
E v o l D i r

September 1, 2013

M o n t h i n R e v i e w

Foreword

This listing is intended to aid researchers in population genetics and evolution. To add your name to the directory listing, to change anything regarding this listing or to complain please send me mail at Golding@McMaster.CA.

Listing in this directory is neither limited nor censored and is solely to help scientists reach other members in the same field and to serve as a means of communication. Please do not add to the junk e-mail unless necessary. The nature of the messages should be “bulletin board” in nature, if there is a “discussion” style topic that you would like to post please send it to the USENET discussion groups.

Instructions for the EvolDir are listed at the end of this message.



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Conferences

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Asilomar ASN Jan13-15 RegistrationOpen

Registration is now open for the 2014 Asilomar conference of the American Society of Naturalists. To register, visit: <http://w3.biosci.utexas.edu/-amnatasilomar/registration.html> Lodging must be booked separately: <http://w3.biosci.utexas.edu/-amnatasilomar/lodging.html> Seating for this conference is limited to 200 people due to meeting space constraints, so we expect the conference will fill up completely. We therefore encourage potential attendees to register shortly after the registration period opens.

The American Society of Naturalists will be holding a small independent meeting at the Asilomar Conference Center on the Monterey Peninsula in coastal California, January 13-15, 2014. The goal of the meeting is to promote integration between evolution and ecology by attracting a more diverse community of biologists than typically attend the evolution meetings held

jointly each summer by ASN, SSE, and SSB. Note that ASN will continue to meet jointly with SSE and SSB for the evolution meeting in the summer.

Information about the conference can be found on the conference website: <http://w3.biosci.utexas.edu/-amnatasilomar/index.html> including a general schedule and information about three afternoon symposia and evening events.

We look forward to seeing you there!

Sincerely,

Dan Bolnick Past Secretary, ASN

Dr. Daniel I. Bolnick

Early Career Scientist Howard Hughes Medical Institute

Associate Professor Section of Integrative Biology One University Station C0990 University of Texas at Austin Austin, TX 78712

512-471-2824 fax 512-471-3878 danbolnick@austin.utexas.edu <https://webspaces.utexas.edu/-dib73/TheBolnickLab/Home.html> "Bolnick, Daniel I" <danbolnick@austin.utexas.edu>

Austin InsectSpeciation Nov10

The following symposium at the 2013 Entomology meeting in Austin, Texas <x-apple-data-detectors://0>, may be of interest to evolutionary biologists, particularly those interested in insect speciation and insect diversity:

Announcing “Guy Bush and Santa Rosalia: Speciation with Gene Flow and the Extraordinary Diversity of Insects,” a Systematics and Evolutionary Biology Section Symposium at the annual meeting of the Entomological Society of America (November 10-13, 2013 <x-apple-data-detectors://1> in Austin, Texas). This symposium celebrates the work and continuing legacy of Dr. Guy Bush, one of the pioneers of modern insect evolutionary biology. Speakers are leaders and future leaders in insect evolutionary ecology, and include several former students and postdocs of Dr. Bush. Dr. Bush will be in attendance and will close the symposium with some words of reflection. A full description of symposium themes and a list of speakers is appended below. The Entomology meetings also offer myriad other exciting Evolution-related symposia and activities this year so plan to come for the symposium (Nov 10; 1-6pm) and stay for the meeting! (program: <http://www.entsoc.org/entomology2013>)

Andrew Forbes (University of Iowa; andrew-forbes@uiowa.edu) & Glen Hood (University of Notre Dame; ghood@nd.edu), symposium organizers.

Full description: Guy Bush and Santa Rosalia: Speciation with Gene Flow and the Extraordinary Diversity of Insects

A view long held by evolutionary biologists is that geographic barriers to gene flow are necessary for species to diverge. In the last ~ 25 years however, there has been a renaissance in our understanding of speciation; namely that new species can form in the face of gene flow as a result of ecologically based divergent selection. Perhaps no group has been more vocal in advocating this view than entomologists studying parasitic insects, and at the front lines of this movement was Guy Bush. Bush’s experimental work on the incipient sympatric speciation of the apple maggot fly, *Rhagoletis pomonella*, and his theoretical writings on modes of speciation inspired many evolutionary entomologists. Today, theoretical, ecological, and genetic studies have produced evidence that insects may often diverge in the face of gene flow

as a consequence of ecological interactions.

In 1993, Bush authored a “revisitation” of G. Evelyn Hutchinson’s Santa Rosalia paper, in which he argued that the sheer number of small, often cryptic, specialist insect species found on Earth stands as implicit evidence that speciation with gene flow must be important in generating insect diversity. And indeed, contemporary ecological genetic studies are revealing extraordinary patterns of diversity in insect form and function that favor the Hutchinsonian (and Bush-ian) world view of, as Joe Felsenstein put it, “a different species on every bush.”

This symposium celebrates the legacy of Guy Bush and explores current research in insect evolutionary ecology by featuring examples of speciation-with-gene-flow in insects alongside ecological genetic studies of insect diversity.

Speakers: Jose Andres, University of Saskatchewan Stewart Berlocher, University of Illinois Guy Bush, Michigan State University (Emeritus) Scott Carroll, University of California, Davis Marty Condon, Cornell College Scott Egan, Rice University Jeff Feder, University of Notre Dame Matt Forister, University of Nevada, Reno Doug Futuyma, SUNY Stony Brook Julie Hebert, Rutgers University Steve Heard, University of New Brunswick Glen Hood, University of Notre Dame Chris Nice, Texas State University M. Alex Smith, University of Guelph John Stireman, Wright State University George Weiblen, University of Minnesota

andrew-forbes@uiowa.edu

Austin Texas CellEvoDevo Jan3-7

Symposium: The cell’s view of animal body plan evolution Society for Integrative and Comparative Biology (SICB) Annual Meeting January 3-7, 2014 Austin, TX <http://www.sicb.org/meetings/-2014/symposia/cellevo.php> Abstract submission deadline: August 26 2013 Registration deadline: November 9, 2013

Understanding how diverse animal body plans evolved remains one of the most exciting and challenging goals for evolutionary and developmental biologists alike. Over the past few decades, genomic and molecular genetic approaches have provided insights into which gene networks regulate cell fate specification. It is less well understood how specification states launch specific cell

biological properties, such as polarity, migration, and adhesion. Yet, cells are the fundamental unit of all biological structures and phenomena - evolution shapes phenotypes by ultimately tinkering with cellular characteristics. With recent advances in applying modern molecular, live-imaging, and modeling techniques to a broader range of experimental systems, can we now compare cell types across animal species to understand how they have mediated organismal evolution? This symposium will bring together researchers who use varied approaches to test hypotheses at multiple levels of biological organization, ranging from systems-level studies of gene regulatory networks for cell behaviors to modeling cytoskeletal dynamics that drive tissue morphogenesis.

“Cellular Evolutionary Developmental Biology” does not exist as a codified field. Because of recent breakthroughs in research methods, this is the ideal time to discuss what it will look like in the near future. The diversity of expertise and perspectives present at the annual SICB meeting makes it an ideal venue to consider such an integrative topic. We hope that this symposium will stimulate a synthesis that can inform new directions in the field in the future. The invited speaker symposium covers topics including cytoskeletal dynamics underlying patterning and morphogenesis of tissues, specification and gene regulatory networks leading to cellular behaviors and comparative cell biology of regeneration.

A poster session will follow this day long symposium. A complementary session of shorter contributed talks will be held on a different day. We encourage researchers to submit abstracts on a broad range of research topics pertaining to the evolution of development and developmental cell biology. We will select 10-15 short (15 minute) talks from submitted abstracts. We have a limited number of travel scholarships available to support the participation of students, postdoctoral researchers, and early-career professors.

Make sure to select our symposium from the pull down menu when you submit your abstract (<http://www.sicb.org/meetings/2014/>). Feel free to contact the organizers if you have any questions.

Organizers: Deirdre Lyons, Postdoctoral Researcher, Duke University (deirdre.lyons@duke.edu) Mansi Srivastava, Postdoctoral Fellow, Whitehead Institute (mansi@wi.mit.edu) Mark Martindale, Directory, Whitney Marine Laboratory (mq-martin@whitney.ufl.edu)

Funding Opportunities: Some funding is available for those who present a poster or talk as part of this symposium to help defray the cost of attending the

meeting. Preference will be given on a primarily need basis to junior scientists (students, post-docs and junior faculty), current members of the Society for Developmental Biology (SDB), and those from under-represented minorities and those with disabilities. To apply, send an email by September 1, 2013 to Dede Lyons (deirdre.lyons@duke.edu) with the following information: 1) Name, institution, lab and position (student, post-doc, etc.) 2) The title and abstract of your poster or talk. Please indicate if you requested a talk or poster 3) Indicate whether you are a current SDB member and/or belong to an under-represented minority or have a disability 3) Cost of attending the meeting, broken down by travel, lodging, and registration costs 4) Alternative funding sources and amounts available to you 5) The amount you are requesting for funding from the symposium

Other sources of funding are available through SICB: <http://www.sicb.org/students/awards.php3#support> <http://www.sicb.org/students/skinner.php3> Confirmed Speakers:

Sally Horne-Badovinac Assistant Professor, Molecular Genetics and Cell Biology University of Chicago (<http://shb-lab.org/>) Title: ‘Mechanisms of egg chamber elongation in *Drosophila*’

Ed Munro Professor, Molecular Genetics and Cell Biology University of Chicago (<http://munrolab.bsdl.uchicago.edu/index.html>)

— / —

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>

Barcelona EvolutionMulticellularity Sep30-Oct1 RegExtended

REGISTRATION DEADLINE EXTENDED to August 20th, 2013

ICREA CONFERENCE ON THE EVOLUTION OF MULTICELLULARITY BARCELONA, SPAIN, SEPTEMBER 30-OCTOBER 1, 2013

We are pleased to announce the ICREA Conference on the Evolution of Multicellularity to be held September 30th - October 1st, 2013, in Barcelona (Spain). The transition to multicellular life represents one of the

most important events in the history of life. Yet, despite its significance, little is known about the mechanisms involved in this transition. In recent years, emerging data from various fields are providing new insights into this major evolutionary transition. With advances in theoretical, molecular/cell biology and genomics approaches, there is a clear need for further conversation and collaborative efforts between experimentalists and theoreticians. The ICREA Conference on the Evolution of Multicellularity will bring together researchers with diverse backgrounds with the goal of stimulating and fostering inter-disciplinary discussion and collaborations. The talks will be organized around six mini-symposia encompassing the major topics and approaches related to the evolution of multicellularity. The six symposia are: 1) Origins and mechanisms; 2) Development and Gene regulation; 3) Genomics approaches and insights; 4) Theoretical approaches; 5) Social Evolution; 6) Computational and synthetic approaches. For additional information and updates (including confirmed speakers, preliminary program, registration and abstract submission) please visit the Conference page at www.multicellularity2013.com/.

Please note that registration is free but limited to 100 participants.

Organizers:

Iñaki Ruiz-Trillo, Institut de Biologia Evolutiva (UPF-CSIC) Ricard V. Solé, Institut de Biologia Evolutiva (UPF-CSIC) Aurora Nedelcu, University of New Brunswick

Aurora M. Nedelcu University of New Brunswick Department of Biology PO Box 4400 Fredericton, NB Canada E3B 5A3 phone: (506) 458-7463

Aurora Nedelcu <anedelcu@unb.ca>

Bogota EvolutionBehavior Sep10-12

INTERNATIONAL SOCIETY FOR COMPARATIVE PSYCHOLOGY FIRST ANNOUNCEMENT September 10th-12th, 2014 Bogotá, Colombia

We are pleased to announce the 17th Biennial Meeting of the International Society for Comparative Psychology. The meeting will take place on September 2014, in Bogotá, Colombia. We invite you to take part of this event to promote the comparative study of behavior.

Scientists interested in comparative psychology, animal

behavior, animal cognition, behavioral ecology, evolution of behavior, neuroscience, behavior analysis, and related areas, are invited to present their research in a relaxed, academic setting.

This meeting is an opportunity for all scientists working on the study of behavior from a comparative perspective to discuss their current research, future directions, and international development of our field. The meeting format will include lectures by distinguished invited speakers, symposiums, oral presentations, and poster sessions. Graduate and undergraduate students are particularly encouraged to submit presentations.

For further information, check our webpage (www.iccp2014.org). We welcome your suggestions.

Germán Gutiérrez, Ph.D. Director Departamento de Psicología Universidad Nacional de Colombia

bicamolo2003@gmail.com

Canberra Biogeography Jan7-10 Deadline

FINAL CALL FOR ABSTRACTS: DEADLINE 31 AUGUST 2013

A reminder that abstract submission is open for the 2014 INTERNATIONAL BIOGEOGRAPHY SOCIETY EARLY CAREER CONFERENCE, organised jointly by the International Biogeography Society (IBS) (<http://www.biogeography.org/>), the ANU Centre for Macroevolution and Macroecology (<http://macroevoco.com/>) and the ANU-CSIRO Centre for Biodiversity Analysis (<http://cba.anu.edu.au/>).

The conference will take place in Canberra, Australia, between the 7th and the 10th of January 2014, and aims to bring together early career researchers, along with more experienced scientists, working on many aspects of biogeography.

To submit your abstract, please visit:

<http://www.biogeography.org/html/Meetings/-2014ECC/index.html> CONFIRMED KEYNOTE SPEAKERS:

Dr Michael Kearney, University of Melbourne Dr Catherine Graham, Stony Brook University Dr Simon Ferrier, CSIRO Dr Matthew Fitzpatrick, University of Maryland Dr Hélène Morlon, École Polytechnique Prof Craig Moritz, Director of CBA, ANU-CSIRO

THE FOLLOWING FOUR WORKSHOPS WILL BE RUN:

1. Introduction to species distribution modelling
2. Modelling compositional turnover using generalised dissimilarity modelling
3. An Introduction to R for beginners
4. Free your mind: Model comparison and model testing in historical biogeography with the R package 'BioGeoBEARS'

REGISTRATION FOR THE CONFERENCE AND WORKSHOPS IS NOW OPEN. PLEASE REGISTER BEFORE 31 OCTOBER 2013.

For more information about the conference, please visit the conference website.

Student participation will be supported by awards offered by the IBS. To apply for a student award, please follow the instructions given on the website.

We look forward to welcoming you to Canberra in January 2014!

The ANU Organising Committee

Haris Saslis-Lagoudakis Peter Cowman Dan Warren
Dan Rosauer Renee Catullo Marcel Cardillo

ibsconference2014@gmail.com

@ibs2014

The local organising committee, IBS Early Career Conference 2014 @ibs2014

IBS Early Career Conference 2014
<ibsconference2014@gmail.com>

meeting is intended to increase accessibility of IBS events while maintaining the same feel, high standards, and international appeal of the biennial conferences.

Travel awards are available to students through open competition. For more information see: <http://www.biogeography.org/html/Meetings/2014ECC/-index.html> The meeting covers the breadth of biogeography, with focal topics and confirmed keynote speakers including:

Species distributions across space and time Dr Michael Kearney, University of Melbourne Dr Catherine Graham, Stony Brook University Biodiversity turnover across spatial scales Dr Simon Ferrier, CSIRO Dr Matthew Fitzpatrick, University of Maryland Advances in phylogenetic methods for biogeography Prof Craig Moritz, Director of CBA, ANU-CSIRO Dr H el ene Morlon,  cole Polytechnique

Workshops will be held on the following topics: Introduction to R for biogeographers BioGeoBEARS: biogeographic tools in R Modeling turnover using generalized dissimilarity modeling Concepts and methods for modeling species distributions

Target date for registration is 31 August 2013.

The meeting is convened by the IBS (<http://escholarship.org/uc/fb>), the ANU Centre for Macroevolution and Macroecology (<http://macroevoeco.com/>), and the ANU-CSIRO Centre for Biodiversity Analysis (<http://cba.anu.edu.au/>), and sponsored by Frontiers of Biogeography - the Open Access society journal for biogeography (<http://escholarship.org/uc/fb>).

mdawson@ucmerced.edu

Canberra Biogeography Jan7-10 EarlyCareer

International Biogeography Society Early Career Conference 2014

7-10 January 2014 Canberra, Australia <http://www.biogeography.org/html/Meetings/2014ECC/-index.html> The IBS Early Career Conference is an intimate forum (up to ~100 attendees) for acquiring skills, sharing knowledge, and networking in Biogeography. The meeting is designed specifically to provide opportunities for young biogeographers to meet and mix with each other and with experienced researchers in the field. Situated in Canberra, Australia, the

ColdSpringHarbor MobileDNA Oct24-26

2013 REGIONAL MEETING ON MOBILE GENETIC ELEMENTS - CALL FOR ABSTRACTS

Dear Colleagues,

The abstract submission and registration deadline for the regional meeting on Mobile Genetic Elements (October 24-26, 2013, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY) is *September 15, 2013*. All transposon-related research in all systems is welcome, including the evolutionary history of transposable elements in different systems and the impact of

transposons on genome function and evolution. For further information and to register / submit an abstract, please visit the CSHL meetings website: <http://meetings.cshl.org/meetings/2013/transpose13.shtml> . All sessions will include talks selected from submitted abstracts, and participation of graduate students, post-doctoral fellows, and junior investigators is particularly encouraged. Students and postdocs are eligible for financial support towards registration costs, with full support granted to under-represented minorities. Please contact kcreasey@cshl.edu providing Institution/ lab, research topic related to transposable elements, and talk/ poster preference. Awards shall be confirmed via email directly, and reimbursed from the registration costs (checks and credit cards are accepted for the minimal payment).

Please bring the 2013 Regional Meeting on Mobile Genetic Elements to the attention of all interested colleagues. We look forward to seeing you in Cold Spring Harbor in October!

Rob Martienssen and Irina Arkhipova, organizers
Kate Creasey, co-organizer

iarkhipova@mbl.edu

kcreasey@cshl.edu providing Institution/lab, research topic related to transposable elements, and talk/poster preference. Awards shall be confirmed via email directly.

Unpublished material presented at the meeting may be submitted to Mobile DNA for consideration for publication within a three-month period, during which article processing charges for accepted manuscripts will be reduced.

The unique element of this meeting is the bringing together of researchers in all systems, at CSHL, an environment rich in transposon biology, both past and present. We look forward to an interactive meeting, sharing recent advances in transposon research and discussing emerging trends in the field.

Regards,

Rob Martienssen and Irina Arkhipova, organizers
Kate Creasey, co-organizer

Kate M. Creasey, PhD Cold Spring Harbor Laboratory
One Bungtown Road Cold Spring Harbor, NY 11724

“Creasey, Kate” <kcreasey@cshl.edu>

ColdSpringHarborLab
MobileGeneticElementEvol
Oct24-26

Regional Meeting on Mobile Genetic Elements at CSHL
Dear Colleagues,

We would like to bring to your attention the regional meeting on Mobile Genetic Elements, October 24th - 26th, 2013, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY. Transposon-related research in all systems is welcome, without any geographical or subject limitations. For further information and to register/submit abstracts, please visit the CSHL meetings website: <http://meetings.cshl.org/meetings/2013/transpose13.shtml>. The abstract submission and registration deadline is 15th September.

All sessions will include talks selected from submitted abstracts. Participation of graduate students, post-doctoral fellows, and junior investigators is particularly encouraged. Students and postdocs are eligible for financial support towards registration costs, full support may be granted to qualified individuals underrepresented in the sciences. Please contact

Heraklion
MediterraneanMarineBiodiversity
Oct7-9 3

CONFERENCE: “Mediterranean marine biodiversity in view of climate change and the invasion of alien species”

Heraklion, Crete, Greece

7th to 9th of October, 2013

WE ARE PLEASED TO ANNOUNCE THAT ABSTRACT SUBMISSION DEADLINE HAS BEEN EXTENDED UNTIL SEPTEMBER 3RD.

The Institute of Marine Biology, Biotechnology and Aquaculture (IMBBC) of the Hellenic Centre for Marine Research (HCMR) announces the conference on “MEDITERRANEAN MARINE BIODIVERSITY IN VIEW OF CLIMATE CHANGE AND THE INVASION OF ALIEN SPECIES” to be held in the premises of Heraklion Chamber, Crete, Greece, from 7th to 9th October 2013. The conference will be organized in the context of the EU (FP7-REGPOT-2010-1) project “Supporting Research Potential for Marine Biodiversity and Genomics in the Eastern Mediterranean” (MAR-

BIGEN, <http://www.marbigen.org/>).

The conference aims to bring together researchers of different fields in order to promote the multidisciplinary and integrated research regarding the response of biodiversity to the climatic change and the impact of the invasion of alien species in the Mediterranean and adjacent regions.

Invited Speakers

Prof. Daniel Golani University of Jerusalem, Israel
 Dr. Stelios Katsanevakis EC, Joint Research Centre, Belgium
 Dr. Wiebe Kooistra Stazione Zoologica Naples, Italy
 Prof. Steven Palumbi Stanford University, USA
 Ass. Prof. Vassilis Zervakis University of the Aegean, Greece

Abstract submission and early registration deadlines are set for:

Abstracts Submission Deadline 3 SEPTEMBER 2013
 Early Registration Deadline 30 AUGUST 2013
 Late Registration Deadline 15 SEPTEMBER 2013

More information can be found on the conference website <http://conference2013.marbigen.org/index.html>. We look forward to welcoming you in Heraklion, Crete for a scientifically stimulating and socially enjoyable meeting.

With best regards,

On behalf of the Organizing Committee

Dr. Antonios Magoulas MARBIGEN Co-ordinator

Dr. Antoniou Aglaia (Cilia) Institute of Marine Biology and Genetics (IMBG) Hellenic Centre for Marine Research (HCMR) Gournes Pediadros, P.O.Box 2214, 71003, Iraklio, Crete, Greece Tel.: +30 2810 337826 Fax: +30 2810 337820

Hellenic Center for Marine Research This message was sent using IMP, the Internet Messaging Program.

“Antoniou Aglaia (Cilia)” <antoniou@her.hcmr.gr>

KITP UCCaliforniaSantaBarbara
EvolutionOfDrugResistance
Jul21-Sep19

Dear Colleagues,

We are writing to announce the program Evolution of Drug Resistance to be held at the Kavli Institute

for Theoretical Physics at the University of California, Santa Barbara, during the period July 21 - September 19, 2014, and to alert you that applications are now being accepted. We also encourage you to inform others who you think might be interested in applying.

A summary and the latest information about the program can be found online at: <http://www.kitp.ucsb.edu/activities/dbdetails?acro=-3Dsuperbugs14>. Note the Application Deadline is September 30, 2013.

KITP programs differ from many conferences and workshops in that they create a situation where scientists learn from each other and actually do substantive research, often collaborating with other participants. To foster these interactions, KITP strongly encourages theorists to stay for as long as possible, with three weeks being the minimum stay for a regular participant. We understand, however, that bench scientists with laboratory responsibilities often cannot manage long visits but can have a big impact even in a week, so we can be more flexible for them.

Some level of financial support will be available, the amount depending on the needs of the participants and availability of funds. Supplementary funds are available to help support families wishing to make extended visits. To apply, go to the aforementioned web page, and click on the Apply link. Late applications will be considered as budget and space permits. Due to space and financial constraints, however, we may not be able to accommodate everyone who applies.

KITP provides office and computing facilities on-site at UC Santa Barbara and also provides help finding living accommodations. It is necessary for every prospective participant to set up an account and apply online, even if we have already corresponded with you about the program. Actual commitments of office space and financial support can be made only by written formal invitations from the KITP Director, Lars Bildsten, regardless of any communications you may have had with us.

If you think you might like to participate, it will help us with our planning if you could apply early, including your proposed length of stay and any financial requirements. If you have any questions, please contact one of the coordinators.

Sincerely yours,

Richard Neher <richard.neher[at]tuebingen.mpg.de>
 Ville Mustonen <vm5[at]sanger.ac.uk> Daniel Weinreich <daniel.weinreich[at]brown.edu>

myvisit@kitp.ucsb.edu

KansasCity EcologicalGenomics Nov1-3

Subject: Ecological Genomics Symposium, Kansas City, 11/1-3/2013

11th Annual Ecological Genomics Symposium November 1-3, 2013 Marriott Country Club Plaza, Kansas City, MO Symposium website: <http://ecogen.ksu.edu/symp2013> The 11th Annual Ecological Genomics Symposium will be held November 1-3, 2013 at the Marriott Country Club Plaza hotel in downtown Kansas City. The meeting will convene Friday at 7:00 p.m. and conclude on Sunday at noon.

We have an outstanding lineup of speakers for the 2013 symposium and we encourage you to attend!

For a brochure and complete information regarding poster abstract submission, registration and hotel reservations, please visit our symposium website: ecogen.ksu.edu/symp2013.

REGISTRATION: Please register online today at: www.ecogen.ksu.edu/symp2013. You may also register to attend the optional Saturday night banquet for an additional fee of \$50. Deadline for registration: Friday, October 4, 2013.

POSTER ABSTRACTS: Poster topics should be related to the field of ecological genomics. A LIMITED NUMBER OF SUBMITTED POSTER ABSTRACTS WILL BE SELECTED FOR ORAL PRESENTATIONS. Instructions for submitting your abstract online are at: <http://ecogen.ksu.edu/symp2013/abstract.html>. DEADLINE: Friday, October 4, 2013.

VENUE: The symposium will take place at the Kansas City Marriott on the beautiful Country Club Plaza in Kansas City, Missouri. Reserve your hotel room online by visiting ecogen.ksu.edu/symp2013 or this link: <http://tinyurl.com/me8l5x2> Deadline for room block: Friday, October 11, 2013.

FEATURED SPEAKERS: Anne Bronikowski, Iowa State University Comparative genomics of vertebrate aging and stress-response pathways

Asher Cutter, University of Toronto Hyperdiversity and hypodiversity in genome evolution of *Caenorhabditis* nematodes

Ana L. Caicedo, University of Massachusetts Amherst Convergence and the evolution of weediness: The case

for red rice

Rob Knight, University of Colorado The Earth Microbiome Project

Marcus Kronforst, University of Chicago Population genomics and ecological speciation in *Heliconius* butterflies

Bradley J.S.C. Olson, Kansas State University Peering into the pond for clues to multicellularity

Michael Pfrender, University of Notre Dame Genetic and regulatory basis of adaptation in stressful environments

Jeffrey Ross-Ibarra, University of California Davis Evolutionary genetics of highland adaptation in maize and teosinte

Annelie Wendeborg, Helmholtz Centre for Environmental Research Population-targeted metagenomics of anaerobic methane-oxidizing consortia

Andrew Whitehead, University of California Davis The genomics of evolved resistance and resilience in killifish resident in dynamic and static environments

ADDITIONAL INFORMATION will be posted on our website, www.ecogen.ksu.edu/symp2013, as details are finalized.

FUNDING for this symposium is provided by Kansas State University.

Ecological Genomics Institute Directors: Dr. Loretta Johnson, johnson@ksu.edu Dr. Michael Herman, mherman@ksu.edu Kansas State University, Division of Biology 116 Ackert Hall, Manhattan, KS 66506-4901 www.ecogen.ksu.edu Ecological Genomics Institute Program Coordinator: Alexandra Boyd, alexboyd@ksu.edu (785) 532-0115

Michael Herman <mherman@ksu.edu>

Kunming InternationalBarcoding Oct27-31

The Chinese Academy of Sciences' and Kunming Institute of Botany are pleased to host the 5th International Barcode of Life Conference:

<http://www.dnabarcodes2013.org> <
<http://www.dnabarcodes2013.org/> >

The conference will consist of four days of plenary and parallel sessions. Preconference events, such as dis-

cussion meetings focusing on advances in sequencing and informatics techniques will be held on the Sunday before the conference. There is also a Training Course associated with the conference (max 30 delegates). Past conferences have brought together participants from over 60 countries, including researchers, students, government officials, and representatives of NGOs and private companies. This year's conference hosts have provided a venue that can host up to 500 participants.

The current list of invited speakers for the plenary sessions includes:

Michael Balke, Zoologische Staatssammlung Munich Tania Bubela, University of Alberta Elizabeth Clare, Queen Mary University of London Mehrdad Hajibabaei, Biodiversity Institute of Ontario Gerhard Haszprunar, Zoologische Staatssammlung Munich Paul Hebert, Biodiversity Institute of Ontario Pete Hollingsworth, Royal Botanic Gardens Edinburgh Da-Wei Huang, Chinese Academy of Sciences John Kress, National Museum of Natural History, Smithsonian Institution Richard Lane, Natural History Museum, London De-Zhu Li, Kunming Institute of Botany Dario Litjmaer, Museo Argentino de Ciencias Naturales Scott Miller, National Museum of Natural History, Smithsonian Institution Bob Murphy, Royal Ontario Museum Jan Pawlowski, University of Geneva Tomas Roslin, University of Helsinki Linda Santschi, Coastal Marine Biolabs Gary Saunders, University of New Brunswick Graham Stone, University of Edinburgh Michelle Van der Bank, University of Johannesburg Alfred Vogler, Imperial College London Zhu-Liang Yang, Kunming Institute of Botany Douglas Yu, Kunming Institute of Zoology Baoli Zhou, Chinese Academy of Sciences

A detailed program can be found at <http://www.dnabarcodes2013.org/dct/page/70039>. It also lists the expected themes for the parallel sessions.

Abstract (for parallel and poster sessions) submission deadline -15. August 2013 (<http://www.dnabarcodes2013.org/dct/page/70044>) Registration is already open: <http://www.dnabarcodes2013.org/dct/page/65554> Further information on venue, accommodation etc. can be found at the conference website: <http://www.dnabarcodes2013.org> < <http://www.dnabarcodes2013.org/> >

–

Dr. Dirk Steinke

Director, Education and Outreach iBOL Outreach Biodiversity Institute of Ontario University of Guelph 50 Stone Road East Guelph, ON, N1G2W1

email dsteinke@uoguelph.ca

<http://dna-barcoding.blogspot.ca> <http://www.educationandbarcoding.org/malaiseprogram.ca> *** Barcoding online course: <http://www.dnabarcodingcourses.ca/> ***

dsteinke@uoguelph.ca

London EvolutionBehaviouralMechanisms Dec5-6

There are just 2 weeks left to submit an abstract for this year's ASAB Winter Conference on 'The Evolution of Behavioural Mechanisms' (deadline: 16 August).

The conference will be held on 5-6 December at the Zoological Society of London. For more information, please visit <http://tinyurl.com/winterasab2013> or contact us at madorganiser@gmail.com.

We look forward to seeing you in London!

Tim Fawcett, Andy Higginson & Pete Trimmer Modelling Animal Decisions (MAD) group, University of Bristol

–

Dr Tim W. Fawcett Room B72 School of Biological Sciences University of Bristol Woodland Road Bristol BS8 1UG United Kingdom

+44 117 9287478 (office) +44 7789 126382 (mobile)

tim.fawcett@cantab.net

www.timwawcett.com tim.fawcett@gmail.com

London EvolutionBehaviouralMechanisms Dec5-6 AbstDeadline

The abstract deadline for this year's ASAB Winter Conference on 'The Evolution of Behavioural Mechanisms' has been extended to 25 August. This will be the final deadline, so if you wish to present your work at this meeting please make sure you submit your abstract as soon as possible using the form on the conference

website (<http://tinyurl.com/winterasab2013>).

The conference will be held on 5-6 December at the Zoological Society of London. For more information, please visit <http://tinyurl.com/winterasab2013> or contact us at madorganiser@gmail.com.

We look forward to seeing you in London!

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MLBS UVirginia SEPEEG2013 Sep27-29 Deadline

REMINDER: The registration deadline for SEPEEG 2013 is this Friday, August 30th.

SEPEEG 2013 University of Virginia Department of Biology Mountain Lake Biological Station September 27-29

We are pleased to announce the 2013 SouthEastern Population Ecology & Evolutionary Genetics Conference!

SEPEEG is returning to the University of Virginia's Mountain Lake Biological Station from September 27-29. SEPEEG is an excellent opportunity for students, postdocs, and faculty from across the southeastern US to gather and discuss their research ideas and ongoing work.

This year's keynote address will be given by Dr. Mark Rausher from Duke University. Dr. Rausher's work has explored the evolution of floral color, morphology, and biochemistry at the levels of phenotypes, genes, and metabolic networks. This integrative approach to the study of adaptation and speciation, involving both field and lab-based investigation, perfectly encompasses the focus and goals of the SEPEEG conference.

Registration for all attendees is now open and the registration deadline will be Friday, August 30. Registration for the meeting is capped due to space constraints, so

we strongly recommend registering before the deadline.

Full registration is \$125 and covers accommodations at MLBS, meals, and participant costs. Thanks to generous support from The American Society of Naturalists (<http://www.amnat.org>), we are able provide a discounted registration rate for a limited number of undergraduate and graduate student ASN society members on a first come, first serve basis.

For full details and to register, please visit the SEPEEG website: <http://mlbs.org/SEPEEG2013> Questions? Write to us at seepeg2013@virginia.edu

SEPEEG 2013 is sponsored by Princeton University Press, Roberts and Company Publishers, University of Chicago Press, and Sinauer Associates.

Benjamin Blackman Assistant Professor Department of Biology University of Virginia PO Box 400328 Charlottesville, VA 22904

Tel: 434.924.1930 E-mail: bkb2f@virginia.edu Web: http://people.virginia.edu/~bkb2f/Blackman_Lab/ bkb2f@virginia.edu

Marseilles 17thEvolutionaryBiology Sep17-20 4

Dear all

The program of the 17Th evolutionary biology meeting at Marseilles has been updated <http://sites.univ-provence.fr/evol-cgr/> Few spots for poster presentations are still available

all the best Pierre

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

Montreal MathematicsSequenceEvolution Sep23-27

CRM Workshop on Mathematics of Sequence Evolution: Biological Models and Applications
Dates: September 23-27 2013 Venue: Centre de Recherche Mathématiques - University of Montreal,

Montréal, Canada Information and registration: http://www.crm.umontreal.ca/2013/Sequence13/-index_e.php Contact information: Mathieu Blanchette - blanchem@cs.mcgill.ca

Topic: This workshop will investigate the latest mathematical and computational approaches to the development of sophisticated biology-grounded sequence/genome evolution models, the latest evolutionary biology studies on the way in which selection imposes constraints and dependencies on sites, and the use of such models for the investigation of the function/structure of biological sequences. The participants will come from the fields of applied evolutionary biology, phylogenetics, genome evolution, protein/RNA structural biology, and population genetics, but will be expected to share a certain degree of mathematical sophistication.

Invited speakers: Louis Bernatchez - Université Laval Mathieu Blanchette - McGill University Guillaume Bourque - McGill University Tony Capra - Vanderbilt University Cédric Chauve - Simon Fraser University Richard Goldstein - University College London Glenn Hickey - UC Santa Cruz Simon Joly - Université de Montréal Claudia Kleinman - McGill University Christian Landry - Laval University Nicolas Lartillot - Université de Montréal Hervé Philippe - Université de Montréal Nicolas Rodrigue - Université d'Ottawa Hughes Roest Crolius - Ecole Normale Supérieure Andrew Roger - Dalhousie University Edward Susko - Dalhousie University Jérôme Waldipsuhl - McGill University

Organizers: Mathieu Blanchette - McGill University Hervé Philippe - Université de Montréal

blanchem@mcb.mcgill.ca

Oldenburg Germany Phylogenetics Nov22-24

Dear colleagues,

>From November 22-24, the 55th (German) Phylogenetic Symposium will take place at the Carl von Ossietzky University in Oldenburg, Germany under the theme “The time for phylogenetics: inferring and applying timetrees in evolutionary biology”. The symposium features eight international experts who will discuss a variety of methodological, empirical, and applied aspects of timetrees in biology:

Prof. Dr. Susanne Renner (Ludwig-Maximillan-Universität München) - New advances in molecular clocks.

Prof. Mike Benton (University of Bristol) - Fossil dating and calibrations.

Dr. Mario dos Reis (University College London) - “Bayesian estimation of species divergence times”.

Dr. Tanja Stadler (ETH Zurich) - “A unified framework for inferring speciation and extinction rates from phylogenies with fossils”.

Dr. Isabel San Martin (Real Jardin Botanico Madrid) - Timetrees and the historical biogeography of the “Rand Flora”.

Dr. Chuck Bell (University of New Orleans) - Co-evolution and timetrees.

Dr. Nuno Faria (University of Oxford) - Viral timetrees.

Prof. Dr. Peter Linder (University of Zurich) - “The radiation of the Fagales: combining molecular and fossil data”.

—
Despite this being the German Phylogenetic Symposium, all talks will be held in English.

Attendance at the symposium is free, but pre-registration is strongly encouraged.

This year, through the support of both the Gesellschaft für Biologische Systematik and the Deutsche Botanische Gesellschaft, we have instituted a set of up to 40 “student stipends” valued at 50 Euros apiece to help early career scientists (= those having received their doctorate within the last three years) offset their costs in attending the symposium.

More information about the symposium, including how to register and details about the student stipends, can be found at <http://www.molekularesystematik.uni-oldenburg.de/62317.html> Hope to see you in November!

