uvm.edu

Visit our websites for more information on the Keller Lab (<http://www.uvm.edu/~srkeller>) and the Department of Plant Biology at UVM (<http://www.uvm.edu/~plantbio/index.php>).

UVM is an Affirmative Action/Equal Opportunity Employer.

Stephen Keller Assistant Professor Department of Plant Biology University of Vermont Burlington, VT 05405 802-656-5121

srkeller@uvm.edu

UWashington ResScientist ExperimentalEvol

Research Scientist/Engineer III Position in STEM Education Research at University of Washington

The Department of Biology has an exciting opportunity for a Research Scientist/Engineer 3, working on issues in STEM education research. This is a full-time, 11-month per year position, to begin as early as November 2014 and continuing for up to five years, working on a Howard Hughes Medical Institute-funded initiative to design and implement authentic research experiences in UW Biologys introductory course sequence, based on experimental evolution in *E. coli*.

The research scientist will develop, test, and assess the experimental evolution systems use in the introductory biology series (Biology 180, 200, 220), including setting up training protocols to build student expertise in reading the primary literature, lab safety, proper use of equipment, maintenance of lab notebooks, data acquisition and analysis, and scientific communication. The research scientist will work closely with course staff and with upper-division undergraduates who will serve as mentors for the introductory students.

Requirements Candidates should have 1) completed a PhD in evolutionary biology in the last three years, 2) proficiency with bioinformatics and an array of molecular biology techniques, 3) excellent organizational, interpersonal, and communication skills, and 4) a demonstrated interest in innovative teaching and discipline-based education research. English fluency is required. Post-doctoral research experience and expertise in project management and course design will be considered an asset.

To apply Applicants must apply through the University of Washington's Hiring System (<https://uw hires.admin.washington.edu/eng/candidates/default.cfm?szLocationID=88>) in response to Requisition #111509. In addition to your resume or curriculum vita (entered directly into the system), please also submit an application letter, statement of research interests, statement of teaching philosophy, and contact information for three references when prompted to complete the assessments. Review of applications will continue until the position is filled.

Dr. Scott Freeman, Principal Lecturer Department of Biology, Box 355320 University of Washington Seattle WA 98115 USA

Scott Freeman <srf991@u.washington.edu>

WashingtonStateU Vancouver MicrobialEvolution

WSU's School of Biological Sciences has a strong research group in evolutionary biology; Microbial ecology applicants with an evolutionary emphasis are welcome.

FACULTY POSITION IN MICROBIAL ECOLOGY

The School of Biological Sciences at Washington State University invites applications for a nine-month, full-time, tenure-track Assistant Professorship in Microbial Ecology at WSU's Vancouver Campus. We espe-

cially encourage applications from scientists who employ modern bioinformatic or genomic approaches to understand the ecology of microorganisms that mediate ecosystem services or interact with various anthropogenic stressors such as global change, contaminant loading, land use change, resource exploitation, or biological invasions.

Washington State University is a multi-campus, Tier I research institution with a commitment to research, graduate, and undergraduate training, instruction, and extension. The School of Biological Sciences is comprised of 51 faculty distributed over three WSU campuses with routine interaction across campuses. WSU Vancouver offers competitive salaries and start-up packages, and research expectations and teaching loads are consistent across the four WSU campuses. WSU Vancouver is a rapidly growing campus (currently ~3,200), with science and engineering as areas of emphasis. WSU Vancouver is located on a beautiful 351-acre campus across the Columbia River from Portland, Oregon, offering numerous opportunities for research and collaboration with a variety of nearby institutions (e.g. the USGS Cascades Volcanoes Observatory, USFS Pacific Northwest Research Station, Portland State University, Oregon Health Sciences University), and an excellent quality of life. For additional information on WSU Vancouver see <http://vancouver.wsu.edu/>. For additional information on WSU Vancouver-based faculty and research programs see <http://cas.vancouver.wsu.edu/science-graduate-programs/faculty-research>. Requirements: 1) PhD in microbiology, ecology, or a related discipline by Dec. 31, 2014, 2) Successful, externally-funded research program in microbial ecology or demonstrated potential to develop such a program, 3) Strong publication record relative to career stage, 4) Demonstrated ability or potential to mentor graduate students and direct graduate research, 5) Demonstrated ability to develop and teach undergraduate and graduate courses that complement the existing curriculum, 6) Ability to serve under-represented groups and to contribute to WSU's diversity goals in research, teaching, mentoring, and/or service (<http://admin.vancouver.wsu.edu/office-chancellor/wsu-vancouver-strategic-plan>). Preferred candidates will also 1) apply modern bioinformatic or genomic approaches to elucidate microbial ecology, 2) ability to complement existing research strengths and collaborate in the College of Arts and Sciences on the Vancouver Campus and across the WSU system.

Duties: Establish and maintain an externally-funded research program and a strong publication record, teach

undergraduate and graduate courses in microbial ecology and other areas of expertise, mentor undergraduate and graduate students, provide academic service, and contribute to WSU diversity goals.

Application: Upload electronic copies of the following to position 109061 at <https://www.wsujobs.com/>: 1) A cover letter discussing training and experience as related to each of the 6 required and 2 preferred qualifications, 2) curriculum vitae, 3) a statement of teaching philosophy and interests, 4) A summary of research accomplishments and plans for future research, 5) A statement of ability or potential to contribute to WSU's diversity goals, 6) Copies of 2 publications, and 6) three letters of reference.

For full consideration applications must be complete (including required letters of recommendation) by Nov. 17, 2014. Direct inquiries about the search via email to Dr. John Bishop, search committee chair, bishopj@vancouver.wsu.edu (include subject 'Microbial Ecology Search').

Washington State University is an equal opportunity/affirmative action educator and employer. Members of ethnic minorities, women, special disabled veterans, veterans of the Vietnam-era, recently separated veterans, and other protected veterans, persons of disability and/or persons age 40 and over are encouraged to apply. WSU is committed to excellence through diversity, has faculty friendly policies including a partner accommodation program, and a NSF ADVANCE Institutional Transformation grant (www.excelinse.wsu.edu/).

John Bishop, PhD Professor, School of Biological Sciences Program Leader, Vancouver Biological Sciences Washington State University

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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>

WayneStateU SystemsBiology

The Department of Biological Sciences at Wayne State University (<http://www.clas.wayne.edu/biology/>) is searching for one tenure-track faculty member specializing in systems biology or microbiology. Rank is open depending upon qualifications. The systems biologist

may work at the molecular, cellular, organismal or community level in areas complementing the department's existing strengths in development, neurobiology, transcription, evolution or ecology. Areas of interest in microbiology include, but are not limited to, bacteriology, virology, immunology, host-pathogen interactions, environmental microbiology or infectious disease processes.

Wayne State University is a large, comprehensive, nationally ranked research institution that offers state-of-the-art research facilities and highly competitive start-up packages. The metropolitan Detroit area offers a rich cultural and educational environment, an excellent standard of living, and easy proximity to Michigan's lakes, forests and recreational sites. Applicants must have a Ph.D. degree, postdoctoral experience and an outstanding record of research achievement. Successful applicants are expected to establish and maintain vigorous, externally funded research programs and to participate in graduate and undergraduate education.

Please apply on-line at jobs.wayne.edu. In addition to the online application that includes cover letter and curriculum vitae, applicants must submit a 2-page statement of their research plans and have three letters of reference sent directly to the Faculty Search Committee: ad5348@wayne.edu. Please apply by November 15, 2014 for full consideration.

Applications will be considered only when all materials have been received. Wayne State University is an affirmative action/equal opportunity employer. Women and members of minority groups are especially encouraged to apply.

cfan@wayne.edu

Yale NatlUSingapore EvolutionaryBiol

FACULTY POSITIONS IN LIFE SCIENCES

Yale-NUS College, a collaboration between the National University of Singapore (NUS) and Yale Univer-

sity, is seeking to hire one or more open rank, tenure-track, or tenured faculty members to complement our existing biology faculty. Preference will be given to those with an ability to teach across disciplinary boundaries and whose research is suitable to the involvement of undergraduates. Examples might include computational biology, microbial physiology, and developmental genetics of model organisms, but these examples are not meant to preclude any other area of research.

Successful candidates will teach both within their specialties and in the Yale-NUS Common Curriculum, an innovative set of required courses that include Scientific Inquiry, Quantitative Reasoning, and Foundations of Science (or Integrated Science for those likely to major in science). For information about the Common Curriculum, please refer to <http://www.yale-nus.edu.sg/-curriculum/common-curriculum>. Salary, benefits, and leave policies will be competitive at an international level. Yale-NUS College is committed to supporting faculty research through various grants, research, and travel allowances; institutional assistance with proposal preparation; and administration of external grant funding. Full-time appointments are preferred, but joint appointments with other units of NUS may be negotiated.

Applications are currently being accepted and reviewed, and review will continue until the positions are filled. Candidates are encouraged to submit their materials as soon as possible. For general inquiries, please refer to <http://www.yale-nus.edu.sg>, or email Jon Berrick, Search Committee Chair and Professor of Science, at: yale-nus.college@yale.edu.

Yale-NUS College values diversity and is committed to equality of opportunity. For additional information about the College and the faculty hiring process, including submission guidelines, and to apply, please visit our website at: <http://www.yale-nus.edu.sg/-careers/faculty/>. To directly access the application portal, please visit: <https://academicjobsonline.org/ajo/YaleNUS>. Emily Marie Smith Assistant Director, Yale-NUS College New Haven Office for Planning and Development Yale Office of the Vice President for Global Initiatives 282 York Street, 2nd Floor New Haven, CT 06511 203-432-1317 (office) emily.m.smith@yale.edu <http://www.yale-nus.edu.sg/> "Smith, Emily" <emily.m.smith@yale.edu>

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Bee GeneticDifferentiation reminder

Dear EvolDir Members,

if you have seen our announcement of three weeks ago and you have a study that satisfies the criteria specified then (see below), we would be very grateful, if you could contact us in the next week.

Thank you

Margarita Lpez-Urbe mmlopezu@ncsu.edu> Shalene Jha sjha@austin.utexas.edu Antonella Soro antonella.soro@zoologie.uni-halle.de

As part of a meta-analysis on bee population genetics, I request information regarding population differentiation indices in bees. This request is part of a collaborative study between myself, Shalene Jha (Assistant Professor in the Department of Integrative Biology at the University of Texas at Austin), and Margarita Lpez-Urbe (Postdoctoral Researcher at North Carolina State University).

So far, we have examined studies acquired through the Web of Science, but we would like to increase our sample size with the incorporation of additional studies (published or unpublished).

Specifically, we are looking for data sets where bee population genetics analyses have been conducted with:

at least 5 microsatellite markers

at least 20 unrelated individual per population

at least 5 populations

If you have one or more data sets that satisfy these criteria and are willing to contribute, please provide us

with the reference to your work (if published) and the Fst estimator with 95% CI. We would also be interested in Gst (Hedrick 1995) and Josts D (Jost 2008) if you have those available, too.

Your contribution would obviously be acknowledged and your publication(s) cited.

We'd like to publicly thank the individuals whom we've already contacted directly and who generously offered their data.

Thank you very much in advance

Antonella Soro

antonella.soro@zoologie.uni-halle.de

Antonella Soro <antonella.soro@zoologie.uni-halle.de>

CambridgeUnivPress BookOffer

I have received a \$300 book credit from the Cambridge University Press (thanks to my contribution to Michael Ruse's The Cambridge Encyclopedia of Darwin and Evolutionary Thought.) I cannot hope to order this dollar amount of books. If you are a graduate student or postdoc or a scientist (especially from a developing country) in need of a particular CUP title but lack the funds to purchase the book, please email me details of your desired book by October 15, 2014 (orzack@freshpond.org). One book per person please. I will sort through the requests and choose some. If you are chosen, I will arrange for CUP to send you the book. please request a book that costs up to \$30 or so.

S.

Steven Orzack

The Fresh Pond Research Institute 173 Harvey Street
Cambridge, MA. 02140 617 864-4307

www.freshpond.org orzack <orzack@freshpond.org>

ChromosomePairing in DiploidHybrids

Please can anyone quote me a published case of a diploid hybrid that has some of its chromosomes homologous such that at meiosis they pair fully and regularly while the rest are without partners.

Meiosis in Diploid Hybrids

David Harberd

In a recent (failed) attempt at publishing in a reputable scientific journal I mentioned, correctly as I believe, the comment that during meiosis in diploid hybrids EITHER all of the chromosomes are involved in bivalent formation, each being paired with a homologue so that every gene comes to lie alongside its allele from the other parent OR there are no homologues in the complement, all 'pairing' observed being random and casual resulting in few, if any, of the genes lying alongside an allele. I can still recall my own shock-horror/incredulity when I realized that this was the inevitable conclusion from the fact that I could trace no records to any cases of diploid hybrids with both some chromosomes with homologues and some without. My referees were obviously struck with the same incredibility and refused to believe it - one going so far as to state that he knows of several cases that refute it. I begged him to put me out of my misery and to share his knowledge, but I got no reply: I wonder why.

I do not make the claim lightly. I do have 70 years of experience in the field (I graduated 67 years ago). Furthermore I do realize the appalling implications for some treasured beliefs resulting from this seemingly trivial comment. If it is correct then firstly it means that chromosome pairing is controlled genomically rather than by the individual chromosomes themselves, all of the chromosomes of one genome being tarred with the same brush. Secondly, and much more critically, it means that genomes did not arise gradually, chromosome by chromosome, in a Darwinian evolution: they emerged abruptly, suddenly, all complete with a full set of new chromosomes; from the outset they were both fertile within their own bounds and isolated from all previous genomes. Finally it means that the full force

of Darwinian Natural Selection does not come into play until after the origin of genomes. All quite ridiculous and impossible of course - but remember this: once and not so very long ago (in my student days) it was sheer madness to suggest that Africa and America could ever have been contiguous and that they had drifted apart. Impossible it might have been but nevertheless it has come to pass - and this is not a unique change of heart in the history of knowledge. Please can anyone quote me a published case of a diploid hybrid that has some of its chromosomes homologous such that at meiosis they pair fully and regularly while the rest are without partners.

Thank you, David Harberd

"DJ.Harberd" <dj.harberd@gmail.com>

Dactylorhiza incarnata maculata samples

Dear EvolDir,

For a project on the population genetics of *Dactylorhiza majalis*, we are looking for samples of *D. incarnata* and *D. maculata* to use as references. Does anybody have samples of DNA or leaf material that he or she would be willing to share?

Best regards,

Ludo.

Dr. Ludo A.H. Muller Freie Universität Berlin Institut für Biologie - Botanik Altensteinstraße 6 14195 Berlin Germany Tel. +49 (0)30 838 56539 Fax +49 (0)30 838 4 56539 E-mail: ludo.muller@fu-berlin.de Homepage: <http://userpage.fu-berlin.de/~ludom/> ludo_muller@yahoo.com

ESEB GodfreyHewittAward CallApplications

Godfrey Hewitt Mobility Award 2015 V Call for Applications

Godfrey Hewitt (1940-2013) was President of the European Society for Evolutionary Biology (ESEB) from

1999-2001. He was exceptionally influential in evolutionary biology both through his research and through his mentoring of young scientists. He was also a great believer in seeing organisms in their environment first-hand and in exchanges of ideas between labs. Therefore, ESEB has decided to offer, annually, mobility grants for young scientists in his name.

Closing date: Friday 16 January 2015, 12.00 GMT.

Eligibility:

The award is open to PhD students or postdoctoral scientists who are, at the closing date for applications, both within 6 years of the start date of their PhD and ESEB members. The maximum single award will be 2000 Euros. It must be used to support fieldwork or a period of research at a lab that you have not previously visited. There is no restriction on the country of residence or nationality of the applicant but preference will be given to applicants who are unlikely to be able to fund the proposed work by other routes. Preference will also be given to self-contained or seed-corn projects, rather than fundamental elements of already-funded PhD or postdoctoral projects, and to projects with a definable output that is achievable within the scope of the GHM award. A report will be required by 30 April 2016, by which time the funds must have been used.

Application procedure:

Your application should be sent as a single PDF file to Ute Friedrich at the ESEB office, office@eseb.org. It should include your name, current status and institution, your PhD start date, your ESEB membership number, a description of the work to be carried out (maximum 500 words), an outline budget with brief justification (maximum 100 words) and a signed statement from your PhD supervisor or postdoctoral adviser (maximum 100 words) explaining why the work cannot be funded from your institution.

Applications will be considered by a committee chaired by Roger Butlin. The aim will be to announce decisions before the end of March 2015.

Sincerely, Ute Friedrich ESEB Office Manager

– Email:office@eseb.org Homepage:www.eseb.org
ESEB <office@eseb.org>

John Maynard Smith Prize 2015: Call for Nominations

Every year the European Society for Evolutionary Biology (ESEB) distinguishes an outstanding young evolutionary biologist with a prize named after John Maynard Smith (1920 - 2004), eminent scientist, great mentor, author of many books on evolution, and a former President of ESEB.

Nomination:

The prize is open to any field of evolutionary biology. The candidates for the 2015 prize must have begun their PhD study after January 1, 2008. The nomination of the candidate may be by a colleague or self-nominated. The nominations should be sent as a single PDF file to Ute Friedrich at the ESEB office <office@eseb.org>. The nomination should include a brief justification, the candidate's CV and list of publications (indicating three most significant papers), a short description of future research plans, and a letter from the candidate approving the nomination. A letter of reference from another colleague (or two in case of self-nomination) should be sent directly to Ute Friedrich.

Nominations should arrive no later than January 15, 2015. Please take care to limit the size of attachments (total < 10 MB) in any one email.

The nomination committee, chaired by ESEB Vice President Dieter Ebert, will evaluate the nominations and inform the winner approximately by the end of February 2015.

The prize winner is expected to attend the ESEB congress in Lausanne, Switzerland (10-14 August, 2015), where he or she will deliver the John Maynard Smith Lecture. The Society will cover registration, accommodation, and travel expenses (economy fare). The JMS Prize comes with a monetary prize of 2500 and the possibility of a Junior Fellowship of generally 3 months at the Institute of Advanced Study (Wissenschaftskolleg) in Berlin, Germany. For more information on the Wissenschaftskolleg see www.wiko-berlin.de/en/. Previous winners of the JMS Prize are listed on the ESEB web site: www.eseb.org. Sincerely, Ute Friedrich ESEB Office Manager

– Email: office@eseb.org Homepage: www.eseb.org
ESEB <office@eseb.org>

ESEB MaynardSmith Prize
CallNominations

Evolution Intro Textbook Suggestion

Dear all,

next semester i will be teaching an introductory course on evolution for 4th year elementary science education students.

we have only 40 hours, so we cannot go too much in depth. the students' background in biology is also limited to a few biology courses. i'm therefore looking for a brief, simple undergraduate textbook on evolution.

would anyone have any suggestions?

thank you very much in advance!

mehmet

Mehmet Somel METU Dept. Biology / ODTÜ Biyoloji Bölümü 06800 Ankara, Turkey Tel: +90-543-9799060; Office: +90-312-2106460 Email: msomel@metu.edu.tr Web: <http://bio.metu.edu.tr/pp?un=3Dmsomel> somel.mehmet@googlemail.com

GeneticDiversity AfterDisturbance

Hi all,

I've been working on the population genetics of a species of subterranean rodent in response to catastrophes, and as part of that work, I've been getting some puzzling signs of increased genetic diversity across certain molecular markers (i.e. microsatellites) after catastrophes. While this is preliminary data, I'm puzzled by these results; there's only been one other instance of such a phenomenon I've been able to find in the literature (Wilmer et al. 2011), and they also stated that it was mechanistically difficult to explain. I wanted to reach out and see if anyone had suggestions on this, particular things to look for in genetic data, further insight, or is aware of other similar cases.

Thanks in advance!

Best, Jeremy

jllhsu@stanford.edu

INNGE constituent survey

Hello EvolDirers,

I want to let you all know about a short (5 minute) survey about the International Network of Next-Generation Ecologists (INNGE). We hope you would like to take the survey if you would like to be involved with the INNGE open network or already are (e.g. via the INNGE mailing list, Twitter account: @INNGE-ecologist, or Facebook group).

Take the survey via this link: <http://tinyurl.com/-k3xp3da> The survey is aimed to give a better characterization of the international network in terms of interests and demographics. It is also your chance to point out what you would like to see INNGE do in the future. The survey collects anonymous information (no personal ID or contact is requested).

The collected data will be used to inform INNGE's governing board and working group, and in turn ensure that INNGE is reaching and representing the needs of early-career ecologists worldwide.

The survey contains 22 short questions, and it will take you approximately 5 minutes, should you decide to take it.

Help with spreading the word about this survey would also be greatly appreciated.

Many thanks!

Rachel White Membership coordinator and governing board member of INNGE

Dr Rachel White Lecturer in Ecology and Conservation School of Pharmacy and Biomolecular Sciences, University of Brighton, UK Cockcroft Building, Level 8, Room 804 Twitter: Rach_L.White Skype: rachel.zoo LinkedIn: <https://www.linkedin.com/in/-rachwhite> R.White2@brighton.ac.uk

InvasiveButterfly CrowdFunding

Citizen science project to do population genomics on an invasive butterfly needs help with crowd-funding

<https://experiment.com/projects/pieris-project-using-citizen-science-to-learn-how-species-will-respond-to-climate-change> Sean Ryan PhD Candidate Hellmann Lab 299A Galvin Life Sciences Center University of Notre Dame PH: (408) 391-5960 <http://www.theryanlab.com/> sryan6@nd.edu

NESCent CallForProposals

Dear friends of NESCent,

I wanted to bring your attention to additional calls for proposals. Please help us spread the word among your societies, lists, and newsletters.

Cheers Craig

CATALYSIS MEETINGS Proposals for Catalysis Meetings in Evolutionary Medicine are now being accepted at The National Evolutionary Synthesis Center (NESCent). We are looking to support innovative approaches to outstanding problems, specifically in areas related to evolutionary medicine. Appropriate areas of inquiry include any field of evolutionary science that is relevant to medicine, or to human or animal health. Examples include, but are not limited to, evolution of infectious or zoonotic disease, evolutionary issues in global health, evolution of aging, evolution of fertility, autoimmune disease and allergy, evolutionary perspectives on cancer, and evolution of disease-relevant micro-organisms. Proposals that have a clear interdisciplinary focus, and involve evolutionary concepts in any health- or disease-related area, are strongly encouraged, as are proposals that demonstrate international participation and a mix of senior and emerging researchers, including graduate students. Deadline for proposals is Nov 1, 2014. All meetings must be completed by Sep 30, 2015. For more information, please see our website at <http://nescent.org/science/EvolutionaryMedicineCatalysis.php> GRADUATE FELLOWSHIPS for NC GRADUATE STUDENTS Proposals for 1-semester Graduate Fellowships in fields related to Evolutionary Medicine are now being accepted at The National Evolutionary Synthesis Center (NESCent). We are looking to support innovative approaches to outstanding problems in any field of evolutionary science that is relevant to medicine, or to human or animal health. Examples include, but are not limited to, evolution of infectious or zoonotic disease, evolutionary issues in global health, evolution of aging, evolution of fertility, autoimmune disease and allergy,

evolutionary perspectives on cancer, and evolution of disease-relevant micro-organisms. Eligible students are those at any North Carolina academic institution with an accredited graduate program in a relevant field; students may remain resident at their home institution during the fellowship, or travel to another institution. Evidence of engagement, during the fellowship, with other activities relevant to evolutionary or comparative medicine in NC will be viewed positively. The deadline is Nov 1 (for the spring semester 2015 fellowship), Feb 1 (for the summer semester 2015 fellowship) and Apr 1 (for the fall semester 2015 fellowship). For more information, please see our website <http://nescent.org/science/TriangleGraduateFellowships.php> Craig R. McClain, Ph.D. Assistant Director of Science National Evolutionary Synthesis Center 2024 W. Main St. Suite A200, Box 104403 Durham, NC 27705 919-668-4590, cmccclain@nescent.org

Assoc. Editor for Proceedings of the Royal Society, B <http://rspb.royalsocietypublishing.org/> Chief Editor for Deep-Sea News: <http://deepseanews.com/> National Evolutionary Synthesis Center: <http://www.nescent.org/> Research Homepage: <http://craigmcclain.com/> McClain Craig <cmccclain@nescent.org>

NESCent EvolutionaryMedicine CallForProposals

CATALYSIS MEETINGS Proposals for Catalysis Meetings in Evolutionary Medicine are now being accepted at The National Evolutionary Synthesis Center (NESCent). We are looking to support innovative approaches to outstanding problems, specifically in areas related to evolutionary medicine. Appropriate areas of inquiry include any field of evolutionary science that is relevant to medicine, or to human or animal health. Examples include, but are not limited to, evolution of infectious or zoonotic disease, evolutionary issues in global health, evolution of aging, evolution of fertility, autoimmune disease and allergy, evolutionary perspectives on cancer, and evolution of disease-relevant micro-organisms. Proposals that have a clear interdisciplinary focus, and involve evolutionary concepts in any health- or disease-related area, are strongly encouraged, as are proposals that demonstrate international participation and a mix of senior and emerging researchers, including graduate students. Deadline for proposals is Nov 1, 2014. All meetings

must be completed by Sep 30, 2015. For more information, please see our website at <http://nescent.org/science/EvolutionaryMedicineCatalysis.php> GRADUATE FELLOWSHIPS for NC GRADUATE STUDENTS Proposals for 1-semester Graduate Fellowships in fields related to Evolutionary Medicine are now being accepted at The National Evolutionary Synthesis Center (NESCent). We are looking to support innovative approaches to outstanding problems in any field of evolutionary science that is relevant to medicine, or to human or animal health. Examples include, but are not limited to, evolution of infectious or zoonotic disease, evolutionary issues in global health, evolution of aging, evolution of fertility, autoimmune disease and allergy, evolutionary perspectives on cancer, and evolution of disease-relevant micro-organisms. Eligible students are those at any North Carolina academic institution with an accredited graduate program in a relevant field; students may remain resident at their home institution during the fellowship, or travel to another institution. Evidence of engagement, during the fellowship, with other activities relevant to evolutionary or comparative medicine in NC will be viewed positively. The deadlines is Nov 1 (for the spring semester 2015 fellowship), Feb 1 (for the summer semester 2015 fellowship) and Apr 1 (for the fall semester 2015fellowship). For more information, please see our website <http://nescent.org/science/TriangleGraduateFellowships.php> “Craig McClain, Ph.D.” <craig.mcclain@duke.edu>

Phyloseminar DavidRasmussen Oct16

next talk:

David Rasmussen: Statistical inference for phylodynamics, 2014-10-16 09:00 PDT

Phylogenetic methods are widely used to estimate demographic parameters and historical population dynamics from genealogies of individuals sampled from a population. In this phyloseminar, I will describe how we can understand genealogies in terms of basic demographic or ecological processes, and how these concepts can be used to develop statistical models for inference. In particular, I will discuss some similarities and differences between the two main modeling frameworks in phylodynamics: the coalescent and birth-death models. I will also briefly introduce some of the latest statistical methods currently used to fit these models to genealogies. I will end by discussing one of the main challenges

facing the field—adequately representing the structure of complex, heterogenous populations in phylodynamic models.

For more details, see <http://phyloseminar.org/>. Frederick “Erick” Matsen, Assistant Member Fred Hutchinson Cancer Research Center <http://matsen.fhcrc.org/matsen@fhcrc.org>

Phyloseminar MatthewHall Oct9

Matthew Hall: Epidemic reconstruction in a phylogenetics framework, 2014-10-09 09:00 PDT

Major recent advances in genome sequencing technology make it feasible that in future epidemics, a sequence will be available for every clinical case that can be identified. In some scenarios, such as agricultural epidemics (where farm-to-farm spread is of more interest than animal-to-animal), diseases such as HIV (where most infected individuals will eventually present themselves to clinicians), and epidemics occurring in well-monitored populations such as hospital inpatients, we will as a consequence be able to acquire a set of sequences representing the pathogens infecting most or all cases in the transmission chain. Genetic data therefore provides an important new tool for the investigation of epidemics, in particular the determination of the epidemic’s transmission tree, which describes which case infected which others. As the genetic diversity in a set of sequences taken from the same epidemic will not be enormous even for fast-evolving RNA viruses, the best approach would be to combine both genetic and epidemiological data. I present here a new method for transmission tree reconstruction which is integrated into the Bayesian phylogenetics framework available in BEAST. It is based on the observation that if the phylogeny is known, there is a one-to-one correspondence between possible transmission trees and partitions of the internal nodes of the tree into connected subgraphs. The MCMC procedure in BEAST has been modified to sample from the space of trees with nodes partitioned in this way, simultaneously estimating both phylogenetic tree and transmission tree. Rather than assuming that the entire tree is generated by a single coalescent process, the posterior probability of a phylogeny is now calculated based on an individual-based model of disease transmission, which can take into account epidemiological characteristics of the host cases, such as spatial location. I will outline results using simulated data and

sequences from the 2003 Dutch epidemic of H7N7 avian influenza.

For more details, see <http://phyloseminar.org/> – Frederick “Erick” Matsen, Assistant Member Fred Hutchinson Cancer Research Center <http://matsen.fhcrc.org/> Erick Matsen <matsen@fhcrc.org>

SanDiegoZoo Cryopreservation

Dear Colleagues (with apologies for duplicate postings):

***PLEASE DISTRIBUTE TO OTHER LISTS AS YOU THINK APPROPRIATE*:**

I am asking for help in locating active tissue/cell line cryopreservation programs for endangered species. The extant population of the Catarina Pupfish, *Megupsilon apodus*, now consists solely of two males at the Dallas aquarium; the single known natural population was wiped out in the 1990's. The species is essentially already extinct. I have been trying to find a program that would be interested in establishing and preserving cell lines or even simply storing tissue samples from one or both of the last surviving individuals. I thought I had located one such program associated with the San Diego zoo. What follows is the text of an e-mail I sent that program on 6 October:

'San Diego Zoo Institute for Conservation Research
15600 San Pasqual Valley Road Escondido, California
92027

The unique 'Catarina Pupfish,' *Megupsilon apodus*, is now effectively extinct, because the captive refugium population previously maintained by the Dallas Aquarium now consists of two males and 0 females. The single known natural population, confined to a single spring in central Mexico, was wiped out in the early 1990's when the habitat was completely destroyed, and the two Dallas individuals are the last representatives of the species on the planet.

I am therefore asking if your 'frozen zoo' program would be interested in adding biological material from *M. apodus* to your collection. Assuming that is the case, I would appreciate it if you would let me know the steps that need to be taken so that this may be accomplished. I am not well versed in tissue culture and related techniques, but I suspect that the technology does exist to derive cell lines from the extant animals and cryopreserve them. Put more simply, we need to know just what to do next.

It is my understanding that the surviving two *M. apodus* males will shortly be in the possession of Dr. Chris Martin at Berkeley. He is planning to attempt to hybridize them with females of a related species, *Cyprinodon alverezi* (which has been accomplished by others in the past) and hopes to eventually to use new genome editing tools to selectively remove the *C. alverezi* genes from the hybrid lineage. I believe that it will very likely be possible for him to take tissue samples (perhaps from fin clips) from one or both males that could be used to initiate cell lines.

Among the many ways in which *M. apodus* is unusual or unique is its multiple sex chromosome system, which was the first example to be described in vertebrates. While similar systems have subsequently been described in other fish species, the enormous Y chromosome of *M. apodus* has no known equivalent, and it should be of great interest to students of sex chromosome evolution. Even if the species itself cannot be restored by contemporary conservation efforts, it would be extremely worthwhile to preserve its cells so that its Y chromosome will be available to cytogeneticists in the future. '

This e-mail has thus far elicited no response. While I do realize that only a few days have passed since I sent it, I would have thought that the obvious urgency of the situation would have merited at least a formal acknowledgement of receipt. I am concerned that my information may not be correct, or that I addressed it to the wrong person, and that precious time may be wasted. Consequently, I'm asking for help in locating other programs and/or finding the proper routes to approach them, or in networking that might lead to these goals. Any help would be greatly appreciated.

Bruce Turner

Bruce Turner <fishgen@vt.edu>

SequenceBundles software testers

Invitation to test Sequence Bundles - a new method for visualising motifs and MSAs

Dear Evoldir members,

Over the past year, Science Practice together with the Goldman research group at the European Bioinformatics Institute (EBI) have been working together to design a new free open source interactive tool for visualising, exploring and discovering sequence motifs using a new

visualisation method called Sequence Bundles.

We're launching the alpha version of the tool within the next couple of days and are looking for researchers in the field interested in testing it.

As well as making sure that the software we are creating is functional and accessible, we are interested in its ability to support research by enabling exploration and the discovery of otherwise hidden motifs and features.

If you are interested in trying the Sequence Bundles visualisation tool and willing to help us design and develop a valuable tool for researchers, please get in touch (by emailing ana@science-practice.com).

We will send you the alpha version of the Sequence Bundles software and a brief overview of its key features and how to use them. We would be very grateful if after trying out the tool you would be available for a short call to give us your feedback. We're interested not only in the functionality of the tool, but also on the added value of the visualisation - does it enable the discovery of interesting motifs, does it help generate new insights into your data and research?

You can read more about the design process that led to the development of Sequence Bundles as well as the discoveries we made using the visualisation in the paper we wrote for BMC Proceedings at <http://www.biomedcentral.com/1753-6561/8/S2/S8> or on our project page at <http://science-practice.com/projects/sequence-bundles/> If you know of anyone else who would be interested in trying out Sequence Bundles please let us know or feel free to forward them this invitation.

Thank you very much for your time and looking forward to learning how Sequence Bundles can help inform your research!

Sequence Bundles Team (including Nick Goldman)

Nick Goldman <http://www.ebi.ac.uk/research/goldman> European Molecular Biology Laboratory tel: +44-(0)1223-492530 European Bioinformatics Institute tel: +44-(0)1223-494522 Wellcome Trust Genome Campus, Hinxton, Cambridge CB10 1SD, UK
goldman@ebi.ac.uk

TansleyMedal for PlantEvolution

Calling all early-stage career scientists!

The New Phytologist Tansley Medal is awarded annually in recognition of an outstanding contribution to research in plant science by an individual in the early stages of their career (student and post-doctoral researchers with up to five years' experience since gaining/defending their PhD are eligible). The winner will receive a prize of £2000 (GBP) and will author a short review that will be published in New Phytologist accompanied by a comment from the Editor-in-Chief and Tansley reviews Editor. The application deadline for this year's Medal is *1 December 2014*.

New Phytologist highlights the importance of plant evolution by dedicating one of its four key sections to this research area, covering studies from the molecular to ecological level. One of last year's co-winners, Dr Jing-Ke Weng, is a plant evolutionary biologist from the Whitehead Institute, Massachusetts Institute of Technology, USA whose research focuses on plant metabolic evolution. Read Jing-Ke's winning Minireview 'The evolutionary paths towards complexity: a metabolic perspective' here: <http://onlinelibrary.wiley.com/doi/10.1111/nph.12416/full>.

(The other co-winner of the 2013 Tansley Medal was Dr Li-Qing Chen of the Carnegie Institution for Science, USA whose winning Minireview is entitled 'SWEET sugar carriers for phloem transport and pathogen nutrition' < <http://onlinelibrary.wiley.com/doi/10.1111/nph.12445/abstract> >'.)

The Tansley Medal is an opportunity to award recognition to an outstanding scientist in the early stages of his or her career and supporting and nurturing the next generation of plant scientists is a core aspect of the activities of the New Phytologist Trust. I would be very grateful if you would support us in this endeavour by spreading the word to anyone you know who might be eligible to apply for the 2015 Tansley Medal. If you have any queries regarding the medal or the submission process please do not hesitate to get in touch. More details on the Medal can be found at: <http://www.newphytologist.org/tansleymedal> . Many thanks,

Michael

Dr MICHAEL PANAGOPULOS Development Coordinator, New Phytologist

New Phytologist Central Office, Bailrigg House, Lancaster University, Lancaster, LA1 4YE, UK
Tel: + 44 1524 592839 Fax: + 44 1524 594696 Email: m.panagopulos@lancaster.ac.uk Website: www.newphytologist.org Twitter: @NewPhyt Facebook: [fb.com/NewPhytologist](https://www.facebook.com/NewPhytologist)

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2015 Tansley Medal application deadline 1st Dec

2014 www.newphytologist.org/tansleymedal New Phytologist Symposia 2015 Genomes of forest trees (Boston, USA) // Plant-microbe interactions (Munich, Germany) www.newphytologist.org/symposia
m.panagopoulos@lancaster.ac.uk

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**ChungbukNatIU SouthKorea
MarineAnimalSequencing**

Chungbuk National University in South Korea

Postdoctoral research associate position on Genome sequencing of marine animals and invertebrates

The Marine Genome 100+ Korea *project*, a newly

initiated large scale genomics project, aims to determine the sequences of whole genomes and transcriptomes of > 100 selected marine species. The position will primarily involve the analysis of NGS (Next Generation Sequencing) data from marine animals and invertebrates and extensive study of their genomes using phylogenomics and comparative genomics approaches. We seek a bright and highly motivated and enthusiastic person able to work both as part of a team and independently.

The candidate will be responsible for:

- Managing NGS data and analyses;
- Proactively identifying and incorporating new algorithms and technology to automate the analysis of marine genomes and to extend the features of existing analysis pipeline;
- Participating in a team of scientists to offer bioinformatics, genomics, transcriptomics and other omics solutions;
- Training research staffs on the use of relevant bioinformatics software and tools;

The successful candidate is required to possess the following:

- Ph.D. or equivalent in Computational Biology, Bioinformatics, Genomics, Marine Biology or related field and experiences in two or more of the following areas: comparative genomics, transcriptome sequencing analysis, phylogenetic analysis, and/or genome wide association studies;
- Experience with bioinformatics analyses, including programming in any scripting language (e.g. PERL or Python) and ability to handle a large data set efficiently using scripts, particularly in the analysis of NGS data;
- Familiar with commercial and open-source bioinformatics tools and various public genomic databases;
- Genome assembly of *de novo* genomes;
- Knowledge of statistical software tools and packages (e.g. R);
- Evidence of excellence in research and high productivity.

Applicants should send a short research statement (including past, present, and future goals), CV, and the names and email addresses of at least 3 potential references as a single pdf file to Prof. Joong-Ki Park (Project PI: E-mail: jkpyou@chungbuk.ac.kr). Informal inquiries are also welcome.

Best regards, Chungoo

Chungoo Park, Ph.D.

Assistant professor School of Biological Sciences and Technology Chonnam National University 300 Yongbong-Dong, Buk-Ku GwangJu, South Korea 500-757 Office phone: +82-62-530-1913 Fax: +82-62-530-2199 E-mail: chungoo@jnu.ac.kr <chungoo@chonnam.ac.kr>; chungoo.park@gmail.com

“Chungoo (JNU)” <chungoo@chonnam.ac.kr>

DukeU Bioinformatics

Our lab is looking for a postdoc to spearhead the genomics portion of a five-year UNC-Duke collaborative project that aims to understand the physiological basis of magnetoreception in sea turtles and spiny lobsters. The candidate must have proven (ideally published) experience with assembling genomes and transcriptomes and then analyzing them for the presence and expression levels of particular genes, in this case those associated with the transportation and sequestration of iron and iron oxides. Additional experience with orientation and navigation, marine ecology, and biophysics is also desirable. Funding is available starting as early as January 1st, 2015, with the project lasting until September 30th, 2019. Pay will be based on experience and NIH guidelines. If interested, please send a CV and letter of intent to sjohnsen@duke.edu and arrange to have two reference letters sent to the same address.

Sönke Johnsen Professor of Biology Duke University

“Sonke Johnsen, Ph.D.” <sjohnsen@duke.edu>

HarvardU EvoDevo

A funded, full-time postdoctoral position is currently available in the Extavour lab at Harvard University (Departments of Organismic & Evolutionary Biology/Molecular and Cellular Biology). The project aims to understand how growth and patterning of distinct cell types are coordinated during organ development, using the *Drosophila melanogaster* ovary as a model. The successful candidate will participate in and extend ongoing work on this problem using genetic, molecular genetic, and next-generation sequencing approaches. If interested, the candidate may have the opportunity to

perform comparative analysis of analogous processes in additional species, including the possibility of fieldwork in Hawaii.

Qualifications: The ideal candidate should be highly motivated with a PhD or equivalent, with demonstrated expertise in *Drosophila* developmental genetics and a strong track record. Expertise in at least one of molecular biology, cell biology or confocal imaging is essential. Previous experience in signalling pathways, hormonal signaling pathways, reproductive biology, ovarian development, molecular mechanisms of proliferation, ecology, niche construction or morphogenesis is also highly desirable.

Application Procedure: Submit your updated CV, brief description of scientific accomplishments and research interests, and have three references on your behalf sent to Cassandra Extavour < <http://www.extavourlab.com/people/extavour.html> > at extavour@oeb.harvard.edu.

Please see the attached advertisement for additional details.

Dr. Cassandra Extavour extavour@oeb.harvard.edu

Associate Professor Department of Organismic and Evolutionary Biology Harvard University 16 Divinity Avenue, BioLabs 4103 Cambridge, MA 02138, USA

<http://www.extavourlab.com> Office Tel. 1 617 496 1935 Lab Tel. 1 617 496 1949/1200 Fax. 1 617 496 9507

Extavour Lab Administration: Mimi Velazquez Tel. 1 617 496 2132 nvelazquez@oeb.harvard.edu

EDEN: Evo-Devo-Eco Network <http://www.edenrcn.com> edenrcn@fas.harvard.edu

EDEN Administration: Barbara Perlo perlo@fas.harvard.edu

“Extavour, Cassandra” <extavour@oeb.harvard.edu>

HowardU CancerPhylogenetics

We are looking for a researcher that has a strong background in phylogenetics to be part of a grant application for NIH, together with NIH colleagues, named:

“Using phylogenetic evolutionary tools to study cancer biology: from big omic data to personalized medicine”.

If you have such a background and are interested in do-

ing a 2-year postdoc in the beautiful and green Washington DC, both at NIH and the historical Howard University, at multi-awarded lab, followed by strong chances of getting a potential tenure-track position, please contact Rui Diogo and send him your CV by email: rui.diogo@howard.edu

If you know someone that has such a background, please forward him/her this message.

To see other subjects studied in the lab, please see www.ruidiogolab.com . Thanks,

Rui

Rui Diogo, PhD in Evolutionary and Functional Morphology & PhD in Hominid Paleobiology | Assistant Prof. at Howard Univ. & Resource Faculty at GWU

Dep. of Anatomy, Howard Univ. College of Medicine, 520 W St. NW, Numa Adams Building, room 1111, Washington DC 20059, USA. Homepage: www.ruidiogolab.com platyrrhini2002@126.com

Ifremer DiatomsEvolutionaryDivergence

I am seeking a postdoctoral researcher to investigate ecological divergence within the genus *Pseudo-nitzschia*. *Pseudo-nitzschia* are diatoms producing domoic acid, a toxic secondary metabolite responsible for amnesic shellfish poisoning and causing serious socio-economic and public health problems. Using recently isolated strains, the postdoctoral fellow will quantify growth and domoic acid production, as well as sequence mRNA (RNAseq) under various experimental conditions. Using such approach, we aim at exploring: 1. Ecological divergence among *Pseudo-nitzschia* species, 2. The relative influence of environmental and genetic factors on domoic acid production, and 3. The molecular bases of domoic acid production.