Olaf Bininda-Emonds & Dirk Albach

Prof. Dr. Olaf R.P. Bininda-Emonds AG Systematik und Evolutionsbiologie IBU - Fakultät V Carl von Ossietzky Universität Oldenburg 26111 Oldenburg Germany

Phone: +49 441 798 3965 Fax: +49 441 798 193965 e-mail: olaf.bininda@uni-oldenburg.de WWW: <http://www.molekularesystematik.uni-oldenburg.de/olaf.bininda@uni-oldenburg.de>

Paluzza InsectEvolution Sep19-22 RegExtended

Dear member

the deadline for sending your registration to 4th Annual Meeting of the European PhD Network in Insect Science± has now expired. However, since the maximum number of participants have not been reached yet, we decided to postpone the closing date for registration which is now fixed for the end of August. Anyway, we would recommend you to register as soon as possible so that we can start organizing the detailed program of the meeting.

We would like to remind you that the meeting will start with lunch of Thursday 19th of September and end with lunch of Sunday 22nd of September. Please consider that the location of the conference is about 3 hours drive from nearest airport. The time table of the shuttle service from the airports to Paluzza has not yet been organized since we need to know the number of people potentially interested and their expected arrival time.

Looking forward of meeting you in Paluzza,

Andrea Battisti and Francesco Nazzi

Francesco Nazzi Dipartimento di Scienze Agrarie e Ambientali Universit di Udine via delle Scienze 206 33100 Udine tel.: 0432-558513 fax: 0432-558501 e-mail: francesco.nazzi@uniud.it <http://people.uniud.it/page/francesco.nazzi> Francesco Nazzi <francesco.nazzi@uniud.it>

Raleigh ASN Jun20-24 CallSymposia

The American Society of Naturalists

Call for Symposium at 2014 Annual Meeting

The 2014 annual meeting of the American Society of Naturalists will be held June 20-24 in Raleigh, North Carolina. The Executive Council of the Society invites proposals for a sponsored half-day symposium to be held in conjunction with the meeting. Symposium top-

ics should support the Society's goal to advance knowledge of organic evolution and other broad biological principles. Proposals are encouraged on topics that are synthetic, interdisciplinary or that address important emerging issues in evolution, ecology and behavior.

Proposals should include (1) a title; (2) a description of the symposium topic (one page); (3) a tentative list of six speakers, including institutional affiliations; (4) a justification for the symposium explaining why the topic and speakers are appropriate for a Society-sponsored symposium (up to one page); and (5) a statement that all potential speakers have agreed to participate.

Proposals must be submitted by 5pm Eastern Standard Time on October 15, 2013 by email (mag9@cornell.edu) as a single pdf attachment, under subject heading: ASN Symposium Proposal. Proposals that include women, young investigators and individuals from underrepresented groups are especially encouraged.

The Society's selection committee will evaluate proposals based on the significance and timeliness of the topic, and on it being different from recent symposia sponsored by the Society. All applicants will be notified of the decision by mid-November 2013. The Society provides partial support for travel and/or registration for organizers and participants.

Monica Geber ASN Symposium Committee Department of Ecology and Evolutionary Biology Cornell University Ithaca, NY 14853-2701

mag9@cornell.edu

Roscoff France EvolutionCancer Nov2-6 ExtDeadline

Jacques Monod Conference - 'Ecological and Evolutionary Perspectives in Cancer' - Roscoff, France, November 2-6, 2013

Registration deadline: September 10th, 2013

The Jacques Monod Conference 'Ecological and Evolutionary Perspectives in Cancer' aims to promote this emerging discipline by addressing some of the most important questions about cancerogenesis. The conference will cover three main themes: interspecific patterns and processes, progression, and therapies. Jacques Monod Conferences organized by CNRS, are known for the high scientific quality of the talks and

discussions, in a relaxed atmosphere.

Please note that participation at this conference is not limited to research on carcinogenesis: we will consider applications from scientists with affinities towards the themes of the conference, and working on related topics from ecology and the evolutionary sciences, including social evolution, evolution of multicellularity, resistance management, evolutionary medicine of diseases, and species invasions.

Conference website: http://www.darevcan.univ-montp2.fr/?page_id=1 Conference fee (includes lodging, meals and conference banquet) 400 euros for PhD students; 520 euros for other participants

Registration The total number of participants is limited to 115 and all participants are expected to attend for the whole duration of the conference. Scientists interested in the meeting should send the proposed title and abstract of their presentation. Postdocs and PhD students should send in addition: their curriculum vitae, and a list of their main publications for the 3 last years. Applications should be sent to the Chairperson of the conference (mehochberg@gmail.com) by September 10th. Except in some particular cases approved by the Chairperson, it is recommended that all selected participants present their work during the conference, either in poster form or by a brief in-session talk. The organizers choose the form in which the presentations are made. No payment will be sent with the application. Information on how and when to pay will be mailed in due time to those selected. < <http://www.eec.univ-montp2.fr/people/> >

Michael Hochberg <mhochber@univ-montp2.fr>

UNSW Sydney EvolutionEconomics Feb2-5

Cooperation & Conflict in the Family

A Conference at the Interface of Evolution and Economics

February 2 - 5 2014, UNSW, Sydney
www.evolvingeconomics.com SECOND AN-
 NOUNCEMENT Abstract Submission < <http://www.evolvingeconomics.com/call-for-abstracts/> > Now
 Open - Closes 31 August 2013 Early-Bird Registration
 < <http://www.evolvingeconomics.com/registration/> > Now
 Open - Closes 30 September 2013

The Cooperation and Conflict in the Family conference will be held at UNSW in Sydney, Australia from February 2-5 2014.

We will bring together leading economic and evolutionary researchers to explore the nature of conflict and cooperation between the sexes in the areas of mating, fertility, marriage and family life. The conference provides an opportunity for researchers to discuss the economic and evolutionary biology approaches to these issues, explore common ground and identify collaborative opportunities.

Sydney makes a magnificent year-round destination, but is especially splendid in February. The Conference and social events will all happen in Randwick and Coogee, near some of Australia's most famous beaches, and a short bus or cab ride from the City Centre.

Call for abstracts (<http://evolvingeconomics.com/call-for-abstracts/>) The majority of the conference will be dedicated to submitted talks. We are pleased to invite you to submit abstracts for talks at the Cooperation and Conflict in the Family Conference. Submission is now open and closes on Friday 30 August 2013. Please submit your abstract by going to the abstract submission page < <http://evolvingeconomics.com/abstract-submission/> >.

We aim to run two parallel sessions of submitted talks. Each session will follow a theme, and we will ensure a mix of disciplines within each session. Speakers will be provided 15 minutes during which to present, plus five minutes for questions and changeover.

Submitted talks will be chosen on the basis of abstracts. Talks can address any topic related to the theme of the conference, including: conflict in mating, sexual strategies, mating markets, fertility decisions, conflicts over child-rearing or parental investment, the demographic transition, cooperation and conflict over household decisions, family labour supply, the history of human mating systems, the history of sexual conflict, and the evolution or economics of family structures.

Abstracts should have a descriptive title (no more than 140 characters) and contain no more than 300 words of text. We also invite you to select which disciplines your work best represents, and to nominate up to four key words.

Public Lectures Paul Seabright: What role is there for biology in explaining gender outcomes in the 21st century workplace? Monique Borgerhoff Mulder: "My Kin are Witches" - Life in an African Village in an Era of Globalization

Invited Speakers David P. Barash: The evolutionary

mysteries of female sexuality Alison Booth: Gender Differences in Risk Aversion: Do Single-Sex Environments Affect their Development? Lena Edlund: I do, I do, I do - family law and how the West won Michael Jennions: A biologist's perspective on sexual conflict in humans. Just another animal? Hillard Kaplan: An ecological framework for understanding the role of men in families Hanna Kokko: How to make sense of male care strategies Jason Potts: Cooperation and Conflict in Innovation Commons

rob.brooks@unsw.edu.au

UNSW Sydney EvolutionEconomics Feb2-5 2

Cooperation & Conflict in the Family A Conference at the Interface of Evolution and Economics

February 2 - 5 2014, UNSW, Sydney
www.evolvingeconomics.com SECOND ANNOUNCEMENT

Abstract Submission Now Open - Closes 30 August 2013 Early-Bird Registration Now Open - Early bird rates available until 30 September 2013

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We will bring together leading economic and evolutionary researchers to explore the nature of conflict and cooperation between the sexes in the areas of mating, fertility, marriage and family life. The conference provides an opportunity for researchers to discuss the economic and evolutionary biology approaches to these issues, explore common ground and identify collaborative opportunities.

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Public Lectures

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Invited speakers

David P. Barash: The evolutionary mysteries of female sexuality

Alison Booth: Gender Differences in Risk Aversion: Do Single-Sex Environments Affect their Development?

Lena Edlund: I do, I do, I do - family law and how the West won

Michael Jennions: A biologist's perspective on sexual conflict in humans. Just another animal?

Hillard Kaplan: An ecological framework for understanding the role of men in families

Hanna Kokko: How to make sense of male care strategies

Jason Potts: Cooperation and Conflict in Innovation Commons

Please circulate this announcement and the attached conference flyer to colleagues who may be interested in the conference.

rob.brooks@unsw.edu.au

USydney Systematics Dec1-6

Systematics Without Borders Earlybird registration closes Aug 30, 2013

Abstract submission is open for the 2013 joint conference of the Society of Australian Systematic Biologists, Invertebrate Biodiversity and Conservation and the Australasian Systematic Botany Society.

The conference will take place in Sydney, Australia, between the 1st and the 6th of December 2013, at the University of Sydney. It aims to bring together all researchers that use systematics, and to promote interdisciplinary connections.

To submit your abstract, please visit: <http://www.systematics2013.org/abstracts.php> CONFIRMED KEYNOTE SPEAKERS: Prof Craig Moritz (ANU, Australia) Em Prof Phil Garnock-Jones (UW, New Zealand) Dr Lynn Cook (UQ, Australia)

Conference themes include: Cultivating interdisciplinary research Linking biosecurity efforts Crossing borders with technology Understanding geographic borders

A full list of symposia are available at <http://www.systematics2013.org/theme/> For more information about the conference, please visit the conference website. <http://www.systematics2013.org/> Student participation is supported by some partial travel awards outlined on the website.

We look forward to welcoming you to Sydney in December 2013! On behalf of the organising committee, Nerida Wilson (Australian Museum)

Wildlife Photographer of the Year Exhibition 8 June to 7 October 2013

www.australianmuseum.net.au/event/Wildlife-Photographer-2012 Nerida.Wilson@austmus.gov.au

UVirginia SEPEEG Sep27-29

SEPEEG 2013 University of Virginia Department of Biology Mountain Lake Biological Station September 27-29

We are pleased to announce the 2013 SouthEastern

Population Ecology & Evolutionary Genetics Conference!

SEPEEG is returning to the University of Virginia's Mountain Lake Biological Station from September 27-29. SEPEEG is an excellent opportunity for students, postdocs, and faculty from across the southeastern US to gather and discuss their research ideas and ongoing work.

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For full details and to register, please visit the SEPEEG website: <http://mlbs.org/SEPEEG2013> Questions? Write to us at seepeg2013@virginia.edu

SEPEEG 2013 is sponsored by Princeton University Press, Roberts and Company Publishers, University of Chicago Press, and Sinauer Associates.

Benjamin Blackman Assistant Professor Department of Biology University of Virginia PO Box 400328 Charlottesville, VA 22904

Tel: 434.924.1930 E-mail: bkb2f@virginia.edu Web: <http://people.virginia.edu/~bkb2f/Blackman.Lab/bkb2f@virginia.edu>

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Barcelona PrimateGenomics	18	UCollegeLondon ComputationalBiology	26
GhentU GreenAlgalEvolution	18	UFSSouthAfrica AdaptiveEcologicalNetworks	27
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Melbourne Algal Stoichiogenomics	20	ULouvain ButterflySexualSelection	30
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NHM London FossilDeerEvolution	22	UTuebingen EvolutionFishColoration	32
NotreDameInst EvolutionaryBiol	22	UTulsa InvasiveInsectEvolution	33
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22		UZaragoza Spain BrachypodiumComparativeGenomics	
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AarhusU ArcticEvolution

Ph.D. position, Department of Bioscience, Aarhus University

Applications are invited for a PhD position within the project Evolutionary potential and contemporary evolution in a changing Arctic environment: Arctic charr and three-spine stickleback in Greenland, funded by the Danish Council for Independent Research.

Climate change and its consequences for the persistence of species and populations is considered one of the most important problems in the biological sciences. Whereas much attention has been devoted to effects on the level of ecosystems and the possibility of range shifts of species, there is an emerging understanding that populations and species may also respond to climate change through contemporary evolution.

This project will test hypotheses concerning evolutionary potential and contemporary evolution of Arctic charr and three-spine stickleback in western Greenland. This is one of the regions on Earth where climate change is predicted to be - and already is - most severe. It will be tested if these two fish species are able to adapt to altered climate conditions, using population and landscape genomics analyses. Data will be generated by next-generation sequencing methods (RAD sequencing and related approaches). The project also involves field work in Greenland for collecting samples.

The Ph.D. student will become part of a research group

with a creative and stimulating environment. The project also includes employment of a postdoc. The precise allocation of tasks among participants in the project will be agreed upon after employment.

Applicants should have a strong interest in evolutionary biology and population genetics/genomics, and should have taken relevant courses within these fields. Other relevant competences include experience with bioinformatics and/or GIS, and in general good computational skills. Good skills in scientific writing in English are also important.

The place of employment is Aarhus University, Department of Bioscience, Ny Munkegade 114, DK-8000 Aarhus C, Denmark.

The salary for Ph.D. students in Denmark depends on experience and the specific model (3 or 4 years), but is typically around 4500 US\$/month (+ pension 630 US\$/month) before tax for a 3 year Ph.D.

For more details, see: <http://talent.au.dk/phd/scienceandtechnology/opencalls/specific-projects/evolutionary-potential-and-contemporary-evolution-in-a-changing-arctic-environment-arctic-charr-and-three-spine-stickleback-in-greenland/> For further information please contact: Prof. Michael M. Hansen, e-mail mmh@biology.au.dk, tel. +45 40247191

Applications MUST be submitted online: <http://talent.au.dk/phd/scienceandtechnology/opencalls/> Choose November 2013 Call with deadline 1 November 2013. You will be directed to the call, and must choose the programme Bioscience.

Michael M. Hansen Professor, Deputy Head of De-

partment Department of Bioscience Aarhus University
 Ny Munkegade, Bldg. 1540 DK-8000 Aarhus C Den-
 mark E-mail: michael.m.hansen@biology.au.dk Web
 page: <http://person.au.dk/michael.m.hansen@biology>
 Tel.: +45 40247191

Michael Møller Hansen
 <michael.m.hansen@biology.au.dk>

Barcelona PrimateGenomics

Universitat Pompeu Fabra in Barcelona, Spain

* *

PhD fellowship available

The Comparative Genomics Group in the Comparative and Computational Genomics program of the IBE (<http://www.ibe.upf-csic.es/>) is willing to recruit a PhD student.

The research group that the successful candidate will join studies all kind of variation (genomic, transcriptomic and epigenetics) in humans compared to great apes.

The group is located at the Evolutionary Biology Unit of the Pompeu Fabra University (<http://www.upf.edu>) and is part of the Barcelona Biomedical Research Park (<http://www.prbb.org>), a renowned centre for Biomedical research that hosts, besides the University, other institutions such as the CRG (Centre for Genomic Regulation) or the CMRB (Barcelona's Centre for Regenerative Medicine). All these organizations share a thrilling and dynamic scientific atmosphere, driven by leading groups in fields such as bioinformatics, molecular biology and evolution. The PRBB is located close to Barcelona's City Centre (right in front of the beach).

Candidates should hold a Bachelor's degree (or equivalent) in Biology, Computer science or similar. Candidates with strong programming, knowledge on next-generation sequence methods (454, Illumina, Solid) and experimental background are especially encouraged to apply.

Motivated and potentially competitive applicants should send, before September 5th and preferably via e-mail, a CV and a short letter of interest including the names of two persons able to provide references to:

Tomas Marquès-Bonet (tomas.marques@upf.edu) Ferran Casals (ferran.casals@upf.edu)

– Tomas
 tomas.marques@upf.edu

GhentU GreenAlgalEvolution

*PhD position: green algal evolution *

The *Phycology Research Group (UGent)* and *Comparative & Integrative Genomics lab (VIB-UGent)* are looking for a highly motivated PhD student who is keen to work on evolution of green algal seaweeds.

*Background: *

Green seaweeds encompass macroscopic multicellular plants as well as several types of giant-celled organisms with unique morphological, cellular, and physiological characteristics. Little however is known about the mechanisms (cellular V molecular) that enabled this transition from small microscopic algae to large and complex seaweeds and eventually vascular plants.

Study/Research project:

The project aims to elucidate the genetic correlates of key innovations in green algal seaweeds and should provide insights on the mechanisms underlying the evolutionary success of this group of organisms. The student will apply transcriptome sequencing of normalized cDNA libraries using next generation sequencing technology of a representative set of ulvophycean algae selected on the basis of their phylogenetic position, cytological characteristics, ease of culturing and ecological significance. In addition the student will develop a centralized online infrastructure (pico-PLAZA) where all information generated by green algal sequencing initiatives (genome as well as transcriptome) is integrated, in combination with advanced methods for data mining. This platform will be the green algal equivalent of PLAZA, a comparative genomics resource to study gene and genome evolution in land plants (Proost et al. *Plant Cell* 21:3718-31).

What is expected from candidates:

1. EU citizenship
2. A Master of Science degree relevant to the subject (e.g. Biology, Bioscience Engineering, Marine Biodiversity and Conservation, Geography, ...)
3. Computer literacy. Experience in bioinformatics is viewed as a plus.
4. Excellent study results and a scientific, critical atti-

tude

5. English language proficiency

What we offer:

We offer of a fellowship of 4 years. Interested candidates email Olivier De Clerck (Olivier.declerck@ugent.be) and Klaas Vandepoele (klaas.vandepoele@psb.vib-ugent.be) with a motivation letter and CV before *15 September 2013*. Preselected candidates will be invited for an interview (in person or by skype). The final decision will be communicated at latest on October 1st, 2013.

More info:

For further information on the project and/or application procedure, please contact Prof. O. De Clerck by e-mail (Olivier.declerck@ugent.be).

<http://www.phycology.ugent.be/> <https://www.facebook.com/groups/Phycology.UGent/>
<http://bioinformatics.psb.ugent.be/cig/> * Olivier

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

INIA Spain ForestGenetics

The Population Genetics and Evolution research team at INIA-CIFOR (Madrid, Spain) is searching highly motivated graduate students with interest in forest genetics and evolutionary biology.

The Spanish Ministry of Economy and Competitiveness is about to launch a new call of 4-year pre-doctoral grants associated to already ongoing projects (FPI grants). The expected application period is from late August until September 10 (see link at the end of this message).

We offer one PhD thesis associated to the project AGL2012-40151-C03-02 FENOPIN. This is a preliminary call to contact interested candidates and facilitate interaction prior to the official call.

The project is centered in local adaptation of Mediterranean pines. More specifically, we intend to address the intra-specific genetic variation and phenotypic plasticity of key life history traits and trade-offs between them, as well as modeling the interplay between gene

flow and divergent selection that could help understanding observed variation patterns.

The ultimate target is to understand the evolutionary processes related to wild populations adaptation to varying stress (both abiotic and biotic) and perturbation regimes and inferring the possibilities to adapt to future environmental challenges through adaptive plasticity, local genetic change and/or migration.

The PhD student will be supervised by Dr. José Climent in close collaboration with Drs. R. Alía and JJ. Robledo-Arnuncio from INIA-CIFOR and Drs. Rafael Zas from MBG-CSIC and Jordi Voltas from Univ. of Lleida, (Univ of Lleida also participates in Erasmus Mundus Medfor). Further collaborations with top European scientists in forest genetics and evolution will be encouraged.

Brief description of the group research activity can be found in: <http://wwwsp.inia.es/en-us/Investigacion/-centros/CIFOR> Interested candidates please send an email with your motivation and CV to Jose Climent (climent@inia.es) with CC to Juan José Robledo-Arnuncio (robledo.juan-jose@inia.es).

Informative note from the Ministry of Economy and Competitiveness, mentioning the imminent FPI-grant call:

http://www.idi.mineco.gob.es/portal/site/MICINN/-menuitem.edc7f2029a2be27d7010721001432ea0/-?vgnextoid=ecc4a91e89e20410VgnVCM1000001d04140aRCRD&lang-es_jjrobledo@gmail.com

Liverpool CooperativeMammal

We are looking for a highly motivated graduate student to join a team of researchers using the banded mongoose (Mungos mungo) as a model system to investigate the evolution of cooperative societies.

The PhD will use a 17 year dataset of life-history and behavioural data of a pedigreed population of banded mongooses to examine the role of genes and the environment in determining patterns of helping behaviour. There is also potential for extending the project into other areas of understanding the evolution of cooperative breeding, depending on the interests and experience of the successful candidate. While the project will be largely computer-based, it will involve at least one visit to the field site in Uganda and there is some potential for conducting relevant field-based experiments

e.g. on mechanisms of kin recognition.

The successful candidate will: - have a good honours degree (minimum 2:1) in zoology or a closely related discipline. - demonstrate knowledge of vertebrate social systems, an interest in the application of genetic techniques to understanding animal behaviour and competence in learning new computer software.

The ideal candidate will also have experience of analysing life-history data, of conducting statistical analyses e.g. GLMMs, and/or of analysing pedigree data using quantitative genetic methods (e.g. the animal model).

Funding: - stipend of £13,750. - available from 30th September 2013 for 3 years. - candidate must be eligible for fees at UK/EU rates.

Please see <http://www.findaphd.com/search/-ProjectDetails.aspx?PJID=3D46356&LID=2457> for application details.

For informal enquiries contact Dr Hazel Nichols: h.j.nichols@ljmu.ac.uk

H.J.Nichols@ljmu.ac.uk

McGillU 2 Genomics

Two PhD Positions in Ecological Genomics and Bioinformatics, McGill University

Two PhD positions beginning January 2014 and September 2014 are available at McGill University (Biology Department). These positions are funded by the NSERC CREATE training program in Aquatic Ecosystem Health (ERASMUS) and a Canada Research Chair in Ecological Genomics. The ERASMUS program promotes collaborative and innovative multi-disciplinary research.

Graduate students will study multiple stressors in aquatic environments with special emphasis on the metal-induced mutation process from genomes to populations. We use lab experiments, field studies and computational analyses of large-scale sequence data to test speciation patterns, the genetics of habitat transitions and local adaptation in freshwater crustaceans.

We are looking for highly motivated individuals with strong analytical and computational skills. Successful applicants must have obtained a research-based MSc degree in a related discipline (e.g., evolution, molecular ecology, genomics, bioinformatics) and demonstrate

interest and/or experience in team-based and interdisciplinary projects. International students with strong credentials (competitive GPA, strong English proficiency) and publications in peer-reviewed journals are encouraged to apply.

Interested student should send their CV, a brief statement of research interest, along with a list of 3 references to Dr. Melania Cristescu at Email: melania.cristescu@mcgill.ca

Melania Cristescu <melania.cristescu@mcgill.ca>

Melbourne Algal Stoichiogenomics

A PhD scholarship in evolutionary algal stoichiogenomics is available in the Verbruggen lab at the University of Melbourne, Australia.

You will study genomes, transcriptomes and proteomes of algae to investigate their utilization of key elements (e.g. N, S, trace elements). The resulting stoichiometries will be studied in a phylogenetic context to infer the evolutionary dynamics of element utilization. You will interpret the evolutionary patterns in a paleoenvironmental context and test specific hypotheses about the inheritance of elemental stoichiometry during plastid endosymbiosis. The project involves generation of molecular data (if desired) and comparative evolutionary bioinformatics. Computational skills are a key selection criterion for this position.

To be successful you will: * satisfy the requirements for a PhD degree at the University of Melbourne (<http://goo.gl/VGRgQ>) * have had exposure to molecular biology and bioinformatics * have a strong interest in algal biology and bioinformatics * evidence strong oral and written communication skills

To find out more about the lab, go to <http://www.phycoweb.net> To apply, send your CV, a representative piece of English writing (e.g. MSc thesis), and the names and contact information of two or more references (at least one former supervisor) to heroen.verbruggen@unimelb.edu.au. Informal enquiries are welcome.

Heroen Verbruggen

- www.phycoweb.net algal evolution blog: phycoweb.wordpress.com

heroen.verbruggen@gmail.com

Kay Hodgins <hodgins@zoology.ubc.ca>

MonashUniversity EvolutionaryGenomics

PhD positions, plant ecological genomics

The Hodgins lab is currently seeking outstanding PhD candidates interested in studying plant ecological genomics (www.hodginslab.com). Our laboratory studies the genetic basis for adaptation in plants. We are particularly interested in using introduced species as a model for studying rapid adaptation. We also study adaptation to climate in forest trees and plant domestication. To address evolutionary questions relating to these topics, we use a combination of genomics, ecological fieldwork and experimental approaches.

The project can commence any time during 2014 and will be developed in collaboration with the student. Teaching is not required for the duration of the PhD (3.5 years in Australia). Research funding as well as attendance in one conference per year is guaranteed.

A top-up scholarship will be awarded to the successful recipient of an Australian Postgraduate Award (tax-free 2013 rate of approximately \$25,000 AUD, top up of \$5000).

In addition, two fully funded PhD stipends are available for either Australian/NZ domestic or international students. The stipends include all course fees plus approximately \$25,000 AUD per annum tax-free.

Melbourne is diverse and thriving city with a desirable climate. It is one of the most livable cities in the world and is a cultural and recreational hub.

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 strengths in both ecology and genetics and the nexus between these disciplines.

Please send your CV, a transcript, a brief statement of your research interests and the contact details of two referees to hodgins@zoology.ubc.ca. The deadline for scholarship applications at Monash University is October 31, 2013 for a January 1, 2014 start date.

Kathryn Hodgins, PhD Botany Department University of British Columbia 3529-6270 University Blvd Vancouver, B.C. V6T 1Z4 Phone: 604-710-6876 Fax: 604-822-6089

MonashUniversity HostPathogenEvolution

PhD position, evolutionary genetics of infectious disease

Two PhD positions are available in the group of Matthew Hall at Monash University (School of Biological Sciences). We are looking for a highly motivated candidate with broad interests in the evolutionary genetics and genomics of host-pathogen interactions. The starting date can be any time during 2014 and the PhD project will be developed in collaboration with the student to accommodate research interests and strengths.

Our research group studies the evolution of host defence strategies using *Daphnia magna* and its bacterial parasite *Pasteuria ramosa* (see mattdhall.com for more information). We are interested in how host resistance and tolerance fits in with a broader life-history and ageing framework, how pathogen virulence evolves, and the underlying genetic basis of host and parasite fitness components. To address these evolutionary questions, we use a combination of quantitative genetics, genomics and experimental approaches.

Scholarship details Each PhD stipend is fully-funded for a period of 3.5 years and is open to both Australian/NZ domestic and international students. The stipends include all course fees plus approximately \$25,000 AUD per annum tax-free. Domestic students will be encouraged to apply for an Australian Postgraduate Award, with a top-up scholarship awarded to successful recipients (tax-free 2013 rate of approximately \$25,000 AUD, top up of \$5000). Research funding as well as attendance in one conference per year is guaranteed.

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 strengths in both ecology and genetics and the nexus between these disciplines (monash.edu/science/about/schools/biological-sciences/). 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 a cover letter outlining their research interests and motivation, together with a CV and academic transcript to matt.hall@unibas.ch. 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 and will be interviewed via video conference. The deadline for scholarship applications at Monash University is October 31, 2013 for a January 1, 2014 start date.

Matthew D. Hall Universität Basel, Zoologisches Institut, Vesalgasse 1, CH-4051 Basel, Switzerland Phone: +41 (0)61 267 0371, Fax: +41 (0)61 267 0362 www.mattdhall.com twitter: @mattd_hall

matt.hall@unibas.ch

NHM London FossilDeerEvolution

Leverhulme funded (UK/EU fees, plus stipend) PhD position, supervised by Adrian Lister (Earth Sciences, NHM London) and David Richards (Geography, U. Bristol), investigating evolutionary patterns in Mediterranean island deer (fossil ones!):

<http://www.nhm.ac.uk/research-curation/training/-phd/studentships-2013/index.html> It's a good student project, with the opportunity for fieldwork/excavation, and the chance to become part of our wider research program into the evolution of island dwarfism.

the deadline is very soon - 5th September! Please pass on to anyone you think might be interested.

Tori

Dr. Victoria Herridge Scientific Associate, Earth Sciences, Natural History Museum, London, SW7 5BD, UK +44 20 7942 5477 (w) +44 7904349707 (mob)

skype: [victoriaherridge](https://www.skype.com/people/victoriaherridge) research: <http://bit.ly/-QuOtDq> twitter: @ToriHerridge

victoriaherridge@mac.com

NotreDameInst EvolutionaryBiol

The Notre Dame Institute for Advanced Study (NDIAS) supports research in all academic disciplines

that is directed toward or extends inquiry on ultimate questions and questions of value. Fellows are encouraged to reflect on broad questions that link multiple areas of inquiry and to explore the relationship between the descriptive and the normative in an engaging academic community of scholars, scientists, artists, and professionals.

NDIAS offers three types of residential fellowships. Each fellowship offers a stipend, funds for research expenditures, participation in NDIAS weekly seminars, computer, printer, and office space. Residential Fellows receive stipends of up to \$60,000. Graduate Student Fellows receive stipends of up to \$25,000. Distinguished scholars with extensive records of accomplishment are invited to apply for Templeton Fellowships at the NDIAS. Templeton Fellows must address one of four major questions, as detailed on the NDIAS website, and they receive stipends of up to \$100,000. Applicants may submit proposals for one type of fellowship only per year.

Application deadline for all fellowships is October 15, 2013. Awards will be announced in spring 2014.

NDIAS is committed to excellence and diversity. All those with promising and appropriate projects are invited to apply.

Details are available at <http://ndias.nd.edu/-fellowships/>. Thank you,

Nick Ochoa Research Assistant Notre Dame Institute for Advanced Study

Notre Dame Institute for Advanced Study
<ndias@nd.edu>

NottinghamTrentU CampylobacterDiseaseDynamics

PhD position at Nottingham Trent University. Real-Time Epidemiology of Campylobacter infections. Funding covers UK/EU fees. Application deadline: August 23rd (17.00 GMT).

This project will combine whole-genome sequencing approaches with anonymised patient information to undertake the first ever real-time epidemiological study of notified Campylobacter infections in a single health trust site. Candidates should have Microbiology (and some bioinformatics) experience. For a full description and eligi-

bility criteria please visit: http://www.ntu.ac.uk/-research/document_uploads/144836.pdf For informal queries please contact Dr Alan McNally: alan.mcnally@ntu.ac.uk Or Dr Georgina Manning: georgina.manning@ntu.ac.uk

Benjamin Dickins Lecturer in Molecular Genetics Nottingham Trent University

<http://www.bendickins.net/softsweep.wordpress.com/> “Dickins, Benjamin” <benjamin.dickins@ntu.ac.uk>

NottinghamTrentU ExperimentalEvolution

PhD position at Nottingham Trent University in Experimental Evolution. Funding covers UK/EU fees. Start time: on or after October 2013. Application deadline: August 23rd (17.00 GMT).

This is an opportunity for candidates with experience in Microbiology, Molecular Genetics or Evolutionary Biology to pursue an experimental approach to understanding fundamental evolutionary processes. The starting point is measurement and manipulation of the mutation rate in bacteriophage phiX174. Next-generation sequencing will be used to track population changes. For further particulars, including full eligibility details and the application procedure please visit: http://www.ntu.ac.uk/-research/document_uploads/144835.pdf For informal queries please contact Dr Ben Dickins: benjamin.dickins@ntu.ac.uk bendickins.net

“Dickins, Benjamin” <benjamin.dickins@ntu.ac.uk>

OhioStateU Phylogeography

Grad Student

The Carstens lab at The Ohio State University is looking for Ph D students who are interested in phylogeography in general and developing new approaches to the analysis of comparative phylogeographic data in particular. Please see <<http://carstenslab.org.ohio-state.edu/>> and <<https://sites.google.com/site/bryanccarstens/>>

> for general information about the lab, and contact Bryan directly if interested at <carstens dot 12 at osu dot edu>. I anticipate that the positions would start in the Fall of 2014.

Bryan C. Carstens Department of Evolution, Ecology, & Organismal Biology The Ohio State University 318 W. 12th Avenue Columbus, OH 43210-1293

web: <http://carstenslab.org.ohio-state.edu/> web: <https://sites.google.com/site/bryanccarstens/> skype: bryan.carstens office: 614.292.6587 cell: 734.474.8527

Bryan Carstens <bryan.c.carstens@gmail.com>

RJB-CSIC Spain AfricanBiogeogrEvol

PhD position in African biogeography & evolution

Please help me advertise this position to any potential applicants.

Thank you and best wishes, Isabel.

*Position description *

PhD Position. Fixed-term employment, four years

Available at the Royal Botanical Garden - Spanish National Research Council (RJB-CSIC, Madrid, Spain).

Closing date: September 1st, 2013.

You will analyze the genetic structure of selected subtropical and tropical species, or closely related plant taxa, with a widespread or disjunct distribution in Africa (project AFFLORA) in order to: disentangle the impact of neutral processes (isolation, genetic drift, gene flow), infer the location of potential Pleistocene refuges, estimate the timing of range disjunctions, and assess the level of gene flow across geographic barriers. You will also test for the existence of a spatially and temporally congruent demographic history, implying range shifts of entire communities (fragmentation, extinction) as opposite to idiosyncratic histories suggesting individualistic responses to climate change and independent colonization.

To achieve these goals ideally you will: I) mine plant transcriptomes and identify markers for targeted sequencing using NGS techniques; II) produce population (SNPs) and species level (amplicon sequencing)

molecular data using NGS techniques; III) reconstruct gene trees (inter-population divergence) and trace the spatial distribution of populations (lineages) through time; IV) infer geographical genetic structure or location of gene pools using Bayesian clustering models; V) use population demographic models based on coalescent theory to estimate gene flow across barriers and to estimate past population size changes; VI) assess congruence among phylogeographic patterns of the studied species and test alternative hypotheses on community-building in African floras using novel full Bayesian and Approximate Bayesian Computing techniques.

***Requirements ***

Candidates should have completed their Masters or be done with it by the end of 2013 (this is a requirement of the Spanish fellowship program which cannot be waived; please, see call description at: <http://www.boe.es/boe/dias/2013/08/14/-pdfs/BOE-A-2013-8984.pdf> [in Spanish]). The date in which that degree (Master or Bachelor if lacking) was obtained should be later than January 1, 2010. Once selected, the candidate can choose the PhD program they wish to join among the available Spanish universities. Preference will be given to candidates with prior knowledge on bioinformatics and/or computational biology (e.g., Masters in Bioinformatics). Good communication skills (written and spoken) in English are necessary, and language skills in Spanish are advantageous. Experience working with lab techniques in molecular phylogenetics and/or NGS data, and knowledge in phylogenetic and population genetic software and/or programming languages applied to these, such as R, Perl, Python, or C++ are advantageous. We are seeking a candidate who is independent, self-motivated, and interested in the use or development of new methods and approaches, in short, a person willing to go beyond the state-of-the-art in the field. We will attach great importance to personal characteristics and independence in learning and working, creativity and documented productivity. Priority will be given to those candidates who have co-authored one scientific publication before the deadline.

***How to apply ***

Candidates should send their CV to Dr. Isabel Sanmartín (isanmartin@rjb.csic.es) no later than September 1st, 2013. Applications will be screened as they arrive, thus we encourage each applicant to send their CV as soon as possible.

Dr. Isabel Sanmartín

Senior Researcher

Dept. of Biodiversity and Conservation, RJB-CSIC

Plaza de Murillo, 2, 28014 Madrid, Spain

E-mail: isanmartin@rjb.csic.es

Phone: 91 420 30 17 (Ext 213)

Fax: 91 420 01 57

Doctorado en biogeografía y evolución africanas

Por favor, ayúdenme a distribuir esta convocatoria entre posibles candidatos/as

Muchas gracias con mis mejores deseos, Isabel.

Descripción del puesto

Contrato predoctoral por cuatro años.

Disponible en el Real Jardín Botánico - Consejo Superior de Investigaciones Científicas (RJB-CSIC, Madrid, España)

Vencimiento del plazo: 1 de Septiembre de 2013.

Objetivos: Análisis de la estructura genética de diversos taxones de plantas emparentadas de distribución geográfica discontinua (disjunta) subtropical en África (proyecto AFFLORA) con el objeto de: Desentrañar el impacto de procesos evolutivos neutrales (aislamiento, deriva genética, flujo genético); Inferir la ubicación de refugios potenciales pleistocenos; datar distribuciones disjuntas; y evaluar los niveles de flujo genético a

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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>

UAntwerp Behavioural Evolution

The University of Antwerp is a knowledge center with 4000 employees that performs ground-breaking and innovative research of international standing. The university takes special care to ensure optimum support and supervision of students, and pays constant attention to educational innovation. The university is an autonomous pluralistic institution that is committed to the enhancement of an open, democratic and multicultural society, and it pursues an equal opportunities policy.

The University of Antwerp is seeking to fill the following vacancy (m/f) at the Department Biology-Ethology of the Faculty of Sciences:

Ph.D. student/Post-doc in Behavioural and Evolutionary Ecology

Job description: Bird song has been a fascinating and productive area of research among other in the context of sexual selection, and it is now commonly assumed that bird song forms a sexually selected trait. Bird song represents a learned behaviour, which makes it an even more fascinating trait, given that learned forms of vocal communication are a rather exceptional phenomenon. In this project particular attention will be paid to: * The genetic basis of song characters in order to predict their potential to respond to directional selection and the existence of (genetic) learning preferences and predispositions as sources of individual variation in song * Indirect selection on the underlying endocrinological control mechanisms for the evolution of bird song and the evolution of suites of traits * Testing predictions of evolutionary theory in the context of sexual selection (indirect and direct benefits to mate choice, condition dependence,...) * Variation in the environmental conditions during development, trade-offs across different life-history stages, and transgenerational consequences

Profile and requirements: * you have a Master degree in Biology or an equivalent degree in life sciences * you are an enthusiastic and highly motivated student with a strong interest in Behavioral and Evolutionary Ecology, preferentially with experience in related research * post-doctoral candidates should be qualified young scientists with a strong background in Behavioral or Evolutionary Ecology. Evidence of independent thinking and a good publication record are desirable * you have good organizational, writing and presentation skills and should be able to work well both independently and in a team environment

We offer: * a Ph.D. scholarship for one year, and extension for another three years after positive evaluation. The post-doctoral position is for two years * the possibility to join a dynamic and stimulating group of researchers working on all 4 major aspects of animal behaviour (causation, development, function, evolution), with emphasis on sexual selection, parental care, and hormone-behaviour relationships in birds (See <http://www.ua.ac.be/wendt.muller> and <http://www.ua.ac.be/marcel.eens>) * starting date: 1st of November 2013 - 1st of January 2014

Interested? * Please send all application material including 1) your curriculum vitae 2) a brief (250 words) summary of your reasons for applying and 3) contact information of max. 2 referees) as single PDF-file to: wendt.muller@ua.ac.be. Closing date: 13.10.13. * For more information, contact Prof. Wendt Müller (wendt.mueller@ua.ac.be) or Prof. Marcel Eens (marcel.eens@ua.ac.be)

cel.eens@ua.ac.be)

Wendt Müller University of Antwerp Department of Biology-Ethology Campus Drie Eiken C-1.27 Universiteitsplein 1 2610 Antwerp (Wilrijk), Belgium

e-mail: Wendt.Muller@uantwerpen.be web: <http://www.ua.ac.be/wendt.muller> tel +32 32652292 fax +32 32652271 mobile:+32 473567276

Müller Wendt <Wendt.Mueller@uantwerpen.be>

UBern EAWAG Switzerland CichlidSpeciation

PhD ecological genomic of speciation in cichlid fish, University of Bern and Eawag

A fully funded Swiss Science Foundation PhD position is available immediately for a duration of three years in the Seehausen group at University of Bern and Eawag to work on constraints to speciation in cichlid fish, using a combination of African fieldwork, next generation sequencing, and ecological and phenotypic data analysis.

We are a large and interactive research group, with several PhD students, Postdocs and faculty working on speciation and adaptive radiation in African cichlid fish and postglacial European fish, and others working on field-based and experimental community ecology and conservation biology.

We are looking for an enthusiastic and interactive young researcher, with a Masters degree in ecology, evolution, genetics, genomics or similar, a strong background in ecology and evolutionary biology and a desire to study speciation in an exceptionally diverse group of animals. Experience with fieldwork in the tropics, experience with NGS data analysis and good knowledge of the R programming environment will all be very helpful but are not absolutely required. The project will include field work in East Africa, collection and analysis of ecological and phenotypic data, experimental breeding of cichlids in our aquarium facilities in Switzerland, preparation of DNA libraries for next generation sequencing, QTL mapping, advanced population genomic data analysis, and the writing of several manuscripts for leading journals in the field.

This PhD position is fully funded for three years by the Swiss Science Foundation with salary according to Swiss Science Foundation salary scheme. It is one

of several new and recent Swiss Science Foundation funded positions on cichlid speciation in the group, and it will involve close interaction with several other PhD students, Postdocs and senior scientists.

Our research group is part of the Institute of Ecology & Evolution (IEE) of the University of Berne (http://www.fishecology.ch/index_EN), and the EAWAG Center for Ecology, Evolution and Biogeochemistry (CEEB) in Luzern/Kastanienbaum (http://www.eawag.ch/forschung/cc/ceeb/index_EN). Our well-equipped labs are situated in the CEEB, right on the shores of Lake Lucerne (a lake that has its own endemic fish radiations) and in the IEE in Bern. Switzerland is home to an impressive number of universities in close geographic proximity, affording the opportunity for interaction with a large community of ecologists and evolutionary biologists.

Applications should be sent before September 30 to Susanne.maurer@iee.unibe.ch with cc to ole.seehausen@eawag.ch. Please include cv, transcripts of your Masters degree certificate and email addresses of 3 referees. For information please write to ole.seehausen@eawag.ch.

We look forward to receiving your application

Ole Seehausen

Ole.Seehausen@eawag.ch

UCambridge ComputationalBiology

Description of work 3 year doctoral position in the Department of Computer Science at the University of Cambridge. This position is part of a EU Project, EPI-HEALTHNET and Involves Bioinformatics and Computational Biology modelling of Epigenetic mechanisms early in life and developmentally relevant metabolic signalling, which create biological variation and have a long term effect on the health of individuals across the lifespan. The candidate will analyse data in several relevant models (diabetes, obesity and assisted reproductive technologies (ART)), human samples, stem cell lines, animal models) and will develop bioinformatics tools to decipher some of the most important pathways and to offer options for early intervention to avoid adverse health effects. The aims are to a) discovery of the key genes and pathways affecting epigenetic and imprinting sensitivity in early stages of development in order to create intervention tools against epigenetic mis-

programming; and B) Link with bioinformatics tools the longevity related pathways and those susceptible to early epigenetic perturbations in order to explain how early events influence the health and lifespan of individuals; C) Studying the possibilities of early intervention by controlling the maternal environment. Familiarity with general programming languages (C/C++, Java) and with computational packages (Mathematica, R, Matlab) would be helpful. Enquiries to

Dr Pietro Lio' Computer Laboratory University of Cambridge pl219@cam.ac.uk

[Pietro Lio'] [<http://www.cl.cam.ac.uk/users/pl219>]

Pietro Lio' <pl219@cam.ac.uk>

UCollegeLondon ComputationalBiology

PhD studentship in Computational Biology at UCL

Fully-funded 3 year position, starting as soon as possible

THE OPPORTUNITY

Recent breakthroughs in sequencing technologies are transforming biosciences. Increasingly, individual laboratories perform de novo genome and transcriptome sequencing efforts. But due to the relatively short length of current reads, assembly remains challenging. The problem is particularly acute with plant genomes because of their large size, polyploidy, and massive gene expansions and contractions.

The successful applicant will contribute to on-going efforts in the lab to exploit orthologous sequences in closely related species to identify split and incomplete genes in draft genome and transcriptome assemblies.

The project is part of a larger collaboration between the Dessimoz Lab at UCL and Bayer CropScience NV (Ghent, Belgium), leading agronomical company, for the development of new methods and resources to better characterise evolutionary and functional relationships between model plant genomes and agronomically-relevant crop genomes. This project will enable more effective crop biotechnology, which is key to ensure food security and sustainable agriculture.

The successful applicant will be provided with strong mentorship and be given ample scientific training opportunities. She or he will be based at UCL in the Blooms-

bury area of London, but will have the opportunity to do short-term visits to the collaborator in Ghent.

The successful applicant will receive a tax-free stipend of currently £15,726 per annum. There will be additional opportunities to be sponsored for attending international conferences. The PhD study fees will be covered by the project (UK/EU rates).

PROFILE SOUGHT

- Strong (first or upper second class) undergraduate or postgraduate degree in quantitative discipline (bioinformatics, computer science, statistics, mathematics, or related subjects) - High degree of self-motivation - Good ability to work independently and as part of a team - Effective written and oral communication skills - Demonstrated programming skills - Ideally, prior experience in computational biology research

Applicants must be either UK/EU/Swiss nationals or resident in the UK for three years prior to starting the PhD.

HOW TO APPLY

To apply, please send the following documents as single PDF by email to Dr Christophe Dessimoz (c.dessimoz at ucl.ac.uk):

- a covering letter highlighting your reasons for applying and your suitability for this studentship - a copy of your CV - the names and contact details of 2-3 references - if available, links to your Bachelor or Master thesis, publications, code projects (e.g. GitHub repo) are appreciated

To ensure full consideration, applications should be received by 16 Sep 2013 at 5pm UK time.

For informal enquiries, please contact Dr Dessimoz to this above address.

ABOUT US

At the interface between biology and computer science, the Dessimoz Laboratory seeks to better understand evolutionary and functional relationships between genes, genomes, and species. The lab is part of both the UCL Department of Genetics, Evolution and Environment and the UCL Department of Computer Science. More information on the lab is available at <http://lab.dessimoz.org>. UCL is one of the world's top universities. Based in the heart of London, it is a modern, outward-looking institution. At its establishment in 1826, UCL was radical and responsive to the needs of society, and this ethos - that excellence should go hand-in-hand with enriching society - continues today. UCL's staff and former students have included 21 Nobel prizewinners. It is a truly international community:

more than one-third of our student body - nearly 27,000 strong - come from 150 countries and nearly one-third of staff are from outside the UK. UCL is independently ranked as the most productive research university in Europe (SIR). The Thomson Scientific Citation Index - which catalogues journal articles and citations in the sciences, social sciences and arts and humanities - shows that UCL is the second most-highly cited European university.

UCL Department of Genetics, Evolution & Environment
UCL Department of Computer Science Darwin Building, Gower St, London, WC1E 6BT, UK Tel: +44 20 7679 0079 (Int. 30079) Mobile: +44 7721 047 648
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c.dessimoz@ucl.ac.uk

UFSSouthAfrica AdaptiveEcologicalNetworks

SA-YSSP FELLOWSHIPS FOR YOUNG SCIENTISTS

We are looking for creative PhD students from around the world who would like to participate in a three-month research program in South Africa. We welcome applications by students with a general interest in theoretical ecology and evolution, and are particularly interested in hosting research projects related to modeling adaptive ecological networks, food-web dynamics, speciation, coevolution, and evolutionary community assembly. Research projects will be carried out at the University of the Free State in Bloemfontein, South Africa, from 24 November 2013 until 22 February 2014, and are meant to result in a published article and a corresponding chapter in an applicant's PhD thesis. Applicants will have the chance to work under the joint mentorship of Cang Hui (Centre for Invasion Biology, Department of Botany and Zoology, Stellenbosch University, South Africa), Åke Brännström (Department of Mathematics and Mathematical Statistics, Umeå University, Sweden), and Ulf Dieckmann (Evolution and Ecology Program, International Institute for Applied Systems Analysis, Laxenburg, Austria). Funding to cover travel to Bloemfontein and living expenses while there is available for successful applicants.

THEMATIC DETAILS

Stability and complexity of adaptive ecological networks

Forty years ago, Robert May published his iconic book, *Stability and Complexity in Model Ecosystems*. In this book, May challenged a popular belief of ecologists that species-rich ecosystems are more stable than species-poor ones. Using a mathematical model of differential equations, May derived the opposite conclusion: complexity leads to instability. May's principle of 'simple means stable' has guided the design of durable and robust complex systems by reducing the number of compartments. Learning from ecological systems, here we envisage a paradigm shift departing from May's principle by incorporating adaptive compartments. For this purpose, we aim to expand the methodology of adaptive dynamics theory, a mathematical toolbox recently developed for examining phenotypic evolution in realistic ecological settings. The new perspective we propose emphasizes that complex adaptive systems assemble their members and often cause these to diverge into functional clusters.

An important assumption in the early theories is that species in a community are not allowed to have ecological novelty or evolutionary novelty. Ecological novelty refers to the ability of species to increase their fitness by deciding, adaptively and at ecological time scales, how strongly they interact with extant other species. Evolutionary novelty refers to the ability of species to increase their fitness by adapting their heritable traits via natural selection. Here we propose to build a mathematical model that incorporates both ecological and evolutionary novelties in a large ecosystem with a realistic number of species. Using adaptive dynamics theory, we plan to first construct an ecosystem following May's approach; that is, a Lotka-Volterra model with each species described by a differential equation. The mutualistic and antagonistic relationships among these species will be described by Holling-type-II functional responses. We will allow species to choose their interaction partners and adapt their interactions through the mutation and selection of the underlying traits. In this way, we will design the first model that allows changes both in the interaction matrix and in the benefit matrix. The relationship between diversity and complexity will be assessed by this innovative adaptive model.

In addition to the research theme summarized above, we are open to supervising projects in all other areas of theoretical ecology and the analysis of complex adaptive systems. This includes studies of the dynamics and evolution of cooperation; adaptive response of metapopulations, ecosystems, and biodiversity patterns to environmental changes; evolution of virulence and resistance in diseases; adaptive management of landscapes, vegetation structures, and fisheries; as well as analyses of systemic risks. Projects in all of these areas

may have an analytical component, and will typically involve a simulation-based numerical approach.

Applicants should have mastered at least one programming language (such as Matlab, Mathematica, R, C, C++, Basic, Delphi, or Pascal) and should ideally be familiar with the stability analysis of differential equations, methods of adaptive dynamics theory, and standard models in population ecology, community ecology, and evolutionary ecology.

+ Allesina, S. & Tang, S. (2012). Stability criteria for complex ecosystems. *Nature* 483: 205-208. Available online at <http://www.nature.com/nature/journal/v483/n7388/full/nature10832.html>

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UFSSouthAfrica AdaptiveEcologicalNetworksSouthAfrica SoilMicrobes

SA-YSSP FELLOWSHIPS FOR YOUNG SCIENTISTS

We are looking for creative PhD students from around the world who would like to participate in a three-month research program in South Africa. We welcome applications by students with a general interest in theoretical ecology and evolution, and are particularly interested in hosting research projects related to modeling the effects of soil microbes on plant diversity and productivity. Research projects will be carried out at the University of the Free State in Bloemfontein, South Africa, from 24 November 2013 until 22 February 2014, and are meant to result in a published article and a corresponding chapter in an applicant's PhD thesis. Applicants will have the chance to work under the joint mentorship of Wijnand J. Swart (Department of Plant Sciences, University of the Free State, Bloemfontein, South Africa), Gergely Boza (Department of Plant Systematics, Ecology and Theoretical Biology, Eötvös Loránd University, Budapest, Hungary), and Ulf Dieckmann (Evolution and Ecology Program, International Institute for Applied Systems Analysis, Laxenburg, Austria). Funding to cover travel to Bloemfontein and living expenses while there is available for

successful applicants.

THEMATIC DETAILS

Modelling mechanisms influencing above- and below-ground diversity and productivity in plant communities

Soil microbes inhabiting the rhizosphere play a crucial role in determining plant fitness, productivity, and health. Their role has been highlighted in studies of mutualistic and antagonistic interactions, both in natural ecosystems affecting the diversity and stability of communities, and also in agro-ecosystems directly affecting crop yields. Besides the biological aspects often studied, also various biochemical mechanisms influence rhizosphere diversity, which in turn stabilizes interactions that positively or negatively affect plant species and community diversity, stability, or resilience. Allelopathy, the inhibition of others by chemicals, is one potential mechanism responsible for determining agricultural productivity and plant community structure. Modeling allelopathy in a multi-species setting in spatially explicit models will contribute to a broader understanding of the diversity, stability, and productivity of above- and below-ground communities.

This project will focus on modeling plant community dynamics in a multi-species setting. At the same time, it will interface this objective with the consideration of multi-player cooperation models, thus creating a link between modeling plant community dynamics and cooperation research. Cooperation research focuses on the evolution and stability of different strategy types involved in potentially co-operative interactions - for example, investing more or less into producing chemical products that may inhibit other members of a community. Interaction between these different strategies will then affect the diversity, stability, or productivity of communities. Among the numerous theoretical approaches, agent-based modeling is an appropriate tool for the theoretical study of plant community dynamics with such complex interactions. Agent-based models can also be used for modeling spatially explicit populations, in which individuals have limited movement and localized interactions, which fits the study of plant communities. The scope of this project is to develop and/or analyze such a model for understanding plant community dynamics in a multi-species setting considering interactions through chemical products. In addition to these theoretical aspects, the project will also consider applied aspects of plant community dynamics, by comparing model results with data, and by making predictions about the effect of human actions, such as fertilization strategies or crop-mixing strategies, on plant community diversity, stability, and productivity.

Applicants should be familiar with ecological mod-

eling, microbial ecology, spatially explicit modeling, agent-based modeling, associated mathematical methods, Matlab/ C/ Delphi (or a similar programming platform), and share an interest in interactions between species and their abiotic environment.

+ Blanco, J.A. (2007). The representation of allelopathy in ecosystem-level forest models. *Ecological Modelling* 209: 65-77. Available online at <http://www.sciencedirect.com/science/article/pii/S0304380007003225> + Boza, G., Kun, Á., Scheuring, I. & Dieckmann, U. (2012). Strategy diversity stabilizes mutualism through investment cycles, phase diffusion, and spatial bubbles. *PLoS Computational Biology*, 8: e1002660. Available online at <http://www.ploscompbiol.org/article/info:doi/10.1371/journal.pcbi.1002660> + Inderjit, Wardle, D.A., Karban, R. & Callaway R.M. (2011). The

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UJaen Spain GrassDroughtAdaptation

<< A PhD position at the University of Jaén in southern Spain. Period 2014-2017.

Topic: Natural selection and adaptive significance of candidate genes associated to drought resistance in the temperate grass *Brachypodium distachyon* (Poaceae) Water stress is one of the main abiotic factors that limit the distribution and abundance of plants and one of the major selective forces that promote local adaptation in plants. For these reasons, understanding the mechanisms of how plants cope with water stress has been a recurrent and central topic in plant ecology, plant physiology and evolution. Water use efficiency (WUE) is a key trait intrinsically related to dehydration avoidance, which has a direct impact on plant productivity. Intraspecific natural variation and the genetic architecture underlying this variation is almost unknown. This proposed research will provide a comprehensive evolutionary analysis of the genetic basis of *Brachypodium distachyon* adaptation to dry environments, and will further shed light on the genome-level

evolutionary patterns among other natural or crop temperate grass species. Specifically, we will address the following major goals: (1) to identify candidate genes related to variation in WUE through the analysis of the transcriptome; (2) to clone and sequence alleles underlying variation in WUE, in order to transform the *B. distachyon* line Bd21, which genome has been recently sequenced; (3) to evaluate gene function and fitness of these selected candidate genes in experimental conditions. Finally, we propose to test the hypothesis that local adaptation is caused by the existence of genetic tradeoffs (antagonistic pleiotropy) at these candidate genes. This project is funded by the Spanish Ministry of Economy and Competitiveness.

More info: www.ajmanzaneda.org Requisites:

Demonstrable experience in molecular work is required for this position (preferably on plants or fungi) Evolutionary knowledge desirable. Medium-High level of Spanish desirable (not excluding criteria).

Interested candidates send CV and letter describing interests to amavila@ujaen.es

Contact information:

Dr. Antonio J Manzaneda Departamento de Biología Animal, Biología Vegetal y Ecología. Área de Ecología. Universidad de Jaén. Paraje las Lagunillas s/n. 23071. Jaén. SPAIN

e-mail: amavila@ujaen.es [http: www.ajmanzaneda.org](http://www.ajmanzaneda.org)
in twitter: @AntonioJManzane

Antonio J Manzaneda <amavila@ujaen.es>

ULouvain ButterflySexualSelection

nes: 160

PhD on the plasticity of multimodal communication under sexual selection in a butterfly, *Bicyclus anynana*

PhD Position in Behavioral Ecology (f/m)

Biodiversity Research Centre – Earth and Life Institute
Université catholique de Louvain (UCL)

Project title Plasticity of multimodal communication under sexual selection in a butterfly, *Bicyclus anynana*

Available position A full time four-year PhD position is available at the Biodiversity Research Centre, Earth and Life Institute, University of Louvain-la-Neuve (UCL) in Belgium ([http://www.uclouvain.be/-](http://www.uclouvain.be/)

[en-bdiv.html](#)).

Description of the project Individuals often show large phenotypic variation in sexual traits (signals and preferences), which affect their reproductive success. Phenotypic variation may be due to their genotype, to the environment(s) in which their phenotype is present, and to genotype-by-environment interactions (GEIs). The impact of GEIs on sexual selection has only recently drawn the attention of researchers. The project aims at assessing the role of GEIs on the variation observed in sexual traits and tests whether such variation has an adaptive value in mate choice. An integrative approach will allow investigating: 1) multiple phenotypic (visual, olfactory, gustatory) traits to grasp the full phenotype of the organism, forming its “lifestyle”, and 2) the adaptive value of phenotypic plasticity in both sexual signals and preferences in both sexes. More specifically, the project will aim at identifying the extent of plastic and genetic effects in male-female interactions due to signaling and preference for signals. Methods will include behavioral, chemical and statistical analyses to test the extent with which sexual signals and preference depend on individual quality, experience and on environmental conditions (e.g. [1,2]). The species under focus is an African tropical butterfly *Bicyclus anynana*, in which mutual mate choice and ornamentation has recently been shown [3]. This species is a model lab-reared system for studies in phenotypic plasticity, sexual selection and multimodal sexual communication [4]. Several sexually selected signals have recently been identified, namely male sex pheromones in our laboratory [5-7] and the UV-reflectance of male and female forewing eyespot centres [3,5]. We expect the results to contribute significantly to our understanding of the role phenotypic plasticity in sexual traits and other life history traits may play population or species adaption to reproduce in their environment.

Tasks The successful applicant will have the opportunity to develop various theoretical and technical skills in an integrative manner while carrying out the scientific research as detailed in the project description. She/he will have the opportunity to develop additional questions related to the main research project. She/he is expected to produce several manuscripts for publication in international peer-reviewed journals and disseminate this work at international conferences.

Requirements We are looking for a strongly motivated candidate with a MSc degree in Biology, with advanced courses in Evolutionary and/or Behavioral Biology and Ecology. Experience in behavioral and/or chemical ecology and written and oral communication skills in English are a plus, as is the ability to work efficiently, independently as well as in collaboration. The grant

will be delivered upon successful written application (submission deadline: September 3rd 2012) and an oral interview in Brussels (October-November 2012), which can both be done either in English or French. The selected applicant will be supervised throughout the process. The degrees obtained abroad (outside Belgium) or in the Flemish Community will require an equivalence (necessary to provide documentation of passed examinations for 300 credits including a research work of at least six months during master with a scientific report; more information: <http://www.uclouvain.be/-356107.html>). We will review applications immediately and until the position is filled.

Work environment The PhD student will work in a highly active and integrated academic environment, in the research team of Prof. C Nieberding, including Dr. MJ Holveck and other postdocs and PhD students, and will interact with members of other research teams of the Institute, including Prof. H. Van Dyck. Our University is an Equal Opportunity/Affirmative Action Employer, and is in a French-speaking region, but the language for meetings and scientific interactions is English. For background information about our university, see <http://www.uclouvain.be/en-index.html>. Salary ranges between 21.349 to 23.659 euros brutto per year (approx. 1700 euros netto per month) and includes all social benefits such as

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UMontreal MicrobialEvolutionaryGenomics

PhD or MSc in Microbial Evolutionary Genomics at Universit de Montral

Graduate studentships are available in the Shapiro lab in the Biological Sciences department at Universit de Montral. The student will work on either of two projects: (1) the evolutionary dynamics and population genomics of cyanobacterial blooms (funded by NSERC), or (2) genomics of cholera transmission and microevolution (funded by CRC). The Shapiro lab is a new research group, with interests spanning microbial evolution and ecology, population genomics and computational biology. More details are on the lab website:

<http://www.shapirolab.ca/> Applicants should have a strong background (either BSc or MSc) in biology, microbiology, genomics, computational biology or evolutionary biology (or all of the above), and a GPA of 3.6 (out of 4) or higher.

Bilingualism (French and English) is an asset, but not required. Note that Universit de Montral (UdeM) is a francophone university (the largest in Canada, and the second largest in the world), so a certain degree of openness and comfort in French is required. UdeM is located in the heart of Montral, a wonderful city with 4 major universities, great festivals, bars and cafs, and a very reasonable cost of living.

To apply, send the following to jesse.shapiro@umontreal.ca in a single PDF or text document:

- CV - a statement of your background, research interests, and what you would like to work on - the names and contact information for 3 references - copy of your academic transcript

The positions will remain open until filled. Start date is flexible (September 2013, January 2014, Summer 2014')

B. Jesse Shapiro Canada Research Chair // Chaire de recherche du Canada Microbial Evolutionary Genomics // Gnomique microbienne volutionnaire Assistant Professor // Professeur adjoint Department of Biological sciences // Dpartement de sciences biologiques Universit de Montral www.shapirolab.ca jesse.shapiro@umontreal.ca

Jesse Shapiro <jesse.shapiro@gmail.com>

UQueensland MarinePopulationGenet

**Graduate positions in marine population genetics/genomics ** Supervisor: Cynthia Riginos University of Queensland, Australia

I am seeking two outstanding PhD students to undertake projects in marine population genetics and genomics. My research group has broad interests in evolutionary and ecological genetics, biogeography, biodiversity, dispersal, land & seascapes, adaptation and selection (www.cynthiariginos.org) and student projects overlap with many of these areas.

The two projects are: 1) Comparative genomics and physiology of native and invasive mussel species in Aus-

tralia, and 2) Range wide population connectivity and demography of a tidepool fish. Although core aspects of each project are delineated there is much scope for individualization based on student interest and aptitude. Both projects will involve a mix of field work, wet lab work, genetic bench work and computing. Enthusiasm and demonstrated aptitude in written communication and quantitative skills are necessary. Experience/knowledge in the following areas may be helpful although not strictly required: population genetics, physiology, bioinformatics, genomics, spatial analyses, and environmental niche modeling.

****Qualifications**** Applicants must possess a Bachelor's degree with Honours, Master of Science, MPhil or equivalent degrees. International applicants must have published in well-respected peer-reviewed journals. Australian and New Zealand applicants must have received first class Honours degrees. Scholarship schemes at the University of Queensland are highly competitive. The UQ Graduate School website provides further information on the entry requirements for admission to the PhD program (<http://www.uq.edu.au/grad-school/our-research-degrees>) and scholarship details. Individuals successful in gaining a tuition-fee waiver scholarship usually also obtain a living stipend.

****Application process**** Interested candidates should send a cover letter describing their motivation and research interests along with a CV to c.riginos@uq.edu.au by Sept 8 2013. Short-listed candidates will be asked to provide further information and documentation and will be interviewed by video conference. Following, the final applicants will be invited to apply for a PhD at UQ. For further information on the UQ application process please contact the Postgraduate Administration Officer Gail Walter gj.walter@uq.edu.au

****UQ and the School of Biological Sciences**** The School of Biological Sciences is a large and research intensive unit at the University of Queensland, one of Australia's most prestigious Universities. The School has broad expertise across the disciplines of ecology and evolution, molecular and quantitative genetics, developmental biology, behaviour, plant and animal physiology, and conservation biology. Our research programs span all scales of biological organisation, from molecules and cells, to organisms, populations, species and communities, and take advantage of study animal and plant systems in a large variety of habitats (see <http://www.biology.uq.edu.au/> for detailed information on our research programs).

Cynthia Riginos Senior Lecturer School of Biological Sciences University of Queensland St. Lucia, QLD 4072

Australia

tel: +61 7 3365 2152 fax: +61 7 3365 1655
www.cynthiariginos.org c.riginos@uq.edu.au

UTuebingen EvolutionFishColoration

PhD position in Marine Visual Ecology at the University of Tuebingen, Germany: A 3-year PhD position is available in the Animal Evolutionary Ecology group. For the last 6 years, this group has been examining the functions, evolution, and proximate mechanisms surrounding newly-described, natural, red fluorescent coloration in reef fish. This specific project will be supervised jointly by Dr. Michiels and Dr. Melissa Meadows. Its aim is to test the exciting possibility that red fluorescent emission facilitates prey detection. This hypothesis will be assessed in a setup with 40 aquaria, each with an experimentally controlled light environment. Foraging efficiency will be evaluated under light conditions that enhance or suppress the effectiveness of fluorescent emission as a detection mechanism.

The selected student will have the opportunity to use state-of-the-art spectrometry, photography, computer-programmed lighting, and extensive aquarium equipment and to work in an international environment at one of Germany's Universities of Excellence. The student will be encouraged to develop similar lines of inquiry related to the main project, and will be expected to produce manuscripts for publication in top scientific journals.

We seek a highly-motivated candidate with a MSc or 4-year BSc in Biology and previous research experience, preferably in animal behavior, animal coloration or visual ecology. We use English as our working language, and the project will be supervised in part by an American postdoc. Therefore, English language skills are required, and German proficiency is not necessary within the scope of the scientific working environment.

The pay scale classification refers to the German federal public service scale 13 TV-L 65%. Disabled candidates will be given preference over other equally qualified applicants. The University seeks to raise the number of women in research and teaching and therefore urges qualified women to apply.

Questions about the position may be emailed to melissa.meadows@uni-tuebingen.de.

Please send a single PDF to office.michiels@biologie.uni-tuebingen.de including a motivation letter as well as a full CV plus two letters of reference. Closing date for application is 15 September 2013.

Prof. Dr. N. Michiels, University of T¹bingen, Faculty of Science, Institute of Evolution and Ecology, Animal Evolutionary Ecology, Auf der Morgenstelle 28, 72076 T¹bingen, Germany

“Dr. Melissa Meadows” <melissa.meadows@uni-tuebingen.de>

UTulsa InvasiveInsectEvolution

Graduate research opportunity to study the molecular ecology of invasive insects

Department of Biological Sciences - University of Tulsa
A graduate student at the M.S/Ph.D level (3-5 years) is sought to work with Dr. Warren Booth in the Department of Biological Sciences at The University of Tulsa, Oklahoma. The successful applicant will develop a thesis research project focused on the evolutionary dynamics and population structure of invasive insects.

Research will be addressed using microsatellite markers, mtDNA sequencing, RAD-SEQ, and Transcriptomics.

Within the department we have LiCor and ABI DNA sequencers and an Illumina MiSeq next gen sequencer.

Applicants for this position should have a strong background in population genetics, molecular ecology, evolutionary biology, or ecology, and meet the admission requirements for the Department of Biological Sciences graduate program. (<http://www.utulsa.edu/~academics/colleges/college-of-engineering-and-natural-sciences/departments-and-schools/Department-of-Biological-Science.aspx>). Previous lab experience would be beneficial.

Applications should include the following: 1) A letter of interest (not exceeding two pages). 2) A curriculum vitae. 3) Names and email addresses for at least two academics/researchers willing to provide a letter of recommendation 4) Copies of undergraduate/graduate transcripts 5) Electronic copies of published manuscripts, if any.

For more information about this opportunity, contact Dr. Booth (warren-booth@utulsa.edu). Due to finan-

cial restrictions, we are unable to support the financial outlay of international VISA's. Therefore, US citizens only at this time. Anticipated start date is January 2014, however this may be sooner or delayed if required. Anticipated annual stipend is \$19,000 and includes tuition and medical

Additional information regarding our research can be found at my lab website - www.booth-lab.org Dr. Warren Booth Assistant Professor of Molecular Ecology Department of Biological Sciences University of Tulsa 315 Oliphant Hall Tulsa, OK74104

Tel. (918) 631-3421 - Office (918) 631-3136 - Lab Departmental website Lab Website

“Booth, Warren” <warren-booth@utulsa.edu>

UValencia EnvironmentAdaptation

Adaptation of rotifers to unpredictable habitats

PhD fellowship position (ICBiBE, University of Valencia, Spain)

The Evolutionary Ecology laboratory at the Cavanilles Institute (ICBiBE) is developing research on zooplankton in fluctuating environments (< http://www.uv.es/biodiver/c/inve/grup_eco_evolut.htm > ecoloevol.ICBiBE). The Spanish Ministry of Economy and Competitiveness (MINECO) has open a call to grant a fellowship associated to the ongoing project 'Adaptation to environmental unpredictability in rotifer populations (CGL2012-30779)', led by María José Carmona (maria.j.carmona@uv.es) at the ICBiBE.

The project focuses on the hypothesis that unpredictability selects for traits related to sexual reproduction patterns and timing of dormancy breakage. An advantage of higher and earlier sex investment in unpredictable environments is expectable. Additionally, environmental unpredictability is expected to select for risk spreading through intermediate diapausing egg hatching proportions. These hypotheses will be tested in field and laboratory populations, using correlational evidence and selection analysis. Besides using population ecology techniques, we will take advantage of next-generation sequencing technologies to explore the genetics of life cycle adaptation to environmental unpredictability. Therefore, a strong background in population ecology and evolution is required to be granted with the above mentioned fellowship. Skills in statis-

tics, population genetics, molecular biology and computer programming will be welcome.

Candidates for the four-year fellowship interested on performing a thesis within the outgoing project must have a degree which allow them the access to doctorate studies at the University of Valencia (<http://www.uv.es/uvweb/universitat/ca/-estudis-postgrau/doctorats/programes-doctorat-rd-99/2011/doctorats-mencio-excel-lencia/programes-doctorado-biodive rsidad-biologia-evolutiva-1285888753911/Titulacio.html?id85887567209&plan_tilla=UV/Page/TPGDetail&p2=5-1> doctorado-biodiver-biol-evol). The date in which that degree was obtained should be later than January 1, 2010.

Application for the fellowship available on MINECO website from August 26 to September 10, 2013. For more information visit this link: call <<http://www.idi.mineco.gob.es/portal/-site/MICINN/memitem.dbc68b34d11ccb5d52ffeb801432ea0/?vgnextoidheb71d255dcf310VgnVCM1000001d09140R01E>>

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Dra María José Carmona Navarro Grupo de Ecología Evolutiva Institut Cavanilles Biodiversitat i Biologia Evolutiva Universitat de Valencia. Apartado Oficial 22085 46071 Valencia

e-mail: Maria.J.Carmona@uv.es Tel: +34 963543665 fax: +34 963543670

M José Carmona <maria.j.carmona@uv.es>

UZaragoza Spain Brachypodium-ComparativeGenomics

Dear colleagues,

The Spanish Ministry has officially announced a call for PhD grants associated to research projects. One of the grants has been allocated to our project. The deadline for applications will be from the 26th of August to the 10th of September 2013. Applicants should have a degree in Biology, Agriculture or similar formation (obtained from 1st.January.2010 onwards). Master/graduate students are welcome. The subject of the PhD thesis would be "Comparative genomics and phylogenomics of Brachypodium". The thesis will be supervised by Prof. Pilar Catalan and Dr. Bruno Contreras at the University of Zaragoza-CSIC, Spain. Please find more details in the attached announcement.

Prof. Pilar Catalan Escuela Politecnica Superior de Huesca Universidad de Zaragoza Ctra. Cuarte km 1 22071 Huesca (Spain) phone +34 974232465/+34 974239301 fax +34 974239302

Pilar Catalan <pilar.catalan09@gmail.com>

UZurich 2PhD EvolutionaryGeneticsOfAdaptation

Institute of Evolutionary Biology and Environmental Studies University of Zurich, Switzerland

2 PhD positions in Evolutionary Genetics of Adaptation

I am seeking for self-motivated PhD candidates with keen interests in evolutionary biology to work on 1) a theory and 2) an experimental project focusing on the genetics of adaptation to environmental change. Our lab is expanding and joins the Institute of Evolutionary Biology and Environmental Studies at the University of Zurich, Switzerland (<http://www.ieu.uzh.ch>) this coming Fall 2013. We have broad interests in evolutionary and ecological theory as well as in experimental and data-driven studies.

The two positions are supported by a Swiss SNF professorship grant for three years and are expected to start no latter than beginning of 2014. Gross per annum salary starts at 41,400CHF, up to 47,400CHF.

deadline for application: September 6th, 2013 (positions open until filled)

1) Theory project

The focus of our research is understanding how the genetic characteristics of living systems affect the process of adaptation and how such characteristics may be molded by evolutionary forces. More specifically, we study both the adaptive consequences (constraints) and the evolution of gene pleiotropy. The context of this project is broad and the details will be worked out with the candidate. Possible topics are: - co-evolution of gene pleiotropy and gene expression, - evolution of the genotype-phenotype map of correlated traits (e.g., evolutionary dynamics of the G-matrix, epistatic pleiotropy and the evolution of modularity of the g-p map), - eco-evolutionary dynamics of species' ranges under shifting environmental conditions, using a multivariate quantitative genetics approach in a spatially and genetically explicit context.