Applicants should have a strong interest in evolutionary ecology and phytoplankton ecology, as well as possess some combination of the following technical skills: Experiments under controlled conditions with microorganisms (experimental design and statistical analyses), molecular biology (RNA), bioinformatics (RNAseq analyses).

The position is for 18 months, will be based at the French Research Institute for the Exploitation of the Sea (IFREMER) in Brest (France) and will begin in

January/February 2015. Net monthly salary is about 2000 euro. Funders' requirements: Candidates must be less than 35 years old and French citizen can only be considered if they have spent at least 12 months abroad during the last 3 years.

Please send a letter of interest, C.V., and the names and contact details of two referees to Mickael Le Gac (Mickael.Le.Gac@ifremer.fr).

– Mickael Le Gac Ifremer DYNECO PELAGOS 29280 Plouzané France

Phone:33(0)298224358 Fax:33(0)298224548

<http://scholar.google.fr/citations?user=-1JLUxMAAAAJ&hl=fr> mickael.le.gac@ifremer.fr

ImperialC London SpeciesInvasions

Three UK-based postdoctoral research associate positions on the metabolic basis of species invasions

Three postdoctoral research associate (PDRA) positions are available under a collaborative project between Imperial College London (IC) (two positions) and University of Exeter (UE) (one position). The three 3-year PDRA positions are funded by a UK National Environmental Research Council grant to study metabolic constraints on species invasions under different regimes of environmental temperature. The IC PDRAs will be based in the Pawar lab (<http://www.imperial.ac.uk/people/s.pawar>) at Silwood Park (<http://www3.imperial.ac.uk/silwoodparkcampus>) and the UE position will be based in the Yvon-Durocher Lab (<http://www.exeter.ac.uk/esi/people/yvon-durocher/> and <http://www.researchgate.net/profile/Gabriel.Yvon-Durocher>) at the Penryn Campus in Cornwall (<http://www.exeter.ac.uk/cornwall/index.html>). Both Silwood Park and Penryn Campuses offer a vibrant academic environment in beautiful natural settings.

Invasive species are currently considered second only to habitat loss as a cause of rapid and undesirable changes in the functioning of ecosystems worldwide. However, we currently lack adequate frameworks for predicting which species will succeed in invading new habitats as the planet warms. This multi-institutional, interdisciplinary project will use a novel combination of ecoinformatics (construction and analysis of a global metabolic traits database), mathematical theory, and laboratory experiments with phytoplankton to build a

general mechanistic, trait-based predictive framework for invasion success. The three positions are: (1) /*PDRA in computational biology and ecoinformatics*/: The primary responsibility for this position will be the construction, management and mining of a new global database on the thermal responses of metabolic traits relevant to species invasions. For this position, we invite applications from candidates from any background having computational skills suitable for big data science, bioinformatics and statistical likelihood-based data mining. The core computational tools will all be open-source, possibly SQL in combination with programming in Python (or a similar language) and R. For more details and application procedure, please see https://www4.ad.ic.ac.uk/OA_HTML/OA.jsp?page=/oracle/apps/irc/candidateSelfService/webui/VisVacDispPG&OAHPIRC_EXT_SITE_VISITOR_APPL&OASFIRC_VIS_VAC_DISPLAY&akRegionApplicationId=821&transactionid=1205965559&retainAMY&addBreadCrumb=RP&p_svid=44701&p_spid=1690210&oapc=15&oas=GjavE_6MsNQDUedRaNUkBQ, or contact Samraat Pawar by email (s.pawar.imperial.ac.uk) for informal enquiries. (2) /*PDRA in mathematical modelling*/: The primary responsibility for this position will be the development and analyses of mathematical models of species invasions under fixed and fluctuating temperatures, and fitting models to experimental invasions data. For this position, we invite applications from candidates from any background with mathematical skills suitable for modelling the population dynamics of species interactions who are also comfortable with developing efficient numerical simulations/analyses in Python (or equivalent languages). For more details and application procedure, please see https://www4.ad.ic.ac.uk/OA_HTML/OA.jsp?page=/oracle/apps/irc/candidateSelfService/webui/VisVacDispPG&OAHPIRC_EXT_SITE_VISITOR_APPL&OASFIRC_VIS_VAC_DISPLAY&akRegionApplicationId=821&transactionid=1205965559&retainAMY&addBreadCrumb=RP&p_svid=44703&p_spid=1690212&oapc=12&oas=ux2wD5FM9b3GAIuO2Uk0UA, or contact Samraat Pawar by email (s.pawar.imperial.ac.uk) for informal enquiries. (3) /*PDRA in experimental population biology*/: The primary responsibility for this position will be the development and

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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>

IndianaU MicrobialEvolution

POSTDOCTORAL POSITIONS IN EXPERIMENTAL MICROBIAL EVOLUTION

Two postdoctoral research positions are available in the Department of Biology at Indiana University. Positions will be supported with a five-year Multidisciplinary University Research Initiative (MURI) grant from the US Department of Defense (DoD) program on 'Innovation in Prokaryotic Evolution'. The goals of the project are to reveal the molecular causes and consequences of evolution in highly replicated lines of a phylogenetically diverse range of microbial taxa in response to changes in the internal population-genetic environment (e.g., population size) and the external natural environment (i.e., starvation). We seek individuals with expertise in microbiology, bioinformatics, population genetics, and/or evolutionary theory and an ability to design long-term evolution experiments and analyze whole-genome sequencing data derived from them.

This project involves collaborative work between Michael Lynch, Pat Foster, Jay Lennon, and Jake McKinlay in the Department of Biology, Indiana University, Bloomington (<http://www.bio.indiana.edu/>), which has an excellent infrastructure for conducting microbiological, evolutionary, and ecological research, and Allan Drummond (University of Chicago). The positions are based at Indiana University in Bloomington, IN. Postdocs will be in residence in the Lynch Lab (<http://www.indiana.edu/~lynchlab/>) and/or the Lennon Lab (<http://www.indiana.edu/~microbes/>), but will have the opportunity to interact and collaborate with partnering labs. These positions are available immediately, although the start dates are somewhat flexible. Interested parties should email a cover letter containing a brief statement of research interests, a CV, and names of three potential letter writers to milync@indiana.edu. Applications will be evaluated as they are received and will continue until the position has been filled.

Jay T. Lennon Associate Professor Department of Biology Indiana University 1001 E. 3rd Street Bloomington, IN 47405 812-856-0962 (office) 812-856-7235 (lab) 812-855-6082 (fax) lennonj@indiana.edu web: indiana.edu/~microbes wiki: indiana.edu/~lennon

Lennon Jay <lennonj@indiana.edu>

MaxPlanckInstEvolBiol EvolutionaryImmunogenomics

The newly established Research Group Evolutionary Immunogenomics in the Department of Evolutionary Ecology at the Max-Planck Institute for Evolutionary Biology in Plön/Germany has an opening for a Post-Doctoral Research Fellow

Our research explores the evolution of immunogenetic and genomic variability and its implications for individual immunocompetence and ultimately fitness. We are mainly focusing on data from human populations, using a wide spectrum of approaches from molecular biology and high-throughput sequencing to computational analyses and theoretical modeling, but also employ experimental model systems (stickleback, mouse) to test predictions in the lab. Our scientific motivation ranges from pure curiosity about evolutionary processes to the desire to push the practical boundaries of Evolutionary and Personalized Medicine. Specific projects within the scheme of the lab are flexible and can be tailored to skills and interest of the successful candidate.

The group is part of the Max Planck Institute for Evolutionary Biology with its vibrant and collaborative research community of experimental, computational, and theoretical labs that all share a common interest in Evolutionary Biology. Cutting edge infrastructure is available at all levels, including high-performance computer clusters, a next-gen sequencing core facility, as well as molecular and experimental labs with substantial fish and mouse rearing facilities. The institute also maintains strong ties to Kiel University with large communities in evolutionary biology and medical genetics. Furthermore, our lab is currently collaborating on a number of projects with groups at Harvard Medical School in Boston and the University of Texas in Austin. Working language at the institute is English.

This position requires a PhD/Dr. in Evolutionary Biology, Computational Biology, Genetics/Genomics or a related field. The ideal candidate has a strong interest in evolutionary questions and is motivated to cross interdisciplinary boundaries and think outside the box. Molecular and/or computational experience is highly desirable and a background in molecular evolution, population genomics and/or immunology a plus.

The initial appointment is for one year, with the pos-

sibility of extension by up to two more years, based on performance. The starting date is flexible and can be immediate. The Max Planck Fellowship is competitive and includes additional support for health insurance and family (if applicable). Furthermore, housing and living in this area is very affordable. The Max Planck Society is committed to employing more handicapped individuals and especially encourages them to apply. The Society also seeks to increase the number of women in those areas where they are underrepresented and therefore explicitly encourages female candidates to apply. The institute is located in Plön, northern Germany, in close proximity to the university cities of Kiel and Lübeck and not far from Hamburg, the second-largest city in Germany. Frequent train connections allow for an easy commute between Plön and Kiel/Lübeck (each 30 min) and provide general access to the well-developed European train network. Plön is surrounded by a beautiful landscape with many lakes and provides ample opportunity for water sports and other outdoor activities.

To apply, please send a cover letter with your motivation/interests and research experience (2 pages max), CV, and contact info of 2-3 references in one PDF file to lenz <a> evolbio.mpg.de, using the subject line 'Post-Doc in Evolutionary Immunogenomics'. Review of applications will start Nov 15th and will continue until the position is filled. Informal inquiries are welcome. For more information about our research and the institute, please visit the lab's website at <http://www.evolbio.mpg.de/EvolutionaryImmunogenomics>
Dr. Tobias Lenz Group Leader in Evolutionary Immunogenomics Department of Evolutionary Ecology Max Planck Institute for Evolutionary Biology August-Thienemann-Str. 2 24306 Ploen Germany lenz@evolbio.mpg.de

lenz@evolbio.mpg.de

MichiganStateU EvolutionEducation

*Postdoctoral Research Associate in Evolution Education, Michigan State University *

Applications are now being accepted for a Postdoctoral Associate in Evolution Education in the BEACON Center for the Study of Evolution in Action <<http://beacon-center.org>> at Michigan State University (MSU). This NSF-funded position involves working as a member of an interdisciplinary team of educators

and researchers, led by Dr. Robert Pennock, to disseminate, extend, and test classroom implementation of the digital evolution education platform Avida-ED <<http://avida-ed.msu.edu>>. The successful applicant will play a major role in overall project research and management, working closely with the curricular development group, including co-PI's Dr. Louise Mead and Dr. Jim Smith, to tailor and assess the effectiveness of Avida-ED implementation at institutions across the US. The postdoc will help lead train-the-trainer professional development workshops for undergraduate and high school faculty to be held at MSU and other sister BEACON institutions (North Carolina A&T, Univ. Texas, and Univ. Wash.). The postdoc will work with the Avida-ED team on a national study that examines cognitive and affective aspects of digital evolution technology for learning not only evolutionary concepts but also the nature of science, including scientific practices and values.

MSU offers many opportunities to develop professionally via independent disciplinary research activities and/or teaching at the undergraduate level. Besides being part of the vibrant interdisciplinary community of biologists, computer scientists and education researchers at BEACON, the postdoc will also benefit from interaction with MSU's CREATE for STEM Institute <<http://create4stem.msu.edu>>.

Candidates should have an earned doctorate in a biological discipline or in biology education. Experience in evolutionary biology and/or the use of computer programs as pedagogical tools is desirable, but not required.

This position is for 2 years beginning as early as December 15, 2014. Starting salary will be in the range of \$42 – 44K, depending on experience.

Applicants should send a letter of interest, curriculum vitae, a two-page summary of research background and interests, and a list of names, titles and contact information of at least two references by email to: pennock5@msu.edu. Application review will begin Nov. 15, 2014 and will continue until the position is filled.

For further information, please contact Dr. Robert Pennock (pennock5@msu.edu).

MSU is an affirmative-action, equal-opportunity employer. Applicants who are not U.S. citizens or permanent residents must provide a document of employment authorization for the U.S. Persons with disabilities have the right to request and receive reasonable accommodation. MSU is committed to achieving excellence through cultural diversity. The university actively encourages applications and/or nominations of women,

persons of color, veterans, and persons with disabilities.

Louise S. Mead, PhD Education Director BEACON Center for the Study of Evolution in Action 567 Wilson Ave, BPS 1441 East Lansing, MI 517-884-2560

Louise Mead <lsmead@msu.edu>

Montpellier InvasivePopGenetics

Postdoctoral Position on the genetics of invasive populations

We seek to hire a post-doctoral research associate for a Grand Federative Project funded by the French Agropolis Fondation¹ called BIOFIS “Bioagressors and invasive species: from individual to population to species”. The project is dedicated to develop, coordinate and communicate research actions on bioagressors in Europe (insects, mites, trees, fungi and virus) and on their associated natural enemies.

Term and location: The position should start in December 2014 at the latest. Support is for one year. This position is co-supervised by E. Klein (INRA - BIOSP, Avignon France) and V. Ravigné (CIRAD - BGPI, Montpellier, France). We encourage the postdoctoral fellow to be based in Montpellier but being hosted in Avignon is also possible.

Project: Bioinvasions have long been considered as purely ecological processes until researchers recognize that evolutionary processes such as drift and selection may play a substantial role in their success. Recently particular attention has been paid to evolutionary processes occurring during spatial expansions. Selection for different life-history strategies at the source and front of invasions is expected to affect the speed of spatial spread. The strong effects of genetic drift associated to the specific demography of an expansion (in particular successive founding effects distributed in space) may as well shape the neutral and selected diversity along invasion waves. To better understand the interaction between drift, selection, and dispersal, we wish to design and analyze spatially explicit simulation models allowing studying the spatial spread of beneficial/neutral/deleterious mutations during a colonization process. We are particularly interested in studying the effect of i) environmental heterogeneity and ii) non-standard mating systems (e.g., mixing sexual and asexual reproduction) on the process. This work is expected to produce useful results for approaches based

on the analysis of population genetic structure along invasion waves such as (i) the reconstruction of invasion routes (ii) the detection of traces of selection using genome scans.

The output of these theoretical developments will be confronted to an existing dataset describing the population structure of a fungal pathogen of bananas along an invasion corridor in Cameroon. Depending on the candidate’s interests, other links with empirical work in the team may be considered.

We seek a young researcher who combines with a strong conceptual background in evolutionary biology and some modeling skills (mathematics and/or computer science). Experience with programming and population genetics is required. Skills in data analysis are not necessary but will be considered positively. Facility in writing is important. The post-doc will benefit by working as a member of the BIOFIS project team with an extent network of collaborators interested in dispersal, invasion biology, plant pathology, evolutionary biology and population genetics.

Eligibility: Agropolis Fondation typically considers applications from candidates that have not resided or carried out their main activity (work, studies, etc) in France for more than 12 months in the 3 years immediately prior to the date of submission of the proposal and that have obtained their PhD degree for no more than 3 years upon the date of application. However, we encourage excellent candidates not entirely fulfilling these conditions to contact us, as these might be funded if no other eligible candidate satisfies scientific requirements for the job.

Contact: Virginie Ravigné. Virginie.ravigne@cirad.fr

Virginie Ravigné Chercheuse CIRAD - Département BIOS

UMR Biologie et Génétique des Interactions Plantes-Parasites TA A 54 / K - Campus International de Bail-larguet 34398 Montpellier Cedex 5 France

Tel : + 33 4 99 62 49 10 Fax : + 33 4 99 62 48 48

Mail : virginie.ravigne@cirad.fr <http://agents.cirad.fr/-index.php/virginie.ravigne>

Virginie Ravigné <virginie.ravigne@cirad.fr>

**NatIU Singapore
PhenotypicPlasticity**

Postdoctoral position on Phenotypic Plasticity,

Dept. Biological Sciences, National University of Singapore

A postdoctoral position is available in the lab of Antónia Monteiro to study the origin and evolution of phenotypic plasticity in butterfly wing patterns. The project will involve comparative hormone titer quantification and gene expression quantification (transcriptomics) across butterfly species, followed by functional validation of candidate genes/hormones in a subset of species.

The position is for three years and can start immediately. Salary will be competitive and commensurate with experience. Candidates with demonstrated interests in phenotypic plasticity, and with experience in comparative transcriptomics and in handling NGS data, are especially welcome to apply. Experience in the use of phylogenies for hypothesis testing is also valued.

The Department of Biological Sciences (<http://www.dbs.nus.edu.sg/>) offers world-class research labs and infrastructure and a convivial and collaborative environment. Singapore is a lush, green city offering tropical weather year around, a diversity of food, and nearby exotic locations.

Interested applicants should contact Antónia Monteiro (antonia.monteiro@nus.edu.sg) with a CV, a statement of research interests, and the names of three references.

Relevant publications:

Oliver JC , X Tong, LF Gall, WH Piel, and A Monteiro (2012). A single origin for butterfly eyespots followed by widespread loss of associated gene expression. *PLoS Genetics* 8:8 e1002893.

Prudic KL, C Jeon, H Cao, and A Monteiro (2011) Developmental plasticity in sexual roles drives mutual sexual ornamentation. *Science* 331:73-75.

Brakefield PM, J Gates, D Keys, F Kesbeke, P and S Carroll (1996) Development, plasticity, and evolution of butterfly eyespot patterns. *Nature* 384: 236-242.

Antónia Monteiro Associate Professor Department of Biological Sciences National University of Singapore 14 Science Drive 4 Singapore 117543

and,

Associate Professor Yale-NUS-College 6 College Avenue East Singapore 138614

web-page: <http://www.lepdata.org/monteiro> Antónia Monteiro <antonia.monteiro@nus.edu.sg>

New York Inst Tech Evolution Cetacean Skull

Opening, Postdoctoral Scholar, Morphometrics of the Cetacean Skull

We are accepting applications for a Postdoctoral Scholar as part of a NSF funded project on the evolution of the cetacean skull at the New York Institute of Technology (Old Westbury Campus, New York). Details of the project can be found at the following link (http://www.nsf.gov/awardsearch/showAward?AWD_ID=1349607). The Postdoctoral Scholar will take a lead role in collecting quantitative data from skulls of living and fossil cetaceans and then using these data to test hypotheses relating cranial modularity to evolutionary changes in brain size, hearing capabilities, and feeding. The ideal candidate will have a strong background in morphometrics, mammalian cranial anatomy, and be able to conduct statistical analyses in a phylogenetic context. The Postdoctoral Scholar will collect data using a variety of tools and methods, including a high-resolution laser scanner, a microscribe 3D digitizer, and photogrammetry. This position is for two years, with a flexible start date tentatively scheduled for August 1, 2015. During this time, the Postdoctoral Scholar will be a part of the Anatomy Department in the College of Osteopathic Medicine. In addition to conducting research, the Postdoctoral Scholar is expected to assist in the teaching of human gross anatomy to medical students for a period of no more than 6 months. Experience in teaching human gross anatomy will be viewed positively but is not a requirement. The Postdoctoral Scholar will receive training on how to use a laser scanner, and during the analysis phase of the project, will travel to the UK to work with Senior Personnel Anjali Goswami (University College London). Minimal requirements are a Ph.D. in biology or related science by the start date and a demonstrated record of scholarship in morphometrics through peer-reviewed publications.

The New York Institute of Technology (NYIT) is a non-profit independent, private institution of higher education with more than 12,000 students worldwide that are pursuing one of 90 degree programs, including undergraduate, graduate, and professional degrees. The College of Osteopathic Medicine has more than 4000 alumni practicing medicine across the nation and

around the world. The school has three health clinics, and students engage in clerkships at these facilities or the many affiliated hospitals and other health providers in the New York City area.

To apply, please send your CV, a one page statement describing how your experience and interests match this position, and the names and contact information for three references by email to PI Jonathan Geisler (jgeisler@nyit.edu) by Dec. 1, 2014. If you are attending the Society of Vertebrate Paleontology meeting in Berlin and would like to discuss this position there, please email Co-PI Brian Beatty (bbeatty@nyit.edu).

Dr. Anjali Goswami Reader in Palaeobiology Department of Genetics, Evolution, and Environment and Department of Earth Sciences University College London Darwin Building 218A Gower Street London WC1E 6BT +44 (0)20 7679 2190 www.goswamilab.com "Goswami, Anjali" <a.goswami@ucl.ac.uk>

NTNU Norway Evolutionary Genomics

Researcher position in evolutionary biology and genomics

A one year position as researcher is available at the Centre for Biodiversity Dynamics (CBD), Department of Biology, NTNU. CBD is a Norwegian Centre of Excellence.

The aim of the project is to examine ecological adaptation on the molecular genetic level by using an association mapping approach to identify the genomic regions, and, ultimately, the causative mutations, that code for important ecological traits. This will be achieved using state-of-the-art high density Single Nucleotide Polymorphism (SNP) genotype data. Such data is already available for 2300 individuals genotyped on a 10k SNP array, and additional data on >3000 individuals genotyped on a 200k SNP array will be available early 2015. The genotyped individuals are from a long-term study of insular house sparrow populations at the coast of Norway with extensive pedigrees and long-term individual-level data on phenotypic trait values and fitness. Hence, this project will provide insights into the molecular genetic basis of trait variation in natural populations. Furthermore, the goal is to understand how population size affects short-term rates of evolutionary change, by examining how population size affects

strength and direction of selection, levels of additive genetic variance, and observed rates of change at the molecular genetic level. The successful candidate will have the possibility to develop his/her own ideas to approach the above issues, including opportunities for fieldwork and laboratory work.

The work of the successful candidate will be carried out within the research group of Associate Professor Henrik Jensen at the Centre for Biodiversity Dynamics, NTNU. The candidate will be based at CBD. The working language is English.

Information about the Centre for Biodiversity Dynamics can be found here: www.ntnu.edu/cbd. For further information about the position please contact Associate Professor Henrik Jensen (Henrik.Jensen@ntnu.no) or Professor Bernt-Erik Sæther (Bernt.Erik.Sather@ntnu.no).

Required qualifications and personal qualities Candidates must hold a PhD in biology and be able to document expertise in evolutionary biology, quantitative genetics, population genetics and/or genomics. Experience with handling data from next-generation sequencing and/or high-density SNP genotyping techniques and statistical analyses of such data are desired. Strong computational and quantitative skills are advantageous. The successful candidate must be able to work efficiently and goal-oriented both when working independently and when collaborating with others. We are looking for a highly motivated and enthusiastic candidate.

What we offer We can offer an exciting research project with focus on fundamental questions in evolutionary biology using state-of-the-art molecular genetic analyses. The researcher will carry out scientifically challenging research with good opportunities for development of his/her expertise. The successful candidate will benefit from a good working environment and the expertise of members in our research group, which currently consists of an Associate professor, two postdoctoral researchers, one PhD-student, three MSc-students and a laboratory technician. We collaborate with leading research groups both in Norway and abroad, and visits at these will be possible. The successful candidate should start no later than 1st January 2015. The appointment of the researcher will be made according to Norwegian guidelines for universities and university colleges and to the general regulations regarding university employees. NTNU has a personnel policy objective that the staff must reflect the composition of the population to the greatest possible extent. The position is remunerated according to the Norwegian State salary scale, and you will have the benefits of being included in the pension

scheme of the Norwegian Public Service Pension Fund.

Application The application with CV, pdfs of publications, reference letters, academic records and relevant certificates must be submitted electronically through www.jobbnorge.no/en (Jobbnorge-ID: 106334). Applications submitted elsewhere will not be considered.

The reference number of the position is: NT 73/14
Deadline for applying: October 20th 2014

henrik.jensen@ntnu.no

Paris Crop genetic diversity

A 22-month post-doctoral position is available in the Institute for Ecology and Environmental Sciences and in the Center for Ecology and Conservation Sciences in Paris, France. The successful applicant will be part of a research project funded by the French Science Foundation (<http://www6.inra.fr/wheatamix>, in French), which aims at assessing the role of within-crop genetic diversity to reinforce the resilience of cropping systems under global change. This project focuses on bread wheat (*Triticum aestivum*) and examines interactions among wheat varieties to optimize the performance of variety blends in terms of yield, grain quality, ecosystem services (biodiversity, nutrient cycling,) and acceptability by stakeholders. The postdoctoral researcher will be part of Work Package 2 'Impact of wheat variety blends on the functioning of agroecosystems and baskets of ecosystem services'. He/she will coordinate a survey of soil invertebrates during the two main field experiments, planned for the spring and summer of 2015 and 2016. This includes sampling of soil fauna (above and below-ground, macrofauna and springtails), sample sorting and identification, as well as data analysis to study the relationship between wheat diversity and the structure of field invertebrate communities. Depending on his/her interests and expertise, he/she may also contribute to other parts of the project, such as the study of the relationship between wheat diversity and plant communities, or rate of bio-control in the fields.

The proposed start date is between January and February, 2015. The project is funded by the French Science Foundation (ANR) and funds are currently available to support this position for up to 22 months. An extension to 24 months and beyond is possible, depending on fund availability.

The successful applicant will have a PhD and extensive experience with community ecology (concepts and data analysis), sampling and identification of soil invertebrates (earthworms, springtails, ground beetles, spiders.), as well as good English writing skills. Applicants must first submit a curriculum vitae to Sébastien Barot (Sebastien.Barot@ird.fr) and Emmanuelle Porcher (porcher@mnhn.fr) by e-mail. Application review will begin October 15, 2014, and will continue until the position is filled.

– Emmanuelle PORCHER

UMR 7204 CESCO - Centre d'Ecologie et des Sciences de la Conservation Muséum National d'Histoire Naturelle Case Postale 53 61 rue Buffon 75005 Paris

Tél. : 01 40 79 53 61 Fax : 01 40 79 38 35

porcher@mnhn.fr

Paris Experimental Evolution

POSTDOCTORAL POSITION - C. ELEGANS EXPERIMENTAL EVOLUTION

A postdoctoral position is open in the laboratory of Henrique Teotonio at the Institut de Biologie de l'École Normale Supérieure, in Paris, France (<http://www.ibens.ens.fr/spip.php?article351>).

Our research is focused on *C. elegans* experimental evolution to temporally heterogeneous environments. We are studying the role of natural selection under different breeding systems in the evolution of distributions in life-history, metabolism and gene expression traits. The project will be defined according to the candidates interests and previous experience. The candidate will have a PhD in quantitative genetics or population genetics, with a strong background in QTL or GWAS mapping, analysis of selection gradients and modeling of demography. The candidates should also have the programming skills to conduct data mining or individual-based simulations. Experience with experimental evolution and analysis of large data sets is preferred.

The position is funded by the European Research Council, for a monthly net salary between 2400-2700EUR, depending on experience and track record, plus social benefits associated with the contract (for comparative price indices see <http://stats.oecd.org/Index.aspx?QueryId=24057>). The successful applicant

can start as soon as December 2014. The position is funded until January 2016, although there is the possibility of extending it for another year pending successful evaluations.

A two-page CV, a letter of motivation and the contact information of two referees should be sent by email to Henrique Teotónio at teotonio@biologie.ens.fr as a single PDF file. Applications will be reviewed until position is filled. We welcome informal inquiries.

teotonio <teotonio@biologie.ens.fr>

PHAC Guelph PathogenGenomics

POST-DOCTORAL POSITION IN PATHOGEN GENOMICS AT THE PUBLIC HEALTH AGENCY OF CANADA (PHAC)

Applications are invited for a post doctoral fellowship position available immediately in a Genomics Research and Development Initiative (GRDI) project at the PHACs Laboratory for Foodborne Zoonoses (LFZ), Guelph, Ontario, Canada. Fellowships are awarded initially for one year with the possibility of renewal for a second and third year.

The project is focused on development of high resolution molecular subtyping of the highly clonal enteric pathogen, *Salmonella* Heidelberg. The approach is to use whole genome sequencing to identify SNPs that will provide highly discriminatory identification of related and unrelated strains.

With open whole genome sequences of numerous selected strains now available, the candidate will undertake genome assembly, annotation and analysis to identify panels of SNPs that potentially will provide the required discriminatory power and can be used for in silico analysis of whole genome sequences and in rapid subtyping assays.

The successful candidate will have been awarded a PhD within the past five years and should have PhD/Post-doctoral experience in microbiology, molecular biology and microbial genomics. Previous experience with pathogen genomics would be an advantage, as would some knowledge of basic bioinformatics methods.

The project lead scientists are Roger Johnson, Kim Ziebell and John Nash of PHAC, LFZ, Guelph.

For more information: Roger.Johnson@phac-aspc.gc.ca

Location: PHAC Laboratory for Foodborne Zoonoses, Guelph, Ontario, Canada

Starting date: Preferably by December 1, 2014.

Stipend: approx.: CDN\$50,503 per year, under the Visiting Fellowships in Canadian Government Laboratories program of the National and Scientific and Engineering Research Council of Canada. http://www.nserc-crsng.gc.ca/Students-Etudiants/-PD-NP/Laboratories-Laboratoires/index_eng.asp

Application deadline: October 17, 2014

How to apply: Email your application to Roger.Johnson@phac-aspc.gc.ca as a single pdf file containing your CV with publications, contact details of two referees, and a letter (maximum 1 page) with a description of your research interests and why you would be a suitable candidate for the position.

Roger Johnson <Roger.Johnson@phac-aspc.gc.ca>

Philadelphia Biodiversity

BIODIVERSITY POSTDOCTORAL POSITION IN PHILADELPHIA

The Center for Biodiversity at Temple University (Philadelphia) is interested in hiring a postdoctoral scholar to conduct studies on the evolution and conservation of biodiversity and its multiple dimensions. This is a computational (bioinformatics) position where strong programming and statistical skills are required and projects will involve large data sets and large numbers of species in the tree of life, often in a global context. The work will take place in the evolutionary biology laboratory of Professor S. Blair Hedges (<http://www.hedgeslab.org/>). The lab is also part of a multi-institutional and NSF-funded Dimensions in Biodiversity group.

The Center for Biodiversity is located in the new Science, Education, and Research Center (SERC building) on Temple's main campus (<http://cst.temple.edu/-research/centers-and-institutes/center-biodiversity>). It is affiliated with the Institute for Genomics and Evolutionary Medicine at Temple (<http://igem.temple.edu/>). Members of the Center for Biodiversity include Erik Cordes, Amy Freestone, S. Blair Hedges (director), Matthew Helmus, S. Tonia Hsieh, Sudhir Kumar, Julie Marin, Robert Sanders, and Brent Sewall. We are part of a larger biodiversity and conservation community in the Philadelphia area, including researchers

at the University of Pennsylvania, Drexel, Villanova, Princeton, and the Academy of Natural Sciences.

Interested persons should send an e-mail to temple.biodiversity@gmail.com stating their interest in this position and briefly discussing past research experience and skills. Please attach a curriculum vitae that contains contact information for three references. Review of applications will begin on November 20th and continue until the position is filled. The start date is negotiable.

Temple University is located in the heart of historic Philadelphia and is the sixth largest provider of graduate school education in the USA. Situated in close proximity to New York City and Washington DC, Philadelphia is the birthplace of America and home to many academic and research institutions as well as numerous cultural attractions.

Temple University is an equal opportunity, equal access, affirmative action employer committed to achieving a diverse community (AA, EOE, m/f/d/v).

sbh@temple.edu

PortlandStateU DispersalGenetics

Postdoc position: Genetics and Ecology of Dispersal

Dispersal remains as one of the most important but least understood processes in plant ecology. We seek an individual with experience and expertise in genomics, ecology, and GIS, or at least two of these fields to participate in an NSF-funded Macrosystems Biology project on responses of upland prairie plant communities to climate change. The successful candidate will have intellectual purview over the design and implementation of experiments to analyze genomic variation for the estimation of dispersal under contemporary and historical landscapes. This work will be conducted in collaboration with PIs, graduate, and undergraduate students at Portland State University (Cruzan lab) and the University of Oregon (Roy lab).

Plant species present unique opportunities and challenges for landscape genetic analyses, as the behavior of their associated biotic and abiotic dispersal vectors as well as the distribution of suitable habitat may affect the distribution of genetic variation. Understanding how landscape features may facilitate or limit the dispersal of plants is particularly critical as climate change affects the occurrence of suitable habitat. We

wish to recruit a postdoc interested in plant ecological genetics and willing to participate in the development of methods in landscape genetics for the analysis of dispersal among plant populations. Experience with genomic and bioinformatic methods, GIS analyses, and field ecological methods would be beneficial. Interested individuals should send a letter of introduction to Mitch Cruzan (Cruzan@pdx.edu) or Bitty Roy (bit@uoregon.edu) that includes a brief statement of your background. Please include an essay outlining your research interests and a recent copy of your CV.

Barbara (Bitty) Roy Institute of Ecology and Evolution, University of Oregon, Eugene, OR Mitch Cruzan Department of Biology, Portland State University, Portland, OR

Mitch Cruzan Professor of Biology Portland State University Department of Biology, SRTC rm 246, PO Box 751 Portland, OR 97207 USA <http://web.pdx.edu/~cruzan/> cruzan@pdx.edu

PrincetonU GenomeRearrangement

Princeton University Postdoctoral research associate position on Genome Rearrangement, Transposons, Non-coding RNA, and Epigenetics

Princeton University has a full-time post-doctoral position available in the Department of Ecology and Evolutionary Biology to work in the Landweber Lab to study the mechanism and evolution of scrambled genomes in ciliates, particularly the role of non-coding RNAs (including long ncRNAs and small RNAs), chromatin, and other protein and epigenetic factors, using high-throughput and functional experimental research tools. Our lab uses *Oxytricha* as a model organism for large-scale genome rearrangements. You can read about our research at <http://www.princeton.edu/~lfl>. Candidates are required to have a Ph.D. in molecular biology, molecular evolution, or a related field. For this position we seek candidates who have a range of experience with functional molecular biology and strong experimental skill; however, applications from candidates with an exceptional background in computational genomics and bioinformatics will also be considered. Excellent interpersonal skills, written and oral communication skills, organizational skills, and ability to work independently and collaboratively are all essential.

This appointment will be for one year with the pos-

sibility of renewal contingent upon funding and satisfactory progress. Salary is competitive and commensurate with experience; benefits are included. This position is available immediately and will be open until filled. Applicants should apply online at <https://jobs.princeton.edu>, Requisition #1400718, and include a curriculum vitae, a research statement (2 page max) describing background and experience and a cover letter that includes names and contact information of three references.

Princeton University is an equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability status, protected veteran status, or any other characteristic protected by law. This position is subject to the University's background check policy.

Laura Landweber <llf@princeton.edu>

StonyBrookU NY PrimateGenomics

The Veeramah Lab at Stony Brook (<http://life.bio.sunysb.edu/ee/veeramahlab/index.html>) has an opening for a postdoctoral researcher to begin in January 2015 (earlier or later start dates may be negotiable). The position will primarily involve the analysis of 2nd generation sequencing data from primates using model-based quantitative frameworks within two specific research themes. The first will be using whole genome data from small pedigrees to examine mutation and recombination rate variation amongst different primate lineages. The second will be using ancient DNA from early Medieval European skeletons to infer the population demographic dynamics of the European migration period, with a particular emphasis on the Lombards. As well as primary research duties applicants will be expected to write papers, help in grant writing and train/mentor graduate students.

The successful applicant should have or will shortly obtain a PhD in the areas of population, evolutionary or anthropological genetics, while at least some computer programming experience (particularly in python, equivalent or lower level languages) is required. Prior experience analyzing 2nd generation sequencing data, analyzing ancient DNA and/or modeling demographic scenarios with genetic data is desirable.

Applications will be accepted until November 3rd 2014.

Applicants should submit a State employment application, cover letter, resume, two references and a one page research statement to:

Dr. Krishna R. Veeramah Department of Ecology & Evolution Life Sciences Building, Room 650 Stony Brook University Stony Brook, NY 11754-5245

The official posting and online application can be found at <http://naples.cc.sunysb.edu/Admin/-CampusJob.nsf/ed472838eb1870e885256d570069236e/32986ef9d10c3a9a85257d65004eaa31?OpenDocument>. The official REF# is: WC-S-9227-14-10-S

Queries regarding this position can be made by email to:

krishna.veeramah@stonybrook.edu

SwanseaU 2 PhD 2 DomesticationEvolution

Two Research Fellows and two PhD positions to study the genetic and epigenetic basis of fish domestication and the early detection of aquatic invasive species

We are looking for 2 Postdoctoral Research Fellows and 2 PhD students to work on an exciting project that will use a multidisciplinary, cutting-edge approach to:

1. bridge, for the first time, the behavioural, genetic and environmental (epigenetic) components of fish undergoing domestication
2. disentangle the role of domestication in disease resistance in response to stress and temperature change, and
3. model pathways of introduction and dispersal of aquaculture-related invasive species (AIS) under different environmental conditions, combining state-of-the-art methods for early detection (environmental DNA) and citizen science.

The AquaWales Research Cluster combines academic (Swansea, Cardiff and Abersytwyth Universities) and non-academic participants, including stakeholders and local government involved in policy and regulation, and will target these challenges by capitalising on the diverse and complementary expertise of the group (from behavioural ecology to genomics, citizen-science and fisheries policy). We will use a multidisciplinary approach to disentangle the basis of domestication and the response to crowding (stress and parasite susceptibility), an aspect often neglected in breeding programs, and to investigate the potential effects of climate change on the risk of expansion and establishment of non-native aquatic species associated with aquaculture and

fisheries using state-of-the-art methods.

Research Fellow positions are available for 42 months starting approximately April 2015. Applicants are expected to match the following criteria: - Have a PhD in a relevant field (e.g. Biology, Ecology, Genetics). - Not be awarded their first PhD less than 2 years and more than 8 years prior to the starting date of the position. - Have published, confirmed accepted or in press, at least 5 papers in ISI accredited peer-reviewed journals by the starting date of the position. (Applicants with longer periods of postdoctoral experience will be expected to have proportionally higher numbers).

Desirable criteria are: experience working on fish behaviour, genetics/genomics background, experience programming in R/Python

- RF1: will be working on behavioural and epigenetic basis of fish domestication. RF1 will be mainly based at Swansea University developing behavioural and genetic/epigenetic methods for lines 1 & 2 of research.
- RF2: will be working on the relation between domestication and disease resistance under stressful conditions crowding & disease: tilapia, salmon). RF2 will be mainly based at Cardiff University working on infection and resistance under crowding conditions and developing infection protocols, culture assay methods and performing genomic/transcriptomic analyses.

PhD studentships are available for 42 months starting approximately April 2015. Applicants are expected to have a good 1st/2.1 degree in a relevant field (e.g. Biology, Ecology, Genetics). Desirable criteria are: - Molecular laboratory experience (or an interest in learning) - Knowledge of R/Python - Good statistical background
- PhD1: will be based at Aberystwyth working on the gene expression underlying disease resistance in different temperature conditions under domestication conditions. - PhD2: will be based at Swansea working on the development of molecular methods for early detection of aquatic invasive species in combination with citizen science approached (e.g. mobile apps).

The three Research Lines are integrated and fully collaborative among all the 3 institutions and RFs and PhD students are expected to collaborate closely in all of them.

Informal enquiries can be directed to RF1, PhD2: Sonia Consuegra (s.consuegra@swansea.ac.uk)- Carlos Garcia de Leaniz (c.garciadeleaniz@swansea.ac.uk) RF2: Jo Cable (CableJ@cardiff.ac.uk) Pablo Orozco-terWengel (Orozco-terWengelPA@cardiff.ac.uk) PhD1: Joe Jackson (jaj11@aber.ac.uk)

"CONSUEGRA S." <s.consuegra@swansea.ac.uk>

TexasAMU CrabPopGenetics

The Hurtado and Mateos Lab at Texas A&M University is recruiting a postdoctoral research associate to join our team. The aim of the project is to apply next-generation sequencing and computational bioinformatics to understand genetic connectivity among blue crab populations from the Gulf of Mexico and Atlantic US. The ideal candidate will be passionate about evolutionary and conservation genomics, and have excellent organization and communication skills.

This position requires a Ph.D. in Population Genetics or related discipline and a successful research track indicated by publications in peer-reviewed journals, and presentations at professional conferences. Preference will be given to candidates with the following expertise: population genetics data analysis; gathering and analyzing high throughput DNA sequence data and microsatellites; and field work, especially in coastal habitats. The position is available for one year with the possibility of extending it an additional year based on performance and funding availability. Although the primary responsibility will be to contribute to an existing funded project, there may be opportunities to develop and pursue independent projects.

Texas A&M University is in College Station, which offers an excellent living and work environment within easy reach of Houston and Austin. We strongly encourage women and members of underrepresented groups to apply. The University environment fosters work/life balance and is responsive to the needs of dual-career couples.

To apply and obtain more details on the position, visit greatjobs.tamu.edu/applicants/Central?quickFind0713 (NOV# 08022). In your application, please include a cover letter that describes why you are interested in this position and highlights your expertise, as well as the names and contact details of 2-3 references. Please also submit a research statement summarizing your major research accomplishments to date. Review of applications will begin Nov. 3rd and continue until position is filled.

For questions about this position please contact Luis A. Hurtado (lhurtado@tamu.edu) or Mariana Mateos (mmateos@tamu.edu).

Sincerely,

Mariana Mateos, Ph.D. Associate Professor Department of Wildlife and Fisheries Sciences Ecology and Evolutionary Biology Group and Faculty of Genetics Texas A&M University 320B Heep Laboratory Building 2258 TAMUS College Station, TX 77843-2258 Phone(office/lab): 979-847-9463 Fax 979-845-4096 Email: mmateos@tamu.edu <http://people.tamu.edu/~mmateos> <<http://wfsc.tamu.edu/mateoslab/mateoslab>> My ResearcherID: <http://www.researcherid.com/rid/B-5235-2008> Mariana Mateos <mmateos@tamu.edu>

TUDelft EvolutionaryBiology

Post-Doc: Reproducibility and reversibility of evolutionary trajectories. Job description In previous experiments we have evolved nearly dead budding yeast cells (we removed a nearly essential gene) for one thousand generations. At the end of the evolution those cells approached wild-type growth rate and cell size. We sequenced the final time points and found three mutations that appeared in the same order in several independent lines, which is remarkable, since most experimental evolution experiments do not show this high level of reproducibility. In this project you will exploit this characterized system to ask questions about evolution, such as, how predictable is an evolutionary trajectory and how much does this depend on the specifics of the selection? Is adapting to genetic perturbations, like cancer cells do, intrinsically more predictable than adaptations to a new environment? Another potential question is: Can you ever go back in evolution or is evolution always irreversible? So what happens if you first delete a gene, adapt cells to higher fitness and subsequently reintroduce the gene and evolve the cells again? Are there regimes where the cells will evolve back to the original state? You will answer these questions using experimental evolution, whole genome sequencing and sequence analysis. The aim is to combine the experimental findings with population dynamics theory, potentially in collaboration with a theory group.