Required are a true enthusiasm for, and documented skills in modeling, either in population/quantitative genetics, or ecology. The project will mix computational and mathematical approaches. Knowledge of a programming language (esp. C/C++) and acquaintance with *NIX operating systems are recommended. The lab develops and maintains Nemo, an individual-based simulation platform (<http://nemo2.sourceforge.net>) that will serve as the basic computational simulation tool for the project.

2) Experimental evolution in *Tribolium castaneum*

We study the genetics of adaptation using experimental populations of *T. castaneum* adapting to contrasted environmental conditions. Several experimental lines of *T. castaneum* have been evolved in the lab for ca. 12 generations and high-throughput transcriptomics data are available for a subset of the lines. The RNA-seq data will be used to find candidate genes for adaptation to thermal and humidity gradients. Expression level of candidate genes will be assessed using high-throughput RT-qPCR. Gene (co)expression patterns across environments will be associated with phenotypic data to unravel the genetic basis of adaptation and estimate the adaptive capacity in the experimental lines. The experimental setting will be used to test hypotheses about the evolution of local adaptation in the presence of gene flow using multivariate quantitative genetics theory. A lab technician is associated with this project.

Required are strong self motivation and capacity to work hard on a long-term evolution experiment, and prior practice with molecular techniques (e.g., DNA, RNA extractions).

General requirements are a Diploma/Master degree in a relevant discipline, strong quantitative skills, and background in evolutionary population/quantitative genetics, or evolutionary ecology. The ideal candidates will have strong oral and written communication skills in English and the ability to work and share ideas in a collaborative environment. Knowledge of German is not essential but may help with everyday life. The students will have the opportunity to learn cutting edge next generation sequencing techniques, new modeling techniques, and to work in a dynamical research environment. The Institute hosts two seminar series with high-caliber international speakers and works in close collaboration with scientists in the neighboring research institutions (ETH, EAWAG, WSL, etc.) The two PhD positions will be embedded in the Zurich Life Science Graduate School's program in Evolutionary Biology (<http://www.lifescience-graduateschool.ch/>).

Interested students should send their application package to frederic.guillaume@env.ethz.ch with "PhD

project 1" or "PhD project 2" on the subject line. The package must include, in one PDF file, 1) a cover letter expressing research interests in accordance with the position, 2) a complete CV, and 3) reference letters of two academic referees. Please also attach low resolution copies of official academic

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

UppsalaU SpeciationGenomics

Ph.D. Position in Speciation Genomics

*a**t the Department of Ecology and Genetics, EBC, Uppsala University, Sweden.*

A 4-year Ph.D. position in speciation genomics is available in the research group of Dr. Jochen Wolf at the Evolutionary Biology Centre in Uppsala, Sweden. Starting date as soon as possible or as agreed upon.

*Background.*Understanding the mechanistic underpinnings of speciation remains one of the major challenges in fundamental biological research. The genomic revolution is progressing at full speed, and for the first time in history we are equipped with the necessary tools to investigate the genomic architecture of speciation at base-pair resolution in wild organisms of our choice. In our lab, we use crows and ravens of the genus *Corvus* as a model system. The genus is characterized by the phylogenetically independent recurrence of a pied colour-pattern across a general all-black plumage in the clade. Building on the idea that colour polymorphism can promote speciation, black and pied species pairs can be positioned along a time line representing different stages of the speciation process. This comparative framework allows us to study the genetics of speciation across different stages of species divergence and provides a promising entry point to the fascinating theme of parallel evolution.

*The project.*More specifically, we use a combination of field work, gene expression quantification, population genetic and comparative genomic approaches to understand the genetic basis of the speciation process. The successful applicant will work with high quality assemblies of several species in the genus and has access to extensive RNA-seq data and full-genome re-sequencing

data of > 120 individuals from broad population sampling. Depending on the qualification and interests of the PhD candidate, this data can be used to characterize the genomic landscape of speciation through time, use pattern of genetic variation to understand the species' demographic history, identify candidate genes potentially promoting speciation, address questions like the role of alternative splicing / allele-specific expression in the speciation process or ask questions of molecular evolution in crows. The project will mostly involve the analysis of large next generation sequencing datasets, but also offers opportunities for field or lab work. At a later stage, the candidate may also choose to participate in pinniped (seals, sea lion, walrus) genomics projects that are currently being developed in the lab. If you have any further questions visit our website:

<http://www.ebc.uu.se/Research/IEG/evbiol/-research/Wolf> *The environment.*The Evolutionary Biology Centre (<http://www.ebc.uu.se/>) is one of the world's leading research institutions in evolutionary biology. It is part of Uppsala University which has been ranked first place among all European Universities in the subject of biology (CHE European ranking) and successfully bridges a broad variety of disciplines in the biological sciences. It is placed in the beautiful small town of Uppsala, that offers rich opportunities in cultural and outdoor activities and is strongly influenced by the 40 000 students living here. Sweden's capital Stockholm is less than an hour's train ride away. Our lab is part of the Department of Ecology and Genetics that excels in many aspects of genetics and evolution and offers an inspiring international atmosphere. As a member of the Science for Life Laboratory (<http://www.scilifelab.se/>) we have excellent access to advanced laboratory infrastructure and high performance computing resources.

*Qualifications:*If you are enthusiastic about evolutionary biology, have a good understanding of population genetic and (molecular) evolution theory, and are skilled in bioinformatic programming you are most welcome to apply for the position. To apply for the position you must hold a master of science (or your national equivalent) in Biology or related fields.

*Conditions. *The PhD training comprises four years of full time research and studies. The successful candidate will receive a fellowship the first year and a PhD-student position year 2-4. The position can be combined with up to 20% of teaching assistantship, which will then prolong the position accordingly.

*How to apply.*Your application should include:

(1) a letter of motivation describing your research in-

terests, relevant previous experience and specific motivation for the position,

(2) a short summary of your Master's (or comparable) studies,

(3) CV including contact details of two scientific professionals that can provide a personal reference letter,

(4) and attested copies of your academic degree(s).

*You are welcome*to submit your application *no later than October

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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>

WashingtonStateU EvolutionTasmanianDevil

PhD Assistantships Available

Washington State University

School of Biological Sciences

We are seeking PhD students to work on population, landscape and evolutionary genomics of Tasmanian devils and Tasmanian devil facial tumor disease. This NSF-funded international collaboration between the US, UK and Australia builds on over 15 years of research tracking the spread of this unique infectious cancer across Tasmania and consequent endangerment of the iconic Tasmanian devil. Students will have an unprecedented opportunity to capitalize on the availability of numerous genetic resources available to develop a competitive PhD project. Graduate students will work in the lab of Dr. Andrew Storfer (www.wsu.edu/~storfer) in the Washington State University School of Biological Sciences. Positions are available starting Spring or Fall semester, 2014. Please contact Andrew Storfer (astorfer@wsu.edu) for more information about the project, the lab, or the program.

The WSU School of Biological Sciences provides research specialties in ecology, evolution, molecular biology, physiology, and systematics for plant and animal systems. With 34 research faculty and 50+ graduate students, SBS provides an interactive graduate experience, including weekly formal and informal research seminars and a variety of reading groups. Nu-

merous awards and fellowships are available, including significant funding for off-campus research, travel to meetings, and field work. All students are guaranteed funding, a tuition waiver and health insurance upon admission to the program. For more information on our graduate program, or to apply, please see <http://sbs.wsu.edu/grad-studies/index.html> . –

Andrew Storfer, PhD Eastlick Distinguished Professor Associate Director for Graduate Studies School of Biological Sciences Washington State University Pullman, WA 99164 USA Phone: (509) 335-7922 Fax: (509) 335-3184 astorfer@wsu.edu www.wsu.edu/~storfer andrew.storfer@gmail.com

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AlbertEinsteinCollegeMedicine ComputationalBiology

The Albert Einstein College of Medicine, one of the leading medical schools in New York City, is seeking to fill multiple tenure track faculty positions in the newly

formed Department of Systems and Computational Biology. Established in April 2008, the main goal of the new department is to advance our understanding of living systems by developing theoretical, computational and experimental approaches to study complex biological systems.

The College has 750 medical students, 325 graduate students and 360 post-doctoral fellows in training and boasts a strong research faculty covering broad areas of experimental biology, offering outstanding opportuni-

ties for collaborative interactions. The 200,000 square foot Center for Genetic and Translational Medicine at Einstein, which opened in late 2007, locates computational, systems and experimental scientists in physical proximity to foster interdisciplinary communication and collaboration. Highly competitive start-up packages are available.

We seek outstanding scientists with broad experience and demonstrated collaborative interactions with experimental or clinical investigators.

Candidates should have strength in a physical, mathematical or computational field at the Ph.D. or equivalent level. Experience applying these skills to a biological or biomedical area (demonstrated through publications or support) is also required. Areas of interest include, but are not limited to: Modeling cellular processes, such as signaling, transcriptional regulation and immune response; Pathway analysis; Genetic networks; Functional proteomics and genomics; Evolution of structure and function; Computational neuroscience; Mathematical and computational modeling of complex traits and diseases; QM and dynamic approaches to enzymatic catalysis and drug design.

Applicants should send a letter of interest, C.V., statement of research and teaching interests, and names of three referees, in electronic format to:

Systems and Computational Biology Search Committee
Albert Einstein College of Medicine Jack and Pearl Resnick Campus
1300 Morris Park Ave. Price Center, Rm. 153
Bronx, New York 10461

E-mail Address: sysbio@einstein.yu.edu Subject line should be: SCB Faculty Search

Human Resources <mmcder2010@hotmail.com>

CentralFloridaU IntegrativeBiology

Faculty Position in Integrative Biology

The Department of Biology at the University of Central Florida invites applicants for a tenure-track faculty appointment in Integrative Biology at the rank of Assistant Professor. All scales of research are welcomed from subcellular processes to interactions among organisms or their environment. The candidate's research should utilize innovative approaches and must possess an overarching evolutionary or ecological perspective while focusing on cellular, developmental, genetic or physiolog-

ical processes. Candidates must have a demonstrated ability or strong potential to establish and maintain a vigorous, extramurally funded research program. The successful candidate will contribute to our core undergraduate and graduate programs (Master's and Ph.D.) by teaching molecular, cellular and/or genetic themed courses and by mentoring graduate students. The University of Central Florida maintains a strong research emphasis with competitive startup funds and teaching loads. UCF is designated by the Carnegie Foundation as a research university of very high activity (RU/VH), and is one of the top five 'Up-and-Coming Schools' as published in the 2012 U.S. News and World Report. See <http://biology.cos.ucf.edu> for departmental details.

Successful candidates must have a Ph.D. and appropriate post-doctoral training. Applicants must complete an online job application at www.jobswithucf.com for position #39286. In a separate e-mail, applicants must send a single PDF document that includes a letter of intent, curriculum vitae, a two-page statement of research plans, and a one-page teaching philosophy statement to Dr. Ken Fedorka, Search Chair (bio-search@ucf.edu) and arrange for three letters of recommendation to be sent to the above email address. Review of applications will begin October 1st, 2013, with an anticipated start date of August 2014. Groups traditionally underrepresented in the Biological Sciences are encouraged to apply. The University of Central Florida is an Affirmative Action/Equal Opportunity Employer. As an agency of the State of Florida, all application materials and selection procedures are available for public review.

Ken Fedorka Associate Professor Department of Biology University of Central Florida Orlando, FL 32816
Voice: 407-823-6685 Fax: 407-823-5769 E-mail: fedorka@ucf.edu

Kenneth Fedorka <Kenneth.Fedorka@ucf.edu>

EastCarolinaU EvolutionDisease

Faculty Position in the Ecology and Evolution of Disease

The Department of Biology at East Carolina University (the third largest university in the UNC system) invites applications for a tenure-track position at the Assistant Professor level in ecology and evolution of disease, including host-parasite interactions; to begin Aug. 18, 2014. Possible research approaches include integration of empirical studies with theory, or of ecological and

evolutionary investigations; but all qualified candidates are encouraged to apply. The successful candidate is expected to establish an externally funded research program, advise undergraduate, Masters and Doctoral level students, and help promote diversity/equal opportunity in higher education. Candidates will have excellent opportunities to establish collaborations within the Department and/or with other academic units (e.g., Brody School of Medicine, College of Technology and Computer Science, Institute for Coastal Science and Policy, Center for Biodiversity, etc.). Appointment at the Associate Professor or Professor level may be considered for a candidate with a well-established record of teaching and research.

Applicants must complete a candidate profile and submit a letter of application, statements of research interests and of teaching interests and philosophy, and a curriculum vitae online at www.jobs.ecu.edu using the position number 001682, and arrange to have three current letters of reference sent to: Ecology and Evolution of Disease Search Committee Chairs, Department of Biology V Mail Stop 551, Howell Science Complex, East Carolina University, Greenville, NC, 27858-4353 or emailed to ruggierol@ecu.edu. Official transcript and original hardcopy reference letters are required upon employment.

Inquiries can be directed to Dr. Trip Lamb (lamba@ecu.edu) or Dr. Kyle Summers (summersk@ecu.edu), Search Committee Chairs, Department of Biology, East Carolina University, Greenville, NC, 27858-4353. Screening of applications will begin on November 15 and continue until the position is filled.

East Carolina University is an Equal Opportunity/Affirmative Action University that accommodates individuals with disabilities. Individuals requesting accommodation under the Americans with Disabilities Act (ADA) should contact the Department for Disability Support Services at [252] 737-1016 (Voice/TTY). Proper documentation of identity and employability are required at the time of employment.

Kyle Summers Dept. of Biology East Carolina University Greenville, NC 27858 252-328-6304

“Summers, Kyle” <SUMMERSK@ecu.edu>

Eawag Switzerland
EvolutionaryGenomicsFish

Eawag, the Swiss Federal Institute of Aquatic Science and Technology, is a Swiss-based and internationally networked aquatic research institute within the ETH domain (Swiss Federal Institute of Science and Technology). It is committed to the ecologically, economically and socially responsible management of water resources and aquatic ecosystems.

The Fish Ecology & Evolution Department located in Kastanienbaum (Lucerne) has a vacancy for a Group Leader in Ecological and Evolutionary Genomics of Fish (Tenure Track)

Applications are sought from individuals with an excellent research record in ecological or evolutionary genomics, an earned doctorate in a relevant field (e.g., genetics or evolution), and an interest in applying genomic research to understanding the genetic basis of variation in the behavior, ecology and adaptations of fish. Experience with studying fish is desirable but not absolutely required.

The Center for Ecology, Evolution & Biogeochemistry (<http://www.eawag.ch/forschung/cc/ceeb/-index.EN>) and the Department of Fish Ecology and Evolution (<http://www.eawag.ch/forschung/-fishec/index.EN>) at Eawag provide excellent opportunities for collaborative research. The CEEB is a cluster of research groups dedicated to the integration of evolutionary biology and ecosystem science. The Department is also closely affiliated with the Institute of Ecology & Evolution at the University of Bern through the joint appointment of Prof. Ole Seehausen. The successful candidate should take advantage of this collaborative environment and of Eawag's world-class infrastructure and facilities to develop a strong research program, acquire third party funding to support it, recruit PhD and Masters students, and contribute to Eawag's mandate in teaching and expert consulting. A successful conclusion of the tenure track will lead to a permanent position at Eawag.

Applications must be submitted by 30 September 2013 and should include an application letter describing your interests and their relevance to this position, a CV and list of publications, and the names and contact information for three references. Applications from women are especially welcome. Applications from mid-career and established researchers are encouraged; the level of the appointment will be commensurate with experience. Eawag is committed to promote equal opportunities for women and men and to support the compatibility of family and work. The earliest starting date for the position is anticipated to be 1 April 2014. For further information, please contact Prof. Ole Seehausen (ole.seehausen@eawag.ch).

We look forward to receiving your application. Please click on the link below to send your application, any other way of applying will not be considered. The link will take you directly to the application form. <http://internet1.refline.ch/673277/0213/++publications++/-1/index.html> Ole Seehausen ole.seehausen@eawag.ch
http://www.eawag.ch/forschung/fishec/-schwerpunkte/biodiversity_dynamics/index_EN
 Ole.Seehausen@eawag.ch

ployer and requires compliance with the Immigration Control Reform Act of 1986.

frank.stewart@biology.gatech.edu

Kalahari Field Research Assist

GeorgiaTech Evolutionary Biology

The Georgia Institute of Technology is one of the top ranked educational/research institutions in the country and is rated as one of the best places to work. Georgia Tech aims to meet several grand challenges in the life sciences based upon current strengths and areas of growth, including Environment & Health, Biomedical Therapies, and Complex Biological Systems. Research in these interdisciplinary fields at Georgia Tech benefits from strong interactions between biologists and faculty of diverse disciplines including engineering, computing, policy, and other sciences. As part of substantial expansion in the biological sciences, the School of Biology is seeking applications for multiple tenure-track positions from candidates whose research would thrive in this community.

* Assistant or Associate Professors in Biology. We welcome applications from candidates in all research areas relevant to activities in the School of Biology (<http://www.biology.gatech.edu/research/>), including those working in synthetic & chemical biology, predictive health, or the genomics of health & behavior.

* Endowed Full Professor in Experimental Integrative or Structural Biology. We are seeking an outstanding senior investigator in the molecular biosciences. Fields of interest include the temporal, structural and spatial understanding of cellular biochemistry, the dynamics of cellular organization and function, and protein interactions.

Candidates should submit an application online at <http://searches.biology.gatech.edu>, including a letter of application, curriculum vitae, statement of research interests and plans, and contact information for three references. Review of applications begins October 1, 2013 and will continue until positions are filled.

Georgia Tech is a unit of the University System of Georgia and an Affirmative Action/Equal Opportunity Em-

FIELD RESEARCHERS NEEDED

Cooperation in Sparrow Weaver Societies Kalahari desert, South Africa

3 positions: approx 15th Oct 2013 V 30th April 2014 (flexible)

We are seeking three enthusiastic research assistants to join our team studying white-browed sparrow weavers in the Kalahari desert, South Africa. The project is investigating the social dynamics of cooperative breeding, by asking evolutionary and mechanistic questions about parenting, cooperation and dispersal. The project is led by Andy Young, University of Exeter, and is based in Tswalu Kalahari Reserve where we have been studying 30+ groups for the past 3 years. For more information on the sparrow weaver project see www.animalsocieties.org. The positions will entail work during the peak breeding season (15th October V 30th April; with some flexibility). The fieldwork will involve the collection of key behavioural and life-history data from eggs, chicks and birds, and the capture and processing of adult birds. Applicants should be enthusiastic, hardworking and physically fit and hold a driving licence. Previous field experience (particularly any bird handling/ringing experience) is desirable, but not essential V training in all field skills will be provided. Food and accommodation expenses will be covered while in the field and a contribution can also be made towards travel costs.

Please email a CV & covering letter ASAP (by 18th August latest) to sparrowweaverproject@gmail.com

Andrew Young BBSRC Research Fellow Centre for Ecology and Conservation University of Exeter Cornwall Campus Tremough, Cornwall TR10 9EZ

Tel: +44 1326 254241 www.animalsocieties.org

“Young, Andrew” <A.J.Young@exeter.ac.uk>

MasseyU Evolutionary Genetics

Dear EvoDir,

We are currently advertising a Genetics faculty position (lecturer, equivalent to an Assistant Professor position in the US) in the Auckland campus of Massey University in New Zealand.

Candidates in all areas of Genetics are welcome to apply, and the successful candidate will join the growing biology faculty on the Auckland campus of Massey University. Auckland is one of the most livable cities in the world, and this position is based in the multi-disciplinary Institute of Natural and Mathematics Sciences (INMS).

We are looking for someone with a PhD, experience in undergraduate teaching and/or postgraduate supervision, together with a demonstrably high quality research track record in Genetics. We want someone who will establish their own research laboratory and undertake research of an international calibre, as well as supervise postgraduate students. The successful candidate will also teach in the new Genetics major that has just been established on this campus, as well as into an exciting new interdisciplinary degree, the Bachelor of Natural Sciences. We are seeking someone who will actively seek external funding, and who will provide administrative and professional service to the University and broader academic or professional communities. Candidates whose research program will complement and enhance the existing genetics research capabilities within INMS, which currently has strengths in yeast genetics, microbial genetics and evolutionary genetics, are particularly encouraged to apply. The ideal candidate will also establish collaborations with researchers from other disciplines within INMS, which has strengths in Ecology, Evolutionary Biology, Computational Biology, Computer Science, Statistics, Theoretical Chemistry, and Physics, as well as more broadly.

If you have any questions about the position, then please contact Dr. Austen Ganley (a.r.ganley_at_massey.ac.nz).

For more information about the position and to apply, please visit the position's webpage: <http://jobs.massey.ac.nz/PositionDetail.aspx?p=3D7945> (Note: if this link doesn't work, please navigate to the position from here: <http://jobs.massey.ac.nz/>

<Content/Massey/Welcome.aspx> Mailing list filters sometimes modify URLs)

Best regards,

Austen

– Austen Ganley (PhD) Senior Lecturer, Albany Genetics Major Leader Room 14.05 Institute of Natural & Mathematical Sciences Massey University (Albany) Auckland NEW ZEALAND

Website: <http://rdnaome.org> < <http://rdnaome.org/> > <http://www.massey.ac.nz/~aganley/> Phone +64-9-414-0800 ext 41512 Fax +64-9-441-8142

Mailing address: Building 11, INMS Massey University (Albany) Private Bag 102-904 North Shore Mail Centre Auckland NEW ZEALAND

MaxPlanckInstOrnithology AvianLabAssist

LABORATORY ASSISTANT needed for songbird recording analysis at the Max Planck Institute for Ornithology

Website: http://www.orn.mpg.de/2622/-Department_Kempnaers./ /

Location: Seewiesen, Bayern, Germany.

Duration: 5 months (from September 2013 to January 2014).

Job description: The assistant will help extracting data from song recordings of a variety of songbirds collected during the breeding season by Arnaud Da Silva, PhD Student at the Max Planck Institute for Ornithology (website: http://www.orn.mpg.de/206596/Arnaud_Da_Silva). The project is about the impact of artificial night lighting (light pollution) on dawn singing. Automated sound recordings were obtained each morning during a period of 3 months (March to May) in eight forest patches with experimental night lighting. The assistant will help extracting data from these recordings. Likely species of interest are: the Great Tit (/Parus major/), the Blue Tit (/Cyanistes caeruleus/), the Common Chaffinch (/Fringilla coelebs/), the European Robin (/Erithacus rubecula/), the Common Blackbird (/Turdus merula/), the Song Thrush (/Turdus philomelos/), the Eurasian Wren (/Trogodytes troglodytes/), the Dunnock (/Prunella modularis/) and late migrants such as the Pied Flycatcher (/Ficedula hypoleuca/), the

Eurasian Blackcap (*Sylvia atricapilla*), the Common Redstart (*Phoenicurus phoenicurus*) and the Woodlark (*Lullula arborea*).

Qualifications: Candidates should have a BSc in Biology or a related field. They must have good ornithological knowledge, especially regarding bird vocalizations. Applications from candidates that are very enthusiastic about learning bird songs will also be taken into account. If possible, candidates should have some experience with computer analysis although the use of the sound analysis software (i.e. Song Scope) is rather straightforward. The ideal candidate is highly motivated, rigorous, careful about data, and able to work well in collaboration with the PhD student. Non-EU applicants should make sure that they are eligible for an extended stay in Europe.

This is a full-time position. The assistant will obtain free accommodation in the guesthouse of the Max Planck Institute for Ornithology in Seewiesen plus a small stipend to cover living expenses.

Applicants should send (1) a cover letter detailing their motivation and (2) a short resume or CV to Arnaud Da Silva (email: asilva@orn.mpg.de) as soon as possible. The successful candidate will be selected after an interview.

Arnaud DA SILVA

PhD Student Max Planck Institute for Ornithology Department of Behavioural Ecology & Evolutionary Genetics Eberhard-Gwinner-Strasse 7, 82319 Seewiesen, Germany

Tel. 0049 (0) 15223230588

asilva@orn.mpg.de

Arnaud Da Silva <asilva@orn.mpg.de>

MichiganStateU EntomologyChair

Michigan State University seeks a chairperson for the Department of Entomology, and the Position Description is attached. We are contacting your organization as part of our efforts to distribute this document broadly. We hope you will assist by forwarding this announcement, and also highlighting this exciting opportunity to suitable candidates.

With best wishes,

Rufus Isaacs Search Committee Chair Department of

Entomology Michigan State University 202 CIPS, 578 Wilson Road East Lansing, MI 48824, USA

“Smith, Courtney” <smit1542@cns.msu.edu>

NHM ImperialCollege London BiodiversityOmics

Imperial College London

Faculty of Natural Sciences

Department of Life Sciences

Academic Position in Biodiversity Omics (Lecturer/Senior Lecturer/Reader/Chair)

Joint appointment between Imperial College London and the Natural History Museum

Lecturer salary in the range £45,040 - £50,190 per annum Senior Lecturer/Reader minimum starting salary: £55,340 per annum Chair minimum starting salary: £70,350 per annum

Imperial College London’s Department of Life Sciences and the Natural History Museum’s Department of Life Sciences are looking to make one academic appointment in the broad area of biodiversity omics. The successful applicant will be employed as a member of academic staff in the Department of Life Sciences at Imperial College London, and the post will be based primarily at Imperial’s Silwood Park Campus (<http://www3.imperial.ac.uk/silwoodparkcampus>). The successful candidate will also be a member of research staff of the Department of Life Sciences at the Natural History Museum.

The appointee will contribute to the missions of the Departments of Life Sciences at both Imperial College London and the Natural History Museum, and further develop and promote the College’s and Museum’s work in biodiversity omics. The scientific goal is to improve fundamental scientific understanding of biological diversity and systems. In addition, you will be required to contribute to joint postgraduate teaching that is based at the Natural History Museum.

The Departments are seeking to appoint a candidate with expertise in relevant areas of biodiversity science. We anticipate that this appointment will be at Lecturer level. However, there is potential for the appointment to be made at more senior academic levels (Senior Lecturer/Reader/Chair), and we welcome applications

from more senior researchers.

Reporting to the Deputy Head of the Department of Life Sciences at Imperial College, you will be expected to identify opportunities in biodiversity omics and contribute to teaching and administration within both Departments. You will be required to raise financial support, manage your own innovative research programme of international quality in the areas of biodiversity omics that would expand on and complement existing activities within the Departments of Life Sciences at Imperial College London and the Natural History Museum.

The successful candidate will be expected to have a good honours degree and a doctorate (or equivalent) in a relevant subject area. You will also have an international reputation for research and innovation in biodiversity omics commensurate with the current stage of your career, underpinned by a record of first-class journal publication. You must also be able to demonstrate the potential to raise significant research funding from UK and EU sources to maintain and enhance the College's leading research activities. Experience of working in an interdisciplinary environment is essential. Experience of teaching at undergraduate and Masters' level, and postgraduate student supervision, are not essential, but would be an advantage. You must have excellent interpersonal, verbal and written communication skills, with an ability to convey ideas and concepts clearly and effectively to a range of audiences through a variety of methods and media. You will also have the ability to lead a research team, managing the finances and your staff. You will also be expected to demonstrate the ability to communicate and inspire students as you will be expected to contribute to our undergraduate and postgraduate teaching programmes. For appointment to Senior Lecturer/Reader, in addition to the above, candidates must also have an exceptionally strong research record in biodiversity omics or a closely related subject, and a proven track record of securing research funding. You will also be expected to have extensive experience in postgraduate teaching and undergraduate teaching across a range of subjects within (or close to) the fields of Biodiversity Omics, together with a track record of successful postgraduate student supervision and postdoctoral mentoring.

For appointment to the position of Chair, in addition to the above, you will also be expected to have an international reputation for your research, and strong leadership qualities in areas which enhance and extend those of the Group.

The potential for productive research collaboration with existing staff at the College and the Museum, and

for facilitating collaboration within between these institutions more broadly, will also be carefully assessed.

For informal queries, please contact Professor Vincent Savolainen (Deputy Head of Life Sciences at Imperial College London, v.savolainen@imperial.ac.uk) and/or Professor Ian Owens (Director of Science at the Natural History Museum, i.owens@nhm.ac.uk).

Holders of independent fellowships are welcome to apply.

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

NewMexicoStateU PlantEvolution

Plant Biologist

The Department of Biology at New Mexico State University invites applications at the Assistant Professor level in Plant Biology (9 month, tenure track position). Applicants for this position must have a Ph.D. in Biology or a related field, a strong track record of research productivity commensurate with experience, a demonstrated commitment to undergraduate and graduate education and a minimum of one year of postdoctoral experience. The successful candidate will be expected to develop an externally-funded research program and to teach courses in plant biology and related areas at the undergraduate level as well as graduate courses in his/her area of expertise. Applicants from any area of plant biology will be considered, including physiology, ecology, cell/developmental biology and microbe interactions.

Applicants should submit a single pdf consisting of a cover letter, CV, and concise (2-pages each, maximum) statements of (a) research interests and accomplishments and (b) teaching philosophy and experience by email to biologysearch@nmsu.edu. Enquiries may also be directed to this address. Applicants should arrange to have three letters of reference sent by e-mail to the same address. Preference will be given to applications completed (including references) by the initial review date of October 18, 2013. Applications lacking required components may not be reviewed.

NMSU is a public, land grant, minority-serving institution. The Department of Biology is a thriving commu-

nity of 24 faculty members supporting undergraduate majors in Biology, Microbiology, Genetics and Conservation Ecology. More than 70 graduate students are currently enrolled in MS and PhD Biology programs. The department supports core facilities for microscopy, isotope chemistry, tissue culture, next-generation sequencing as well as natural history collections and the Jornada Basin Long Term Ecological Research site. Opportunities exist to participate in NIH-, NSF- and HHMI-sponsored training programs. Las Cruces is located in the northern Chihuahuan Desert, a botanically rich and topographically diverse area with many endemic species. Large tracts of public lands are accessible for field research and outdoor activities.

Details of the position (Requisition # 2013002155) are available at <http://www.nmsu.edu/~personel/postings/faculty/>. NMSU is an EEO/AA employer. All offers of employment are contingent upon the verification of information required by federal law, state law and NMSU policies/procedures, which may include the completion of a criminal history check.

Giancarlo Lopez-Martinez, PhD Assistant Professor
Department of Biology New Mexico State University
365 Foster Hall Las Cruces, NM 88003

575-646-3091 (office) 575-646-7478 (lab)

Giancarlo Lopez-Martinez <glopez@nmsu.edu>

Okinawa ResTech EvolutionaryBiol

The Economo Lab (<http://arilab.unit.oist.jp/>) at the Okinawa Institute of Science and Technology (<http://www.oist.jp/>) is seeking qualified applicants for two Research Technician positions. The lab works at the interface of evolution, ecology and natural history, with an empirical focus on ant biodiversity. We use a variety of approaches to understanding the biodiversity of communities, including field expeditions, collections-based research, 3D imaging and morphometrics, phylogenetics, large-scale databasing, ecological genomics, computational modeling, and quantitative theory.

RESEARCH TECHNICIAN

Duties: The chosen candidate will manage a research collection of ant specimens, including mounting, labeling, sorting, databasing, measurement, and imaging, as well as supervising students and assistants to perform these tasks. The individual will also perform in various scientific duties in support of lab research projects in-

cluding data collection and analysis, image processing, DNA extraction and sequencing, and field work. Other duties include assisting in laboratory management including ordering and maintenance/organization of lab equipment, and participation in outreach activities.

Qualifications: A BS/MS in Biology or a related field, scientific research experience, familiarity with databases and handling scientific data, and basic computer skills are required. Experience working with biodiversity collections, and/or experience with molecular techniques and DNA sequencing are highly desirable, but not required. The ideal candidate will have a strong ability to focus and good organizational skills, and be proficient at multitasking, prioritizing responsibilities, time management, and an ability to interact with all levels of staff in a multicultural environment.

Job Data: OIST (<http://www.oist.jp/>) is a newly established international graduate university located in the resort area of Onna-son, Okinawa, Japan, and offers a high quality of life and good working conditions in an international environment. Logistical and financial assistance with relocation will be provided, along with a competitive salary and benefits package. OIST is an English-language working environment and knowledge of English is required, knowledge of Japanese is helpful but not necessary.

To apply, please send a cover letter, CV, and list of three references with contact information to <economy@oist.jp>. Informal inquiries are also welcome at the same address. Application review will begin immediately and will remain open until the position is filled.

RESEARCH COMPUTING TECHNICIAN

Duties: The hired individual will be responsible for computational support of lab research including; designing and maintaining research databases, maintaining lab websites, assist with design and maintenance of data analysis pipelines, application support for utilizing HPC resources, and desktop support to lab members. In addition, there are opportunities lead or participate in development of new technologies that facilitate and/or accelerate biodiversity research.

Qualifications: A BS/MS in science or technical fields, and experience with scientific research computing is required. As this position is not tied to a single application or task, the ideal candidate would have a good baseline of programming and scripting skills, including familiarity with both compiled (e.g. C/C++) and interpreted (R, Matlab, Python) languages, and ability to learn independently. Proficiency with Linux, SQL-based database design and administration, and at

least basic familiarity with server administration are required. Experience with one or more of the following would be highly desirable but is not required; GIS, bioinformatics, ecoinformatics, parallel computing, and statistical computing.

Job Data: OIST (<http://www.oist.jp/>) is a newly established international graduate university located in the resort area of Onna-son, Okinawa, Japan, and offers a high quality of life and good working conditions in an international environment. Logistical and financial assistance with relocation will be provided, along with a competitive salary and benefits package. OIST is an English-language working environment and knowledge of English is required, knowledge of Japanese is helpful but not necessary.

To apply, please send a cover letter, CV, and list of three references with contact information to <economio@oist.jp>. Informal inquiries are also welcome at the same address. Application review will begin immediately and will remain open until the position is filled.

–

Evan P. Economo Assistant Professor Biodiversity and Biocomplexity Unit Okinawa Institute of Science and Technology 1919-1 Tancha Onna-son, Kunigamigun Okinawa, Japan 904-0495

— / —

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>

PennsylvaniaStateU PathogenEvolution

An academic research position is available immediately, working with Dr. Andrew Read in the Department of Biology at The Pennsylvania State University. This position requires the full range of scholarly scientific activity, from conception of research projects, planning and execution of experiments, analysis of data, and production of scientific papers. Research in Dr. Read's lab is in the general area of parasite evolutionary biology, and will largely involve work with malaria, Marek's disease and any other infection models which become available.

The role of this position will be to lead all aspects of the molecular work in the laboratory, but particularly the

quantitative pcr and genomic work. As well as developing your own science, the successful candidate will be required to help in developing new molecular assays to be used in the lab, trouble-shoot problems which arise in normally routine assays, direct students, and keep on top of rapidly evolving technology. Some bioinformatics work may be necessary, but the emphasis is on bench work. The successful candidate will purchase and manage the required equipment, and manage the associated laboratory and health and safety paperwork.

Some travel may be required, particularly to conferences and collaborator laboratories in the U.S. and internationally, and some weekend work may occur from time to time, as determined by experimental requirements. This position will report to Dr. Read, and is expected to interact with members of the Center for Infectious Disease Dynamics and the Departments of Biology and Entomology. The successful candidate will have degree(s) in genetics, biology or a related field, and five or more years of highly relevant experience. Preference will be given to applicants with a substantial laboratory experience in qPCR, rtPCR, sequencing and genomics. This is a fixed-term appointment, funded for one year with a good possibility of re-funding.

Interested applicants should email Dr. Read at a.read@psu.edu, providing a cover letter detailing their experience, a current CV, and contact information for three references. Review of applications to begin immediately, and continue until position is filled. Employment will require successful completion of background check(s) in accordance with University policies. Penn State is committed to affirmative action, equal opportunity and the diversity of its workforce.

– Andrew Read PhD, Director, Center for Infectious Disease Dynamics, Alumni Professor in the Biological Sciences and Professor of Entomology, The Pennsylvania State University, University Park PA16802, USA

www.thereadgroup.net www.cid.d.psu.edu
www.bio.psu.edu www.ento.psu.edu +814 867-2396
 (office, biology) +814 863-4444 (office, entomology)
 +814 867-2397 (lab) +814 865-9131 (fax) +814
 321-5004 (cell) Staff Assistant Monica Arismendi
mha15@psu.edu; +814 863-6471

a.read@psu.edu

PrincetonU AssistantProfessor

ASSISTANT PROFESSORSHIP ANIMAL BEHAVIOR Princeton University's Department of Ecology and Evolutionary Biology plans to hire a tenure track assistant professor focusing on animal behavior. The Department has broad interests in behavioral ecology, behavioral dynamics, behavioral mechanisms, behavioral genetics, behavioral endocrinology and physiology, and behavioral links to other features of organismal biology. We seek applicants who pursue research that aims for significant conceptual and/or empirical integration of animal behavior in broader contexts of complex systems, neuroscience, genomics, ecology and evolution, and who have a strong commitment to teaching. A joint appointment with the Princeton Environmental Institute is possible, especially if the applicant's research focuses on problems of global or environmental change.

Applicants should write a vision statement, no longer than two pages, that outlines the conceptual dimensions of one or more major unsolved problems in their field and how their approach will contribute to solving them. The vision statement should be more than a summary of the applicant's prior and current research. Applications, including the vision statement, curriculum vitae, three reprints and contact information for three letters of recommendation, can be submitted online via <http://jobs.princeton.edu>, requisition #1300555. Screening of applications begins September 23, 2013. Princeton University is an equal opportunity employer and complies with applicable EEO and affirmative action regulations.

Diane Carlino Department Manager Ecology and Evolutionary Biology Princeton University 104A Guyot Hall 609-258-5810

dcarlino@Princeton.EDU

RutgersU ComputationalGenetics

Senior Faculty Position in Computational Genetics

The Department of Genetics in the School of Arts and Sciences at Rutgers, The State University of New Jersey seeks an outstanding senior scientist to complement the existing faculty in computational genetics, moving our program into exciting new areas and expanding our existing strengths. Tenured appointment will be made at the Associate or Full Professor level. Areas of interest include, but are not limited to, population or evolutionary genetics, bioinformatics, statistical genetics, computational genomics, and analysis of complex ge-

netic diseases. The successful candidate will be a member of the newly founded Center for Genome Variation and Evolution within the Genetics Department. Senior hires with appropriate leadership experience would be considered for directorship of this Center. Appropriate candidates will also be appointed to the Human Genetics Institute of New Jersey. Core resources and generous startup funds will be provided. Research space, including wet lab if needed, will be provided in the newly constructed Life Sciences Building.

The Department of Genetics is home to over 30 faculty with diverse interests and numerous well-funded research programs, and is part of a vibrant life sciences and computational community. Our computational group collaborates with other Department of Genetics faculty and Rutgers scientists within the Division of Life Sciences, the Departments of Computer Science and Statistics, the Waksman Institute, the Center for Advanced Biotechnology and Medicine, the Robert Wood Johnson Medical School, the BioMaPS Institute for Quantitative Biology, and the Center for Discrete Mathematics and Theoretical Computer Science (DIMACS). The New Brunswick/Piscataway campus is located in suburban central New Jersey, close to New York City, Philadelphia, beaches, and countryside. For more information on the Department and Rutgers see: <http://genetics.rutgers.edu/faculty/faculty-recruitment>. Candidates must have a Ph.D. and/or M.D., demonstrated record of significant research, the potential to make substantial contributions as an independent investigator, and have a commitment to teaching undergraduate and graduate students. Applicants should submit a CV, a detailed statement of research interests, a teaching statement, and full contact information for three individuals willing to provide letters of reference. Applications should be submitted electronically at <http://apply.interfolio.com/22156> and inquiries made to Ms. Laura Bué, bue@dls.rutgers.edu. Review of applications will begin October 15, 2013 and continue until the position is filled.

Rutgers University is an equal opportunity/affirmative action employer committed to diversity. Women, minorities, and members of under-represented groups are encouraged to apply

Andrew Kern Assistant Professor of Genetics Rutgers University kern@biology.rutgers.edu

Kern@dls.rutgers.edu

SAfrica ResearchAssistant SocialMolerats

SAfrica.ResearchAssistant.SocialMolerats

Field research assistants needed

Cooperative breeding in subterranean Damaraland mole-rats (*Fukomys damarensis*)

2 Positions for a minimum of 6 months between October 2013 and April 2014;

Field researchers are needed to conduct research on a completely subterranean, highly social mole-rat. Our main interest is individual variation in cooperative behaviour and the consequences for life-histories and individual fitness in the cooperatively breeding Damaraland mole-rat (*Fukomys damarensis*). At the same time we are also investigating the hormonal mechanisms underlying cooperative behaviour.

We launch a study of permanently marked, wild mole-rats at the < <http://www.kalahari-meerkats.com/-index.php?id=krr> > Kuruman River Reserve (Northern Cape, South Africa). The study is initiated by Prof. Tim Clutton-Brock, University of Cambridge. The mole-rats will be trapped, marked and measurements such as blood samples, urine samples and morphometrics will be taken. Animals in their natural burrow systems will be monitored by identity chips and radio telemetry. Although the majority of work happens in the field research assistants are also welcome to get involved in behavioural observations of captive mole-rats held in tunnel systems at the research station.

Applicants should be enthusiastic, willing to work hard and keen to get involved in a research project in the African bush. Research assistants are expected to stay in the field over night when trapping mole-rats and need to be physically fit as capturing mole-rats requires a fair amount of digging. Applicants must be holders of a driving license. A zoology related degree and/or previous field experience will be considered an asset.

The successful applicants will work in a small team of 5-6 persons working on mole-rats. The research station is also the home of several other projects studying meerkats (www.kalahari-meerkats.com), pied babblers, forktailed drongos and hornbills resulting in a stimulating scientific environment. Around 20-30 research assistants are based at the station year round. Re-

search assistants will learn a range of skills such as radio telemetry, endocrine sampling techniques, capture-mark-recapture techniques, behavioural observations, data handling and management.

Accommodation is provided, and research assistants are paid a monthly allowance to cover their food. A contribution to their travel costs can be provided at the end of their stay.

To apply (CV + Coverletter) or enquire further information contact:

Dr Markus Zöttl Research associate University of Cambridge

Mz338@cam.ac.uk

Phone: +441223336673

Markus Zöttl <mz338@cam.ac.uk>

SenckenbergResInst Frankfurt MammalianEvolution

Link to our job offer: [http://www.senckenberg.de/-files/content/stellenausschreibungen/01-](http://www.senckenberg.de/-files/content/stellenausschreibungen/01-13028_stellenausschreibung_wiss_ma_sb.pdf)

[13028_stellenausschreibung_wiss_ma_sb.pdf](http://www.senckenberg.de/-files/content/stellenausschreibungen/01-13028_stellenausschreibung_wiss_ma_sb.pdf) Senckenberg Gesellschaft für Naturforschung has an international reputation in all fields of Natural History research. It runs six research institutes and two museums in Germany and is also custodian of the UNESCO World Heritage Site at Messel.

The Senckenberg Research Institute and Nature Museum in Frankfurt am Main, Department of Palaeoanthropology and Messel Research (Section Mammalian Biology) invites applications for a tenure-track

Research scientist in Mammalian Biology Ref. #01-13028 (fulltime)

Your tasks: scientific research in the area of biodiversity and systematics of Mammalia curation of the extensive Senckenberg mammal collection in Frankfurt am Main interdisciplinary cooperation with other research groups in the institute and national and international collaborations external fund raising public outreach: communication of research results

Your profile: Ph.D. in biology or a related field at the time of appointment experience with the morphology and systematics of mammals experience with curation strong publication record of internationally recognized research in the area of biodiversity and systematics of

Mammalia, with a specialty in morphology, taxonomy, systematics, evolution or ecology experience with modern methods of 3D-data analysis, particularly computed tomography is desirable. very good written and oral communication skills highly motivated, able to work independently disposition for team work

Salary and benefits are accordance with a public service position in Germany (TV-H E13). The contract shall start March, 1st 2014 and will be initially limited to a 5-year term. The Senckenberg Research Institute supports equal opportunity of men and women and therefore strongly invites women to apply. Equally qualified handicapped applicants will be given preference. The type of handicap should not prevent work needed to conduct the research. The duty station will be Frankfurt am Main, Germany. The employer is the Senckenberg Gesellschaft für Naturforschung.

Please send your application before September, 13th 2013 preferably by e-mail (attachment in a single pdf document) , mentioning the reference of this position (Ref. #01-13028) and including a letter outlining your suitability for the post, a detailed CV, contact details of 2 references, and, if available, publications to both addresses below.

Frau Britta Werner Head of Personnel and Social Affairs Senckenberg Gesellschaft für Naturforschung Senckenberganlage 25 60325 Frankfurt am Main recruiting@senckenberg.de stephan.schaal@senckenberg.de

For scientific enquiries please contact Dr. Stephan Schaal, stephan.schaal@senckenberg.de

In addition please indicate in your application how our job advertisement came to your attention.

Mit freundlichen Grüßen /Best Regards

i.A. Stefanie Ulrich Team Recruiting

SENCKENBERG Gesellschaft für Naturforschung Service & Administration - Personal und Soziales/Personnel and Social Affairs Senckenberganlage 25 60325 Frankfurt/Main

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

Leiterin Personal und Soziales/Head of Personnel and Social Affairs - 1456 Werner, Britta

Teamleiterin Personalbeschaffung/Team Leader Recruiting - 1282 Ohl, Anette

Team Personalbeschaffung/Team Recruiting - 1205 Ulrich, Stefanie - 1310 Treuberg, Sascha - 1313 Kurt, Sibel

Fax: 0049 (0)69 / 7542-1440 Mail: recruiting@senckenberg.de Homepage: www.senckenberg.de

SENCKENBERG Gesellschaft für Naturforschung Rechtsfähiger Verein gemäß §22 BGB Senckenberganlage 25 60325 Frankfurt am Main Direktorium: Prof. Dr. Dr. h.c. Volker Mosbrugger, Prof. Dr. Andreas Mulch, Prof. Dr. Katrin Böhning-Gaese, Prof. Dr. Uwe Fritz, Dr. Johannes Heilmann, PD Dr. Ilka Kröncke Vorsitzende des Präsidiums: Dr. h. c. Beate Heraeus Aufsichtsbehörde: Magistrat der Stadt Frankfurt am Main (Ordnungsamt)

P Before printing, think about the environment

recruiting@senckenberg.de

StonyBrookU ChairEcologyEvolution

CHAIR- Department of Ecology and Evolution Stony Brook University, Stony Brook, NY, United States

The Department of Ecology and Evolution at Stony Brook University is seeking an individual with an outstanding academic background in any field of ecology or evolutionary biology to serve as the Department Chair. The successful candidate should have internationally recognized research credentials, a track record of extramurally funded research, demonstrated commitment to excellence in research and teaching, and proven leadership skills in an academic environment. Applicants should present a compelling vision to guiding the future trajectory of the Department, and capitalizing on the new initiatives put forward by the Department and University. The successful candidate will teach graduate and/or undergraduate courses according to his or her area of expertise.

The Department is a dynamic and growing department in a Tier I, AAU university offering competitive teaching loads and startups. Information about department faculty and our strong graduate training program is available at <http://life.bio.sunysb.edu/ee/>. Areas of strength in our program include population genetics, conservation ecology, molecular evolution and phylogenetics, evolutionary genomics, species interactions, invasion ecology, biogeography, mathematical ecology, and marine and freshwater ecology. The Department has recently benefited from new University initiatives that include faculty hiring in a new cross-departmental human evolution major, and active involvement in a number of campus-wide multi' disciplinary cluster hires. SUNY 2020 has reinvigorated Stony Brook Uni-

versity with increasing resources and a drive for academic excellence. The University is a member of the prestigious Association of American Universities and co-manager of nearby Brookhaven National Laboratory, a multidisciplinary research laboratory supporting world class scientific programs utilizing state-of-the-art facilities. Stony Brook University Medical Center is Suffolk County's only academic medical center and tertiary care provider. Collaborations are also possible with Cold Spring Harbor Laboratories, the American Museum of Natural History, the New York Botanical Garden, and other nearby institutions. The campus is close to marine and terrestrial research sites, including 50,000 acres of legally protected pine barrens and woodlands. While in the New York metropolitan area, Stony Brook is located on the north shore of eastern Long Island, NY, with access to farmlands, vineyards, miles of beaches, and convenient access to the cultural resources of New York City.

Applicants must hold a PhD in Ecology, Evolution, Statistics or related field, and have demonstrated excellence in research and leadership. Applications are due September 30, 2013. Applicants should complete the Academic Jobs application process online at <https://academicjobsonline.org/ajo/jobs/2939>. The application process consists of: 1) State employment application, 2) cover letter detailing administrative leadership experiences and philosophy, 3) research and teaching experience, 4) resume, and 5) the names and contact details of three academic referees for recommendation. Electronic submission via academicjobsonline is strongly preferred.

Alternatively, applicants may submit the application materials by mail to: Douglas Futuyma, Chair of Search Committee, c/o Donna DiGiovanni, Assistant to Chair, Department of Ecology and Evolution, Life Sciences Building, Room 650, Stony Brook University, Stony Brook, NY 11794-5245, For a full position description, application procedures, and to apply online, visit <https://academicjobsonline.org/ajo/jobs/2939>. Douglas J. Futuyma Distinguished Professor Department of Ecology and Evolution Stony Brook University Stony Brook, NY 11794-5245 Tel, (631) 632-1411 Fax (631) 632-7626 futuyma@life.bio.sunysb.edu

**StonyBrookU LabTech
ExperimentalEvolution**

StonyBrookU.LabTech.ExperimentalEvolution

Research technician position in yeast evolution and genetics at Stony Brook University, Long Island, NY.

The Levy Lab at the Laufer Center for Physical and Quantitative Biology is seeking an organized, enthusiastic, and motivated scientist to fill a lab manager position in our new research lab. We develop high-throughput technologies to study the evolutionary dynamics of large competing populations, using the model yeast *Saccharomyces cerevisiae*.

The research technician will assist in the set up and management of the lab, with specific attention to ordering and maintaining equipment, stocking the lab, generating and supporting of a productive work culture, and maintaining compliance with environmental and safety procedures. Additionally, the research technician will assist in various projects in the lab involving plasmid and yeast cloning, experimental evolution, high-throughput microscopy and next-generation sequencing.

Minimum Qualifications: - Bachelor's or Master's degree in biology, genetics or a related field or equivalent educational experience - Strong organizational skills, drive, and an ability to accomplish tasks independently - Excellent communication skills, willingness to follow specific instructions, ability to direct others when needed - Extreme attention to detail - Experience in a molecular biology or genetics wet lab - Experience with preparing reagents/buffers, gel electrophoresis, PCR, cloning - Strong desire to learn new biology techniques - Strong aptitude with computers - Ability to learn and execute laboratory Standard Operating Procedures and safety requirements.

Also desired: - Previous full time experience in a molecular biology or genetics lab - Experience with *Saccharomyces cerevisiae* culture and genetics - Aptitude for technology and desire to learn programming - Experience with next-generation sequencing - Experience with epifluorescent microscopy - Experience with large data sets

To apply, please visit the ad posted on the SBU Job Opportunities website <http://naples.cc.sunysb.edu/Admin/-CampusJob.nsf/ebb5a78b9e8848868525659c0072eafe/-b1fb27209970906385257bbf004afa51?OpenDocument>

.Previous experience in the laboratory should be highlighted in both the cover letter and letters of recommendation wherever possible. Interviews will take place on the Stony Brook campus the first week of September. The chosen applicant will ideally start work in November or December, but no earlier than

November 10.

This is a full-time position, initially appointed for a period of 12 months at a yearly salary of \$29,500 - \$34,750 (depending on qualifications), plus benefits. The position duration could be extended, depending on performance and availability of research funds.

Sasha Levy, Ph.D. Laufer Endowed Chair Assistant Professor of Physical and Quantitative Biology Department of Biochemistry and Cell Biology The Laufer Center Stony Brook University Stony Brook, NY

sashaflevy@gmail.com

TempleU ComputationalGenomics

Assistant Research Professor in Computational Genetics/Genomics at Temple University (Grant Funded) An experienced postdoctoral researcher in computational genetics/genomics is sought to fill a key position as Research Faculty in the new Center for Computational Genetics and Genomics (CCGG) at Temple University.

Potential research areas include but are not limited to:

- The development of methods and/or tools for assembling and analyzing high throughput data
- The development of data mining pipelines for identifying candidates of biological or medical interest
- Evolutionary genomics

The successful candidate will very likely have extensive experience in computer programming and in mathematical or statistical aspects of analyzing genomic data.

The Assistant Research Professor will work closely with other CCGG faculty as well as postdocs, graduate students, and undergraduates. The specific research pursuits will depend on the intersection of the candidates interests and skills with ongoing CCGG research projects, with a key goal of developing the research independence (including grant funding) for the Research Professor. The position also carries opportunities for teaching, both in the classroom and in the laboratory.

The CCGG is a new Research Center in the Department of Biology, directed by Jody Hey who has recently joined Temple University. The mission of the Center is to foster research and education at the interface of quantitative methodologies and genomic data. The CCGG currently includes the Hey and Kulathinal labs with expected new faculty hires in Biology during

the next two years.

Please send a CV and a statement of research interests and career goals to:

Jody Hey Professor, Department of Biology
Temple University hey@temple.edu
<https://bio.cst.temple.edu/heylab> Jody Hey
<tuf29449@temple.edu>

TuftsU EvolutionaryMicrobiology

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Content-Type: text/plain;
charset="Windows-1252" Content-ID:
<B3F78608F95E3440B5B9892FD6524B8E@exchange.tufts.edu>
Content-Transfer-Encoding: quoted-printable

The Department of Biology at Tufts University invites applications for a tenure-track Assistant Professor in Microbiology to begin fall 2014. We seek a creative scholar with primary expertise in comparative or functional genomics, ecology of microbial populations, or genome evolution of microbial communities. Someone with the ability to work on multiple biological scales, ranging from the molecular to the community, is preferred. The successful candidate will use modern research techniques of computational genomics to address fundamental questions in evolution and ecology. We seek a scientist who will complement and add to our strengths, allowing new collaborations and synergistic research to occur within our department as well as across departments. The Biology department has expertise in genome structure and function, genome evolution, and the physiology and ecology of host organisms (see <http://ase.tufts.edu/biology/>).

The candidate will develop an active externally funded research program involving graduate and undergraduate students. Instructional duties will include an undergraduate microbiology course and an associated microbiology laboratory course, as well as contributions to other undergraduate or graduate courses based on the expertise and interests of the new faculty member. A clear commitment to teaching excellence at the undergraduate and graduate levels is essential. Doctoral degree, post-doctoral experience and a record of research productivity are required.

Tufts University is a private, coeducational institution, whose main campus serves approximately 5,100 undergraduates and over 1,500 graduate students in a broad

spectrum of programs. We are located in the towns of Medford and Somerville, within the Greater Boston metropolitan area. The Biology Department has 25 full time faculty members working in diverse specialties spanning molecular, organismal, and population biology. We maintain an active graduate training program at the master's and doctoral levels. We are strongly committed to quality research and education in basic and applied biology. The department is closely allied with other programs including Biomedical Engineering, Chemistry, and Computer Science. Individual members of the department also maintain active collaborations with colleagues at the Tufts Schools of Medicine, Veterinary Medicine, Nutrition and Dental Medicine.

To Apply: Applicants should use the link <https://secure.interfolio.com/apply/21916> to submit a cover letter, curriculum vitae, and separate statements of (1) research interests and plans and (2) teaching experience and philosophy. Submission of 1-3 selected reprints in PDF format is encouraged. Applicants should also ensure that three confidential letters of reference are submitted to this link.

Review of applications begins October 1, 2013, and continues until the position is filled.

Tufts University is an Affirmative Action/Equal Opportunity employer. We are committed to increasing the diversity of our faculty. Members of underrepresented groups are strongly encouraged to apply.

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TulaneU EvolutionEcosystemDynamics

This search is very interested in candidates with expertise in evolutionary ecology, population genetics, microbial genomics and metagenomics, and / or computational and evolutionary approaches for understanding human-natural ecosystem dynamics.

Tulane University School of Public Health and Tropical Medicine invites applications for multiple tenure track faculty positions in the Department of Global Environmental Health Sciences at any level, with rank determined by experience and accomplishments.

Successful candidates or teams will expand the department's role in research and teaching across the continuum of basic-, clinical-, and population-based envi-

ronmental health sciences. Applicants should demonstrate strong interest or experience in interdisciplinary environmental public health research and teaching with respect to one or more of the following areas: water and wetland resources, climate change, and environmental/environmental health effects modeling.

Candidates with expertise in environmental quality, management, and sustainability of urban and rural riverine and coastal environments including disciplinary themes in constructed wetlands, contaminated sediments, environmental microbiology, seafood safety, ecotoxicology, and spatial and temporal modeling among themes are encouraged to apply.

High ranking candidates or teams would be those with a track record of research and teaching in the fields outlined above and who demonstrate expertise in developing a globally recognized, externally funded research program. In addition to individual research and teaching requirements, the candidate is expected to collaborate in research and teaching within the Department of Global Environmental Health Sciences and other departments in the School of Public Health and Tropical Medicine, and Tulane University. Applicants must possess a doctorate in environmental health sciences or relevant field and demonstrate excellence in research and teaching at the undergraduate and graduate levels.

Application review will begin immediately and continue until the positions are filled. Applicants should submit a cover letter, CV, research plan, and contact information for five references to:

Jeffrey K. Wickliffe, Ph.D., Search Committee Chair
Department of Global Environmental Health Sciences
Tulane University School of Public Health & Tropical Medicine
1440 Canal Street, Suite 2100 New Orleans, LA 70112-2704
Tel: 504-988-3910 jwicklif@tulane.edu

Tulane is an Equal Opportunity/Affirmative Action employer.

Michael J. Blum

Associate Professor, Dept of Ecology & Evolutionary Biology
Eugenie Schwartz Professor of River & Coastal Studies
Director, Tulane-Xavier Center for Bioenvironmental Research
Tulane University New Orleans, LA 70118
504-862-8295 (phone) 504-862-8706 (fax)
www.tulane.edu/~mjblum “Blum, Michael J”
<mjblum@tulane.edu>

UAlabama ComputationalBiology

Dear EvolDir members:

The Department of Biological Sciences at The University of Alabama is seeking a new tenure-track faculty member at the rank of Assistant Professor in Computational Biology.

All areas of computational biology and bioinformatics will be considered. Applications from candidates with a demonstrated record of developing and/or applying computational approaches to study biological questions in areas including comparative genomics and transcriptomics, evolutionary genomics, phylogenomics, computational ecology/ecoinformatics, cell and molecular biology, and systems biology are especially encouraged to apply.

Candidates must have a Ph.D. degree in the Biological Sciences or related field, postdoctoral experience, evidence of the ability to establish an extramurally funded research program and mentor students. The successful applicants will be expected to develop an active research program, develop new courses in his/her area of expertise and participate in the teaching of existing undergraduate and graduate courses. Faculty in the Biological Sciences Department have diverse research interests and have interdisciplinary collaborations with UA faculty in the Departments of Chemistry, Chemical and Biological Engineering, Geography, Geological Sciences, and Metallurgical and Materials Engineering.

Applicants may contact Dr. Juan Lopez-Bautista the chair of the computational biology search committee, at jlopez@ua.edu, if additional information is desired.

To apply, go to <https://facultyjobs.ua.edu>, complete the online application (Job Requisition #0808399), and upload (1) an application letter with a list of three to five references (including contact information); (2) CV; (3) statement of research interests and goals; and (4) statement of teaching interests and philosophy. Consideration of applications will begin October 15, 2013, and continue until the positions are filled. Prior to the hiring, the final candidate(s) will be required to pass a pre-employment background investigation. Anticipated start date is August 16, 2014, although candidates seeking a January 1, 2014 as start date will be considered.

Additional information on the Department of Biological Sciences and the available positions can be found

on our website at <http://bsc.ua.edu>. The University of Alabama is an Equal Opportunity/Equal Access Employer and actively seeks diversity among its employees.

Juan M. Lopez-Bautista Professor and College of Arts and Sciences Leadership Board Fellow The University of Alabama, Department of Biological Sciences 500 Hackberry Lane, Mary Harmon Bryant Hall #309 Tuscaloosa, AL 35487-0345 <http://www.phycolab.ua.edu> Ph Office (205) 348-1791 Lab (205) 348-7383 Postdocs & students (205)-348-5828 phykosis@gmail.com

UCDavis EvolutionaryBiology

ECOLOGIST, UNIVERSITY OF CALIFORNIA, DAVIS – The College of Biological Sciences, University of California, Davis invites applications and nominations for a tenure-track position in the Department of Evolution and Ecology at the ASSISTANT PROFESSOR level. Candidates must have a Ph.D. (or equivalent) in the biological sciences or related fields. We seek a terrestrial or freshwater ecologist with research interests that will complement and build upon existing faculty strengths to address important ecological questions. We welcome applicants who address important ecological questions at any spatial or temporal scale. We seek a colleague who is committed to participating in the departmental community through collaborative teaching, research, service and graduate mentoring. Letters of recommendation should specifically address this aspect of the application. The successful candidate will be expected to teach in undergraduate and graduate programs, and should be committed to mentoring and fostering diversity.

Applicants should submit materials online at <https://recruit.ucdavis.edu/apply/JPF00130> which contains additional information about the position. These should include: cover letter, curriculum vitae, description of current and projected research, summary of teaching interests and experience, and three publications. Applicants should also provide the information requested for three referees (fourth referee optional). Once entered, applicants will electronically request letters from referees who will then be prompted by email with upload instructions for their letters. Closing Date: Open until filled, but all application materials, including letters of recommendation, must be received by October 15th, 2013 to assure full consid-

eration. Administrative contact: Carla Munoz (camunoz@ucdavis.edu). Faculty contacts: Jay Stachowicz (jjstachowicz@ucdavis.edu), Sharon Strauss (sys-
trauss@ucdavis.edu). The University of California is an Equal Opportunity/Affirmative Action Employer with a strong institutional commitment to the development of a climate that supports equality of opportunity and respect for differences.

jjstachowicz@UCDAVIS.EDU

UCalgary BioinformaticsCompBio

AIHS CAIP Translational Chair in Bioinformatics/Computational Biology

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

In partnership with Alberta Innovates - Health Solutions (AIHS), the Department of Biological Sciences, Faculty of Science, at the University of Calgary invites applications for a tenure-track position as an Assistant Professor (Tier 2 Chair) in Bio-informatics and/or Computational Biology. This position is part of the prestigious Campus Alberta Innovates Program (CAIP).

The holder of this Chair will conduct conceptually-motivated research concerning the imprint of environmental change on genomic diversity and associated phenotypic consequences within and among species. This research program will incorporate the application and development of statistical and computation techniques for inferring demographic and evolutionary parameters and simulating their consequences for adaptation, evolution and diversification. Research with implications for practical applications is particularly relevant to a position as an AIHS Translational Chair. In particular, this position aligns closely with a Tier 1 Chair in Personalized Genomics, and synergies arising from associated interactions are anticipated. The Chair in Bioinformatics/Computational Biology will also complement research conducted by recently recruited faculty studying ecological genomics, environmental genomics, and biocomplexity and networks in the Department of Biological Sciences.

We seek a productive, innovative scientist who will establish an independent, externally funded, internationally recognized research program that actively engages and trains students in conceptually-based enquiry. The

successful candidate will be expected to teach at the undergraduate and graduate levels in the Department of Biological Sciences, consistent with the expectations for other Chairs. Excellent communication and leadership skills, and the ability to manage student projects, are expected.

Applications must include a curriculum vitae, statement of research interests, statement of teaching interests, evidence of teaching effectiveness, and five recent publications, as well as the names, addresses, phone numbers and email addresses of three referees. Review of applications will begin on 1 November 2013 and continue until the position is filled.

Applications for the Chair should be sent to:

Dr. Robert Barclay, Head, Department of Biological Sciences University of Calgary, 2500 University Drive Calgary, AB T2N 1N4

Sean Rogers | Assistant Professor | Genomics for Ecology and Evolution Research Unit Alberta Innovates - Technology Futures New Faculty | Biological Sciences, University of Calgary Office: BI379D | Phone: Lab 403.220.7907, Office 403.210.8573, Cell 403.473.3498 | Website: <http://people.ucalgary.ca/~srogers/> Until July 25, 2013 :

Bamfield Marine Sciences Centre 100 Pachena Rd, Bamfield, BC Canada, V0R 1B0

srogers@ucalgary.ca

UFlorida QuantitativeGenetics

Assistant/Associate Professor of Quantitative Genetics. A position is available in the Department of Animal Sciences, Institute of Food and Agricultural Sciences, at the University of Florida. This is a 12-month tenure-track position with a 70% research and 30% teaching assignment. Major duties are to develop and implement a strong research and teaching program in quantitative genetic analysis and bioinformatics and related subject areas that will benefit Florida animal agriculture and human health industries. The research focus may include theoretical, computational, and applied approaches to quantitative genetics and genomics, bioinformatics, population genetics, mixed model methodology, and genetic-genomic evaluation and selection. The teaching assignment includes teaching an undergraduate and graduate course in bioinformatics applications to agriculture and medicine. The successful candidate

is also expected to teach a graduate level course in the area of quantitative methods in genetic analysis. The faculty member will participate in extension programs as appropriate. Qualifications are an earned Ph.D. (foreign equivalent acceptable) in animal breeding, genetics or a closely related discipline. Evidence of success in developing and maintaining a significant, extramurally supported research and teaching program is required. Screening of applicants will begin September 15, 2013. The positions will be available October 1, 2013 and will be filled as soon thereafter as an acceptable applicant is available.

Both nominations and applications are welcome. Nominations should be sent to PJ Hansen at pjhansen@ufl.edu. Individuals wishing to apply should go online to the position description at <http://jobs.ufl.edu/postings/43537> and submit an application, cover letter, CV which includes description of current position and responsibilities, and names and contact information of three references. The successful applicant will also be asked to submit an official transcript documenting awarding of Ph.D. degree.

Dr. Peter J. Hansen, Chair, Physiology Search and Screen Committee, University of Florida, Department of Animal Sciences, P.O. Box 110910, Gainesville, FL 32611-0910; Phone: 352-392-5590; Fax: 352-392-5595; email: pjhansen@ufl.edu (please refer to Position # 0001-3053).

Charlie Baer <cbaer@ufl.edu>

UHelsinki Evolutionary Genomics

Tenure track Assistant professorship in Ecological and Evolutionary Genomics (Helsinki)

The Faculty of Biological and Environmental Sciences, University of Helsinki, is announcing an open tenure-track position in

Ecological and evolutionary genomics

The position is located at the Department of Biosciences of the Faculty of Biological and Environmental Sciences which is Finland's largest and most prominent institution engaged in the research and teaching of the biosciences. The Department of Biosciences, based in the Viikki Science Park, is among the largest departments of the University. Its budget is ≈ 24 million, and it employs over 300 people. The Department

Duties: The duties of the assistant professor will include research, teaching and supervision of theses and dissertations, as well as involvement in administrative and support tasks and community relations. The main focus of research is expected to be relevant to the special field of the professorship. The assistant professor is expected to lead projects in the field of ecological and evolutionary genomics and acquire external funding for their implementation.

The assistant professor will be responsible for research conducted in ecological and evolutionary genomics and for advancing teaching in bioinformatics, which supports the aforementioned field. Furthermore, the duties of the position include the advancement of teaching in evolutionary biology. The assistant professorship is based in the Division of Ecology and Evolutionary Biology, which has professorships in the following fields: zoology, population genetics, population ecology, mathematical ecology, conservation decision analysis and evolutionary biology (Swedish as teaching language). The Division's research and teaching activities are supported by the Molecular Ecology and Systematics Laboratory (MES). The Division is host to the Metapopulation Research Group (Academy of Finland Centre of Excellence), a section of the Centre of Excellence in Biological Interactions as well as two Research professors.

Qualifications: The University will recruit talented, motivated academics who have completed their doctoral degree within the last ten years and have since gained additional academic and other relevant qualifications and merit in their field. Successful applicant will be employed as assistant professor. The duration of the employment contract will be two to five years, depending on the appointee's background and experience. If the appointee completes the duties of the assistant professorship successfully and in accordance with pre-determined criteria, employment may be continued with a second fixed-term contract, after which the appointee may obtain tenure as a professor.

The academic qualifications and teaching experience of applicants will be considered when making the selection. Additional merit will be granted for working outside Finland, other international experience and experience in acquiring research funding.

Applications must be accompanied by the following English-language documents: a CV, a list of publications, a report on experience and merits relevant to assessing the applicant's teaching skills as well as other documents that may be relevant to the selection; or, alternatively, an English-language academic portfolio containing the above-mentioned documents and information divided into six divisions, namely those of biochemistry, ecology and

mation (for instructions, see http://www.helsinki.fi/bio/faculty/materials/portfolio-ohjeet_eng.pdf).

In addition, applicants are requested to enclose with their application a report (max. two pages, in English) on how they intend to develop research in the field, if appointed. Applicants are kindly asked to be ready to submit for assessment the 10 publications indicated on their list of publications after the application period. The publications must be submitted via email as PDF files.

For the position overview, see <http://www.helsinki.fi/bio/faculty/administration/open/index.html>.

Applications addressed to the Faculty of Biological and Environmental Sciences, together with the required enclosures, must be delivered to the following address: Registry of the University of Helsinki, PO Box 33 (Yliopistonkatu 4), 00014 University of Helsinki, Finland, or sent by email to hy-kirjaamo@helsinki.fi. The closing date for applications is September 27, 2013. (The Registry closes at 15.45 local Helsinki time.)

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UIIdaho MathematicalSystemsBiology

The Department of Mathematics at the University of Idaho invites applications for a tenure-track faculty position in Mathematical Biology. This is part of a three-position cluster hire to be filled (with the other two in Statistics and Physics) that will address aspects of Systems Biology. This is an academic year (9-month) position at the rank of Assistant Professor beginning August 12, 2014. Responsibilities include: carrying out an active research program and teaching courses at the undergraduate and graduate levels. Women and minorities are especially encouraged to apply. AA/EOE

Opportunities for interdisciplinary interactions abound. The Department of Biological Sciences has strengths in evolutionary biology, microbial ecology, reproductive biology, cellular and molecular biology and biochemistry. The Institute for Bioinformatics and Evolutionary Studies (IBEST) includes researchers from many

departments (Biology, Computer Science, Mathematics, Statistics, Physics, and Chemistry) and focuses on research in evolution through a variety of approaches (experimental evolution of microorganisms, mathematical/computational modeling, genomics, and field biology).

CLOSING DATE: Review of applications will begin November 1, 2013, and continue until a suitable applicant pool is identified. Please direct any questions regarding this position to math@uidaho.edu.

For a complete description of the announcement, how to apply, and information about the department, visit <http://www.uidaho.edu/math> . “Krone, Stephen” <krone@uidaho.edu>

UKentucky EvoDevo

Developmental Biologist Faculty Position

The Department of Biology at the University of Kentucky invites applications for a tenure-track faculty position in developmental biology starting in the fall of 2014. We anticipate making an appointment at the level of Assistant Professor; however, exceptionally qualified candidates at the Associate or Full Professor level will also be considered. Research programs of interest include, but are not limited to: stem cell biology, cellular reprogramming, epigenetics and development, the regulation of cell division and growth, organogenesis, regeneration, and the dysregulation of developmental processes in disease. We are interested in a wide variety of experimental approaches and model organisms. The successful candidate will complement existing departmental strengths in cell and developmental biology, genetics, genomics, and evolutionary biology. With more than 500 life sciences faculty on campus, there are excellent opportunities for scientific interaction and collaboration with programs in the Colleges of Medicine, Pharmacy, Agriculture, and Arts & Sciences, the Markey Cancer Center, the Sanders-Brown Center on Aging, and the Center for Clinical and Translational Science, among others. Competitive start-up funds and renovated laboratory space will be provided. Candidates must have a Ph.D. or equivalent degree and post-doctoral experience demonstrating excellence in their field. Candidates will be expected to establish a vigorous and innovative extramurally funded research program, and to contribute to the departments teaching activities at the graduate and undergraduate levels.

Applicants should submit a CV, a research plan, and a description of teaching interests through our website (<http://bio.as.uky.edu/employment-bio>). Candidates should also arrange for three letters of recommendation to be submitted. *Consideration of applications will begin September 15, 2013 and continue until the position is filled.* Questions may be directed to the Search Committee Chair, Doug Harrison <dough@uky.edu> or the Biology Department Chair, Vincent Cassone <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 geographical 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. The University also supports family-friendly policies.

Jeramiah Smith <jeramiahsmith@gmail.com>

UKentucky MathBio

Assistant Professor of Mathematical/Computational Biology The Department of Biology at the University of Kentucky seeks an innovative researcher/educator using mathematical, statistical, or computational methods to address compelling questions in any area of biology. The department has strengths in cell biology, developmental biology, ecology, evolutionary biology, and behavior; applicants with research focused in one or more of these areas and complementary to existing expertise within Biology and with other units (e.g. Mathematics and Statistics) will receive special consideration. Candidates must have a Ph.D. or equivalent degree and postdoctoral experience demonstrating excellence in their field. Responsibilities for the successful candidate include establishment of an independent research program and contribution to the teaching mission of the Department.

Applicants should submit a CV, a research plan, and a description of teaching interests through our website (<http://bio.as.uky.edu/employment-bio>). Candidates should also arrange for three letters of recommendation to be submitted as instructed at the application web site. Review of applications will begin September 20, 2013 and continue until the position is filled. Questions may be directed to the Search Committee Chair, David F. Westneat or the Biology Department Chair, Vincent

Cassone. For more details on the department and the university, visit our website (<http://biology.uky.edu>) or contact Dr. Cassone, Chair, at (859) 257-6766.

The University of Kentucky is an Affirmative Action/Equal Opportunity University that values diversity and is located in an increasingly diverse geographical 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. The University also supports family-friendly policies.