Visit the lab website for more information: <http://laanlab.tudelft.nl/index.html> Requirements Applicants should have a PhD degree in biology, physics, or a related field, and enthusiasm for quantitative approaches to understanding biological phenomena. The position will be two years with possibilities to extend.

Applied Sciences at TUDelft The Faculty of Applied

Sciences is the largest faculty of TU Delft, with around 550 scientists, a support staff of 250 and 1,800 students. The faculty conducts fundamental, application-oriented research and offers scientific education at the bachelor, master and doctoral levels. The faculty is active in the fields of Life and Health Science & Technology, Nanoscience, Chemical Engineering, Radiation Science & Technology, and Applied Physics.

A new Department of Bionanoscience has been established at TU Delft, dedicated to research at the interface between nanoscience, synthetic biology, and cell biology. It studies single cells in all their complexity down to the molecular level, from both fundamental scientific and application points of view. The new department operates as part of the Kavli Institute of Nanoscience at the Faculty of Applied Sciences and aims at a leading international position.

Conditions of employment TU Delft offers an attractive benefits package, including a flexible work week, free high-speed Internet access from home (with a contract of two years or longer), and the option of assembling a customised compensation and benefits package. Salary and benefits are in accordance with the Collective Labour Agreement for Dutch Universities. Delft University of Technology strives to increase the number of women in higher academic positions; women are therefore especially encouraged to apply.

Information and application For more information about this position, please contact Dr. ir. Liedewij Laan, phone: +31 (0)15-2782856 , e-mail: l.laan@tudelft.nl. To apply, please e-mail a detailed CV, a letter of application and references by March st 2015.

Liedewij Laan Assistant professor Department of Bionanoscience Kavli Institute of NanoScience TUDelft

Website: laanlab.tudelft.nl Tel nr: +31 (0) 15-2782856

Liedewij Laan - TNW <L.Laan@tudelft.nl>

UBerne PDF 2PhD PatternsGenomicDiversity

The CMPG lab (<http://cmpg.ice.unibe.ch>) at the University of Berne is opening 2 new PhD and 1 post-doc positions in January 2015.

The*post*doc position is available for 1 year to model the pattern of genomic diversity created during range

expansions. A computer simulation framework will be developed to 1) detect typical signatures of range expansions at the molecular level and 2) to co-estimate the distribution of fitness effects and the past history of populations from their patterns of genomic diversity.

The first PhD position is in evolutionary theory under the main supervision of Dr. Stephan Peischl. It will consist in studying the interactions between ecology, demography and selection at range margins.

The second PhD position is in human population genomics, and will be mainly supervised by Prof. Laurent Excoffier. It will consist in improving methods to detect selection at the gene network level and after range expansions in humans.

The two PhD positions are available for 3 years.

We are looking for highly motivated individuals with a good background in population genomics, statistics, and advanced computational skills, and with strong oral and written communication abilities.

The CMPG lab is hosted by the Institute of Ecology and Evolution at the University of Berne, and it offers a very international and stimulating research environment. It is also affiliated to the Swiss Institute of Bioinformatics (SIB) which offers ample potential for interactions. Berne is ideally located in the middle of Switzerland and Europe, and provides rich cultural and outdoor activities.

The gross salary of the post-doc candidate would be around 80,000 CHF per year and those of PhD students around 32,000 CHF, per year. All three positions are expected to start in January 2015.

For any position, please send, before November 15th 2014, an application letter stating your motivation for the position, a CV, and contact information of two references to laurent.excoffier@iee.unibe.ch (for Post-Doc and PhD 2 positions) or stephan.peischl@iee.unibe.ch (for PhD 1).

See the web page <http://www.cmpg.iee.unibe.ch/content/jobs> for a copy of this information and links with more details on these positions.

– Laurent Excoffier

Computational and Molecular Population Genetics (CMPG) Institute of Ecology and Evolution, University of Bern 6, Baltzerstrasse, CH-3012 Bern, Switzerland Tel: +41 31 631 30 31 Fax: +41 31 631 48 88 Email: laurent.excoffier@iee.unibe.ch
<http://cmpg.iee.unibe.ch> Computational Population Genetics Swiss Institute of Bioinformatics (SIB) <http://www.isb-sib.ch/groups/Computational.Population.Genetics.htm> Laurent

Excoffier <laurent.excoffier@iee.unibe.ch>

UBritishColumbia OrganismalEvolution

Research Associate Position in Evolutionary Morphology of Marine Heterotrophic Flagellates

A twelve-month, full-time Research Associate position is available in the Botany Department at The University of British Columbia. This position will provide high-level electron microscopy and group support for projects that examine the evolutionary morphology (comparative ultrastructure) of marine heterotrophic flagellates.

The successful applicant must have a PhD in a relevant field and at least 5 years of postdoctoral research at the highest international standards relating to comparative protistology, marine biology, molecular phylogenetics and transmission electron microscopy. The applicant must be skilled at single-cell TEM approaches, serial sectioning, scientific illustration and the cultivation of anaerobic microbial eukaryotes. The successful applicant must also have demonstrated the capacity to publish on the comparative ultrastructure of marine heterotrophic flagellates in top-level scientific journals in the field.

Research will be within the framework of the Tula Foundation Funded Centre for Microbial Diversity and Evolution. Additional responsibilities include the presentation of research findings at conferences, continued publication of research, and assistance with the day-to-day training of other research personnel.

Applicants should e-mail, no later than November 5, 2014, a curriculum vitae, a concise statement of research interests, the names of three referees and copies of two representative publications as a single PDF to:

Dr. Brian Leander Departments of Zoology & Botany
bleander@mail.ubc.ca

This position will begin on January 1, 2015 and will be for twelve months.

UBC hires on the basis of merit and is committed to employment equity and diversity within its community. We especially welcome applications from visible minority group members, women, Aboriginal persons, persons with disabilities and others with the skills and knowledge to productively engage with diverse commu-

nities. All qualified persons are encouraged to apply. Canadians and Permanent Residents of Canada will be given priority.

bleander@mail.ubc.ca

UBuenosAires MorphologicalGenomics

The Evolution lab (School of Sciences, University of Buenos Aires) has an opening for a postdoctoral researcher beginning in february 2015 (a later start is possible). The postdoc will contribute to ongoing projects that use genomic tools to address questions about the processes that generate morphological diversity. The core projects in which the successful applicant will be involved are related to the genomics of rapid adaptive evolution of genital organs. . The work involves the analysis of whole genomes and RNA-seq data in cactophilic flies of the genus *Drosophila* (buzzatii complex repleta group).As well as research duties, applicants are expected to write papers and train graduate students in the field of genomics. The successful applicant should have a PhD in the areas of population, evolutionary genetics and some. Prior experience with NGS data and script programming is a plus. Applications will be accepted until November 30th 2014. Applicants should submit a CV, two references and a one page research statement to:

Esteban Hasson ehasson@ege.fcen.uba.ar estebanhasson@gmail.com

Esteban Hasson Dr Cs Biológicas Dept. Ecología Genética y Evolución Facultad de Ciencias Exactas y Naturales Universidad de Buenos Aires Ciudad Universitaria Pab. 2 C1428 EHA Buenos Aires Argentina

Esteban Hasson <estebanhasson@yahoo.com.ar>

UCalifornia LosAngeles ReptileGenomics

The Shaffer Lab at UCLA (<https://www.eeb.ucla.edu/Faculty/Shaffer>) is recruiting a postdoctoral scholar to join our team. The primary goals for this postdoc are to

work with our lab on several next-generation sequencing projects on reptile and amphibian conservation and evolutionary genomics, largely centered on California taxa. Current major projects include analyses of hybrid salamander genetics, desert tortoise landscape genomics, and turtle phylogenetics and systematics.

The ideal candidate will have expertise in next-generation molecular lab protocols, which might include target capture, RADseq and whole genome low-coverage sequencing. In addition, the postdoc should be excited and able to learn new techniques quickly and troubleshoot and optimize current protocols. The individual will be expected to work closely with lab members to organize and manage multiple research projects and perform basic to advanced data analysis on next-gen data. Although the primary responsibility will be to contribute to existing, funded projects, there will also be opportunities to develop and pursue independent projects, time and funding permitting. Extensive knowledge or experience with bioinformatics/computational biology, landscape genomics and conservation genomics is required. We are looking for a focused, motivated candidate with excellent organization and communication skills and a strong commitment to evolutionary and conservation genomics. If you like herps, that's a plus!

Please include the names and contact details of 2-3 references with your CV. In your application, please include a cover letter that highlights your skill set and expertise, and why you are interested in this position. Please also submit a research statement summarizing your major research accomplishments to date.

To apply, please visit <https://recruit.apo.ucla.edu/-apply/JPF00404>. If you have any questions, feel free to contact Brad Shaffer (brad.shaffer@ucla.edu).

The position is open until filled, but we will begin evaluating candidates on 15 October 2014 University of California, Los Angeles is an Equal Opportunity Employer pqspinks@ucla.edu

UCalifornia SanFrancisco ComputationalGenomics

Postdoctoral Positions in Computational/Evolutionary Genomics at UCSF

The Hernandez Lab at UCSF < <http://bts.ucsf.edu/>

[hernandez.lab/](#) > has two postdoctoral positions available. The research projects are flexible, and will focus on the particular interests of the candidates. Research projects will likely focus on developing novel techniques for applying principals of population and evolutionary genomics to medical resequencing studies. Ongoing collaborations involve comprehensive studies of patterns of global genetic diversity as part of several whole genome sequencing projects, the genetic basis of asthma in admixed populations, and the genomics of host-pathogen interactions. Successful candidates will be expected to develop novel computational/statistical methods for addressing specific biological hypotheses, and to perform analyses of large-scale genomics data. Ideal candidates will have a background in a quantitative field (such as computer science, statistics, applied mathematics, bioinformatics, or related), experience in performing genetics/genomics research, and a strong track-record of accomplishment in research.

Basic Qualifications: - Ph.D. in bioinformatics, computer science, statistics, genetics, molecular biology, applied mathematics, or a related field. - Research experience (with first-author publications) in population genetics or a related field. - Proficiency in programming, ideally in C or C++, scripting languages such as perl/python, and familiarity with R. - Comfortable with large data sets, computer clusters, and databases.

UCSF is an Equal Opportunity/Affirmative Action Employer, and the Hernandez Lab is committed to increasing diversity in the sciences. Applications from women and minorities are highly encouraged.

Applicants should send a short research statement (including past, present, and future goals), CV, and the names and email addresses of at least two references as a single pdf file to Ryan Hernandez <ryan.hernandez@ucsf.edu>. Informal inquiries are also welcome.

Ryan.Hernandez@ucsf.edu

UCalifornia SantaCruz GenomeEngineering

POSTDOCTORAL SCHOLAR POSITION IN GENOME ENGINEERING

The UCSC Paleogenomics lab seeks a highly motivated postdoctoral level research scientist to participate in a research project in genome engineering. The ideal can-

didate will have experience in tissue culture techniques and standard molecular biology techniques. Experience or desire to learn the following techniques is preferred: CRISPR/Cas9-mediated genome editing, computational comparative genomics, avian cloning, high-throughput sequencing and analysis, and genome-wide methods for probing genome architecture.

Applicants should have a PhD degree and a demonstrated record of independent, productive research. This project will be hosted in the UCSC Paleogenomics lab (p.gl.soe.ucsc.edu), co-directed by PIs Ed Green and Beth Shapiro.

Full applications including curriculum vitae, a summary of major research accomplishments and training and career objectives, and three named references should be sent via email to Ed Green: ed@soe.ucsc.edu.

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

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The University of California, Santa Cruz is an Affirmative Action/Equal Employment Opportunity Employer, committed to excellence through diversity. We strive to establish a climate that welcomes, celebrates, and promotes respect for the contributions of all students and employees. 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. If you need accommodation due to a disability, please contact the Academic Personnel Office atapo@ucsc.edu (831) 459-4300.

beth.shapiro@gmail.com

UCBerkeley EvolutionaryGenomics

Postdoc in Evolutionary Genomics UC Berkeley

An evolutionary genomics postdoc position is available in the laboratory of Dr. Erica Bree Rosenblum at UC Berkeley. The postdoc will join a dynamic research group and will be affiliated with the Department of Environmental Science, Policy and Management, the UC Berkeley Museum of Vertebrate Zoology, and the Berkeley Initiative for Global Change Biology. The postdoc will contribute to several funded projects in the lab that use genomic tools to address fundamental questions about the processes that generate and

threaten biological diversity. The specific research focus will be finalized in collaboration with the successful applicant, but the core projects will relate to the genomics of rapid adaptive evolution and the genomics of wildlife disease. From a methodological standpoint, the postdoc will be involved in the analysis and synthesis of genome-scale datasets, with a particular emphasis on analysis of RAD, RNAseq, and exon capture datasets. The postdoc will also share responsibility for day-to-day lab operations including laboratory administration, regulatory compliance, and mentoring undergraduate researchers. Ideal start-date would be January 2015, but there may be enough flexibility to accommodate an earlier or later start-date. Salary will be commensurate with current NIH guidelines. More information about research activities in the Rosenblum Lab is available at <http://nature.berkeley.edu/rosenblum>. Minimum qualifications include a Ph.D. in Biology, Computer Science, Molecular Biology or a related field. Demonstrated experience in computational or ecological genomics is essential including a track record of successful project coordination, data analysis, and manuscript preparation. A strong background in bioinformatics, proficiency coding, and basic molecular wet-lab skills are desired. Ability to communicate clearly, work independently, and interact collaboratively is essential.

If interested, please send a CV, a letter of interest, and the contact information for three references to rosenblum@berkeley.edu by October 24, 2014. The letter of interest should be no more than 2 pages and address prior experience, current interests, career goals, and fit for the position. Please also indicate your ideal start-date.

rosenblum@berkeley.edu

UC Merced Modeling Forest Ecology Evolution

Postdoc, ecological/evolutionary modeling A position is available in the Moran lab, UC Merced (<https://sites.google.com/site/moranplantlab/>)

The aim of this postdoctoral project is to develop an individual-based forest model incorporating both species differences and genetic differences in environmental responses, in order to investigate the importance of evolutionary responses relative to species range shifts under different scenarios of climate change and disturbance. The initial appointment will be for one year

and is renewable, depending on performance and availability of funding. The salary and benefits package associated with the position are based upon those established by the University of California. Candidates must have completed a Ph.D. in biology, ecology, modeling, or similar discipline, and have experience programming in C++. Experience with forest models would be particularly valuable. They must also be creative, self-disciplined, and motivated. Additional desirable skills include experience with statistical methods and/or R programming. Review of applications will begin in August 2014 and will continue until the position is filled. Applications will be accepted until position is filled, but to ensure full consideration please apply before October 20. To apply, please submit 1) a cover letter 2) academic CV, and 3) contact information for three references through <https://aprecruit.ucmerced.edu/apply> (please note, recommended application date has been extended).

UC Merced, which opened in September 2005, is the newest school of the 10-campus University of California system (<http://www.ucmerced.edu/>).

emoran5@ucmerced.edu

UCollegeDublin 3 EvolutionAgeing

1. Evolution of Ageing: Bioinformatican- Research Fellow

University College Dublin, Ireland and PRBB, Barcelona, Spain

Ageing is the gradual and irreversible breakdown of living systems associated with the advancement of time, which leads to an increase in vulnerability and eventual mortality. Despite recent advances in ageing research, the intrinsic complexity of the ageing process has prevented a full understanding of this process, therefore, ageing remains a grand challenge in contemporary biology. As part of two European Research Council funded research teams, the bioinformatician will tackle this challenge by uncovering the molecular mechanisms of halted ageing in a unique model system, the bats. This individual will be based at University College Dublin, Ireland in Prof. Emma Teelings Batlab <<http://batlab.ucd.ie/>> but will spend up to 3 months a year in the world leading comparative genomics laboratory of Dr. Tomas Marques-Bonet, Barcelona, Spain (<http://bhusers.upf.edu/tmarques/>) in the highly active environment of the PRBB (<http://www.prbb.org/>). The

bioinformatician will oversee and help collate, analyse and process vast quantities of novel molecular data generated by the Irish team in an evolutionary framework and will lead the computational analyses of these data. Together the research teams will couple state of the art-field biology with cutting-edge next generation comparative genomic and transcriptomic studies to address this ageing challenge.

Salary: euro 33,970V euro 51,710 per annum

Duration: 3 Years

Closing Date: 6th November 2014

Desirable start date: 1st January 2015.

Full details and application procedures can be found at: <http://www.ucd.ie/hr/jobvacancies/> Search by job reference number: 006937

For additional details please contact Prof. Emma Teeling <emma.teeling@ucd.ie>

2. Evolution of Ageing: Bioinformatics Postdoc- Level 1

School of Biology and Environmental Science, University College Dublin, Ireland

Ageing is the gradual and irreversible breakdown of living systems associated with the advancement of time, which leads to an increase in vulnerability and eventual mortality. Due to a significant increase in human life-expectancy, it has never been more urgent to understand and ultimately alleviate the ill-effects of ageing. Despite recent advances in ageing research, the intrinsic complexity of the ageing process has prevented a full understanding of this process, therefore, ageing remains a grand challenge in contemporary biology. As part of the European Research Council funded research team in the Teeling laboratory <<http://batlab.ucd.ie/>>, the PD1 will tackle this challenge by uncovering the molecular mechanisms of halted ageing in a unique model system, the bats. The team couples state of the art-field biology with cutting-edge next generation comparative genomic and transcriptomic studies to address this challenge. The PD1 will be actively involved in driving the computational analyses of these ageing related genomic and transcriptomic studies to explore the evolution of ageing in these unique species.

Salary: euro 33,975 - euro 37,063 per annum depending on experience.

Duration: 3 Years

Closing Date: 6th November 2014

Desirable start date: 1st January 2015.

Full details and application procedures can be found at:

<http://www.ucd.ie/hr/jobvacancies/> Search by Job reference number: 006938

For additional details please contact Prof. Emma Teeling <emma.teeling@ucd.ie>

3. Evolution of Ageing: Molecular Laboratory Research Scientist

School of Biology and Environmental Science, University College Dublin, Ireland

Despite recent advances in ageing research, the intrinsic complexity of the ageing process has prevented a full understanding of this process, therefore, ageing remains a grand challenge in contemporary biology. The European Research Council funded research team lead by Prof. Emma Teeling <<http://batlab.ucd.ie/>>, of which the Research Scientist (RS) will be part of, will tackle this challenge by uncovering the molecular mechanisms of halted ageing in a unique model system, the bats. The team will couple state of the art-field biology with cutting-edge next generation comparative genomic and transcriptomic studies to address this challenge. The RS will be actively involved in managing each aspect of this project, specifically in generating the molecular data required for the project and maintaining the large tissue banks associated with this project. The RS will ensure the smooth running of the laboratory, aid in the development of molecular protocols and aid team members in the generation of molecular data.

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UHelsinki PathogenEvolution

POST DOC POSITION IN PATHOGEN EVOLUTION AND EPIDEMIOLOGY

Applications are invited for 18 month post doc (with a possibility of continuation) in the research group of Anna-Liisa Laine as part of the Centre of Excellence in Metapopulation Research at the University of Helsinki.

The project is centered on the interaction between host plant *Plantago lanceolata* and its fungal pathogen *Podosphaera plantaginis* in the Åland Islands. With 14 years of epidemiological data complemented with intensive disease sampling since year 2010, sequenced

pathogen transcriptome and solid experimental protocols, this system offers unique opportunities for testing classic hypotheses regarding pathogen evolution with direct links to epidemiological dynamics. One of the main aims of this position is to study virulence effectors of *P. plantaginis* using recently generated pathogen transcriptome data, and link effector variation to pathogen phenotype data and large scale epidemiological dynamics.

Recent relevant publications include: Jousimo, J, Tack, AJM, Ovaskainen, O., Mononen, T., Susi, H., Tollenaere, C. & Laine, A.-L. 2014. Ecological and evolutionary effects of fragmentation on infectious disease dynamics. *Science*, 344: 1289-1293. Tollenaere, C. Susi, H., Nokso-Koivisto, J., Koskinen, P. Tack, A. J. M., Auvinen, P. Paulin, L., Frilander, M. J., Lehtonen, R. & Laine, A.-L. 2012. SNP Design from 454 Sequencing of *Podosphaera plantaginis* Transcriptome Reveals a Genetically Diverse Pathogen Metapopulation with High Levels of Mixed-Genotype Infection. *PLoS ONE* 7: e52492.

The successful candidate should have PhD / post doctoral experience with host-parasite interactions, evolutionary genetics, bioinformatics, plant pathology, evolutionary biology or similar, and a strong interest in studying disease in natural populations. Excellent written and verbal communication skills, and the ability to think independently and creatively are required. You must demonstrate ability to work as part of a team, and participate in supervision of more junior group members.

More information: <http://allaine.it.helsinki.fi/> ; www.helsinki.fi/science/metapop Starting date: Early 2015 Application deadline: 16 November 2014 Mail your application (CV with publications included, contact details of two references, and a letter (MAX 1 page) with a description of your research interests and why you would be a suitable candidate for the project) as a single pdf file to biotiede-mrg@helsinki.fi. Informal inquires to anna-liisa.laine@helsinki.fi

Dr Anna-Liisa Laine

Academy Research Fellow Center-of-Excellence in Metapopulation Biology Department of Biosciences PO Box 65 (Viikinkaari 1) FI-00014 University of Helsinki, Finland

tel. +358 2 941 57750

allaine.it.helsinki.fi helsinki.fi/science/metapop/
twitter.com/annaliisalaine

Anna-Liisa Laine <anna-liisa.laine@helsinki.fi>

UJohannesburg MarineGenomics

Postdoc in marine genomics at the University of Johannesburg, South Africa.