Dave Weisrock (dweis2@uky.edu)

david.weisrock@uky.edu

UPennsylvania EvolutionaryBiology

The School of Arts and Sciences at the University of Pennsylvania seeks to add to the faculty of our newly formed Evolution Cluster. We invite applicants for a tenure-track assistant professor appointment in evolution, broadly interpreted. We are interested in exceptional scientists who will establish a research program to empirically study the evolution of dynamical processes using field or laboratory experiments or the construction and analysis of massive data sets. Areas of interest include, but are not limited to: the evolution of neural, social, ecological or linguistic dynamics and networks; evolution of early life or exobiology; biochemical, neuronal, or cooperative interactions and exchange of information at the molecular, cellular, human, or ecosystems scales; directed evolution of organisms or processes; analyzing extant structures and networks, from molecules to populations, along with their evolutionary trajectories, including the development of new modalities to extract data from the geologic, genetic, or linguistic historical records. The successful candidates primary appointment will be in a single department in the natural sciences: Biology, Chemistry, Earth and Environmental Science, Linguistics, Mathematics, Physics and Astronomy, or Psychology. Secondary appointments in other departments can be arranged, as appropriate. The successful candidate will have a strong interest in building a program that generates interaction with researchers from other disciplines who are working within the overarching theme of evolution and will teach courses in his or her home department and participate in the development of curricula pertinent to the Evolu-

tion Cluster (See <http://evolutioncluster.sas.upenn.edu> for more information). The University of Pennsylvania is an Affirmative Action/Equal Opportunity Employer and is strongly committed to establishing a diverse faculty: <http://www.upenn.edu/almanac/volumes/v58/n02/diversityplan.html> Applications should be submitted on-line at <http://facultysearches.provost.upenn.edu/postings/23> and include a curriculum vitae, a research statement that includes the candidates perspective on how she or he fits into one of the core departments, links to no more than three journal publications, and the contact information for three individuals who will provide letters of recommendation. Review of applications will begin 1 November 2013 and will continue until the position is filled.

Randall D. Kamien Vicki and William Abrams Professor in the Natural Sciences <http://www.physics.upenn.edu/~kamien/> +1.215.898.5940

“Randall D. Kamien” <kamien@physics.upenn.edu>

USouthCarolina EvolutionaryPhysiology

The following ad for a Comparative Animal Physiologist in the Department of Biological Sciences at the University of South Carolina will appear shortly in Science. The Department has a strong and growing evolutionary biology group, including Jill Anderson, Carol Boggs, Jeff Dudycha, Bert Ely, Bob Friedman, Jerry Hilbish, Austin Hughes, Tim Mousseau, Joe Quattro, Roger Sawyer, Dick Vogt, and Ward Watt. The Department is also conducting faculty searches in the areas of Gene Expression and Neurobiology.

Assistant Professor in Comparative Animal Physiology

The Department of Biological Sciences at the University of South Carolina at Columbia invites applications for a tenure track position at the rank of Assistant Professor in the area of Comparative Animal Physiology. The position is a 9-month academic year appointment. A Ph.D. or equivalent is required at the time of appointment and post-doctoral experience is highly preferred. Applicants should have a record of research excellence. The successful candidate will be expected to teach majors-level physiology and contribute to the undergraduate and graduate curriculum. Review of applications will begin September 15, 2013 and continue until the position is filled. Applications should be emailed

in .pdf format to physiologysearch@biol.sc.edu. Applications should include a cover letter, C.V., and research and teaching statements. Applicants should also arrange for three letters of reference to be sent to the above address.

The University of South Carolina has been designated as one of only 73 public and 35 private academic institutions with 'very high research activity' by the Carnegie Foundation for the Advancement of Teaching. The University is located in Columbia, the capital of South Carolina, which has a population of over 650,000 in the greater metropolitan area. Columbia is located in the center of South Carolina only two to three hours away from the Appalachian Mountains and the beautiful Atlantic coastline. More information on the Department, the University, and the city of Columbia can be found at www.biol.sc.edu. The University of South Carolina is an affirmative action, equal opportunity employer. Minorities and women are encouraged to apply. The University of South Carolina does not discriminate in educational or employment opportunities or decisions for qualified persons on the basis of race, color, religion, sex, national origin, age, disability, sexual orientation, or veteran status.

Jeffrey L. Dudycha Associate Professor Dept. of Biological Sciences University of South Carolina Columbia, SC 29208 [dudycha \[at\] biol.sc.edu](mailto:dudycha[at]biol.sc.edu) <http://www.biol.sc.edu/~dudycha> dudycha@biol.sc.edu

USouthCarolina LabTech PlantEvolution

USouthCarolina.LabTech.PlantEvolutionaryEcol

The Anderson lab at the University of South Carolina is searching for a temporary full time lab tech from late-August to late-October 2013. The position could be extended for a full year upon satisfactory performance. The successful candidate will help prepare juvenile plants for outplanting in the field in Colorado in October. Specific duties will include: planting seeds, watering and fertilizing plants, organizing plants into the proper order for planting, labeling plants and collecting initial size data while in South Carolina, and traveling to southwestern Colorado (the Rocky Mountain Biological Laboratory) in late September/early October to install the experiment. Addition duties could include processing leaf tissue and assisting with a growth cham-

ber experiment. The ideal candidate will have some experience hiking or living in high elevation environments. The Anderson lab seeks to understand the evolutionary consequences of climate change, focusing on *Boechera stricta* (Brassicaceae), a mustard native to the US Rocky Mountains. In the fall 2013, we will be planting a common garden experiment at 5 sites, ranging in elevation from 2500 m ' 3340 m (8202 feet to 11000 feet). In total, we will plant ~8000 juvenile *Boechera stricta*, and ~8000 seeds and we will have assistance from several other people. The Rocky Mountain Biological Lab (<http://www.rmbll.org/>) is located in Gothic, Colorado near the wildflower capital of Colorado (Crested Butte). We are offering \$12/hour for a full time field assistant (40 hours/week) from late-August through midlateOctober. The start and end dates are negotiable We will cover housing costs and station fees at the Rocky Mountain Biological Laboratory during the field work, but the lab tech would be responsible for her/his food costs. The candidate must be prepared to conduct fieldwork in a remote location in Colorado for 2-3 weeks in September and October 2013.

The application consists of a short cover letter detailing your qualifications, a CV/résumé and contact information for two references, all of which can be emailed to Jill Anderson at: jtanders@mailbox.sc.edu Applications are due by August 16th, 2013.

Feel free to contact Jill if you have any questions about the position. Additional information about the Anderson lab can be found at: <http://www.biol.sc.edu/node/492> <http://people.duke.edu/~ja89/Home.html>
Jill Anderson <JTAnders@mailbox.sc.edu>

UUppsala MolecularEvolution

Tenure Track Position as Assistant Professor in molecular biosciences/evolution (UFV-PA 2013/2112)

Department of Ecology and Genetics / Faculty of Science and Technology

Uppsala University is an international research university focused on the development of science and education. Our most important assets are all the individuals who with their curiosity and their dedication make Uppsala University one of the 100 best universities in the world and one of Sweden's most exciting work places. Uppsala University has 40,000 students, 6,000 employees and a turnover of SEK 5,500 million.

This position can be placed at the Department of Ecology and Genetics (<http://www.ebc.uu.se/Research/-IEG/>), although the actual organizational placement of the position within the faculty of Science and Technology will depend upon the research interests of the successful candidate.

The position is part of the SciLifeLab Fellows program 2014-2019

SciLifeLab (www.scilifelab.se < <http://www.scilifelab.se/> >) is a national center for large scale and hypothesis driven research within molecular bioscience. SciLifeLab is a collaboration between four universities in Uppsala and Stockholm: Uppsala University, The Royal Institute of Technology, Karolinska Institutet and Stockholm University. SciLifeLab is now recruiting 8 excellent research group leaders to strengthen the research environment in Uppsala and Stockholm. One of these recruitments is being made within the faculty of Science and Technology at Uppsala University.

Description of Subject Area: The subject area of molecular biosciences is here defined broadly, including sub-domains such as molecular evolution, genomics, proteomics, computational biology and bioinformatics.

Duties: The position includes research, teaching and administration. Research includes leading a research group within the area of molecular biosciences and co-operating with other groups within SciLifeLab and Uppsala University and to actively contribute to the research at SciLifeLab. Teaching duties include course responsibility, course administration and supervision of second- and third-cycle students. The holder shall also keep abreast of developments within the subject area and the developments in wider community that are significant for the work at the university. A position as associate senior lecturer is intended to qualify the holder for a teaching position with higher qualification requirements.

Appointment Period: The position can be held for a maximum of four years. An associate senior lecturer can apply for promotion to senior lecturer. If the associate senior lecturer is deemed suitable and fulfills the criteria for promotion established by the Faculty Board he/she shall be promoted to and employed as senior lecturer.

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

According to Uppsala University's appointments regulations, teaching expertise is an eligibility requirement for appointment as an associate senior lecturer. To obtain teaching expertise, the applicant should have participated in teacher training for higher education of relevance to operations at the University, comprising at least five weeks, or be considered to have acquired the equivalent competence. If it has not been possible to acquire this qualification prior to employment, qualifying training for teachers in higher education shall be completed during the first two years of employment.

A general eligibility requirement is that the applicant must possess the personal capabilities necessary to carry out fully the duties of the appointment.

Documented ability to teach in Swedish and/or English is a requirement unless special reasons prevail. The holder is expected to be able to teach in Swedish within two years.

Assessment Criteria/Ranking Research Expertise and Teaching Expertise: The ranking of eligible applicants will be based primarily on research and teaching expertise. Research expertise comprises research merits as well as the applicants potential to contribute to the future development of both research and teaching. In assessing research expertise special weight will be attached the applicants ability to use and develop new technology within the area of molecular bioscience to study fundamental biological questions.

As much attention shall be given to the assessment of teaching expertise as to the assessment of research expertise. Teaching expertise comprises educational and teaching qualifications. In assessing teaching expertise

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UVirginia LabAssist EvoGeneticsBehavior

LABORATORY AND RESEARCH SPECIALIST

The Brodie Laboratory in the Department of Biology is seeking a Laboratory and Research Specialist I. This position maintains insects and reptiles before, during and after experiments, and breeds animals for studies. Incumbent performs DNA extraction, isolation and

preparation, PCR and sequencing reactions including microsatellite analysis, BAC library screening. Incumbent is also responsible for data collection, entry, analysis, and presentation, including analysis and transcription of video records of behavior. Cleans and maintains experimental equipment and cages and is responsible for day-to-day administration of the laboratory including: training and coordination of student personnel associated with animal care efforts, and purchasing and receiving of laboratory supplies. Incumbent interacts with and assists other laboratories with similar techniques.

A Bachelor's degree in Biology or a related field is required. At least one year of work in a laboratory setting, including experience handling and caring for animals for behavioral studies and experience managing DNA analysis equipment and molecular techniques. Experience as a student will be considered.

To apply, please complete an application on-line and attach a cover letter, Resume/CV, and the contact information for three references through Jobs@UVA – <https://jobs.virginia.edu> – search on posting number 0612620.

The University of Virginia is an affirmative action/equal opportunity employer committed to diversity, equity, and inclusiveness.

bbrodie@virginia.edu

UWisconsin-Milwaukee Bioinformatics

Position: Assistant Researcher (Bioinformatics Specialist) Appointment: Academic Staff, Fixed Term Appointment, 100% time Anticipated Starting Date: Immediately

The Great Lakes Genomics Center at the University of Wisconsin-Milwaukee, School of Freshwater Sciences, is seeking a highly qualified individual to assist in providing bioinformatics support for functional, comparative, and environmental genomics projects. The Great Lakes Genomics Center has been formed to develop genomic resources that will expand our ability to answer key questions in freshwater sciences, such as the impact of contaminants, the composition of bacterial communities in freshwater systems, examination of population changes of key freshwater organisms and identification of biomarkers for environmental studies. The indi-

vidual hired will manage bioinformatics resources pertaining to multiple on-going, multi-disciplinary projects including development of project-specific bioinformatics (computational and database) tools in conjunction with faculty, students, and academic staff; training and technical support for bioinformatics software; analysis of genomic and sequence data; oversight of computational and informatics resources including software and hardware; liaise with staff at the UWM computing cluster facility. Analysis will include analyzing genomic data including de novo assemblies of non-model species, multiple sequence alignment with next-gen high-throughput sequencing data, management of large datasets, gene and protein prediction, neural network analysis, and analysis of microarray data. Experience in programming with Perl, BioPerl or other programming related to sequence analysis, statistical packages (such as R or MATLAB), familiarity with UNIX environments and computing clusters desired. The Assistant Researcher position is a 12-month, 100% fixed term Academic Staff appointment. This position may be renewable on an annual basis. Salary will be within Academic Staff salary Range and will be commensurate with experience.

Applicants must apply online by visiting <https://jobs.uwm.edu/postings/15304>. All applicants must submit a cover letter outlining qualifications and interests, along with a resume that includes names of three references that can speak to the applicants abilities, and contact information for all three references. Any questions can be directed to Dr. Rebecca Klaper, Director of the UWM Great Lakes Genomics Center at rklaper@uwm.edu.

Review of applications will begin on August 12, 2013 and will continue until the position is filled.

Rebecca D Klaper <rklaper@uwm.edu>

UWyoming EvolutionaryBiologist

The Biodiversity Institute, a division of the Haub School of Environment and Natural Resources, and the Departments of Botany and Zoology and Physiology at the University of Wyoming seek to hire one evolutionary biologist and one population ecologist whose research programs are strongly aligned with conservation biology and biodiversity issues. The primary appointment for the population ecologist will be in the Department of Zoology and Physiology and the evolu-

tionary biologist will be in the Department of Botany; neither position is restricted taxonomically. The scientists will contribute to the academic missions of their departments, the interdepartmental Ph.D. program in Ecology, and the applied mission of the Biodiversity Institute.

> Learn more at <http://www.uwyo.edu/biodiversity/-hiring.html>.

Evolutionary Biologist

We seek an individual with a Ph.D. and a demonstrated track record of excellence in applied and conceptual aspects of genetics and evolution. The position will be a joint appointment between the Biodiversity Institute and the Department of Botany (www.uwyo.edu/-botany).

Population Ecologist

We seek an individual with a Ph.D. and expertise in integrating quantitative population ecology with applied issues related to conservation or biodiversity. The position will be a joint appointment between the Biodiversity Institute and the Department of Zoology and Physiology (www.uwyo.edu/zoology).

Application information

Review of applications will begin September 9, 2013 and continue until suitable candidates are found. Further information, including a list of required application materials, is available on the Biodiversity Institute website (www.uwyo.edu/biodiversity).

The University's policy has been, and will continue to be, one of nondiscrimination, offering equal opportunity to all employees and applicants for employment on the basis of their demonstrated ability and competence without regard to such matters as race, sex, gender, color, religion, national origin, disability, age, veteran status, sexual orientation, genetic information, political belief, or other status protected by state and federal statutes or University Regulations.

The University of Wyoming is committed to providing a safe and productive learning and living community. To achieve that goal, we conduct background investigations for all final candidates being considered for employment. Background checks may include, but are not limited to, criminal history, national sex offender search, employment and motor vehicle history. Offers of employment are contingent upon the completion of the background check.

Brenna.Marsicek@uwyo.edu

Valdivia Chile Evolution

Assistant (or Associate) Professorship in Ecology and Evolution (Valdivia, Chile).

The Faculty of Sciences, University Austral of Chile (www.uach.cl), is announcing an open tenure-track position in Ecology and evolution. The position is located at the Institute of Environmental Sciences and Evolution, and is based in Valdivia, Region de Los Rios (http://www.ciencias.uach.cl/-instituto/ciencias_ambientales_evolutivas/index.php; <http://www.ecolevol.cl>).

Duties: The duties of the assistant (or Associate, depending on CV) professor will include research, teaching and supervision of theses and dissertations, as well as involvement in administrative tasks. The main focus of research is expected to be relevant to the special field of the candidate. The professor is expected to lead projects in the fields of ecology and/or evolution, particularly in those areas where the use of molecular tools is essential (e.g. genetics, molecular ecology, conservation, etc).

Qualifications: The University will recruit talented, motivated academics that since obtaining the PhD degree gained additional academic and other relevant qualifications and merit in their field. The successful applicant will be employed as assistant or associate professor depending on the CV. The use of molecular tools as part of the past, ongoing and future research is essential.

Applications must be accompanied by the following English-language documents:

- (i) Doctoral degree
- (ii) CV and list of publications as pdf
- (iii) 2 reference letters
- (iv) Motivation letter

The closing date for applications is October 15, 2013. The professor is expected to start working on January 2, 2014. Applications have to be send by postal mail to "Dirección de Personal, Concurso N° 18, Universidad Austral de Chile, Independencia 641, Valdivia, Chile".

Further information about the position may be obtained from the Head of the Department of Biosciences Mauricio Soto (mrsoto@uach.cl; [\[boa@gmail.com\]\(mailto:boa@gmail.com\)\). In addition to postal mail, applications might also be sent to Mauricio Soto via email.](mailto:msotogam-</p>
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Leonardo D Bacigalupe

Instituto de Ciencias Ambientales y Evolutivas Facultad de Ciencias Universidad Austral de Chile Campus Isla Teja s/n Valdivia Chile

Leonardo Bacigalupe <lbacigal@gmail.com>

Western WashingtonU Evolutionary Genetics

Assistant Professorship in Genetics About the Position: The Biology Department at Western Washington University invites applications for a tenure-track, assistant professor position in GENETICS, beginning September 16, 2014. We seek an individual who is committed to undergraduate and MS student education and who will establish a vigorous research program that involves students. Our department is committed to increasing the quantitative skill set of biology majors and emphasizing quantitative approaches to biological research. Successful applicants for this position will demonstrate a strong quantitative approach in a genetics research program. They will also clearly articulate how they can translate their enthusiasm for quantitative work into a rigorous statistics course and how they can contribute to a genetics course reflecting contemporary problems in genetics. The Biology Department is committed to the University's strategic goal of recruiting and retaining a diverse faculty and welcomes applications from diverse candidates.

About the Department: Biology

Position Responsibilities: - Teach our core course in Genetics (Biol 321) - Teach the introductory statistics course for majors (Biol 340, Biometrics) - Teach one course in our introductory biology sequence - Teach a 400-level course in area of expertise - Establish an active research program - Mentor undergraduate and graduate (Master's) students' research projects - Seek extramural funding for research program

Required Qualifications: - Ph.D. in biological sciences, mathematics or related field - Postdoctoral experience in genetics using quantitative or statistical approaches including, but not limited to, modeling or bioinformatics - Evidence of the potential to teach Biol 321 (Genetics) - Evidence of the potential to teach Biol 340 (Biometrics) - Evidence of the potential to contribute

to our 400-level curriculum - Evidence of effective scholarship in genetics - Evidence of the potential to establish a research program in area of expertise that includes mentoring undergraduate and graduate (Master's) students

Preferred Qualifications: - Evidence of potential to teach Biol 432 (our capstone course in evolution) - Evidence of potential to teach Biol 324 (molecular biology laboratory course) - Demonstrated ability to work with a diverse student body - Ability to collaborate effectively with students and colleagues

Academic Emphasis: Genetics

Job Location: Western Washington University, Bellingham, WA

Salary: Commensurate with experience and qualifications

Bargaining Union: United Faculty of Western Washington

Application Instructions and Requested Documents: Interested candidates must apply online. Note: You will need to use Internet Explorer to utilize the online application system. For application information and instructions, go to the WWU Employment website <http://www.wwu.edu/jobs>. Attach a cover letter addressing the required and preferred qualifications, curriculum vitae, a statement of teaching philosophy and interests, and a detailed statement of research plans.

Arrange for three (3) recommendation letters to be sent to: MaryAnn.Merrill@wwu.edu

Or to: Geneticist Search Committee, Department of Biology, MS-9160, Western Washington University, 516 High Street Bellingham, WA 98225-9160

Other Information: Follow Western Employment on Facebook and WWU Employment on Twitter
Job Posted: 8/12/2013

Closing Date Notes: Application review (including attached materials and letters of recommendation) begins October 21, 2013; position is open until filled

Recruitment #: 130397

Western Washington University (WWU) is an equal opportunity and affirmative action employer committed to assembling a diverse, broadly trained faculty and staff. Women, minorities, people with disabilities and veterans are strongly encouraged to apply. In compliance with applicable laws and in furtherance of its commitment to fostering an environment that welcomes and embraces diversity, WWU does not discriminate on the basis of race, color, creed, religion, national origin, sex, disability, age, veteran status, sexual orientation,

gender identity or expression, marital status or genetic information in its programs or activities, including employment, admissions, and educational programs. See WWU's Policy on Providing Equal Opportunity and Nondiscrimination. EO/AA inquiries may be directed to the Vice Provost for Equal Opportunity and Employment Diversity, Title IX Coordinator, Equal Opportunity Office, Western Washington University, Old Main 345 (MS 9021), 516 High Street, Bellingham, WA 98225; 360.650.3307 (voice) or 711 (Washington Relay); EOO.

WWU is committed to providing reasonable accommodations to qualified individuals with disabilities upon request. To request this document in

— / —

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>

XTBG China Molecular Evolution Lab Manager

The Ecological Evolution group at the Chinese Academy Of Sciences, Xishuangbanna Tropical Botanical Garden (XTBG), Yunnan invites applications for a laboratory manager position. We are looking for a bilingual individual, with strong command of written and spoken English and Chinese, with at least a MSc degree and laboratory experience. Experience in Molecular Biology and/or Bioinformatics would be preferred, but training can be provided if necessary. The lab manager duties include: 1) the daily management of a Molecular Ecology lab, including stock management, inventory and ordering, 2) assisting the PI and other lab members with molecular experiments, including DNA/RNA extractions, PCR, RT-PCR, qPCR, preparation of libraries for next-generation sequencing... 3) voucher inventory and management, 4) assisting the PI with administrative duties, 5) training new students and staff in molecular techniques. Established in 2007 within China's largest botanical garden, the Ecological Evolution Group in the Xishuangbanna Tropical Botanical Gardens aims to promote research on biodiversity and evolution of the Asian tropics within the Chinese Academy of Sciences and internationally. We integrate experience across a wide range of scientific approaches and techniques in Molecular Ecology, from

phylogenetics to population genomics. For more information about XTBG and our research group, please visit www.xtbg.ac.cn and www.ecologicaevolution.org. Salary will be commensurate with the qualification and experience of the candidate. The position is available immediately. Candidates with a strong record of accomplishment should submit a CV, please include at least one potential reference who could provide letters

of recommendation. Please send the application to Dr. Yann Surget-Groba (yann <at> xtbg.org.cn). Informal inquiries to the same address are welcome.

Yann Surget-Groba, P.I. Ecological Evolution Group
Key Laboratory of Tropical Forest Ecology Xishuangbanna Tropical Botanical Garden Chinese Academy of Sciences Menglun, Mengla, Yunnan 666303 China

yann@xtbg.org.cn

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ArtificialSelection Simulation

Does anyone know of/has written an interactive computer-based simulation demonstrating the mechanism of artificial selection, particularly with respect to agriculture, suitable for a general audience? Thank you in advance for your suggestions! Please email to: rebecca.gray@zoo.ox.ac.uk.

Rebecca Gray <atlasrrg@gmail.com>

ArtificialSelection Simulation answers

Thank you for the suggestions to my question about programs demonstrating artificial selection. Several people have asked me to share the responses I received.

Henry Schaffer has written some programs:

<http://www.cals.ncsu.edu/gn/ex/mit-eve.html> -
With Full Genetic construction of each offspring<
<http://www.cals.ncsu.edu/gn/ex/inbreed.html> > -
With Emphasis on the pattern of heterozygosity
over generations< <http://www.cals.ncsu.edu/gn/ex/-inbreedc.html> >

and also one for full sib lines Inbreeding - Full Sib Lines
< <http://www.cals.ncsu.edu/gn/ex/inbfs.html> >

Another recommendation was the Populus software developed by Don Alstad and colleagues at the University of Minnesota particularly suitable for Biology Undergrads or have background in Biology.

Also suggested was net logo.

Rebecca Gray <atlasrrg@gmail.com>

Code blog

Share your code on the Molecular Ecologist blog

Almost everyone has written a useful script or other piece of code to accomplish a task. Sharing these more widely would save the rest of the community from repeating the effort.

To help get all this code into the public sphere, the Molecular Ecologist blog (<http://www.molecularecologist.com/>) is starting a new series of posts: anyone can send in a piece describing their code, and we'll put it up on the blog. The code itself will be placed on our GitHub page for easier access.

Submissions can be sent to molecularecologist@gmail.com and viewed at <https://github.com/TheMolecularEcologist>. More detailed information can be found on the blog itself: <http://www.molecularecologist.com/2013/08/-want-to-share-your-code/> Kimberly Gilbert <kgilbert@zoology.ubc.ca>

Grant assessment

I'm interested in doing some research on the assessment of grants and how these assessments are used in deciding whether a grant be funded. To this end I'm looking for details of grant schemes in which numerical or quasi-numerical scores (e.g. very good, good...etc) are given by reviewers of the grant. If people could send me (a.c.eyre-walker@sussex.ac.uk) details of any such schemes I would be very grateful.

Adam Eyre-Walker Professor of Biology School of Life Sciences University of Sussex Brighton BN1 9QG

tel : 01273 678480

www.lifesci.sussex.ac.uk/home/Adam_Eyre-Walker/Website/Welcome.html a.c.eyre-walker@sussex.ac.uk

Hirsh book

When Aaron Hirsh, a biologist and writer, leads twelve college students to a remote fishing village on the Sea of Cortez, they come upon a bay of dazzling beauty and richness. But as the group pursues various threads of investigation ecological and evolutionary studies, the stories of villagers, the journals of conquistadors they recognize that the bay, spectacular and pristine though it seems, is but a ghost of what it once was.

It is a painful realization, but the travelers' experiences also reveal a way forward. After weathering a great hurricane and facing a rare whale that follows in its wake, they realize that the bay's best chance of recovery may in fact reside in our own human stories, which can reweave a compelling memory of the place. But the most surprising discovery is that those tales lead also to other frontiers with which we've unwittingly lost touch.

Hirsh's voice resounds with depth and compassionate humanity. This is science writing of the very first order, transcending the genre to become literature.

Aaron Hirsh thinks like a scientist and writes like a poet. Telling Our Way to the Sea is a captivating, deeply illuminating exploration of the sumptuous natural world we have, and of its origins in the many worlds we've lost. A moving and important and utterly beguiling book. William Souder, author of *On a Farther Shore: The Life and Legacy of Rachel Carson*

A book as rich and intricate as the oceanic world it evokes, Telling Our Way to the Sea is hard to pigeon-hole but easy to savor. Using the dramatic backdrop of the Sea of Cortez fertile waters rimmed by brutal desert Hirsh plumbs marine biology, evolutionary change, ecological memory, the history of science, and much more to explore the past and possible future of this fecund ecosystem. One of the most thoughtful books on nature, and our place in it, that I've read in years. Scott Weidensaul, author of *Living on the Wind and The First Frontier*

"Roberts and Co." <info@roberts-publishers.com>
"Roberts and Co." <info@roberts-publishers.com>

LifeHistoryTheory mrLife

I am pleased to announce <http://mrLife.org> - a new website on inevitable life history evolution

It is the site of Malthusian Relativity; that shows how density dependent interactive competition selects for evolution from self-replicating molecules over large-bodied organisms with sexual reproduction to eusocial colonies, including exponents of body mass allometries and the eco-evolutionary dynamics of population cycles.

<http://mrLife.org> provides concepts, predictions and evidence - together with free downloads of original work since 1995.

Please enjoy the wonders of unfolding life

Lars Witting

Greenland Institute of Natural Resources

P. O. Box 570, 3900 Nuuk

Greenland

Email: lawi@natur.gl

Mito-nuclear conflict explanations

Dear colleagues,

I've been working with the molecular systematics of a group of octocoral genera. I did a tree of the mitochondrial gene mtMutS and one of the nuclear gene 28S rDNA. In general they are quite congruent EXCEPT for a couple of genera, let's call them A and B. Each genera has two subclades each, A1, A2, B1, and B2. The 28S (nuclear) tree recovers A and B as monophyletic and as sister groups, which is consistent with morphological data (i.e. taxonomy). The MutS (mitochondrial) however, recovers A and B as polyphyletic. All support values of ML bootstrap and posterior probability are high in both markers.

Basically it looks like this:

28S rDNA & MORPHOLOGY

```
+-----+ A1 || +-----+ || || || +-----+ A2 | -+ ||
| +-----+ B1 || || +-----+ || +-----+ B2
```

MutS

```
+-----+ A1 || +-----+ || || || +-----+ B1 | -+ ||
| +-----+ A2 || || +-----+ || +-----+ B2
```

(remember A1, A2, B1 and B2 are not species, but subclades of species)

Trying to find an explanation, I found that normally is the other way around: mitochondrial data is monophyletic and nuclear data isn't, due to differences in inheritance and effective population size. Main explanations of mito-nuclear conflict are:

- Incomplete lineage sorting (ILS): Normally, one expects to have ILS in the nucleus, because it evolves more slowly (the opposite of what I have). I think balancing selection would be needed to maintain it in the mitochondria. But pair-wise Ka/Ks of all sequences of A and B are all less than 0.01, so one would expect negative selection.

- Homoplasy: Although mitochondrial markers are more prone to homoplasy than nuclear genes, it seems somewhat unlikely to me since these taxa diverge very recently and plotting numbers of transitions and transversions vs genetic distance give very straight lines.

- Undetected paralogs: I have no frame-shifts nor stop codons. Also, I don't think there is any evidence of the mtMutS gene being somehow moved to the nucleus or something like this, for example. Also, a number of gains and losses would be necessary to recover the exact same topology, so it looks like a rather forced explanation.

- Hybridization: I think this could work. Maybe some events of hybridization happened during the early divergence of A and B. Mitochondrial genome introgress faster, it seems. Still, it would require maybe more than one event and it's also a complex scenario.

Obviously there are always problems in using only one locus per genome but since the 28S is consistent with morphology I think we could argue that it reflects the species tree. What it's happening with the mtMutS then?

Any other ideas? Also, how do you think I could tackled each explanation?

Thanks a lot!!

Sandra Ament

seelament@gmail.com

Phylogenetics Symposium Recordings available

Recordings from the Third Annual Spring Symposium, Genome-scale Phylogenetics, hosted by NMNH's Frontiers in Phylogenetics Program are now available on iTunesU for free.

You can access the recordings using this link: <https://itunes.apple.com/us/itunes-u/frontiers-in-phylogenetics/id677376797?mt=10> Frontiers in Phylogenetics 3rd Annual Spring Symposium Baird Auditorium, National Museum of Natural History Washington, DC, May 20 & 21, 2013

Symposium 9:45-10:30 My Students Could Do My Thesis in Five Minutes; How to Cope with the Next Generation Rob DeSalle, Sackler Institute of Comparative Genomics, AMNH

10:30-11:00 Using Whole Genomes to Resolve the Avian Tree of Life Erich Jarvis, Duke University Medical Center

11:00-11:30 Break

11:30-12:00 Molecular Phylogenies, Genomics and the Bacterial Species Concept Margaret Riley, University of Massachusetts Amherst

12:00-12:30 Phylotranscriptomics to Bring the Understudied Ostracoda into the Fold Todd Oakley, University of California Santa Barbara

12:30-14:00 Lunch Break

14:00-14:30 Evolution via the Grape Vine - Insights from Transcriptome Sequence Data Jun Wen, Department of Botany, NMNH

14:30-15:00 Genome-scale Phylogenetics of Rapid Adaptive Radiation: RAD Sequence Data Illuminates the History of Lake Victoria Cichlids Catherine Wagner, Eawag, Swiss Federal Institute for Aquatic Science and Technology

15:00-15:30 Break

15:30-16:00 Shotgun in the Dark or a Rifle in the Daylight? The Case for Using Single Copy Orthologous Gene Capture in Phylogenetics Gavin Naylor, Hollings Marine Lab, College of Charleston and Medical University of South Carolina

16:00-16:30 Achieving Phylogenomic Nirvana: Ultra-

conserved Elements (UCEs) Capture History at the Species, Population, and Individual Levels Brant Faircloth, Department of Ecology and Evolutionary Biology, University of California, Los Angeles

"Kingston, Sarah" <KINGSTONS@si.edu>

Reference request2

Hi, all:

Trying this again - my first attempt generated gibberish - apologies for giving you something worthless that required tossing. I am not sure what went wrong - what I sent was not what went out - so I'm hoping the same thing doesn't happen this time. If it does, I promise to give up - and my second set of apologies in advance, just in case.

The reference I'm hoping someone out there has a .pdf copy of:

Alexander, R. D. 1961. Aggressiveness, territoriality, and sexual behavior in field crickets (Orthoptera: Gryllidae). *Behaviour*, 17: 130-223.

My institution doesn't have access to this journal.

Thanks in advance.

Paul Mack

Paul Mack, Ph.D Associate Professor of Biology Department of Sciences and Mathematics Mississippi University for Women 1100 College Street, MUW-100 Columbus, MS 39701 662-329-4987

pmack@as.muw.edu

Reference thanks

Dear evoldir:

Many thanks to all who responded to my request for this paper! The response was indeed impressive - 20 .pdfs sent so far with several other indirect offers of help.

Thanks so much!

Cheers, Paul Mack

Paul Mack, Ph.D Associate Professor of Biology Department of Sciences and Mathematics Mississippi University for Women 1100 College Street, MUW-100 Columbus, MS 39701 662-329-4987 dfdf "I do not feel obliged to believe that the same God who has endowed us with sense, reason and intellect has intended for us to forego their use." - Galileo

pmack@as.muw.edu

Request reference

Hi, all:

By any chance, does anyone have a .pdf of the R. D. Alexander reference below?

Alexander, R. D. 1961. Aggressiveness, territoriality, and sexual behavior in field crickets (Orthoptera: Gryllidae). *Behaviour* 17: 130-223.

My institution doesn't have access to this journal.

Thanks in advance.

Paul Mack

Paul Mack, Ph.D Associate Professor of Biology Department of Sciences and Mathematics Mississippi University for Women 1100 College Street, MUW-100 Columbus, MS 39701 662-329-4987 dfdf "I do not feel obliged to believe that the same God who has endowed us with sense, reason and intellect has intended for us to forego their use." - Galileo

pmack@as.muw.edu

SSB SymposiaProposals

The Society of Systematic Biologists invites proposals for symposia at the 2014 Evolution meeting, to be held June 20-24, in Raleigh, North Carolina, USA. Proposals should include a tentative list of speakers, as well as a short (~1 paragraph) description of the subject and importance of the proposed Symposium. Funds to defer the cost of travel are available for speakers. All proposals, as well as any questions, should be directed to the SSB Program Chair Bryan Carstens <carstens dot 12 at osu dot edu>. Proposals are due by October

1, 2013 and will be voted on by the SSB Council shortly thereafter.

Bryan C. Carstens Department of Evolution, Ecology, & Organismal Biology The Ohio State University 318 W. 12th Avenue Columbus, OH 43210-1293

web: <http://carstenslab.org.ohio-state.edu/> web: <https://sites.google.com/site/bryanccarstens/> skype: bryan.carstens office: 614.292.6587 cell: 734.474.8527

"Carstens, Bryan C." <carstens.12@osu.edu>

Software DNA fragment analysis

Dear colleagues,

I'm searching for an alternative program to Applied Biosystem's GeneMapper software for the analysis of DNA fragment results (microsatellites, SNPs, AFLPs) from Applied Biosystem's 3500 Genetic Analyzer. Applied Biosystem does have a freely available program called Peak Scanner that will do the task required. Unfortunately, while this program is compatible with files generated by most Applied Biosystem sequencing platforms, it is not compatible with those from Applied Biosystem's 3500 Genetic Analyzer.

I'd like to receive recommendations or researchers' opinions/experiences on programs that they may have used that are capable of analyzing DNA fragment results from Applied Biosystem's 3500 Genetic Analyzer.

Cheers, Paul

Paul Bloor Instituto de Genética Universidad Nacional de Colombia Código Postal 111321 Bogotá D.C - COLOMBIA Tel.: +57-1-3165000 Ext. 11614 Fax.: +57-1-3165526

pbbloor@gmail.com

Software jMHCversion1 5

Dear colleagues,

We are happy to announce the NEW public release of jMHC 1.5

Update release includes:

* great speed-up of imports, exports and output processing. * changes in graphical interface, now GUI is more user friendly * some bug-fixes

jMHC is user friendly graphical interface software for genotyping of multilocus gene families using next generation amplicon sequencing.

jMHC is written in Java and runs on Microsoft Windows, GNU/Linux OS and Mac OS. Current version: binaries, source code, sample data and user manual are available at <http://code.google.com/p/jmhc/>. Program is published under the terms of the GNU General Public License v3.

Best wishes,

Michal Stuglik

Michal Stuglik, PhD student Institute of Environmental Sciences Molecular and Behavioral Ecology Group Jagiellonian University Gronostajowa 7 30-387 Krakow, Poland www: <http://www.eko.uj.edu.pl/~molecol/michal.stuglik> michal.stuglik@gmail.com

USNatAcademySci ReviewAward

Here is an award nomination announcement that seems to me fitting for the EvolDir:

The U.S. National Academy of Sciences invites nominations for its 2014 award for Scientific Reviewing, in the area of "Human Bio-social Interactions." – the interface between aspects of biology (genetics, physiology, evolution etc.) and human sociality. The award is for synthetic reviews (one or more articles, books, monographs) that have been influential in a field. They can be from any date(s) and the nominee from anyplace in the world. The deadline is September 30. More information at:

<http://www.nasonline.org/about-nas/awards/-scientific-reviewing.html> Mary Jane West-Eberhard Smithsonian Tropical Research Institute mjwe@sent.com phone/fax +506 2228-0001 AIRMAIL and courier: c/o Escuela de Biología frente a Agronomía Ciudad Universitaria Universidad de Costa Rica

Costa Rica

Mary Jane West-Eberhard <mjwe@sent.com>

Unanticipated reuse of papers

Dear Colleagues,

I've recently discovered that some commercial publishers are re-editing articles from open-access journals and publishing them as multi-author books, without the authors' knowledge (example here). Although most authors I've spoken with find this objectionable it's quite legal, since open-access articles are usually published under Creative Commons attribution-only (CC-BY) licenses.

Before pressing for any changes I'd like to get a broad survey of researchers' opinions on this, so I've prepared a short (3 question) survey. Here's the link: <http://www.surveymonkey.com/s/5SFQSG2>. Please feel free to pass this survey link on to other researchers or scientific email lists.

Thanks,

Rosie

p.s. If you'd like more information I've also discussed this issue on my blog: <http://rrresearch.fieldofscience.com/2013/07/apple-academic-press-predatory.html>; <http://rrresearch.fieldofscience.com/2013/07/informing-authors-of-real-consequences.html>; <http://rrresearch.fieldofscience.com/2013/08/how-many-for-profit-publishers-are.html>; <http://rrresearch.fieldofscience.com/2013/08/who-edits-books-for-apple-academic-press.html>. Dr. Rosemary J. Redfield redfield@interchange.ubc.ca

Professor, Dept. of Zoology Univ. of British Columbia Rm. 2551 Life Sciences Centre, Vancouver, B.C. V6T 1Z3 Canada Office: (604) 822-3744 Lab: (604) 822-6323 Cell: (778) 960-4950 Fax: (604) 822-2416

Web site: <http://www.zoology.ubc.ca/~redfield>
Research blog: <http://rrresearch.blogspot.com> redfield@zoology.ubc.ca

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AlbertEinstein StatGenetics

A postdoctoral position is available in the laboratory of Dr. Adam Auton, in the Department of Genetics at Albert Einstein College of Medicine in New York, USA (<http://autonlab.einstein.yu.edu/>). Research goals of the lab are to use statistical methods in conjunction with high-throughput DNA sequencing to understand patterns of genetic diversity, and to quantify how these patterns vary across individuals. We are interested in a variety of problems, including investigation of the influence of mutation, recombination, and natural selection. Much of our current work is focused on humans and other mammals, but we are potentially interested in other organisms.

We welcome candidates with a demonstrated interest in genetics and evolution, with a background in Population and Statistical Genetics, Bioinformatics, Computer Science, or related disciplines. Strong programming skills are essential. Experience with high-throughput sequencing data and/or experimental techniques would be an advantage. Salary will be based on the NIH scale. Please email a CV including list of publications and names of two references to adam.auton@einstein.yu.edu. Informal inquiries are also welcome.

The Albert Einstein College of Medicine is a leading medical research institution located in a residential area of the Bronx, NY, and is a short commute from Manhattan. The Auton Lab is part of the Computational Genetics Division, situated in the Michael F. Price Center for Genetic and Translational Medicine.

adam.auton@gmail.com

BostonU BatMHC

White-nose Syndrome and Immune System Genes in Little Brown Bats

I am seeking a postdoctoral researcher to work on molecular genetic/genomic analyses of immune system genes in little brown bats (*Myotis lucifugus*). Eastern populations of this species have been devastated by white-nose syndrome (WNS), an invasive fungal disease caused by *Geomyces destructans*. The project will include a comparison of genetic diversity in immune system genes in pre- and post-exposure populations as well as the opportunity to develop additional research ideas.

Candidates with an interest in immunogenetics, experience in vertebrate field biology, population genetics, molecular genetics/genomics (incl. fragment library preparation for high throughput DNA sequencing), and/or bioinformatics are particularly encouraged to apply. The postdoc will join an active laboratory that includes other ongoing research on bats and WNS as well as population genomic studies of birds. The position is available immediately; start date is negotiable, but preference will be given to candidates who are available sooner rather than later.

Please contact Michael Sorenson (msoren@bu.edu) directly for more information. If you are interested in applying, please send a CV, statement of interests, and contact information for three references.

Michael Sorenson Professor and Chair Department of Biology Boston University 5 Cummington Mall Boston, MA 02215

(617) 353-6983 FAX: (617) 353-6340

msoren@bu.edu

Cincinnati ComputationalGenetics

An up to three-year postdoctoral position is available immediately for a computational biologist in the evolutionary genetics lab at Cincinnati Children's Hospital Medical Center. We are looking for a candidate to

work at the interface of comparative genomic data with quantitative and developmental genetics; aiming at developing approaches that incorporate insights from developmental structure and its evolution into genomic analyses.

The overall research topic of the lab is the evolution of pleiotropic effects, and the context-dependency of genetic effects; we strive to connect population-genetic phenomena to their mechanistic bases. The specific questions that postdoctoral researcher will be involved in focus on exploring the genetic basis of birth timing and the genetic basis of divergence of vertebrate limbs.

Quantitative and computing skills are essential for the position, understanding of molecular biology is advantageous. The ability for team work across disciplines as well as independence in research are necessary skills.

Enquiries may be directed to Dr Mihaela Pavlicev via email: mihaela.pavlicev@cchmc.org (Skype or telephone conversation can be arranged)

Please send the applications consisting of CV, publication list and a letter of interest, to the following email: mihaela.pavlicev@cchmc.org

Cincinnati Children's hospital offers an outstanding academic environment, with an explicit commitment to basic research.

mihaelap@ulrik.uio.no

ColumbiaU PopulationGenetics

POSTDOC IN POPULATION GENETICS, COLUMBIA UNIVERSITY

A postdoctoral position is available in Molly Przeworski's group at Columbia University.

Research in the group focuses on understanding recombination in humans and other species, and on modeling and detecting the footprints of natural selection in genetic variation data. For more information, see <http://przeworski.uchicago.edu/wordpress/> The specific postdoctoral project will be focused on the analysis of recombination patterns in birds. Applicants for the position must have a strong background in bioinformatics, including experience with genomic data analysis, as well a sincere interest in the genetics and evolution of non-model organisms. Programming skills in R and Perl/Python are essential.

The lab is located in the Biology department on the main (Morningside Heights) campus of Columbia University, contiguous to groups run by Harmen Bussmaker, Dana Pe'er and Guy Sella. It benefits from close ties with these groups as well as that of Itzik Peer, and more generally from the stellar research communities at Columbia and neighboring NY institutions.

Postdoctoral fellows at Columbia have access to nice, subsidized housing within walking distance of campus.

Informal inquiries as well as applications (including a CV, copies of relevant publications and two letters of recommendation) should be emailed to Molly Przeworski at <molly.przew@gmail.com>. The start date can be any time but no later than Jan 2014.

Molly Przeworski Dept. of Human Genetics Dept. of Ecology and Evolution University of Chicago

As of fall 2013 Dept. of Biology Columbia University
molly.przew@gmail.com

Czech Republic Computational Evolution

Postdoc in computational inference for evolutionary studies

A 22 month postdoc position is available at the Studenec campus of the Institute of Vertebrate Biology, Academy of Sciences of the Czech Republic (<http://www.ivb.cz/working-places-external-research-facility-studenec.html>) within the framework of the EU funded project "Next-generation technologies in evolutionary genetics" to apply multilocus population genetics approaches to the analysis of genomic data, in particular analysis of dense SNP data from admixture systems, inference over combined geographic and genomic data from hybrid zones and introgression analyses of natural species barriers.

The successful candidate will have wide interests and a thirst for deep understanding. They will be intellectually mature, quick to learn, but slow to rush to hasty conclusions. They will have experience in several of the following: algorithmics, population genetics, probability, inference, high dimensional visualisation, information theory, evolution, languages, the scientific method. They will be interested in several more of these topics. The postdoc academic advisors are trained in computer science, population genetics, classical genet-

ics and have long experience of inference in evolutionary studies. The candidate's existing and proposed work will be judged on its quality and utility to the scientific community rather than gross number of publications. Those hoping for large numbers of hasty publications need not apply.

The Studenec campus is situated in woods beside a lake in the Czech highlands, half an hour from Brno, the second city of the Czech Republic. The region's rolling hills and woods are popular with cyclists. The candidate will work in the joint office and lab building recently constructed with funding from Academy of Sciences of the Czech Republic. The campus faculty are heavily biased toward early-career researchers, with a good gender balance at all levels, many young families and shared crèche/ childcare services. On campus work discussion is in international English, though an initial high level in English is not required for the postdoc, only a willingness to learn. The position is well suited to candidates who wish to broaden their experience and skills in an area of evolutionary study that will always be in demand, while at the same time maintaining a healthy work/life balance.

Candidates should submit a short CV and letter of interest to Stuart JE Baird (stuart.j.e.baird@gmail.com) and Josef Bryja (bryja@brno.cas.cz). These will be read directly by the academic advisors and interviews will be held until a suitable candidate is found.

The deadline for applications is 31st of August 2013, the contract can start as early as September 2013.

Mgr. Olga Ruzickova Institute of Vertebrate Biology Academy of Sciences of the Czech Republic
<http://www.ivb.cz/staff-mgr-olga-ruzickova.html>
<http://provaz.ivb.cz/lide/6-oruzickova> <http://www.nextgen.ivb.cz/realizacni-tym.html> Olga Ruzicková <olga.ruzickova@email.cz>

FCRM Republic Congo Evolution Tropical Disease

Fondation Congolaise pour la Recherche Médicale *(FCRM)*, Brazzaville, Republic of Congo, and Institute of Tropical Medicine, Tuebingen, Germany, jointly seek to recruit an outstanding young group leader to lead a molecular biology lab at FCRM, Brazzaville to create a new research team in the field of tropical diseases. The person will work in closer cooperation with

the Director of FCRM Prof. Dr. Francine Ntoumi.

<http://www.fcrm-congo.com/> <http://www.cantam.org/> Applicants should have a PhD, MD or equivalent degree in genetics/genomics, molecular biology, microbiology, biochemistry, population genetics, infectious diseases or equivalent. The ideal candidate should have a vast experience with molecular biology techniques, genomics, should have independent trouble shooting capabilities and good management skills and should be resourceful. The candidate should be willing to travel to Europe to foster cooperation with research laboratories.

The position is available as early as this autumn and is offered initially for a two years with possibility of extension. The position offers an exceptional opportunity for independent research in the molecular biology lab with access to cutting-edge data. Salaries equivalent to European standards are foreseen depending on candidates experience. Paid holidays for a month with a return ticket is provided as additional perk.

Candidates with excellent track record are invited to submit a single file including their CV, the complete list of publications, a summary of scientific achievements, and contact details for two referees to Dr.Velavan at velavan@medizin.uni-tuebingen.de. Any informal queries should be sent to Ms.Carine Kades at kcaryel@yahoo.fr. Or info@fcrm-congo.com

We equally encourage women candidates and African applicants for this vacancy. The deadline for application is 30 September 2013. The review of applications will begin immediately and will continue until the position is filled.

marcinepatrick@googlemail.com

FredHutchinson VirusEvolution

FredHutchinson.ComputationalEvolutionAndImmunology

A new postdoctoral position is available in Trevor Bedford's group at the Fred Hutchinson Cancer Research Center located in Seattle, WA. Research will focus on virus evolution and the immune responses elicited after infection. A primary goal is to characterize cross-immunity patterns among circulating strains and to build a genotype-to-phenotype mapping of viral sequence to antigenic phenotype. An accurate description of virus phenotype and cross-immunity would allow better targeting of vaccines to strains that elicit

more cross-protective immune responses.

Previously, Dr. Bedford has developed methods to assess evolution in the human influenza virus using virus-to-serum binding assay data (hemagglutination inhibition) and viral sequence data (<http://arxiv.org/abs/1304.3637>). Here, the data was modeled using a Bayesian analog of multidimensional scaling and parameters estimated using Markov chain Monte Carlo (MCMC). This project would extend this work to other viral systems and other data sources. Similar cross-immunity datasets are available through collaborators at the Fred Hutchinson for dengue virus and HIV. Additionally, this project seeks to extend methodology to incorporate the effects of polyclonal sera and more mechanistically include virus sequence as a predictor of cross-immunity.

The ideal candidate has experience with high-throughput biological data and a strong interest in computational and statistical methods development. Candidates should also have programming experience in at least one scripting language (e.g. R, Python, Perl) and/or one compiled language (Java ideal) and a proven track-record of peer reviewed publications. Candidates with PhDs from diverse backgrounds are encouraged to apply, including biology, mathematics, statistics, physics and computer science.

The position is immediately available with flexible starting dates for a 2-year appointment with possibility of extension. Informal inquiries are welcome. Applications will be accepted until the position is filled. The Fred Hutchinson Cancer Research Center offers competitive salaries commensurate with experience and skills, complete with benefits.

To apply please send (1) cover letter that includes the names and contacts for three references and a short statement of research interests, (2) a current CV and (3) code samples or links to published/distributed code to Trevor Bedford (tbedford@fhcrc.org).

Trevor Bedford Assistant Member Vaccine and Infectious Disease Division Computational Biology Program Fred Hutchinson Cancer Research Center <http://www.trevorbedford.com> "Bedford, Trevor" <tbedford@fhcrc.org>

FrenchGuiana EvolutionaryModeling

A post doctoral position is available at the Institute National of Research in Agronomy, French Guiana - Kourou in the framework of the ECOFOG Research Unit (<http://www.ecofog.gf/>).

We are looking for an Ecologist or Atmospheric Scientist (young or with experience) with strong expertise in analyzing and interpreting eddy covariance data, strong interests in evolutionary biology and community ecology, and a solid background in the modeling of ecological and/or evolutionary dynamics.

The researcher will (i) analyze inter- and intra-annual, climate driven, variations in net ecosystem exchange in CO₂ and H₂O at our undisturbed tropical rainforest site in French Guiana, South America, (ii) quantify seasonal and annual ecosystem carbon balance, (iii) combine eddy covariance and biomass data to analyze net productivity, and (iv) invest in modeling of carbon fluxes in tropical rainforest and in Forest / Savannah transitions (eddyflux data also available). He will also take part to the management of the flux tower site.

Candidates should have a PhD and excellent written skills as illustrated by their publication record. They should be able to communicate in English but are aware that French Guiana is a French speaking country. Salary will be adjusted for research work experience (starting from around 2600 net / month).

Deadline for application is September 30st, 2013. The position is a 36-month fixed-term contract, available from October 2013 - February 2014. To apply, send an email with CV, list of publications, and motivation letter to both Dr. Damien BONAL (bonal@nancy.inra.fr, +33 3 83 39 73 43) and Eric MARCON (Head of Ecofog Unit, eric.marcon@ecofog.gf).

Benoit Burban

Ecophysiologie forestière INRA Kourou - UMR Ecofog BP 709 - 97387 Kourou cedex Guyane Française (French Guiana)

tel : 05 94 32 92 71 (+594 594 32 92 71) fax : 05 94 32 43 02 port : 06 94 24 93 59 mél : benoit.burban@ecofog.gf web site : <http://ecofog.gf> Guyaflux web site : <http://guyaflux.ecofog.gf> Benoît Burban <Benoit.Burban@ecofog.gf>

GothenburgU EvolutionaryBiol

Where: University of Gothenburg, Sweden

What: Postdoc in Evolutionary Biology

Gothenburg University is one of the larger European Universities with more than 38,000 students and 6,000 staff. The education and research are broad and of high quality and the competition strong for positions. Post-doctoral Fellowship in Evolutionary Biology, specialising in oxidative biology and its role in animal signalling

Duration of employment: Two years (with possible extension)

Form of employment: 100 %, Full time

Placing of position: The Department of Biology and Environmental Sciences, Gothenburg, Sweden

Start of employment: 2014-01-01 (or per negotiation, as soon as possible)

The department of biology and environmental sciences (Bioenv) was formed in 2012 and is a fusion of the previous departments Marine Ecology, Botany and Environmental Sciences, and Zoology. Our research and education activities are wide-ranging, covering multiple ecosystems and organisational levels, from genes to populations, and from proximate mechanisms to ultimate causation (evolution). Bioenv is situated in four main places in Gothenburg, and have two marine research stations. The current position will be placed on Medicinareberget (the former Zoology department) in central Gothenburg, with components of field work just south of Gothenburg and internationally, depending on model system under study.

Subject area Evolutionary Ecology

Project description This is a highly interdisciplinary project made up of three main components, (i) telomere biology, (ii) free radical interference with cell biology, and (iii) animal communication (evolution of colour signals). Telomeres are chromosomal DNA-protein caps with several functions, such as differentiating chromosomal ends from repair-requiring DNA breaks and protecting the coding nucleotides from erosion when cells divide. Their length and rate of attrition (shortening) show wide variation among taxa, tissue, sex and degree of senescence. One chemical group of moderators of telomere length by attrition is free radicals. Understanding the underlying genetic principles of the evolution of ROS generation and depletion is crucial for evaluating alternative hypotheses for the evolution of senescence. This is perhaps no better demonstrated than in the work by Masashi Tanaka, who reported the remarkable phenomenon that two thirds of Japanese people that lived to be a hundred years old shared the same single nucleotide change in the genetic code for a subunit of complex I in the respiratory transport chain

compared to 45 per cent for the rest of the population. Thus, this genotype alone makes you 50 per cent more likely to live to a hundred. Furthermore, you are only half as likely to end up in hospital, for any reason at all, in the second half of your life, and you are also likely to suffer less from any age-related disease. The underlying reason for these extraordinary results is likely to be that people carrying these mutations have a tiny reduction in the rate of free-radical leakage from the respiratory transport chain. At any given moment, this advantage may be next to imperceptible. Over a lifetime, however, the cumulative benefits of a reduced attack rate, on e.g. mitochondrial DNA, of aggressive molecules leaking from the thousands of respiratory transport chains in each mitochondrion will reduce the risk of cancer and other disease and be evolutionarily significant. Telomeres and reactive oxygen species (ROS), per se and in combination, thus have tremendous impact on the organism, perhaps more than any other combination of characters, with profound and prolonged fitness consequences. It would be remarkable if their impact went undetected by selection from a perspective of animal communication, where genetic and phenotypic health and vigor is a prime aspect of broadcasting and perception; indeed our work has shown that ROS and telomeres are linked to such traits. This project targets questions in this area in two species of lizards, the Swedish sand lizard (*Lacerta agilis*) and the Australian painted dragon lizard (*Ctenophorus pictus*). Previous work forms a foundation and most methods are already tested and in place.

Postdoctoral duties The fellow is to integrate the three areas of telomere-, free radical and signalling biology in an evolutionary context. In particular, we are looking for a person with a strong biochemical and molecular biology background that can complement our evolutionary ecology skills, with long and deep laboratory experience, working with a range of assays and techniques (e.g., estimation of levels of reactive oxygen species, innate antioxidants, and telomere length, using methods such as a variety of kit assays, flow cytometry, qPCR and telomere restriction fragment analysis). In addition, the fellow will be encouraged to partake in field work in Sweden and Australia.

Eligibility criteria Eligibility criteria are outlined in the university regulation

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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>

LiberEro CanadianConservationScience

Dear Colleagues,

We are delighted to announce the second call for post-doctoral applications for the Liber Ero Fellowship Program. With funding from Canadian donors, the newly formed Liber Ero Fellowship Program supports exceptional post-doctoral fellows who address pressing conservation challenges of relevance to Canada. The Program aims to develop the next generation of conservation scientists, trained in the latest methods and in the skills necessary to affect policy and improve conservation of Canada's wild places and natural resources.

The Liber Ero Fellowship is open to candidates from any country whose research furthers conservation goals within Canada. Fellows must be hosted at a Canadian institution, with mentorship teams drawing from expertise in non-governmental organizations, government, and universities. Applications are now being accepted, with a deadline of November 1, 2013. See <http://-liberero.ca/> for more details.

We are also pleased to announce the 2013 cohort of fellows:

- Anja Carlsson. Monitoring and managing the effects of industrial development on disease and stress in caribou and moose
- Christina Davy. Combining novel genetic methods for conservation and management of Canadian bats
- Brett Favaro. Evidence-based solutions for reducing the impacts of commercial fishing on bycatch and benthic habitat in the Canadian arctic
- Kevin Fraser. Tracking migration and declines of songbird populations: Conservation of a declining aerial insectivore, the Purple Martin.

To read more about their projects, please see <http://-liberero.ca/meet-the-fellows/>. Sincerely, Sally Otto

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Bonjour,

Nous avons le plaisir d'annoncer le deuxième appel à candidatures du programme postdoctoral Liber Ero. Grâce à de généreux donateurs canadiens, le nouveau programme Liber Ero soutient des postdoctorantes et postdoctorants exceptionnels qui désirent relever d'importants défis de conservation de la nature au Canada. Le programme vise à former la prochaine génération de scientifiques en conservation de la nature aux plus récentes méthodes et à leur donner

les compétences nécessaires pour influencer les politiques de gestion des ressources naturelles et des lieux sauvages du Canada, et améliorer la conservation de ces derniers.

Le programme Liber Ero est ouvert aux scientifiques de tous les pays qui désirent travailler à promouvoir les objectifs de conservation du Canada. Les chercheurs post-doctorants devront Áuvre au sein d'une organisation (université, organisme) canadienne, et recevoir le support d'une équipe de mentorat dont les membres proviennent d'organisations non gouvernementales, du gouvernement, ou d'universités.

Les candidatures sont acceptées dès maintenant et jusqu'au 1er novembre 2013 (date limite). Consultez <http://liberero.ca/fr> pour plus de détails. Nous vous invitons à faire circuler cette information auprès de candidates et candidats éventuels.

Nous sommes également heureux d'annoncer les stagiaires financés en 2013:

- Anja Carlsson. Monitoring and managing the effects of industrial development on disease and stress in caribou and moose
- Christina Davy. Combining novel genetic methods for conservation and management of Canadian bats
- Brett Favaro. Evidence-based solutions for reducing the impacts of commercial fishing on bycatch and benthic habitat in the Canadian arctic
- Kevin Fraser. Tracking migration and declines of songbird populations: Conservation of a declining aerial insectivore, the Purple Martin.

Pour en savoir plus sur leurs projets, consultez la page suivante: <http://liberero.ca/meet-the-fellows/> . Cordialement, Sally Otto

Dr. Sarah (Sally) Otto, FRSC Director, Biodiversity Research Centre Director, Liber Ero Fellowship Program Department of Zoology University of British Columbia 6270 University Blvd. Vancouver, Canada V6T 1Z4 otto@zoology.ubc.ca 604 822 2778 (work) 604 822 2416 (fax)

Sarah Otto <otto@zoology.ubc.ca>

MaxPlanckInst Rostock EvolutionAging

Dear all,

The MaxNetAging Research School (MNARS) is seeking applications for Doctoral and Postdoctoral Fellow-

ships to start in February 2014. MNARS is an international graduate program launched by the Max Planck International Research Network on Aging (MaxNetAging).

Traditionally the focus of the MNARS Fellowships has been on human aging, but we wish to encourage applications from candidates interested in studying demography and aging across a broader taxonomic range including non-human animals and plants. We are particularly interested in candidates wishing to undertake studies on the evolution of aging across large clades using matrix modeling and comparative phylogenetic approaches. See <http://tinyurl.com/compadre3> for brief details of some of our data.

Candidates interested in these particular areas will work both with researchers at the Max Planck Institute for Demographic Research (MPIDR) in Rostock, and with us [Dr. Owen Jones (Max-Planck Center on the Biodemography of Aging, Odense, Denmark) and Dr. Roberto Salguero-Gomez (University of Queensland, Australia)].

Each fellow enrolled in the MNARS will be affiliated with a participating Max Planck Institute, in our case this will be the MPIDR in Rostock, Germany. During the first six months of the MNARS all doctoral and postdoctoral fellows will study together in Rostock.

Please visit www.maxnetaging.mpg.de for more information on the program and the other participating Max Planck Institutes.

Applications should include:

- a CV, - a statement about the level of the job you are seeking (as doctoral or postdoctoral student) and why you are interested in working in the MaxNetAging Research School, details of qualifications, including information about honors, awards, or evaluations of your educational degrees (e.g., "cum laude"), - a list of publications, if any, - names and addresses of 2 people we can contact about you, and, - for postdoctoral fellows a brief outline about your research agenda in the upcoming two years.

Applicants should also indicate the Max Planck Institute they wish to be affiliated with (in this case, the MPIDR in Rostock, Germany).

The Max Planck Society wishes to increase the share of women in areas where they are underrepresented, and strongly encourages women to apply. The Max Planck Society is committed to employing more handicapped individuals and especially encourages them to apply. Applications should be addressed to the MaxNetAging Director Prof. James W. Vaupel and sent by

e-mail at the latest by September 6, 2013 to aplmnars@demogr.mpg.de.

E-mail inquiries concerning the application process and other aspects of MNARS should also be sent to aplmnars@demogr.mpg.de.

Informal enquiries can be made with Owen Jones (jones@biology.sdu.dk) or Roberto Salguero-Gomez (r.salguero@uq.edu.au)

Best wishes, Owen Jones and Roberto Salguero-Gomez
 “Aliud iter ad prosperitatem nos est: id est omnibus rebus vincere”

Rob Salguero-Gómez, PhD Postdoctoral Fellow at the University of Queensland Research Fellow of the Max Planck Society <http://doodle.com/meetRob> E: r.salguero@uq.edu.au or salguero@demogr.mpg.de A: School of Biological Sciences. Centre for Biodiversity and Conservation Science. Goddard Building (#8), office 263. The University of Queensland. St Lucia, QLD 4072, Australia T: +61 7 3365 1376 | W: sites.google.com/site/RobResearchSite Skype: [robertosalguerogomez](https://www.skype.com/people/robertosalguerogomez) Twitter: [@drobcito](https://twitter.com/drobcito)

Roberto Salguero-Gomez <r.salguero@uq.edu.au>

McGill PopulationGenetics

Job title: Postdoctoral position in statistical and population genetics

A new postdoctoral position in statistical and population genetics is available in Simon Gravel's group at McGill University in Montreal, Canada. The group focuses on population genetics methods to understand human evolution and demography, and on the analysis of high-throughput genomic data. The postdoctoral researcher will be involved in conceptual methods development, implementation, and applications to cutting-edge data.

The ideal candidate has experience with high-throughput biological data or population genetics and a strong interest in quantitative biology and methods development. Programming experience in at least one scripting language (e.g., perl, R, python) and/or one compiled language is preferred. We welcome applications from qualified candidates from diverse backgrounds, including biology, anthropology, mathematics, physics, computer science, and related fields.

The position offers an exceptional opportunity for independent research in a quantitative and theoretical lab with access to cutting-edge data. The McGill Human Genetics department and the McGill and Genome Quebec Innovation Centre, together with numerous nearby institutes in Montreal, provide a thriving academic environment.

Applications and queries should be sent to simon.gravel@mcgill.ca, and the subject line should include the job title. Please include a research statement and a CV, one of which should address programming experience—code samples or links to published/distributed code are welcome. Contact information for three references is required. Review of applications will begin immediately and will continue until the position is filled.

Simon Gravel,

Assistant Professor

McGill University and Génome Québec Innovation Center

Dept of Human Genetics, McGill University

Simon Gravel McGill University and Génome Québec Innovation Center Dept of Human Genetics, McGill University 740 Dr. Penfield - Room 7206 514-398-4400 #0753

simon.gravel@mcgill.ca

McGillU Bioinformatics

Postdoctoral Fellow Position in Bioinformatics; Biology Department, McGill University, Canada

We invite applicants for a two-year postdoctoral position in Bioinformatics and Environmental Genomics at McGill University, Biology Department.

The position is funded by the Canadian Aquatic Invasive Species Network (CAISN). The CAISN network offers ample opportunities for interactions with researchers across Canada. The Biology Department at McGill offers a highly collaborative environment and excellent ecological-genomics facilities.

The Postdoctoral Fellow will be involved in developing early detection tools and will use pyrosequencing of environmental samples collected from key port areas and ballast water of arriving vessels to identify the complement of aquatic invasive species as well as the native species present along the Canadian Coasts. See our

web pages at <http://www.caisn.ca/>; for a description of CAISN related research projects.

Experience with next gen sequencing or sequence data and related bioinformatic/ computational/ programming skills is strongly desired. Familiarity with one or more of the following would be an advantage: genomics, phylogenetic analysis, selection, genome evolution. Experience working with aquatic invertebrates is an asset. The candidate should have a strong publication record and the ability to work well in a collaborative research environment.

The position is for one year, but can be renewed for a second year and can begin as early as January 2014. Interested applicants should send their CV, a brief statement of research interest,

For more information and inquiries about the position please contact Melania Cristescu at melania.cristescu@mcgill.ca

Melania Cristescu <melania.cristescu@mcgill.ca>

MichiganStateU NitrogenGenomics

Nitrogen is one of the most limiting nutrients in terrestrial ecosystems. A new joint project between the Friesen lab at Michigan State University and the Rutherford & Buck labs at Imperial College London seeks to isolate and characterize microbes with novel biological nitrogen-fixation capabilities. A talented and collaborative individual is sought to join the Friesen lab as a postdoc to contribute to this project. Desired skills include microbiology, biochemistry, and genetics/genomics. The position will be located at MSU in East Lansing, MI, with opportunities to participate in field collections and collaborative stays in London. The successful candidate will be encouraged to develop independent lines of research and will benefit from an egalitarian and highly interactive lab environment. Start date is flexible. Please send CV and ~1-page statement of research interests to mfriesen@msu.edu

I will be attending the ESA meeting next week—please drop me a line if you'd like to meet in person.

Maren L. Friesen Assistant Professor, Dept. Plant Biology Michigan State University 612 Wilson Rd, East Lansing, MI USA 48824-6481 phone: +1 (323) 454-3023 || office: +1 (517) 844-6947 || fax: +1 (517) 353-1926 <http://friesen.plantbiology.msu.edu/>

maren.l.friesen@gmail.com

MonashU SharkEvolution

A post doctoral fellowship is available in the laboratory of Peter Currie at the Australian Regenerative Medicine Institute at Monash University Melbourne Australia to study the developmental biology and evolution of sharks and chimeras. The Currie group focuses on the development and evolution of skeletal muscle (<http://www.armi.org.au/Research1/-Research.Groups/Currie-Group.aspx>) and the successful applicant will undertake research to understand how different muscle populations have evolved in the vertebrate lineage using the shark and chimera embryos that are available for study in the laboratory. The Australian Regenerative Medicine Institute has recently completed the construction of a state of the art marine facility, which will hold a brood stock of different shark species, which are utilised to provide embryonic material for year round study. The successful applicant will have a strong track record in developmental biology and demonstrate an excellent grasp of evolutionary concepts. A key feature of the position is a willingness to develop and invent protocols for studying shark and chimeria embryology. The successful applicant will possess a strong work ethic and ability to work independently. Interested applicants are asked to send a cover Letter outlining their reason for interest in the position, a full CV and the names and contact details of three referees to peter.currie@monash.edu. *Applications close 31/8/2013*.

– Professor Peter D. Currie NHMRC Principal Research Fellow. Head, EMBL Australia Melbourne Node. Deputy Director, Australian Regenerative Medicine Institute. Level 1, Building 75 Monash University, Wellington Road Clayton VIC 3800 Australia Tel +61 3 99029602 fax +61 3 99029729

Peter Currie <peter.currie@monash.edu>

Montpellier PopulationGenomics

A two-year Post-doctoral position in population genomics is available immediately.

This is a joint project between the Institut des Sciences de l'Evolution in Montpellier, France (<http://www.isem.univ-montp2.fr/>, Pierre Boursot), and the CIBIO in Porto, Portugal (<http://cibio.up.pt/cibio.php>, José Melo-Ferreira and Paulo C. Alves), jointly funded by the French ANR and the Portuguese FCT. The candidate will be based and paid in France.

The project is centered on two biological models, house mice and hares. In both cases it aims at reconstructing the histories of recent divergence and secondary admixture between differentiated taxa, and to have a genomic approach of various questions such as the evolution of genetic incompatibilities, the influence of selection and genetic conflicts on divergence and introgression.

The candidate will participate in the analysis of high-throughput genomic sequence data collected on population samples of the different species and subspecies of the two taxa, in situations of hybridization and introgression. In particular, the post-doc will develop approaches to test on both biological models historical and geographic scenarios of differentiation and admixture, and identify outlier genomic regions with discordant histories, using or instance Approximate Bayesian Computation methods.

The candidate should have established skills in one or several of the following areas: bioinformatics for genomics, theoretical population genetics, statistics for population genomics.

Please send inquiries to <Pierre.Boursot@univ-montp2.fr>

To apply send CV, letter of motivation and coordinates of a minimum of two references to the same address.

Deadline for application: Sept. 29, 2013.

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Dr. Pierre BOURSOT Institut des Sciences de l'Evolution (UM2-CNRS UMR5554, IRD UMR226) Universite Montpellier 2 Case Courrier 063 Place Eugene Bataillon 34095 Montpellier cedex 5 FRANCE tel: +33 (0)4 67 14 46 86 Email: Pierre.Boursot@univ-montp2.fr

Pierre Boursot <Pierre.Boursot@univ-montp2.fr>

NatIUSingapore
ButterflyEvolutionaryGenomics

Butterfly Evolutionary Genomics

A 3-year postdoctoral position is open in the lab of Antónia Monteiro in the Department of Biological Sciences, National University of Singapore, to study the genetic basis of eyespot number variation in nymphalid butterflies. Nymphalid butterflies display tremendous diversity in eyespot number but the genetic basis of this variation is currently unknown. The lab model *Bicyclus anynana* displays variation in eyespot number across individuals and mutant strains. This project will involve performing a comparative RNA-Seq experiment at multiple times during development, with mutant and wt strains differing in eyespot number, to identify eyespot network genes and downstream targets of the mutation. In addition, this project will complement ongoing investigations aimed at identifying genomic loci causing eyespot number variation in this species using RAD-Tag approaches.

The postdoctoral candidate will be part of an international team of researchers who are involved in different aspects of this research project, including Hopi Hoekstra (Harvard), Riccardo Papa (Puerto Rico), Jeffrey Townsend (Yale), and Bethany Wasik (Yale).

Postdoctoral candidates with interest in evo-devo, with strong quantitative skills, and with experience in one or more of the following areas will be given preference: next generation sequencing, genomics, bioinformatics, molecular biology, and developmental biology. Salary will be commensurate with experience. Preferred start date is between Oct 2013 and before the end of 2013. For further information please contact Antónia Monteiro at antonia.monteiro@nus.edu.sg

Lab page:

<http://viburnum.peabody.yale.edu/~monteiro/> References:

1. Monteiro A (2008) Alternative models for the evolution of eyespots and of serial homology on lepidopteran wings. *BioEssays* 30: 358-366.
2. Monteiro A, Chen B, Ramos DM, Oliver JC, Tong X, et al. (2013) Distal-less regulates eyespot patterns and melanization in *Bicyclus* butterflies. *J Exp Zool part B* 320: 321-331.
3. Monteiro A, Chen B, Scott L, Vedder L, Prijs JH, et al. (2007) The combined effect of two mutations that alter serially homologous color pattern elements on the fore and hindwings of a butterfly. *BMC Dev Biol* 8: 22.
4. Monteiro A, Prijs J, Bax M, Hakkaart T, Brakefield PM (2003) Mutants highlight the modular control of butterfly eyespot patterns. *Evol Dev* 5: 180-187.
5. Oliver JC, Tong X, Gall LF, Piel WH, Monteiro A

(2012) A single origin for nymphalid butterfly eyespots followed by widespread loss of associated gene expression. *PLoS Genet* 8(8):e1002893.

Antónia Monteiro <antonia.monteiro@yale.edu>

New York University Evolutionary Genomicist

POSITION FOR A POSTDOCTORAL EVOLUTIONARY GENOMICIST AT NEW YORK UNIVERSITY

A postdoctoral position is available for a highly motivated evolutionary genomicist with strong computational biology skills at the Center for Genomics and Systems Biology at New York University. The position is part of an NIH-funded International Center of Excellence in Malaria Research, and a collaborative project between the laboratory of Program Director Jane Carlton at NYU and the Broad Institute.

The postdoctoral fellow will drive the evolutionary/phylogeographic exploration of data from Illumina sequencing of several hundred malaria parasite genomes collected from around the globe and sequenced at the Broad Institute. Strong computational abilities to manipulate large datasets an asset but not as essential as expertise in population genomics theory and analytical approaches to studying genome evolution of microbes.