The Molecular Zoology Laboratory at the University of Johannesburg invites applications for postdoctoral positions for studying thermal adaptation in coastal invertebrates and/or fishes for 2015. As this work includes a significant genomic component, we are particularly interested in researchers who have experience with next-generating sequencing data analyses (or at least with unix-based bioinformatics).

The fellowships are funded through the South African Network for Coastal and Oceanographic Research (SANCOR) and are open to both local and international researchers. The 'official' fellowship is valued at R120 000 p.a. + R30 000 for travel (1 R or ZAR = US\$ 0.09), but top-up funding is available from the university. For details on eligibility, please see <https://nrfs submission.nrf.ac.za>. The internal deadline is October 17.

Interested researchers should please contact Dr Peter Teske directly at prteske@uj.ac.za

Dr Peter Teske *Senior Lecturer: Department of Zoology University of Johannesburg, Kingsway Campus Auckland Park 2006 South Africa* *Tel +27 (0)11 559 3373 <+2720280291120559203373>*

*Molecular Zoology Lab: <http://sites.google.com/site/drpeterteske/> *Flinders University Molecular Ecology Lab: <http://www.molecularecology.flinders.edu.au> Peter Teske <pteske101@gmail.com>

UJyvaskyla Finland Genetics Adaptation

Postdoctoral position: Genetics of adaptation to fluctuating environments Centre of Excellence in Biological Interactions, University of Jyväskylä, Finland.

Finnish Academy funded post doc position for two years is available (from 1.1.2015) in a project led by Tarmo Ketola (Academy research fellow, PhD). The

project concentrates mapping genetic changes associated with adaptation to fluctuating thermal environments vs. adaptation to constant environments (see: Ketola et al. 2013 in *Evolution* 67: 2936-2944). This part of the project is conducted in close collaboration with Dr. Juan Galarza. Applicant must possess excellent programming skills and demonstrated experience in the use of next-generation data and a PhD from the relevant field. Background in evolutionary biology is very much appreciated, as applicant is also expected to develop independent research questions utilizing the genetic data, for example on genetic and environmental canalization and on phenotypic plasticity. Since sequenced bacterial strains (*Serratia marcescens*) are stored in suspended animation they can be easily used for additional experiments. The salary ranges from ca. 3000-3500 euro / month, based on the personal qualifications. Note that starting date is negotiable and PhD must be obtained before the starting date. Deadline for applications is 30. 10. 2014. (Please send CV, expression of interest, and contact details of 3 persons who can provide references, as a single pdf-file)

For enquiries and submitting the applications contact: Tarmo Ketola [tketola\(at\)jyu.fi](mailto:tketola(at)jyu.fi) <http://-ketolatarmo.blogspot.fi> Informative/relevant web-pages: <http://users.jyu.fi/~jugalarz/Webpage/Home.html> <https://www.jyu.fi/bioenv/en/divisions/-coe-interactions> <https://www.facebook.com/bioint> <https://www.jyu.fi/en> tarmo.t.ketola@jyu.fi

U Liverpool Social Competition

POSTDOCTORAL RESEARCH ASSOCIATE: SOCIAL COMPETITION AND CO-OPERATION

UNIVERSITY OF LIVERPOOL, INSTITUTE OF INTEGRATIVE BIOLOGY Full time post-doctoral position, 3 years fixed term Salary range: £32,277 - £37,394

The Mammalian Behaviour & Evolution Group at the University of Liverpool are seeking an enthusiastic individual with expertise in animal behaviour research to investigate how competition affects co-operative behaviour between female kin in wild house mice. You should have (or be about to obtain) a PhD relevant to behavioural research, with excellent experimental and communication skills. Experience in the study of reproductive competition and/or co-operative breeding would be advantageous. The post is available for 3 years.

Based at the Leahurst Campus on the Wirral, the Mammalian Behaviour & Evolution research group (www.liv.ac.uk/mbe) currently comprises four full time members of academic staff, several associate members, a Senior Experimental Officer, five postdoctoral researchers, six research technicians and 10 postgraduate research students. In addition to weekly laboratory meetings and journal clubs, we interact regularly with research groups based at the Liverpool Campus, and share a joint weekly seminar series of external speakers in Evolution, Ecology and Behaviour.

Closing date for applications: 21st November 2014

Further details: <http://www.liv.ac.uk/working/-jobvacancies/currentvacancies/research/r-586737/> Informal enquiries: Paula Stockley (p.stockley@liv.ac.uk)

Dr Paula Stockley Mammalian Behaviour & Evolution Group University of Liverpool Leahurst Campus Chester High Road Neston CH64 7TE, UK

tel: +44 151 794 6103 mail: p.stockley@liv.ac.uk <http://www.liv.ac.uk/mbe> "Stockley, Paula" <P.Stockley@liverpool.ac.uk>

U Michigan Mammalian Evolutionary Biology

Mammalian Behavior, Physiology, and Evolutionary Ecology Post-doc. I am seeking a postdoctoral research associate to work with my newly formed research group at the University of Michigan on questions at the intersection of behavior, physiology, and life histories in mammals. One broad aim of this research will be to document how developmental stress affects the physiology/behavior/life histories of wild mammalian species. This position will involve fieldwork in North America with free-living mammals in addition to detailed laboratory work to measure physiological, neurological, and genomic characteristics. The postdoctoral research associate will work collaboratively with my research group to address some specific research questions but will also have the scientific freedom to develop and address their own questions within our study systems. This will involve field and lab work, statistical analyses, writing papers and grant proposals, administrative work associated with the field/lab projects, supervising staff/undergraduates/graduates, and participating in outreach activities.

Applicants must have a Ph.D. in a related field by the

start of the position and should be highly skilled in either fieldwork or laboratory techniques but preferably both. Applicants should possess some combination of desired technical skills (e.g., field work, neuroscience, hormone/oxidative stress assays, qPCR, in situ hybridization, epigenetics, bioinformatics, quantitative genetics) and also advanced statistical skills and past evidence of publishing papers. Applicants with no experience in fieldwork but with highly developed laboratory skills are also encouraged to apply. All applicants should be highly motivated, organized, creative, and collaborative.

This position will be based in my lab (Ben Dantzer) at the University of Michigan (Ann Arbor, MI) but will require fieldwork in other locations in North America. The initial position is a 12 month, full-time, and fixed-term position, with a second year depending upon performance. The start date is negotiable depending upon the candidate but ideally by 1 February 2015. To apply, please send to me via email (Dantzer@umich.edu) in a single PDF: 1) a cover letter outlining your research interests, skills, and why you are applying, 2) CV (containing at least 3 references), and 3) two recent first-authored publications. Please send these materials to me by 1 December 2014. Feel free to contact me if you have any questions or view my webpage (<http://www-personal.umich.edu/~dantzer/>).

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

-Ben

Ben Dantzer, Ph.D. Assistant Professor Department of Psychology University of Michigan Ann Arbor, MI 48109 USA

Email: dantzer@umich.edu Phone: 734-615-2352 Twitter: @ben_dantzer

Web: <http://www-personal.umich.edu/~dantzer/> www.redsquirrel.ca www.kalahari-meerkats.com Benjamin Dantzer <bendantzer@gmail.com>

UMinnesota PhyloComparativeMethods

Postdoctoral Position at the University of Minnesota, Twin Cities

A postdoctoral researcher is sought to conduct comparative phylogenetic studies of the effects of polyploidy

and breeding system on rates of evolution. This project is a collaboration between the labs of Emma Goldberg in the Dept of Ecology, Evolution & Behavior at the University of Minnesota (where the position will be based) and Itay Mayrose in the Dept of Molecular Biology and Ecology of Plants at Tel Aviv University. More information about our labs is available at < <http://www.umn.edu/~eeg> > and < <http://www.tau.ac.il/~itaymay> >.

The postdoc will work with unparalleled datasets on plant chromosome counts and breeding system, and s/he will develop and apply new phylogenetic comparative methods to uncover the micro- and macroevolutionary consequences of these traits. In addition to the specific projects we have in mind regarding rates of sequence evolution and lineage diversification, there is substantial flexibility in developing projects within the general theme. Work will include methods development—de novo and/or tied to existing software in C++ and R—and extensive simulation testing of new techniques. Demonstrated computational expertise is thus required, although it need not be in precisely these areas.

Initial appointment will be for one year with competitive salary and benefits. A start date between March and September 2015 is preferred. To apply, please assemble a short cover letter, a CV, and names and contact information for three professional references. Please also prepare a 1-2 page statement that outlines your research interests and describes your background in phylogenetics or quantitative biology more broadly (which could include software development, statistics, and/or math). Materials should be submitted online at < <http://employment.umn.edu/applicants-Central?quickFind=125309> >. Review of completed applications will begin on December 1, but candidates will be considered until the position is filled. Informal inquiries are welcome, directed to Emma Goldberg <eeg@umn.edu>.

The Twin Cities campus of the Univ Minnesota is home to a diverse set of local collaborators, expertise, and resources, particularly within the departments of Ecology, Evolution & Behavior < www.cbs.umn.edu/-eeb > and Plant Biology < www.cbs.umn.edu/plantbio >, and the Minnesota Supercomputing Institute < www.msi.umn.edu >. The campus is located in the heart of the Minneapolis-Saint Paul metropolitan area, which is rich in cultural and natural attractions. Lab-group water and ice sporting activities are encouraged.

The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to

race, color, creed, religion, national origin, sex, age, marital status, disability, public assistance status, veteran status, or sexual orientation.

Emma E. Goldberg Assistant Professor Dept. of Ecology, Evolution and Behavior University of Minnesota – Twin Cities email: eeg@umn.edu <http://www.umn.edu/~eeg> eeg@umn.edu

UMontpellier TheoryAdaptationWithSelfing

*Postdoctoral position available at the****AGAP Unit in Montpellier (France)***

The AGAP Unit (team Ge2Pop / Davem) is seeking a highly-qualified post-doctoral researcher to work on a project assessing the effect of self-fertilization on adaptation to heterogeneous environments. The aim of this post-doctoral project is to develop new theoretical models on adaptation to spatially and temporally variable environments under selfing. An important issue will be to explicitly take into account the complex genetic architecture of adaptive traits and to consider the interplay between selection and drift as well as gene flow under specific selfing rates. Extension of models of evolutionary rescue to the case of populations reproducing through partial or predominant selfing will also be of interest.

Candidates with a PhD in evolutionary biology and a strong interest for theoretical approaches are encouraged to apply. Previous experience in either population genetics, quantitative genetics or adaptive dynamics modeling is required. Applicants shall have basic knowledge and a strong interest in population biology and adaptation and skills in mathematical developments or programming. Excellent written and spoken skills in French or English are a must.

The project is part of an ANR funded project (SEAD, program Bioadpat 2013). This project federates a community of researchers working in Montpellier on the consequences and evolution of mating system from different perspectives (evolutionary biology, conservation biology, exploration and exploitation of naturally occurring genetic variation) who all have made significant contributions to the field over the last 15 to 20 years. The candidate will join the research group GE2POP (Génomique Evolutive et GEstion des Populations – Evolutionary genomics and populations management)

lead by Joëlle Ronfort in Montpellier and will work in close interaction with Ophélie Ronce (ISEM), Pierre-Olivier Cheptou (CEFE), and Sylvain Glémin (ISEM, EBC-Uppsala)

The appointment is for 18 months, with a provisional start date of January 2015. Candidates can apply by sending a copy of their CV and a cover letter to Joëlle Ronfort at Joelle.Ronfort@supagro.inra.fr.

Candidates that are eligible to apply for an AgreenSkills or AgreenSkills+ fellowship could benefit from attractive conditions that include higher monthly salaries, ranging from EUR3500 for young scientists and EUR5000 for independent scientists, if their project proposal is successful. The next call for submissions is 15 November 2014. To find out more about the two programmes and whether you are able to apply for a fellowship, please visit www.agreenskills.eu. [ronceophelie <ronceophelie <ophelie.ronce@univ-montp2.fr>](mailto:ronceophelie@univ-montp2.fr)

UOregon MicrobialEcolEvolution

Postdoctoral Position in Microbial Ecology and Evolution

Jessica Green at the University of Oregon Green (<http://pages.uoregon.edu/green/>) is currently seeking a postdoctoral researcher to explore fundamental questions in microbial ecology and evolution. Applicants should have a PhD in a biological, computational, mathematical, or statistical field with extensive training using theory and/or modeling to understand the ecology and evolution of complex biological communities, and strong writing skills. Experience developing and applying quantitative phylogenetic ecological methods is highly desirable, but not explicitly required for candidates who have otherwise demonstrated strong quantitative skills.

The successful candidate will play a key role in the Seagrass Microbiome Project (<http://seagrassmicrobiome.org>) in collaboration among Jonathan Eisen (<http://phylogenomics.wordpress.com>), Jay Stachowicz (<http://www-eve.ucdavis.edu/~stachowicz/stachowicz.shtml>), and Jenna Lang (<http://jennomics.com/>) at the University of California, Davis. The Seagrass Microbiome Project aims to integrate the long interest in seagrass ecology and ecosystem science with more recent work on microbiomes to produce a deeper, more mechanistic understanding of the ecology and evolution of sea-

grasses and the ecosystems on which they depend. Our studies of the community of microorganisms that live in and on seagrasses V the seagrass V will contribute to a broader understanding of host-microbe systems biology, and will benefit from ongoing University of Oregon research programs including the Microbial Ecology and Theory of Animals Center for Systems Biology (<http://meta.uoregon.edu/>) and the Biology and Built Environment Center (<http://biobe.uoregon.edu/>).

The position is available for 1 year with the possibility for renewal depending on performance. The start date is flexible. Please email questions regarding the position to Jessica Green (jlgreen@uoregon.edu).

To apply

A complete application will consist of the following materials:

- (1) a brief cover letter explaining your background and career interests
- (2) CV (including publications)
- (3) names and contact information for three references

Submit materials to ie2jobs@uoregon.edu. Subject: Posting 14431

To ensure consideration, please submit applications by November 1, 2014, but the position will remain open until filled.

Women and minorities encouraged to apply. We invite applications from qualified candidates who share our commitment to diversity.

The University of Oregon is an equal opportunity, affirmative action institution committed to cultural diversity and compliance with the ADA. The University encourages all qualified individuals to apply, and does not discriminate on the basis of any protected status, including veteran and disability status.

– INSTITUTE OF ECOLOGY AND EVOLUTION
5289 University of Oregon, Eugene OR 97403-5289 F (541) 346-2364 <http://IE2.uoregon.edu> Equal-opportunity, affirmative-action institution committed to cultural diversity and compliance with the Americans with Disabilities Act

IE2jobs <ie2jobs@uoregon.edu>

Reminder - two weeks left before the deadline! A link to the add and the online application forms can be found here: <https://uio.easycruit.com/vacancy/-1254519/96871?iso=gb> Postdoctoral research fellow in ancient DNA and evolutionary genomics of Viking Age plants and animals Applications are invited for a two-year position as a postdoctoral research fellow in the field of ancient DNA and evolutionary genomics of Viking Age plants and animals at the Centre for Ecological and Evolutionary Synthesis (CEES), Department of Biosciences, Faculty of Mathematics and Natural Sciences, University of Oslo. The Postdoctoral fellow will be part of the team working on the project \$B!H(BTracking Viking-assisted dispersal of biodiversity using ancient DNA\$B!I(B funded by the Norwegian Research Council.

Project description

The primary objective of this project is to investigate how Viking trade and agriculture have shaped the genomic composition of plants and animals, and increase our understanding of the evolutionary heritage left in contemporary varieties. We focus on species of profound agricultural, cultural and industrial importance (horse, flax and barley) for which excellent genomic tools have recently been developed. In this project we have access to unique samples from different countries that will be analyzed using whole genome, high-throughput sequencing approaches. The successful applicant will join a multi-disciplinary, international team that brings together experts from the fields of biology, archaeology and palaeontology. Furthermore, this project forms a close collaboration between the CEES, the Natural History Museum (NHM) and the Museum of Cultural History (KHM) at the University of Oslo.

Requirements

Applicants must hold a PhD-degree (or other corresponding education equivalent to a Norwegian doctoral degree) with a background within population genomics, evolutionary genomics and/or ancient DNA research. The candidate should be able to document strong analytical skills and experience in the laboratory. Experience with ancient DNA, analytical or experimental, will be an advantage.

The candidate will work in close collaboration with the rest of the team at CEES, NHM and KHM, as well as our national and international partners (Denmark and Great Britain) within this project. Some time will be spent visiting the collaborating partners overseas. We seek a highly motivated, enthusiastic person with the ambition to gain insight and publish papers in leading, international journals, and in possession of good interpersonal skills and willing to work in close collaboration

with others.

The Faculty of Mathematics and Natural Sciences has a strategic ambition of being a leading research faculty. Candidates for these fellowships will be selected in accordance with this, and expected to be in the upper segment of their class with respect to academic credentials.

Please also refer to the regulations pertaining to the conditions of employment for post-doctoral fellowship positions.

Language A good command of English is required.

Salary (applicable for the University of Oslo) Pay Grade: 57-65 (NOK 482 800 -559 600 per year, depending on qualifications)

The application must include:

Application letter including a statement of interest, briefly summarizing your scientific work and interests, and a personal assessment focusing on how you fit the description of the person we seek A brief (1 A4) project plan for the research to be undertaken CV (summarizing education, positions, pedagogical experience, administrative experience and other qualifying activities) Copies of educational certificates and transcript of records A complete list of publications and unpublished works, and up to 5 academic work that applicant wishes to be considered by the evaluation committee Names and contact details of 2-3 references (name, relation to candidate, e-mail and telephone number) Foreign applicants are advised to attach an explanation of their University's grading system. Please remember that all documents should be in English or a Scandinavian language.

The University of Oslo has an agreement for all employees aiming to secure rights to research results a.o.:

In accordance with the University of Oslo's equal opportunities policy, we invite applications from all interested individuals regardless of gender or ethnicity.

Application deadline: 17 October 2014 Expected Start Date: 1 April 2015 Reference number: 2014/10577 Contacts: Dr Sanne Boessenkool (sanne.boessenkool@ibv.uio.no), Dr Anneleen Kool (anneleen.kool@nhm.uio.no)

Sanne Boessenkool <sanneboessenkool@gmail.com>

UOxford ancientDNA Domestication

Postdoctoral Research Assistant in Evolutionary Genomics of Animal Domestication and Migration

University of Oxford

Salary: £30,434 to £37,394

Closing date: 12.00 midday on Monday, 24 November, 2014

This PDRA position will work on the Unifying Evolution and Domestication using Ancient DNA (UNDEAD) project funded by the European Research Council (ERC) under the leadership of Dr Greger Larson.

You will join a multi-disciplinary team of archaeologists and geneticists to explore the origins of animal domestication, and the use of domestic animals as a proxy to understand human migration. For more information see this website:

<http://www.domestication.org.uk/> You will focus primarily on the amplification and analysis of nuclear and mitochondrial DNA sequences from ancient domestic animal bones and teeth using shotgun and capture techniques.

The two major research questions you will explore will be:

- 1) the admixture between Near Eastern pigs and European wild boar during the Neolithic, and
- 2) the use of domestic animals to assess the resilience and survival of early North Atlantic settlements.

though there is scope to pursue your own research interests within the theme of the larger project.

You will have a PhD in bioinformatics, population genomics, evolutionary genetics, animal genomics, or a related discipline. You will have research experience with ancient or degraded DNA and familiarity with library preparation and handling next generation sequencing results.

This post is full-time and fixed-term for 3 years.

For informal enquiries, please contact Dr Greger Larson, email: greger.larson@arch.ox.ac.uk.

Applications for this vacancy are to be made online us-

ing this link:

<http://www.jobs.ac.uk/job/AJU608/postdoctoral-research-assistant-in-evolutionary-genomics-of-animal-domestication-and-migration/>
greger.larson@arch.ox.ac.uk

UPenn MathBio

Simons-University of Pennsylvania Postdoctoral Fellowships in Mathematical Biology

The Departments of Mathematics and Biology at the University of Pennsylvania invite applications for postdoctoral fellowships at the interface of mathematics and biology. These positions are open to candidates who have demonstrated excellence and productivity in research. A Ph.D. or equivalent degree in Biology, Mathematics, Statistics, Computer Science, or related fields is required. Highly qualified mathematicians and statisticians wishing to transition into biology are also encouraged to apply. The fellows will be encouraged to interact and collaborate with various research groups on campus.

Funding for the fellowships will be provided by the Math+X Simons Chair awarded to Prof. Yun S. Song, who will join the University in Summer 2015.

Applications should be submitted online through MathJobs.org (<https://www.mathjobs.org/jobs/-Penn/6569/>) and include a curriculum vitae and a research statement. In addition, applicants should arrange to have three letters of reference submitted online. Review of applications will begin December 15, 2014 and will continue until the positions are filled.

The Departments of Mathematics and Biology are strongly committed to Penn's Action Plan for Faculty Diversity and Excellence and to establishing a more diverse faculty (for more information see: <http://www.upenn.edu/almanac/volumes/v58/-n02/diversityplan.html>). The University of Pennsylvania is an EOE. Minorities/Women/Individuals with disabilities/Protected Veterans are encouraged to apply.

yss@berkeley.edu

UppsalaU AvianPopulationDynamics

Using long-term citizen science data to evaluate effects of wetland restorations on bird population dynamics

We are looking for a postdoc who will model long-term data on bird population dynamics in Swedish wetlands using voluntarily reported data in the Swedish Species Gateway (i.e. citizen science data: <http://svalan.artdata.slu.se/birds/>). You will investigate (i) the effects of different wetland restoration measures on wetland bird communities in different landscape types and wetland networks and (ii) spatio-temporal dynamics of wetland birds. Furthermore, you will organise and analyse an inventory study in 2015 to validate the citizen science data. You will be working in a group of researchers focused on using citizen science data for statistical modelling and testing general questions about biodiversity.

Qualifications: Skills and experience in handling and analysing large data sets (such as citizen science data), hierarchical statistical modelling, and in scientific writing in English will be considered when assessing the applicant. Knowledge of wetland bird dynamics and conservation will be also be considered.

Competence: A PhD in Ecology or Statistics (or equivalent). The degree has ideally been awarded at most three years before the application deadline.

Place of work: Uppsala, Sweden

Form of employment: Temporary employment 6 months or longer.

The position is a one year employment with a possibility of extension for one more year. Extent: 100%

Starting date: As soon as possible

Application:

We welcome your application marked with Ref no. SLU ua 3724/2014. Please submit your application to the Registrar of SLU, P.O. Box 7070, SE-750 07 Uppsala, Sweden or registrator@slu.se no later than October 29, 2014.

Specific documents attached: Specific documents to attach: Applications must contain (1) CV with full publication list, (2) a description of previous and present research including requested qualifications, (3) a state-

ment of scientific interests as well as (4) contact information of three reference persons.

The complete ad: <http://www.slu.se/sv/om-slu/-fristaende-sidor/aktuellt/lediga-tjanster/las-mer/-?eng=1&Pid=1551> Further information:

Jonas Knape PhD +46(0) 18 673423
jonas.knape@slu.se

Tomas Pärt Professor +46(0) 18 672704
tomas.part@slu.se

Tomas Pärt <Tomas.Part@slu.se>

UppsalaU PlantEcoEvolutionaryDynamics

Position for one Postdoc in Plant Eco-Evolutionary Dynamics at Uppsala University, Sweden

We seek a Postdoc to join a project examining how adaptive genetic variation and demographic processes influence evolutionary response and population dynamics in a changing environment. The research uses the perennial herb *Primula farinosa* as a model system, and focuses on the importance of variation in floral traits and life history in relation to differences in abiotic conditions, the intensity of biotic interactions, and climate. The project will combine demographic studies, field experiments, and population modeling, to address three main questions: (1) How is population viability influenced by local environmental conditions, grazing intensity and climatic variation?, (2) How does variation in abiotic environmental factors and grazing influence the genetic structure of plant populations?, and (3) How does the presence of genetic variation in traits of adaptive significance and evolutionary responses influence population viability in a changing environment? Specific subprojects can be tailored to the skills and interests of the successful candidate.

The project is a collaboration between the labs of prof Jon Ågren at the Department of Ecology and Genetics, Evolutionary Biology Centre, Uppsala University, and prof Johan Ehrlén at the Department of Ecology, Environment and Plant Sciences, Stockholm University. We are currently recruiting one postdoc to be placed at Uppsala University, and one PhD student to be placed at Stockholm University.

We are looking for a candidate with a keen interest in population biology and eco-evolutionary dynamics.

Previous experience of modelling, and field or experimental work is desirable. Proficiency in English is a requirement.

The successful postdoc candidate should have a PhD completed within 3 years of the application deadline (reasons such as prolonged periods of illness and parental leave can motivate a longer period). The postdoc position lasts for two years.

Deadline for application is 27 November 2014

Please find the announcement, with all information about how to apply, at:

<http://www.uu.se/en/join-us/jobs-detail-page/-?positionId=46084> For informal enquiries, please contact Jon Ågren, jon.agren@ebc.uu.se, +46-18-471 2860, or Johan Ehrlén johan.ehrlen@su.se, +46-8-16 12 02.

Jon Ågren Plant Ecology and Evolution Department of Ecology and Genetics, EBC Uppsala University Norbyvägen 18 D SE-752 36 Uppsala Sweden

Jon Ågren <jon.agren@ebc.uu.se>

USaoPaulo HydrozoanSystematics

Postdoctoral position at the University of São Paulo (USP)

A 2-year postdoctoral fellowship is available starting in November 2014 as part of a FAPESP grant (<http://www.fapesp.br/>) to study systematics and biogeography of Hydrozoa from Patagonia and Antarctica. The position is open to Brazilians and foreigners. The opportunity is inserted in the thematic project with the aim to investigate the dimensions of marine life, transversally, through the search of patterns and processes in many biological levels, and in questions related to time and space in different scales. Specifically to this position, the fellow should develop the work in the subproject "Systematics and biogeography of Hydrozoa from Patagonia and Antarctica". The specific postdoctoral project focuses on the "Areas of endemism of benthic hydroids from the subantarctic and Antarctic regions, and the influence of their mechanisms of dispersal in marine biogeographic patterns". The aim is to survey hypotheses of areas of endemism for subantarctic and Antarctic benthic hydroids through the use of parsimony and optimization methods in biogeography, contrasting the patterns found with different strategies

of life cycle in Hydrozoa.

1. Applications

The application is exclusively via e-mail, with documentation sent in pdf format addressed to Antonio Carlos Marques (marques@ib.usp.br), lead of the FAPESP grant, up to November 20th 2014, 24:00, Brasilia time.

2. Qualifications

- a) PhD in Zoology, or equivalent area;
- b) PhD completed in the previous 2 years, maximum;
- c) To have the PhD diploma, certification of the PhD dissertation defense, or equivalent document;
- d) Curriculum vitae demonstrating that the candidate is able to develop the project based on previous experiences;
- e) Applicants should have a track record of peer-reviewed publications, or articles in press, in the area or in the taxonomic main group of the project;
- f) Applicants should have a track experience in marine biogeography, areas of endemism, morphology and taxonomy of the group to be studied (benthic hydrozoans, particularly the subclasses Leptothecata and “Anthoathecata”), and in biogeographic methods (ecological and historical) of recognition of areas of endemism (since the constitution of the dataset until the interpretation of the analyses results);
- g) It is necessary to be fluent in English and knowledge of Spanish is a plus;
- h) Applicants should have experience in the use of software of construction and edition of data matrices (NEXUS, Mesquite, Winclada, MacClade), cladistic analyses by parsimony (PAUP, TNT), construction and edition of trees (Figtree, Mesquite, WinClada, MacClade, TreeView) and maps (ArcGis e Diva-GIS), besides the optimization software NDM-VNDM.
- h) Applicants should have experience in performing and interpret analyses of search of areas of endemism through the methods of Parsimony Analysis of Endemism (PAE) and optimization through the Endemism Analysis (EA), besides the comparison on the differences between the results and performances of both methods;
- i) The approved candidate should dedicate himself/herself entirely and exclusively to the project activities;
- j) The approved candidate should not maintain employment or statutory relationship during the project validity;
- k) The approved candidate should not be retired;

l) The approved candidate should have experience of internship abroad of minimum 9 (nine) months;

m) The approved candidate should be available to initiate activities related to the project as soon as your application is approved by FAPESP;

n) The approved candidate must have the ability to organize research tasks independently;

o) The approved candidate must have the ability to coordinate classes and discussions at the level of post-graduate in the field of marine biogeography or systematics, and to help in the supervision of undergraduate and graduate students.

3. Documentation

For application, the applicant should submit by e-mail in PDF document: (a) an updated Curriculum vitae, (b) two letters of recommendation of professionals from the area, (c) a brief statement (maximum 2 pages) of work experience and motivations concerning the post-doctoral position.

4. Selective process

The selection of the applicants will be held in two stages: (a) analysis of the documentation received by e-mail, (b) evaluation of the CV of the qualified candidates.

5. Results

The result will be e-mailed from November 21th 2014.

6. Fellowship

The approved candidate will receive a FAPESP post-doctoral fellowship in the value of R\$ 6,143.40/month (approx. US\$2,528.00/month) for 24 months, plus a technical reserve and an installation aid. The technical reserve of the postdoctoral fellowship is of 15% of the annual value of the fellowship, and has the aim to cover the unexpected expenses directly related to the research activity. In case the postdoctoral fellow student lives in a

— / —

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

Postdoctoral Researcher (Full-time, 2 years) Ref 846
School of Life Sciences University of Sussex Salary
range: starting at £31,342 and rising to £37,394 per
annum Closing date for applications is: 9 November
2014

A postdoc is available in my lab (Lab website:
<http://www.sussex.ac.uk/lifesci/morrowlab/index>) as
part of a project funded by a European Research
Council (ERC) grant (2Sexes_1Genome [http://
cordis.europa.eu/project/rcn/101182_en.html](http://cordis.europa.eu/project/rcn/101182_en.html)) that
aims to investigate the genetic basis of sexually
antagonistic fitness variation. The postdoc posi-
tion will primarily be responsible for undertaking a
large-scale field-based experiment using the fruit-fly
Drosophila melanogaster, to learn more about the
genetics of fitness variation under natural conditions.
The project will take advantage of already existing
whole-genome sequences and phenotypic data collected
under laboratory conditions.

The position would suit an ambitious and highly moti-
vated individual with an interest in evolutionary genet-
ics of fitness variation and sexual antagonism. The posi-
tion would require a high level of independence in order
to establish field sites and work for extended periods in
the field. The candidate should have experience of in-
sect or invertebrate model systems under lab or field
conditions, as well as good analytical and or statistical
skills ideally within a quantitative genetic framework,
and have experience of using molecular markers. Good
communication and organizational skills are essential.
The post-holder must have a PhD in a biological or
related subject.

Ref 846 Further particulars including person spec-
ification PDF: [http://www.sussex.ac.uk/aboutus/-
documents/846-fps.pdf](http://www.sussex.ac.uk/aboutus/-
documents/846-fps.pdf) FULL DETAILS HERE:
<http://www.sussex.ac.uk/aboutus/jobs/846> Informal
enquiries with CV to ted.morrow@sussex.ac.uk

Email: ted.morrow@sussex.ac.uk Twitter:
@ted_morrow Webpage: [http://www.sussex.ac.uk/-
lifesci/morrowlab/](http://www.sussex.ac.uk/-
lifesci/morrowlab/) ResearcherID: [http://-
www.researcherid.com/rid/C-2358-2011](http://-
www.researcherid.com/rid/C-2358-2011) ResearchGate:
https://www.researchgate.net/profile/Edward_Morrow
Edward H. Morrow Evolution, Behaviour and Environ-
ment Group (@SussexBiology) School of Life Sciences
University of Sussex John Maynard Smith Building
Falmer Brighton, BN1 9QG UNITED KINGDOM

Tel: +44 (0)1273 87 2862 Mobile: +44 (0)783 772 7714
Edward Morrow <ted.morrow@sussex.ac.uk>

USussex SocialBees

POSTDOCTORAL RESEARCH FELLOW IN THE BEHAVIOURAL ECOLOGY AND GENETICS OF SOCIAL SYSTEMS

Full time, 3 years fixed term Expected start date: 1
January 2015 Salary range: starting at £31,342 and
rising to £37,394. It is normal to appoint at the first
point of the salary scale. Closing date for applications:
19 November 2014 Interviews will be held during 3-11
December 2014.

A full-time, NERC-funded, 3-year postdoctoral re-
search position is available in the School of Life Sci-
ences at the University of Sussex. The position of-
fers an exciting opportunity to join a research team
led by Prof Jeremy Field working on the behavioural
and evolutionary ecology of social systems ([http://-
www.sussex.ac.uk/lifesci/fieldlab/](http://-
www.sussex.ac.uk/lifesci/fieldlab/)). The main aim of
the project is to use a combination of approaches from
behavioural ecology and quantitative genetics to inves-
tigate queen-worker coadaptation and conflict in primi-
tively eusocial sweat bees (*Lasioglossum*). The resolu-
tion of reproductive conflicts has been well studied both
theoretically and empirically in eusocial Hymenoptera.
However, much less is known about the coevolutionary
process involved, and the underlying trait architecture.
The work will lead to a comprehensive understanding
of queen-worker coevolution, including the first tests of
several key hypotheses.

Work will be carried out at Sussex University,
also involving collaboration with Prof Mathias
Kölliker (University of Basel, Switzerland: [http://-
evolution.unibas.ch/koelliker/](http://-
evolution.unibas.ch/koelliker/)). The project will in-
volve a combination of large-scale field experiments in
the UK, and genetic work using microsatellite markers.
There will be a technician working on the project who
will carry out much of the molecular work.

The successful applicant will have a Ph.D in be-
havioural/evolutionary biology. Experience with ani-
mal social systems and quantitative genetics, and ex-
perience of fieldwork, molecular techniques and statis-
tical analysis using R and similar programs would all
be useful, but it is not necessary to have experience in
all of these areas. Possession of a clean driving licence
is essential.

The Evolution, Behaviour and Environment (EBE)

Subject Group in the School of Life Sciences at Sussex (<http://www.sussex.ac.uk/lifesci/ebe/research>) is a thriving research environment providing ample opportunities to interact with leading senior researchers and their groups. The successful applicant will particularly benefit from an exceptional, on a world scale, concentration of research expertise that focusses on social behaviour in insects. Jeremy Field, Francis Ratnieks, Bill Hughes, Dave Goulson, Tom Collett and Paul Graham all lead well-established research groups. Our seminar series have a correspondingly strong (though by no means exclusive) focus on social evolution.

Full details of the post, with information about where to submit an application, salary and the University of Sussex application form, are available at: <http://www.sussex.ac.uk/aboutus/jobs/876>. Please note that the full application, including CV, covering letter and completed standard application form should be sent to lifescirecruitment@sussex.ac.uk

Informal enquiries: Jeremy Field (j.field@sussex.ac.uk)

Professor Jeremy Field School of Life Sciences, John Maynard Smith Building, University of Sussex, Falmer, Brighton BN1 9QG, UK

j.field@sussex.ac.uk <http://www.sussex.ac.uk/lifesci/fieldlab/> Tel 01273 877135

Jeremy Field <J.Field@sussex.ac.uk>

UVigo CancerEvolutionaryGenomics

Postdoctoral position in NGS cancer evolution

University of Vigo, Spain - October, 2014

DESCRIPTION: A postdoctoral position is available within the European Research Council project PHYLOCANCER to work on cancer evolution in David Posada's lab at the University of Vigo, Spain (<http://darwin.uvigo.es>).

JOB CONDITIONS: Initial appointments will be made for one year, with a possible extension to up to four years. Gross annual salary including benefits will be around 25,000-30,000 Euros, commensurate with experience. Starting date is negotiable.

MINIMUM REQUIREMENTS: Candidates should have a PhD degree and ample, demonstrable experience with NGS data analysis, in particular variant calling. Candidates without a strong NGS background will not

be evaluated.

DESIRABLE REQUIREMENTS: Background in evolutionary/cancer genomics, programming abilities and/or statistical skills.

APPLICATION: Please send a letter of interest, C.V., and the names and contact details of two referees to David Posada at xb5lab@gmail.com, indicating "post-doctoral position phylocancer" in the subject of the email.

Questions and requests for more information should be directed at the same address. Review of applications will begin immediately, and continue until the positions are filled.

David Posada Facultad de Biología Campus Universitario Universidad de Vigo 36310 Vigo Spain

Phone: +34 986 812038 Cell: +34 647 343300 Fax: +34 986 812556 Email: dposada@uvigo.es Web: <http://darwin.uvigo.es> David Posada <dposada@uvigo.es>

UVirginia Bioinformatics

Postdoctoral Scholar: Comparative Genomics, and Bioinformatics

The Ratan Lab at the University of Virginia seeks a Postdoctoral Research Associate in the areas of Comparative Genomics, and Bioinformatics to develop methods and study questions related to genome variation and genetic diversity.

We are part of the Center for Public Health Genomics at University of Virginia. Our long-term goals are focused on integration of increasingly voluminous amounts of genotype and phenotype data to address interesting biological questions. We develop algorithms and software to analyze large-scale datasets to study genetic variation and its consequences on species health and survival. We are currently applying our methods to several projects including identification and understanding of how genomic changes contribute to the pathogenesis of the T-cell form of Large Granular Lymphocyte (LGL) leukemia, an effort to explore the genetic susceptibility of families to Autism and study of genetic diversity in several non-mammalian species. The selected candidate will be expected to participate in the development of publications for peer-reviewed journals, as well as on grant proposals to funding agencies. The candidate will be encouraged

to choose his or her own research projects in the above-mentioned areas, with appropriate mentorship. More details about the lab and related publications can be found at http://cphg.virginia.edu/?page_id=3D3413&preview=true Required Qualifications: 1. Ph.D. degree in Statistics, Biological Sciences, Genetics/Genomics, Computer Science or a related field in hand by start date 2. Experience in at least one of the following: genomics; bioinformatics; high-throughput genome analyses; Python; R; C 3. Independence, creativity and good communication skills

Preferred Qualifications: 1. Experience with object-oriented programming languages such as C++ and Python 2. Experience writing publications with a record of publication in peer-reviewed journals 3. Experience in genomics, if doctorate is in another field

To apply, visit <https://jobs.virginia.edu> and search on Posting Number 0614786. Complete a Candidate Profile on-line; attach a CV, cover letter describing your previous research and future research plans (maximum 1 page), and contact information for three references.

Aakrosh Ratan Assistant Professor University of Virginia

ar7jq@eservices.virginia.edu

UWashington GeneticsOfAging

The University of Washington has post-doctoral position open in their "Genetic Approaches to Aging" Training Grant (see below). The position is available immediately. Applicants must be US citizens or Green Card holders. The successful applicant will have the choice of numerous labs (information on links below) with diverse training options, including training in the Evolutionary Genetics of Aging (e.g., <http://www.promislowlab.org>).

The T32 Genetic Approaches to Aging Training Grant has one Post-doctoral slot open for a 9-month appointment

The goal of our program is to train new independent investigators who will utilize contemporary molecular and genetic techniques to investigate the underlying mechanisms of aging.

Applications are scored by consideration of the qualifications of the applicant and the mentoring environment, as well as how the research specifically relates to

the biology of aging. Funding is at NIH stipend levels.

Deadlines Applications are considered on a rolling basis, we encourage applicants to make their submissions as soon as possible.

Applications for the slot will be accepted until the position is filled.

For more Information: For more information on the Genetic Approaches to Aging Training Program visit <http://www.uwaging.org/training-grant> For Application instructions visit <http://www.uwaging.org/-training-grant/application>

For questions regarding the application process, please contact Rachel Wilsey at wilseyr@uw.edu or 206-616-4135

Daniel Promislow Department of Pathology and Department of Biology University of Washington 1959 NE Pacific Street Box 357705, Room K-078 Seattle, WA 98195 ph: 206 616-6994 e: promislo@uw.edu

Daniel Promislow <promislo@u.washington.edu>

UWisconsin Madison YeastEvolutionaryGenomics

Dear Colleagues,

I am seeking a highly motivated postdoctoral researcher with an exceptional background in bioinformatics, functional genomics, or evolutionary genomics. Experience analyzing Illumina sequence data, computer programming proficiency, and training in ecological or evolutionary genetics are highly desirable.

We recently received generous funding for yeast evolutionary genomics research from the National Science Foundations Dimensions of Biodiversity Program (http://www.nsf.gov/news/news_summ.jsp?cntn_id=-132506) and the Pew Charitable Trusts (<http://www.pewtrusts.org/en/about/news-room/press-releases/2014/06/24/pew-grants-22-young-scientists-support-for-biomedical-research>).

With Antonis Rokas (Vanderbilt) and Cletus P. Kurtzman (USDA), the Y1000+ Project (http://www.nsf.gov/awardsearch/showAward?AWD_ID=-1442148&HistoricalAwards=false) seeks to sequence and analyze the to complete genomes of all ~1,000 known species of Saccharomycotina yeasts and determine the genetic basis of their metabolic, ecological,

and functional diversification. Yeasts are genetically more diverse than vertebrates and have remarkable metabolic dexterity, but most remain minimally characterized. They compete vigorously for nutrients in every continent and biome and can produce everything from beer to oil. The history of yeasts is recorded in their genome sequences. Now is the time to read it and tell their story!

The Hittinger Lab has diverse funding for other basic and applied research from NSF, DOE, and USDA, but we are specifically expanding our basic research in ecological and evolutionary genomics.

The complete advertisement and application instructions can be found here: <http://hittinger.genetics.wisc.edu/Research/Funding/PostDocAd2014.html>. The precise start date is flexible, but candidates should apply by November 30th to receive full consideration.

Sincerely,

Chris Todd Hittinger, Assistant Professor of Genetics Genome Center of Wisconsin J. F. Crow Institute for the Study of Evolution University of Wisconsin-Madison 425-G Henry Mall, 2434 Genetics/Biotechnology Center Madison, WI 53706-1580 cthittinger@wisc.edu, (608) 890-2586 <http://hittinger.genetics.wisc.edu> Chris Hittinger <cthittinger@wisc.edu>

UZurich ComputationalBiol

Research Scientist in Computational Biology at the University of Zurich (80 - 100%)

The Payne group seeks a research scientist to work on questions related to the evolution and robustness of transcription factor binding sites (see Payne & Wagner, Science, 2014). The overarching aim of the group is to understand the design constraints, robustness, and evolution of transcriptional regulation systems, using both computational modeling and data-driven approaches (<https://sites.google.com/site/joshualevipayne/>). We are hosted within the laboratory of Prof. Andreas Wagner at the University of Zurich (<http://www.ieu.uzh.ch/wagner/>).

We seek a creative and self-motivated individual that is well versed in computation and has a passion for evolutionary biology. This will be demonstrated via an advanced degree (preferably a Ph.D. in computer sci-

ence, physics, biology, or a related field) and a strong publication record. Fluency in English is required (oral & written); experience working on transcriptional regulation and/or with large, noisy datasets is a plus.

This position is part of an Ambizione Fellowship awarded by the SNF to Dr. Payne. The duration of the position is two years and the salary is competitive. The earliest starting date is January 5th, 2015.

Interested parties should email a statement of interest and their CV, including publication list, as a single PDF to joshua.payne@ieu.uzh.ch. Please include the names of at least three references. For full consideration, please apply by October 31st. Evaluation of candidates will begin thereafter and will continue until the position is filled.

joshua.payne@ieu.uzh.ch

WSL Switzerland AlpinePlantAdaptation

Postdoc position in Switzerland on phenology of alpine plants The ?Mountain Ecosystems? and ?Climate Research? teams at the Institute for Forest, Snow and Landscape Research WSL in Switzerland are looking for a Postdoctoral Researcher in the project: ?Warmer temperatures, less snow, earlier plant development? Using a long-term meteorological network to unravel temperature and snow effects on mountain vegetation?. We take advantage of a unique and extensive set of climate monitoring stations in the Swiss Alps that provides c. 20 years of climate, snow and plant growth data. We plan to extend the approach to other regions of the Alps or world. You will investigate how temperatures and snow cover influence plant phenology along geographical gradients within the network of climate stations to determine how changed climate conditions such as accelerated snowmelt control phenology and the distribution of plants. You will publish your results in international journals. The position is funded for the duration of 2 years and should start in January 2015. The work location is Davos, Switzerland.

A PhD in the field of biology, ecology or botany is required and you must have experience in field work and statistical analyses particularly in R. You are able to handle and analyze large and long-term data sets and you are fluent in English. You are a team player, possess good oral and written communication skills, good

organizational ability and can work efficiently.

The WSL Institute for Snow and Avalanche Research SLF in Davos is part of the Swiss Federal Institute for Forest, Snow and Landscape Research WSL and thus part of the ETH Domain. WSL focuses on the sustainable use and protection of landscapes and habitats, and a responsible approach to natural hazards. WSL employs approximately 500 people, of whom 130 work at SLF in Davos.

Please apply online (see link below) by sending your complete application to Jasmine Zimmermann, Human Resources WSL/SLF. Christian Rixen, phone +41

(0)81 417 02 14, e-mail rixen@slf.ch, and Martine Rebetez, phone Tel. +41 (0)32 718 18 12, will be happy to answer any questions or offer further information. To be assured of full consideration, please apply by November 5, 2014.

To apply online, press the ?apply now? button at the end of the job ad at <https://apply.refine.ch/273855/-0445/pub/2/index.html> Dr. Christian Rixen Community Ecology WSL Institute for Snow and Avalanche Research SLF Flüelastrasse 11 CH- 7260 Davos tel ++41 81 417 02 14 fax ++41 81 417 01 10 e-mail: rixen@slf.ch http://www.wsl.ch/personal_homepages/-rixen/ <http://www.slf.ch> rixen@slf.ch

WorkshopsCourses

Barcelona NetworksInBiosciences Apr20-24	152	MNHN Paris DNABarcoding Mar9-13	155
Glasgow AdvancingInR Dec1-5	153	SanDiego PAG2015PopulationGenomics Jan10-15	155
Glasgow AdvancingInR Dec1-5 2	153	Spain MorphometricsInR Jan26-30	156
Hinxton UK ComputationalMolEvol Apr13-24 ...	154	UGlasgow SpatialAnalfysisUsingR Mar16-20	157
Lyon ComparativeGenomics Jan26-Feb6	155		

Barcelona NetworksInBiosciences Apr20-24

Dear list members,

Registration is open for the course "INTRODUCTION TO NETWORK TOOLS IN BIOSCIENCES - 2nd Edition". Course Webpage: <http://www.transmittingscience.org/courses/syst-bio/networks/> INSTRUCTORS: Dr. Diego Rasskin-Gutman (Institut Cavanilles de Biodiversitat i Biologia Evolutiva, Spain) and Dr. Borja Esteve-Altava (Institut Cavanilles de Biodiversitat i Biologia Evolutiva, Spain).

DATES: April, 20-24, 2014. 34 teaching hours.

PLACE: Facilities of the Centre de Restauració i Interpretació de Els Hostalets de Pierola, Els hostalets de

Pierola, Barcelona (Spain).

PROGRAM:

- Complex Biological Systems: Modelling Relations: Historical and conceptual introduction. Basic concepts and representations.
- Hands on Computers: Introduction to R: Presentation of the R environment and language. Basic operations in R (useful for network modelling). Packages installation.
- Hands on Computers: Introduction to igraph and Network Modelling: Presentation of the package igraph. Modelling deterministic networks. Manipulating network attributes. Modelling networks from loaded data.
- Complex Biological Systems: Applied Network Theory: Nodes, links and types of networks. Basic network parameters. Network architecture and null network models.
- Work Example: Analysing parameters and architec

ture in tetrapod skull networks.

- Hands on Computers: Analysing Networks: Quantifying basic network parameters. Identifying network architecture.
- Work Example: Null network models of skull development to study evolution.
- Hands on Computers: Modelling Network Null Models: Regular and random models. Small-world and scale-free models. Geometric models.
- Complex Biological Systems: Network Properties: Robustness and the concept of secondary extinction. Modularity.
- Work Example: Modularity in skull networks.
- Hands on Computers: Identifying Modules: Optimization methods. Heuristic methods. Quantifying the strength of modularity.
- Participants Project Preparation. Bringing your own data is not required for this part, but you are welcome to do so if you have it.

Organized by: Transmitting Science, the Institut Catal  de Paleontologia Miquel Crusafont and the Council of Hostalets de Pierola.

Please feel free to distribute this information between your colleagues if you consider it appropriate.

With best regards

Soledad De Esteban Trivigno, PhD. Course Director Transmitting Science < <http://www.transmittingscience.org/> >

soledad.esteban@transmittingscience.org

Glasgow AdvancingInR Dec1-5

Course title; 'ADVANCING IN R'

The content designed to bridge the gap between basic R coding and more advanced statistical modelling.

The course is aimed at PhD students and post docs (although people at any stage of their career are welcome) with basic to moderate knowledge in R.

It will be held in the 1st week of December (1st-5th) at SCENE (Scottish Center for Ecology and the Natural Environment), Glasgow, United Kingdom.

Course content is as follows and will be based on biological examples...

Module 1 Introduction & data visualization using (graphics) and (ggplot2) Module 2 Univariate regression, diagnostics & plotting fits Module 3 Adding additional continuous predictors (multiple regression); scaling & collinearity Module 4 Adding factorial (categorical) predictors & incorporating interactions (ANCOVA) Module 5 Model selection & simplification (likelihood ratio tests, AIC) Module 6 Mixed effects models in theory & practice Module 7 Generalised Linear Models (binomial and count data) Module 8 Nonlinear models (polynomial & mechanistic models) Module 9 Combining methods (e.g., nonlinear mixed effect (NLME) models & generalised linear mixed effect (GLMM) models) Module 10 One-on-one consultations/other advanced topics

Cost is £350 for the 5 days including lunches and refreshments or £525 for an all inclusive option which includes the addition of accommodation, all meals and refreshments.

There is also the possibility (depending on time) to have one on one sessions regarding your own data!

For further details or questions please email oliverhooker@prstatistics.co.uk

Oliver Hooker PhD research student University of Glasgow +44 (0) 1360 870 510 +44 (0) 7966 500 340 o.hooker.1@research.gla.ac.uk

Oliver Hooker <o.hooker.1@research.gla.ac.uk>

Glasgow AdvancingInR Dec1-5 2

Course title; 'SPATIAL ANALYSIS OF ECOLOGICAL DATA USING R'

The course will be delivered by Jason Matthiopoulos who is a Professor of Spatial and Population Ecology at the University of Glasgow (Institute of Biodiversity Animal Health and Comparative Medicine) and the author of 'How to be a Quantitative Ecologist' the A to Z of Green Mathematics and Statistics.

The course content will cover the concepts and R tools that can be used to analyse spatial data in ecology covering elementary and advanced spatial analysis techniques applicable to both plants and animals. It will investigate analyses appropriate to transect (e.g. line surveys, trapping arrays), grid (e.g. occupancy surveys) and point data (e.g. telemetry). The focal questions will be on deriving species distributions, determining

their environmental drivers and quantifying different types of associated uncertainty. Novel methodology for generating predictions will be introduced. We will also address the challenges of applying the results of these methods to wildlife conservation and resource management and communicate the findings to non-experts.

Module 1 Introductory lectures; key questions in spatial ecology, the main types of data on species distributions, concepts, challenges and different types of environmental data; useful concepts from statistics; GLM's

Module 2 Density estimation, spatial autocorrelation, Smoothing, Kernel Smoothers, Kriging, Trend-fitting (linear, generalised linear, generalised additive models)

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Module 8 Prediction, Validation by resampling, Generalised Functional Responses for species distribution, quantifying uncertainty, dealing with the effects of population density

Module 9 Applications, Designing protected areas, thinking about critical habitat, representing uncertainty

Module 10 Round table discussions, About 4 groups, each of 5-10 people working on a particular problem, to be worked out in advance of the course starting.

The course is aimed at PhD students and post docs (although people at any stage of their career are welcome) with basic to moderate knowledge in R.

The course will be held at SCENE (Scottish Center for Ecology and the Natural Environment), Glasgow, United Kingdom from 16th - 20th March 2015.

The cost is £450 for the 5 days including lunches and refreshments or £650 for an all inclusive option which includes the addition of accommodation, all meals and refreshments, (accommodation is multiple occupancy

(max 3 people) single sex en-suite rooms).

For further details or questions please email oliverhooker@prstatistics.co.uk or visit www.prstatistics.co.uk Oliver Hooker PhD research student University of Glasgow +44 (0) 1360 870 510 +44 (0) 7966 500 340 o.hooker.1@research.gla.ac.uk

Oliver Hooker <o.hooker.1@research.gla.ac.uk>

Hinxton UK ComputationalMolEvol Apr13-24

Dear Community,

The 7th summer school on Computational Molecular Evolution organized by Aidan Budd, Nick Goldman, Ziheng Yang, Alexis Stamatakis and Laura Emery will take place again in 2015 and we will be back as a Wellcome Trust Advanced Course at the EBI, Hinxton, UK. The precise dates are 13-24 April, 2015.

Confirmed instructors include:

Maria Anisimova (Institute of Applied Simulations, Zürich University of Applied Sciences, Switzerland) Martin Embley (University of Newcastle, UK) Adrian Friday (University of Cambridge, UK) Olivier Gascuel (LIRMM-CNRS, Montpellier, France) Tracy Heath (Iowa State University, USA) John Huelsenbeck (University of California, Berkeley, USA) Adam Leache (Department of Biology & Burke Museum, University of Washington, USA) Brian Moore (UC Davis, USA) Bruce Rannala (Genome Center and Department of Evolution and Ecology, University of California, USA) Ben Redelings (Duke University, USA) Stephen Smith (University of Michigan, Ann Arbor, USA) Tanja Stadler (ETH Zurich, Switzerland) Asif Tamuri (European Bioinformatics Institute, Hinxton, UK) Jeff Thorne (Genetics and Statistics Department, North Carolina State University, USA)

The application deadline is 14 November 2014.

For details on the application procedure and all other related information please go to:

<http://tinyurl.com/l3wn5br> There is also some history at <http://abacus.gene.ucl.ac.uk/CoME/> Looking forward to seeing you in Hinxton,

Nick Goldman

goldman@ebi.ac.uk

Lyon Comparative Genomics Jan26-Feb6

Registrations for the next edition of the European course on “Comparative Genomics” are open.

This course is organized by the Ecole Normale Supérieure (ENS) of Lyon (France) since 2008. It is aimed at students from the ENS and is open to master and PhD students from European universities.

The course focuses on major discoveries, big challenges, innovative concepts and original approaches in the field of comparative genomics, their applications in biology, medicine and biotechnology, and their impact on society.

This year the course will be held on 26 January - 6 February 2015 at the ENS (Lyon, France).

Registration is free. Lectures are in English.

The preliminary program and registration form are available at:

http://lbbe-dmz.univ-lyon1.fr/spip_cg/ Jean-Nicolas Volf (ENS, Lyon) and Céline Brochier (Univ. Lyon1)

– Pr Céline Brochier-Armanet Membre de l’Institut Universitaire de France

Université Lyon 1 Laboratoire de Biométrie et Biologie Evolutive UMR CNRS/Lyon 1 5558 43 Bd du 11 Novembre 1918 69622 Villeurbanne, France – Tel: 33 (0)4 26 23 44 76 Mail: celine.brochier-armanet@univ-lyon1.fr Web page: <http://www.frangun.org> celine.brochier-armanet@univ-lyon1.fr

MNHN Paris DNABarcoding Mar9-13

The course “Integrative taxonomy and taxonomic expertise in the framework of the DNA-barcoding initiative” will be from the 9th to the 13th of March, 2015 at the MNHN of Paris, France.

This course is also part of the DEST- Taxonomy training program (<http://www.taxonomytraining.eu/>).

The course is in English. To register, please fill the form

on the website of the course (<https://sites.google.com/site/coursbarcode/>) before the the 4th of January, 2015.

If you have any question, please contact: Line Le Gall (legall@mnhn.fr) Nicolas Puillandre (puillandre@mnhn.fr) Sarah Samadi (sarah@mnhn.fr)

Nicolas PUILLANDRE, McF MNHN, ISyEB +33 (0)1 40 79 31 73

nicolaspuillandre@gmail.com

SanDiego PAG2015PopulationGenomics Jan10-15

Reminder

Population and Conservation Genomics Workshop Plant and Animal Genome XXIII International Conference <http://www.intlpag.org/> January 10-14, 2015 Town and Country Convention Centre, San Diego, California

The annual Population and Conservation Genomics workshop will be held at the Plant and Animal Genome XXIII International conference. The workshop is scheduled on Saturday, January 10, 2015. You are invited to attend this Workshop and submit abstracts for oral presentations on any population and conservation genomics aspect of both plants and animals. The topics may include: population genomic diversity and structure; molecular evolution; adaptive molecular genetic variation; natural selection and local adaptation; candidate-gene and genome-wide population studies; application of genomics in conservation and management of genetic resources; genomic effects of domestication, management practices, fragmentation, bottlenecks, climate and environment change, and transgenic deployment; and gene conservation; etc.

The workshop has a slot for six invited speakers. A number of invited presentations will be selected from the submitted abstracts. Please send your abstract of no more than 250 words by e-mail to Om Rajora (Om.Rajora@unb.ca) as an attached Word file no later than October 17, 2014. You will be notified by October 24th whether your abstract has been selected for an oral presentation. Thereafter, the selected presenters will need to submit their abstract to the PAG website. Authors whose abstracts are not selected for oral presentations are highly encouraged to present a poster at the conference.

Inquiries and Abstract Submission

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

Dr. Om P. Rajora, Faculty of Forestry and Environmental Management, University of New Brunswick, Fredericton, NB E3B 5A3, Canada.

E-mail: Om.Rajora@unb.ca Tel: (506) 458-7477 Fax: (506) 453-3538

Om Rajora <om.rajora@unb.ca>

Spain MorphometricsInR Jan26-30

Dear colleagues,

Transmitting Science offers a new course which might could be of interest for some members of this list: "GEOMETRIC MORPHOMETRICS IN R ". January 26-30, 2015; 35 hours on-site. Dr. JULIEN CLAUDE (Institut des Sciences de l'Évolution de Montpellier, France). WEB-PAGE: <http://www.transmittingscience.org/courses/-gm/gm-in-r/> PROGRAM:

1. An Introduction to R / Image Processing / Organizing Morphometric Data.

- Some Basics in R: The R Environment. R objects, Assigning, Indexing. Generating Data in R. 2D and 3D Plots in R; Interacting with the Graphs.

- Organizing Data for Morphometrics: Data-frame, Array and List. Converting and Coercing Objects. Read and Write Morphometric Data in R.

- Image Processing in R: Reading Various Image Files. Obtaining Image Properties. Modifying Image Properties: Contrast, Channels, Saturation Directly from R or by Interfacing R with Imagemagick.

- Simple Tests, Simple Linear Modelling, Alternatives to Linear Modeling, an example using traditional morphometrics. Defining size and shape using PCA and log-shape ratio approaches. Getting stats and test outputs. Testing assumptions of linear modeling. Testing for allometry and isometry. Solutions when assumptions of linear modeling are not met.

2. Landmark data.

- Acquiring Landmark Data in R.

- Plotting Landmark Configurations in 2 and in 3D:

- Using Different Symbols and Setting the Graphical Parameters. Labeling Landmarks.

- Geometric Transformation with Landmark Configurations: Translation. Scaling using Baseline or Centroid Size. Rotation.

- Superimposing and Comparing Two Shapes: 2.4.1. Baseline Superimposition. Ordinary Least Squares Superimposition. Resistant Fit.

- Representing Shape Differences: Plotting Superimposed Shape with Wireframe. Lollipop Diagrams and Vector Fields. Thin Plate Splines and Warped Shapes.

- Superimposing More Than Two Shapes. Baseline Registration. Full Generalized Procrustes Analysis. Partial Generalized Procrustes Analysis. Dimensionality of Superimposed Coordinates.

- Exploring Shape Variation and Testing Hypotheses: PCA. Multivariate Linear Modeling (Multivariate Regression and MANOVA). Allometry free approaches (Burnaby correction). Linear discriminant and Canonical Analysis.

3. Outlines.

- Acquiring outline Data in R: Fourier Analysis. Principles. Fourier Analysis of the Tangent Angle. Radius Fourier Analysis. Elliptic Fourier Analysis. Reduction of Shape Variables. Statistical Analysis of Shape Variation with Fourier Analysis. Exploring Shape Variation and Testing Hypotheses. PCA. Multivariate Linear Modeling (Multivariate Regression and MANOVA). Canonical Analysis.

- Combining Landmarks and Curves: Hybrid Methods between Fourier and Procrustes Analysis. Sliding Semi Landmarks.

- Solutions for Open Curves

4. Specific Applications.

- Testing Measurement Error.

- Partitional Clustering: K-means, Partition Around Medoids. Mclust. Combining Genetic, Geographic and Morphometric Data.

- Modularity / Integration Studies: Two-block Partial Least Squares. Testing Among Various Sets of Modules. Fluctuating Asymmetry and Directional Asymmetry. Inter-Individual and Intra-Individual Variation. Object and Matching Symmetry.

- Phylogenetic Data: The Problem of Phylogenetic Non-independence. Plotting the Tree in the Shape Space, Testing Evolutionary Models, Estimating Ancestral Character States. Morphological Disparity Through Time Diagram.

- Bending Energy, Uniform and Non-uniform Shape Variation.

PLACE: Facilities of the Centre of Restauració i Interpretació Paleontologica, Els Hostalets de Pierola, Barcelona (Spain).

Organized by: Transmitting Science, the Institut Catalá de Paleontologia Miquel Crusafont and the Centre of Restauració i Interpretació Paleontologica.

With best regards

Soledad De Esteban Trivigno, PhD. Course Director Transmitting Science < <http://www.transmittingscience.org/> >

Soledad De Esteban Trivigno <soledad.esteban@transmittingscience.org>

UGlasgow SpatialAnalysisUsingR Mar16-20

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For further details or questions please email oliverhooker@prstatistics.co.uk or visit www.prstatistics.co.uk Oliver Hooker PhD research student University of Glasgow +44 (0) 1360 870 510 +44 (0) 7966 500 340 o.hooker.1@research.gla.ac.uk

Oliver Hooker <o.hooker.1@research.gla.ac.uk>

Instructions

Instructions: To be added to the EvolDir mailing list please send an email message to Golding@McMaster.CA. At this time provide a binary six letter code that determines which messages will be mailed to you. These are listed in the same order as presented here — Conferences; Graduate Student Positions; Jobs; Other; Post-doctoral positions; WorkshopsCourses. For example to receive the listings that concern conferences and post-doctoral positions this would be 100010. Messages are categorized on the basis of their subject headings. If this subject heading is not successfully parsed, the message will be sent to me at Golding@McMaster.CA. In addition, if it originates from ‘blackballed’ addresses it will be sent to me at Golding@McMaster.CA. These messages will only be read and dealt with when I have time. The code 000000 has all channels turned off and hence gets only a once monthly notification of the availability of a monthly review pdf file.

To be removed from the EvolDir mailing list please send an email message to Golding@McMaster.CA. Note that ‘on vacation’, etc, style messages are automatically filtered and should not be transmitted to the list (I hope), but should you wish to avoid the e-mail’s your code can be temporarily changed to 000000.

To send messages to the EvolDir direct them to the email evoldir@evol.biology.McMaster.CA. Do not include encoded attachments and do not send it as Word files, as HTML files, as L^AT_EX files, Excel files, etc. . . . plain old ASCII will work great and can be read by everyone. Add a subject header that contains the correct category “Conference:, Graduate position:, Job:, Other:, Postdoc:, Workshop:” and then the message stands a better chance of being correctly parsed. Note that the colon is mandatory.

The message will be stored until the middle of the night (local time). At a predetermined time, the collected messages will be captured and then processed by programs and filters. If the message is caught by one of the filters (e.g. a subject header is not correctly formatted) the message will be sent to me at Golding@McMaster.CA and processed later. In either case, please do not expect an instant response.

Afterword

This program is an attempt to automatically process a broad variety of e-mail messages. Most preformatting is collapsed to save space. At the current time, many features may be incorrectly handled and some email messages may be positively mauled. Although this is being produced by L^AT_EX do not try to embed L^AT_EX or T_EX in your message (or other formats) since my program will strip these from the message.