Applicants should have: (1) A detailed knowledge of next generation sequence data analysis. (2) Proficiency in evolutionary genomics methods and interpretation. (3) An ability to work with an interdisciplinary team. (4) Good spoken and written English.

Interested parties should email a CV and names of three references to Lab Manager Becca Susko at rs3357@nyu.edu, with Carlton Lab Evolutionary Genomics Position in the subject line. Applications received before Sept 1 2013 will receive full consideration. The position is available immediately.

The Carlton lab (<http://cgsb.as.nyu.edu/object/-JaneCarlton.html>) is located in historic Greenwich Village in downtown Manhattan, New York City. NYU is one of the worlds leading research universities and the Center for Genomics and Systems Biology is housed in a new, state-of-the-art facility. The Centers 14 faculty members study genomics and systems biology across all kingdoms of life, supported by a genome sequencing facility. For more information on the Center, see <http://cgsb.as.nyu.edu/page/home> . Jane Carlton <carltj01@nyu.edu>

North Carolina State University Maize Population Genetics

A postdoctoral research associate position is immediately available at North Carolina State University in the Crop Science Department. The researcher will conduct research on maize population genetics. Maize landraces representing the range of environments in the Americas to which maize is adapted have been collected. Sequence variation in candidate adaptation genes will be evaluated to test for geographic or ecological clines in allele frequencies.

Requirements: A Ph.D. in population genetics, plant genetics, plant evolutionary biology, or related field. Experience with DNA markers, sequencing, and genetic data analysis. Knowledge of population genetics.

Interested persons can apply directly at jobs.ncsu.edu. Search for position number 00101211.

For further information, contact:

Jim Holland Department of Crop Science North Carolina State University Raleigh, NC 27695-7620

919-513-4198

james.holland@ncsu.edu

Jim Holland <james.holland@ncsu.edu>

Ohio State University Comparative Phylogeographics

Post doc

The Carstens lab at The Ohio State University is looking for a post doctoral researcher who is interested in phylogeographic data analysis in general and developing new approaches to the analysis of comparative phylogeographic data in particular. Please see <<http://carstenslab.org.ohio-state.edu/>> and <<https://sites.google.com/site/bryanccarstens/>> for general information about the lab, and contact Bryan directly if interested at <carstens.12@osu.edu>. The position could start as early as 2014.

Bryan C. Carstens Department of Evolution, Ecology, & Organismal Biology The Ohio State University 318 W. 12th Avenue Columbus, OH 43210-1293

web: <http://carstenslab.org.ohio-state.edu/> web: <https://sites.google.com/site/bryanccarstens/> skype: bryan_carstens office: 614.292.6587 cell: 734.474.8527

Bryan Carstens <bryan.c.carstens@gmail.com>

OhioStateU MicrobialGenomics

Postdoctoral Researcher position

Genomics and microbial ecology of detritivorous insects

Qualifications: PhD in microbiology, molecular biology, biochemistry, evolutionary biology, population genetics or equivalent. Experience with command-line bioinformatics and genomics tools. Knowledge of Perl, Python, Ruby, C and/or C++.

Project: Two year (w/ a possible third year) position investigating the role of microbes in detritivorous insect host physiology and trophic niche choice. Microbial cultivation, genome sequencing, population dynamics modeling and fluorescence microscopy tools will be used to address this area of interest.

Salary: \$40K+ w/ benefits (commiserate with experience).

Contact: Zakee L. Sabree, PhD (sabree.8@osu.edu) and include "Postdoc2014" in the Subject Heading.

Please send CV/resume, three professional references and one (co-)authored, published paper. A link to the paper is fine.

Informal inquiries are welcome and applications will be reviewed until the position is filled.

Zakee L. Sabree | Assistant Professor Department of Evolution, Ecology and Organismal Biology The Ohio State University <https://u.osu.edu/sabreelab/> "Sabree, Zakee L." <sabree.8@osu.edu>

Paris DrosophilaEvolution

Dear all,

Please find below an announcement for a 3-year post-doctoral position in my group.

With best regards,

Virginie

– Virginie ORGOGOZO Institut Jacques Monod - CNRS UMR7592 - Université Paris Diderot Bâtiment Buffon - 4e étage - 444B 15 rue Hélène Brion 75205 Paris cedex 13 France tel : (33) 1 57 27 80 43 fax : (33) 1 57 27 80 87 www.virginie.orgogozo.org —

Evolution of a New Stable Bristle Phenotype in *Drosophila*

A 3-year postdoctoral position is available to work on the evolution and stabilization of a recently-evolved phenotype in *Drosophila*. The successful candidate will join the team "Evolution of *Drosophila*", which is led by Virginie Orgogozo and funded by an ERC Starting Grant, at the Institut Jacques Monod in Paris.

Most of the visible characteristics of an organism form during development in a very precise and reproducible manner, despite the noise at the molecular level. Such phenotypic robustness against developmental noise or external perturbations can be seen by comparing the right and left side of bilateral animals or by comparing different organisms with the same genotype. For example, insects display left and right wings of the same size, and this is clearly important for flight. This project addresses an important yet overlooked question, which is how do we go from one stable phenotype to another new stable phenotype during evolution? Is the derived phenotype first unstable and then get stabilized due to new mutations? Or does it directly evolve as a stable trait? What are the genes that stabilize newly-evolved phenotypes? So far we have no answer to these important questions. Previous genetic studies of phenotypic robustness have focused on traits that do not evolve between species and have shown that there are genetic mechanisms that can stabilize a phenotype. However, the genetic basis for the evolution of new stable phenotypes is unknown. The postdoc will work on a simple and promising model system, the evolutionary loss of two genital bristles in *Drosophila santomea*, and resort to all the available resources and techniques to fully understand how this new phenotype evolved. Given their position, these bristles must be important for reproduction and should thus be relevant for evolution.

Approaches: - developmental biology: comparison of bristle development in *D. santomea*, *D. yakuba* and *D. melanogaster* (antibody staining, confocal microscopy, GFP transgenic *D. santomea* and *D. yakuba* flies, in vivo microscopy) - behavioral biology: laser ablation of bristles, examination of mating behavior and reproduc-

tive success - quantitative genetics: construction and analysis of introgression lines, high-resolution recombination mapping using *D. yakuba* and *D. santomea* visible markers, high-resolution genetic mapping using *D. melanogaster* deficiency lines and *D. santomea/D. melanogaster* hybrids, whole genome analysis of multiple wild-type strains - classical genetics: analysis of various *D. melanogaster* scute mutants, test of reporter constructs to identify the scute cis-regulatory element(s) involved in the genital bristle loss in *D. santomea* - field work: collection of *D. santomea* and *D. yakuba* flies in the natural hybrid zone in Africa.

The successful candidate should be highly motivated and will develop his/her own experimental project. Gross salary will be in accordance with French national regulations for post-doctoral researchers (27.000-42.000 euros per year depending on experience). Candidates should have a PhD in developmental biology or evolutionary biology. Good experience with *Drosophila* or another genetic model organism is required. Strong background in developmental biology would be ideal. Candidates of all nationalities can apply. Fluency in French is not required, as our lab meetings are in English, but some knowledge of French would make life in France easier.

Timeline The initial appointment will be for one year and should begin around December 2013. Application Deadline is 30 September 2013. To apply, please email Virginie Orgogozo <orgogozo@ijm.univ-paris-diderot.fr> and send: - your CV - a short motivation letter describing your research interests - the name, phone number and e-mail address of at least two references.

More details are available at: <http://www.normalesup.org/~vorgogoz/postdocERC1-Orgogozo.html> Virginie Orgogozo <orgogozo@ijm.univ-paris-diderot.fr>

PurdueU EvolutionBiol

Purdue Post-doctoral Scholars in Natural Resources

Purdue University's Department of Forestry and Natural Resources seeks candidates for 1-2 postdoctoral positions in natural resources science or management. The department has a broad environmental scope with nationally ranked doctoral programs, emphasizing interdisciplinary approaches across a spectrum of research areas including ecology, evolution, genetics, for-

est biology, wildlife, fisheries and aquatic sciences, and human dimensions of natural resource management (www.ag.purdue.edu/fnr). Departmental faculty members actively participate in interdisciplinary initiatives including the Center for the Environment, Purdue Water Community, Purdue Interdisciplinary Center for Ecological Sustainability, Hardwood Tree Improvement and Regeneration Center, and Purdue Climate Change Research Center.

Requirements for the position(s) include a Ph.D. in natural resources or related discipline, evidence of initiative, independence, and productivity, and a commitment to conservation of natural resources. The program is open to U.S. and non-U.S. citizens.

Positions will be 2-year appointments at a salary of \$45,000, plus benefits and a discretionary fund of \$5,000/year in addition to any research funds that are provided by mentors.

Application Process: Before applying, interested individuals should contact prospective postdoctoral mentors in the department to discuss project ideas. A list of faculty mentors is available at <https://ag.purdue.edu/fnr/Pages/dirpostdocprgrm.aspx>. Mentoring may be sought from individual faculty or by faculty teams, whichever is more appropriate to successfully conduct the proposed work.

To apply to the Natural Resources Scholars program candidates must submit a) names of one or more faculty who have agreed to serve as mentors for the proposed project, b) a curriculum vitae, c) a proposal describing the work to be undertaken, d) two letters of reference, and e) a 1-page statement of support from the proposed mentor(s). Materials should be submitted as pdf files via email to mmann@purdue.edu with the subject line "Application: Postdoc Scholars in Natural Resources". Letter writers should submit their recommendations directly using the email address above. The deadline for receiving completed applications is 15 October 2013.

Applicants may propose projects that complement, extend, or synthesize existing efforts and interests of the faculty. The proposal should identify the issue to be addressed, summarize the current level of knowledge as it relates to the issue, describe the objective(s) of the proposed work, provide the study design and methods used to meet the objective(s), explain expected results and deliverables, and highlight their scientific and broader significance. The proposal is limited to a 300-word summary page and three (3) single-spaced pages, not including references, using one-inch margins and a minimum 11 point standard font.

Applications will be judged on overall quality includ-

ing prior performance, support letters, and the scientific and technical merit and feasibility of the proposal. For additional information, please contact Rob Swihart, Professor and Head (rswihart@purdue.edu).

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

Andrew DeWoody Purdue University West Lafayette, IN 47907-1159 765-496-6109
http://www.gradschool.purdue.edu/pulse/-faculty_cascade.cfm?alias=3Ddewoody de-woody@purdue.edu

SUNY Buffalo Evolutionary Anthropological Genomics

Evolutionary and anthropological genomics postdoctoral position - University at Buffalo, State University of New York

The Gokcumen Lab (gokcumen.wordpress.com) currently focuses on studying the impact of genomic structural variation to human evolution. Genomic structural variants (SVs) involve differences in copy number (i.e., deletions and duplications), orientation (i.e., inversions) or genomic location (i.e., translocations) of large segments of DNA between individuals. We believe that SVs represent a huge and unexplored area of evolutionary genomics that is ripe for studies focusing on their impact to human disease and biology. Within this framework, we are currently working on several specific questions:

- (1) Investigating the mechanisms of SV formation and their impact on primate genome evolution. (Representative paper: Gokcumen and Tischler et al. Primate genome architecture linked with formation mechanisms and functional consequences of structural variation.
- (2) Identifying and scrutinizing gene duplications that contribute to species-specific phenotypes.
- (3) Explaining the evolutionary processes that maintain variation in contemporary human populations and their impact on human health

Our laboratory has both wet and dry lab components. The successful candidates will have a chance to work with large genomic datasets involving multiple primate species, as well as utilize state-of-the-art

DNA/RNA quantification technologies, such as digital PCR, Nanostring, etc. We have ongoing collaborations with researchers from anthropology, population genetics, evolutionary and molecular biology, cancer genetics and virology.

The candidate should have a Ph.D. (or MD) preferably in population/human/anthropological genetics/genomics or computational biology/bioinformatics. Experience in handling large datasets (e.g., experience in handling next-gen sequencing data), programming and scripting (e.g., PERL, R) and familiarity with UNIX/LINUX operating environment is a major plus.

If you are interested, please contact Omer (Gokcumen) - omergokc@buffalo.edu with a CV, names of three references and a brief cover letter outlining research interests and career goals.

Applications will be accepted until the position is filled.

gokcumen@gmail.com

SantaFeInst EvolutionaryBiology

Santa Fe Institute Omidyar Postdoctoral Fellow

The Omidyar Fellowship at the Santa Fe Institute offers you:

- transdisciplinary collaboration with leading researchers worldwide - up to three years in residence in Santa Fe, New Mexico - discretionary research and collaboration funds - competitive salary and generous benefits - a structured leadership training program - unparalleled intellectual freedom Apply online www.santafe.edu/ofellowship

We will accept applications for the 2014 Cohort beginning 12 August and ending 25 October 2013. We will conduct candidate interviews in late January 2014 in Santa Fe, NM.

The Omidyar Fellowship at the Santa Fe Institute is unique among postdoctoral appointments. The Institute has no formal programs or departments. Research is collaborative and spans the physical, natural, and social sciences. Most research is theoretical and/or computational in nature, although some research includes an empirical component. SFI averages 10 resident faculty, 100 external faculty, and 250 visitors

per year. SFI's research themes and interests of its faculty and current fellows can be found at <http://www.santafe.edu/research>. As thought leaders who shape the future of science, Omidyar Fellows participate in a provocative training program structured to develop leadership skills throughout their three-year residencies and beyond. The program focuses on sustained mentoring relationships with SFI resident and external faculty, skill development workshops, off-campus research and teaching experiences, and the variety of scholarly leadership and science management opportunities at SFI.

Requirements:

- a Ph.D. in any discipline (or expected Ph.D. by September 2014) - strong computational and quantitative skills - an exemplary academic record - a proven ability to work both independently and collaboratively
- a demonstrated interest in multidisciplinary research
- evidence of the ability to think outside traditional paradigms

Applications are welcome from:

- candidates from any country
- candidates from any discipline
- women and members of underrepresented groups are encouraged to apply

SFI is an Equal Opportunity Employer.

Application Materials:

Interested candidates must submit the following:

Curriculum vitae (including publications list). Statement of research interests (max. 2 pages) including a short description of the research you would like to pursue and why.

Description of interest in SFI (max. 1 page) that describes your potential contribution to the SFI community and also explains the potential impact of SFI on your research. Consider addressing one or more of the following: What kind of input from other fields would most improve your future research? What type of multidisciplinary workshop might you want to organize during your Fellowship? What aspects of your present or future research are difficult to pursue in a traditional academic environment?

Three letters of recommendation from scholars who know your work. (The letters should be sent independent of the application. When you complete the online application, please be prepared to provide e-mail addresses of the three individuals who will recommend you. SFI will contact them directly with instructions for submitting letters.)

(Optional) A copy of one paper you have written in English, either published or unpublished.

Inquiries: email to ofellowshipinfo@santafe.edu

Hilary Skolnik <hilary@santafe.edu>

Stony Brook NY Tetrapod Diversity

See description here: <http://naturereserve.iapplicants.com/ViewJob-483521.html>

Location: Stony Brook, NY Review of applications begins Tuesday, 2 September 2013.

Description: This postdoctoral position will support a novel, global analysis of the genetic, taxonomic, and functional diversity of tetrapods. The project will examine what ecological and evolutionary factors influence the relationships among the three dimensions of biodiversity (trait, taxonomic and phylogenetic), and use extinction risk data to predict impending changes in these relationships. These analyses have both important theoretical and practical implications. Comparison of different dimensions will allow us to better determine processes underlying global patterns of diversity; the degree to which the dimensions covary will determine the efficiency possible in their conservation. Our PI institutions comprise four universities and NatureServe, the latter of which provides a channel for incorporation of results into conservation decisions. The project is described further at http://www.nsf.gov/news/news_summ.jsp?cntn_id=122098. Specifically, the postdoc will be responsible for developing novel applications using the data, varied data analyses of both spatial and tabular data, often involving extensive lists of species from throughout the Americas. This work may include measuring compositional diversity by developing species distribution models from specimen point localities and remotely sensed environmental data, and mapping dissimilarity. Another aspect is measuring trait diversity using categorical metrics of place, food, time, and metabolic niches. The work may also include disseminated data via existing, open access databases. Finally, the postdoc will take the lead in writing manuscripts.

The position will be located administratively within the Science Division of NatureServe, reporting to the head of Species Science. Physically, the position will be located full time at the Department of Ecology and Evolution at Stony Brook University, Stony Brook, NY, under the guidance of Dr. Catherine Graham (<http://life.bio.sunysb.edu/ee/grahamlab>).

Duties: The tasks, duties, and responsibilities of the position are as follows: a) Perform statistical and spatial

analyses of large distribution and trait data sets. b) Collaborate and interact with multidisciplinary team of senior scientists and students to carry out the objectives of the project. c) Write manuscripts describing the results of the research.

The essential job functions listed above are not meant to be all-inclusive and may be subject to change at any time.

Qualifications: **REQUIRED EXPERIENCE AND QUALIFICATIONS:** The successful candidate will have the following experience and qualifications: a) Ph.D. in Ecology, Environmental Biology, or related field. b) Strong R and statistical skills c) Experience with GIS/RS and spatial analyses. d) Proven record of senior-authored papers, preferably in high-impact journals. e) Ability to collaborate and share data effectively on a multi-institutional project. f) Permission to work in the United States.

PREFERRED EXPERIENCE AND QUALIFICATIONS: a) Proficiency in remote sensing. b) Interest in being exposed to a fast-paced conservation non-profit. c) Experience with cross-disciplinary research. d) Advanced statistical or mathematical modeling. e) Experience with large biodiversity databases. f) Experience with Bayesian analyses. g) Experience with conservation planning. h) Ability to communicate in Spanish and/or Portuguese. i) Experience coordinating or working with undergraduate assistants.

ESSENTIAL PHYSICAL REQUIREMENTS a) Ability to travel independently within the U.S. and overseas to attend meetings and workshops with partners and others. b) Ability to converse verbally and in writing with others regarding organizational goals and needs. c) Ability to use organizational technology and multi-phone systems.

sbh1@psu.edu

Sydney PlantTraitEvolution

Postdoctoral Research Fellow in Biology

The Westoby Ecology and Evolution Lab at Macquarie University in Sydney has an opportunity to recruit talented researchers. The Ecology group's research aim is to understand and predict from evolutionary principles the physiognomy and traits of vegetation and why they vary round the world. For more information, please visit: <http://bio.mq.edu.au/ecology/research/>

The Role: An opportunity for ground-breaking research that bridges between theory and real-world data for terrestrial ecology. The Ecology Group has developed a new model for ecology and evolution of traits in vegetation. Appointees will assemble real-world data, test the alignment of data with model predictions, and interpret successes and failures of the model.

Essential Selection Criteria: - PhD or equivalent, together with one or more of the following - Experience with field plant ecology and with quirks and limitations of field-ecology datasets; - Strong grasp of concepts and literature in community or functional ecology; - Experience with R stats package, with curating large datasets, with stochastic simulations; - Experience with advanced statistical techniques such as Bayesian methods, machine-learning algorithms, multi-level modeling, data assimilation

Full details: <http://jobs.mq.edu.au/cw/en/job/-493272/postdoctoral-research-fellow-plant-trait-ecology-in-biological-sciences> Appointment Type: Full-time, Fixed-term for 2 years

Enquiries: Daniel Falster on daniel.falster@mq.edu.au or +61-2-9850-9258

Applications Close: Sunday 8 September 2013, 11:59pm (AUS)

Daniel Falster <daniel.falster@mq.edu.au>

TaiwanU EvolutionFish

A new post-doc position (one year contract; renewable for another year) is currently available in Dr. Wei-Jen Chens lab, Institute of Oceanography, National Taiwan University. Our research group focuses on three research axes (1) Phylogeny of ray-finned fishes at both large and small evolutionary time scales; (2) Evolutionary genomics, particularly the species diversification in relation to gene duplication; (3) Biogeography (historical biogeography and comparative phylogeography) of the Indo-West Pacific fishes. We are seeking for a post-doctoral researcher with interest/expertise in these three research axes (specially, the third one). The successful applicant will involve in high throughput generation and analysis of genetic/genomic data of ray-finned fishes. Our currently confusing species/groups for the studies are from the Percomorpha, Lethrinidae, Pomacentridae, and Sciaenidae. Candidates are welcome to suggest other species or group of fishes of

his/her interest as models for the study. A good knowledge on fish taxonomy will be helpful, but not very necessary for conducting the studies. The ideal candidate should have experience with molecular genomics and/or bioinformatics. However, candidates with research experience in any the following will be considered in priority: next generation sequencing; statistical phylogeography (involving coalescence theory, e.g.); applied methods in likelihood and Bayesian statistics (e.g., BEAST) to evolutionary biological studies. Finally, interested candidates should be highly motivated, organized, and independent for the lab work, and willing to board on research vessel and/or go to remote islands for conducting prospective fieldwork for taxon sampling.

Applicants should by email a brief cover letter describing research interests/experiences, a CV, and the names and contact information for 2-3 references to wjchen.actinops@gmail.com. A 4~8 pages of research proposal and scans of Ph.D diploma/certificate of working experience will be required from the final selected candidate for processing the official request of the position from the University. This process will take around 1~2 months. Review of applications will begin immediately and continue until the position is filled. For more information, visit our Lab website (<https://sites.google.com/site/wjchenactinops/>) or contact by email.

- 21 August 2013

Wei-Jen CHEN <wjchen.actinops@gmail.com>

TempleU PopulationGenetics

A postdoctoral position in population genetics is available in the lab of Jody Hey at Temple University. The research will involve developing methods for studying divergence using population genomic data. These methods will be used to study problems in the divergence of human populations, as well as in other systems. The position is part of an NIH funded collaboration between the Hey lab, Andy Kern of Rutgers University, and Sarah Tishkoff of the University of Pennsylvania. The new postdoc will also join a new Center for Computational Genetics and Genomics taking shape at Temple University.

Candidates with research experience in any the following will be considered: - Population Genetics Theory - Statistical Phylogeography or Divergence Population

Genetics - The use of stochastic methods in likelihood and Bayesian statistics

In addition it is important that candidates have experience in developing computer programs to implement methods in evolutionary genetics or statistics. Applicants should email a CV and any other relevant information to:

Jody Hey hey@temple.edu <https://bio.cst.temple.edu/~hey/> Position Reference number: JHTPD1

Hey@dls.rutgers.edu

TexasAMU MolPopulationGenetics

Postdoctoral Research Scientist - Molecular Population Genetics/Ecology

Location: A new, collaborative, state-of-the-art facility established for molecular-genetic studies of marine organisms, located at the Harte Research Institute at Texas A&M University - Corpus Christi, Corpus Christi, Texas 78412-5869.

Responsibilities: Position responsibilities involve development and assay of nuclear-encoded single nucleotide polymorphisms (SNPs), microsatellites, and mitochondrial DNA sequences for projects involving population genetics and molecular ecology, primarily of marine fishes. Central responsibilities include data acquisition and analysis, and preparation of reports and publications.

Qualifications: Dissertation or postdoctoral work in molecular population genetics and/or molecular ecology is required, as is documented experience with microsatellite and mtDNA data acquisition and analysis. Documented experience with major software programs (e.g., Arlequin, Genepop, Migrate, LdNe, etc.) also is required. Individuals with documented experience in analysis of next-generation-sequencing data, primarily RAD-seq and genome assembly, will be given highest priority. Applicants should be ambitious, able to work collaboratively with other group members, and capable of taking initiative and assuming responsibility.

Salary: Salary range is from \$35,000 - \$40,000/year and will depend on experience. Benefits include health care and retirement. Position is for 12-24 months.

Closing date: Position will remain open until filled.

Contact: Send curriculum vitae, description of research

experience/interests, and names, addresses, phone numbers, and e-mail address of three references to Dr. John R. Gold at goldfish@tamu.edu. International applicants will be considered if they hold the correct visa(s). The Harte Research Institute and Texas A&M University-Corpus Christi are Equal Opportunity/Affirmative Action/Equal Access Employers.

John Gold <goldfish@tamu.edu>

UBath EvolutionaryQuantitativeGenetics 2

This is the formal announcement following up on an informal announcement I posted earlier (includes the link for the online application system):

Evolutionary quantitative genetics of complex traits

We are excited to be recruiting a postdoctoral researcher to work on a BBSRC funded 36 month project focused on the genetic basis of evolutionary changes in complex multidimensional traits. The project combines deep phenotyping and genome wide molecular data in a large pedigree population derived from a mouse model system in which selection regimes have been used to reshape patterns of growth and development. Research questions are focused on understanding how selection has been able to alter the relationship between traits, with a particular emphasis on the evolution of pleiotropy. The project also offers the successful candidate significant flexibility to examine related questions about the structure and evolution of genetic architecture and its consequences for multivariate evolution.

The successful candidate will have a background in evolutionary genetics and an excellent understanding of multivariate statistics. Quantitative and computing skills are essential (especially the ability to work with data manipulation programs and statistical packages such as R and SAS) as is the ability to work both independently and collaboratively as part of a research team. Candidates should have a demonstrated ability to publish high impact science as well as good interpersonal and communication skills. Some skills or an interest in obtaining skills in theoretical quantitative genetics is preferred but not required.

The successful candidate will have the opportunity to work with collaborators at the University of Exeter and the University of Sao Paulo

The position is fixed-term of 36 months and available to start as early as 1 January 2014 and no later than the 28 February 2014.

Informal enquiries may be directed to Dr Jason Wolf via email: j.b.wolf@bath.ac.uk (telephone or Skype consultations can be arranged)

Applications are accepted only through the University of Bath online system at:

<http://www.bath.ac.uk/jobs/Vacancy.aspx?ref=-VH1894> jason@evolutionarygenetics.org

UBergen FishEvolution

Postdoctoral fellow in evolutionary ecology

A 3-year position as a postdoctoral fellow in evolutionary ecology is available in the EvoFish research group at the Department of Biology, University of Bergen. The position is part of the project 'An experimental evaluation of fisheries induced evolution' using guppies as the model system to study harvest-induced evolution. We welcome both experimental, theoretical, and genetic approaches taking advantage of our on-going guppy experiment. For more information, see <http://www.jobbnorge.no/job.aspx?jobid=95624> . Application deadline: August 25, 2013

Best wishes, Mikko Heino EvoFish, University of Bergen

Mikko Petteri Heino <Mikko.Heino@bio.uib.no>

UBern EAWAG Switzerland CichlidSpeciation

Postdoc Ecological genomic of speciation in cichlid fish, University of Bern and Eawag

A Swiss Science Foundation postdoctoral researcher position is available immediately in the Seehausen group at University of Bern and Eawag to work on constraints to speciation in cichlid fish, using a combination of African fieldwork, next generation sequencing, and ecological, phenotypic and genomic data analysis.

We are a large and interactive research group, with

many people working on speciation and adaptive radiation in African cichlid fish and postglacial European fish, and others working in field-based and experimental evolutionary ecology, community ecology and conservation biology.

We are looking for an enthusiastic and interactive researcher, with a strong background in ecology and evolutionary biology and good knowledge of the R programming environment. Experience with field work in the tropics, ideally with fish, will be very helpful. Experience with NGS data analysis will be very helpful too but is not absolutely required. Full funding is now available for one year, with possibilities for extension. Responsibilities include leading a field expedition with a small researcher team to several sites in East Africa, data collection and analyses and paper writing. This postdoc position is one of several new and recent Swiss Science Foundation funded positions on cichlid speciation in the group, and it will involve close interaction with PhD students and other scientists in the group.

Our research group is part of the Institute of Ecology & Evolution (IEE) of the University of Berne (http://www.fishecology.ch/index_EN), and the EAWAG Center for Ecology, Evolution and Biogeochemistry (CEEB) in Luzern/Kastanienbaum (http://www.eawag.ch/forschung/cc/ceeb/index_EN). Our well-equipped labs are situated in the CEEB, right on the shores of Lake Lucerne (a lake that has its own endemic fish radiations) and in the IEE in Bern. Switzerland is home to an impressive number of universities in close geographic proximity, affording the opportunity for interaction with a large community of ecologists and evolutionary biologists.

Applications should be sent before September 30 to Susanne.maurer@iee.unibe.ch with cc to ole.seehausen@eawag.ch. Please include cv, publication list and email addresses of three referees. For information please write to ole.seehausen@eawag.ch.

We look forward to receiving your application

Ole Seehausen

Ole.Seehausen@eawag.ch

UCalifornia San Francisco
StatPopGenetics

Postdoctoral Fellowship in Statistical Population Genetics at U.C. San Francisco, San Francisco, CA, USA

A postdoctoral position is available starting between July and December, 2013 in the laboratory of Bryan Greenhouse in the Division of Infectious Diseases at U.C. San Francisco. The current position will focus on development and application of statistical models incorporating parasite genetics and epidemiologic data to characterize transmission and evolution of malaria parasites. The successful candidate will have the opportunity to work closely with a diverse team of scientists at UCSF and international collaborators on projects spanning work in malaria elimination to regions with the highest burden of malaria in the world. The fellow will be encouraged to develop an independent line of work under the co-mentorship of Bryan Greenhouse and Rasmus Nielsen (U.C. Berkeley), including presentation and publication of findings. Our work is directly connected to on-the-ground malaria control and elimination efforts, and the scientific output from this position is expected to directly affect interventions in the field in addition to leading to academic publications. Competitive salary including full benefits will be provided commensurate with experience and qualifications.

Required Skills

- * PhD in a relevant field (e.g. population genetics, statistics, computational biology)
- * Excellent background in population genetics
- * Strong statistical and computational skills, including proven ability to develop and implement statistical methods beyond utilizing existing software packages
- * Demonstrated ability to produce independent, creative work
- * Ability to work well as member of a team
- * Strong written and oral communication skills

Ideal Skills

- * Experience with analysis of pathogen transmission trees / phylogenetic data
- * Experience developing and implementing MCMC methods
- * Experience with geospatial data / visualization

To Apply: Please send a detailed CV including publications, brief statement of research/career interests, and contact information for 3 references to Bryan Greenhouse, MD, MA at bryan.greenhouse@ucsf.edu

“Greenhouse, Bryan” <bgreenhouse@medsfgh.ucsf.edu>

UFSCar UBath EvolutionaryQuantGenet

A postdoctoral position (up to three years funding) will soon be available at the Universidade Federal de Sao Carlos (UFSCar) working with Reinaldo A. de Brito, in collaboration with Jason Wolf (University of Bath). The collaboration offers the opportunity for the postdoc to spend time in both Bath (UK) and Sao Carlos (Brazil), with empirical components being done in Sao Carlos and computational work being split between institutions.

The project is focused on understanding the genetic architecture of species differences in South American fruit flies of the group *Anastrepha fraterculus* (Diptera: Tephritidae). The primary goal of the project is to understand the nature of variation underlying traits that distinguish species (including major ecologically relevant traits as well as traits potentially involved in mate recognition) and how the species differences relate to within species variation.

The postdoc will contribute to empirical and computational components of the project. Empirical work will involve implementation of multigenerational breeding schemes, phenotyping and next-generation genotyping. Computational work will involve genome scale analysis of associations using marker and sequence data.

The position should be open very soon, so we are looking for people interested in discussing the details of the project and the application process. Please contact either of us for more information or to express interest.

Reinaldo A. de Brito brito@ufscar.br CCBS- Depto de Genetica e Evolucao Universidade Federal de Sao Carlos

Jason B. Wolf Jason@evolutionarygenetics.org Dept. of Biology & Biochemistry University of Bath

jason@evolutionarygenetics.org

UFlorida PhylogeneticsSystematics

Postdoctoral Researcher position in butterfly systemat-

ics at University of Florida

A Postdoctoral Researcher position is available at the Florida Museum of Natural History's McGuire Center for Lepidoptera and Biodiversity, University of Florida. The postdoc will form an integral part of the team working on the NSF-funded project "ARTS: Phylogeny and systematic revision of the diverse and cryptic Euptychiina (Lepidoptera, Nymphalidae, Satyrinae)", and will be responsible for coordinating research on the higher-level phylogeny of the group.

The deadline for applications is September 15th, 2013, with the position available from January 2014 for two years. Information on the position and application instructions are available here: <http://www.flmnh.ufl.edu/butterflies/neotropica/-postdoc2013.html> Please contact me (kwillmott@flmnh.ufl.edu) with any questions.

Keith Willmott Associate Curator for Lepidoptera

McGuire Center for Lepidoptera and Biodiversity
Florida Museum of Natural History 3215 Hull Road,
Powell Hall PO Box 112710 Gainesville, FL 32611
(USA) Tel: (1 352) 273 2012 Fax: (1 352) 392 0479

kwillmott@flmnh.ufl.edu

UFlorida systems

There are up to three postdoctoral positions available with Lauren McIntyre at the University of Florida, United States. These positions are flexible in their scope. One is focused on Maize, one on *Drosophila* and one on metabolomics. For the Maize and *Drosophila* positions, a background in quantitative genetics or population/evolutionary genetics with an interest in working on transcriptional data of populations and tying large scale transcriptional data to phenotype. For metabolomics a statistics background with an emphasis on variable selection is desired.

-Maize: Using a systems biology approach this project focuses on Maize response to global climate change, using the NAM population with data collected at DNA, RNA, Metabolite and phenotypic levels. This position is the key position for data integration and analysis. Experimental design, predictive modeling and creative insights will be important qualifications for the successful applicant.

-*Drosophila*: We will transform network modeling from

a descriptive to a predictive exercise. A genotype to phenotype map which allows reasonable predictions across species and conditions bypasses the need for extensive individual gene validations. We hypothesize that specific casual mutations vary within a population and across species. We further hypothesize that the relationship among genes in networks will be largely conserved across species. This position will be instrumental in developing a predictive modeling framework for genotype to phenotype mapping. By focusing on locomotory and courtship behavior and the impact of ethanol on these behaviors, we will integrate environmental effects into a network approach to complex trait genetics and identify robust targets for modification of these focal traits.

-Metabolomics: In many biological problems early detection and prediction of phenotype are critical problems that are often the rate limiting step in progress toward deeper understanding. Metabolomics seeks to identify small molecule metabolites that are critical components of biochemical processes. Metabolites can separate different groups (e.g. disease/normal) and/or be associated with a quantitative phenotype (flavor preference). The goal is to identify metabolites (select variables) that are early diagnostic predictors. Metabolomics gives us tools to measure the outcomes of complex cellular processes, in essence to be one step closer to the phenotype and therefore a useful tool in constructing the genotype to phenotype map.

The lab is housed in the recently constructed University of Florida Genetics Institute with modern facilities. Candidates with a Ph.D. and/or M.D. and relevant postdoctoral experience should send their curriculum vitae, names of three references, and a brief description of research interests to: Dr. Lauren McIntyre, Department of Molecular Genetics and Microbiology, University of Florida, College of Medicine, Gainesville, FL 32610-3610. Email: mcintyre@ufl.edu. For further information about the lab visit our website: http://bioinformatics.ufl.edu/McIntyre_Lab/. Review of applications will begin immediately. The search may remain open until the position is filled. UF is an Equal Opportunity Institution with a strong commitment to excellence through diversity.

mcintyre@ufl.edu

UHull 2 Phylogenetic Comparative Analyses

Postdoctoral/Research Assistant in Phylogenetic Comparative Analyses of Vertebrate Invasion Success (2 Posts)

School of Biological, Biomedical and Environmental Sciences, University of Hull

We are looking to appoint two Research Assistants; a) a Post-Doctoral Research Assistant suitably qualified and experienced in the areas required and, b) a Research Assistant who is presently working towards completing their PhD and looking to gain and develop their experience in this field.

The PDRA/ RA will work in the comparative biology lab within the School of Biological, Biomedical and Environmental Sciences at the University of Hull. The two posts are funded for 3 years, full time, by a NERC New Investigator Award to Dr Isabella Capellini (<http://tinyurl.com/icapellini>), entitled Understanding biological invasions: a phylogenetic comparative approach.

The successful applicants will be members of a team that uses state of art phylogenetic comparative approaches to answer an array of fundamental questions in biology and ecology. Within the School, the successful applicants will also benefit from a rich and diverse research environment that includes the Ecology and Environment Group and the Evolutionary Biology Group. The University of Hull also offers a comprehensive Staff Development Program.

Using alien (non-native) vertebrates as model organisms and state of art phylogenetic comparative methods, the projects first goal is to test which biological characteristics promote species success in space and time, as predicted by key hypotheses in macroecology and evolution. The second goal is to quantify the contribution of human related factors in vertebrate invasion success. The successful applicants will collaborate closely and build a database on invasion success of mammals, reptiles, amphibians and fish, reproductive and ecological characteristics for each species in the database, and human related factors likely to influence invasion success. The PDRA/RA will use cutting edge phylogenetic comparative methods to investigate the relative contribution of species traits and human-related factors in vertebrate invasion success, draft the papers for publication in high impact journals, and build and maintain the project website and database. If required, there is also the opportunity to gain further experience in phylogenetic comparative methods in the lab of Dr Chris Venditti (University of Reading).

Essential: working towards a PhD in biology or related discipline; knowledge of modern phylogenetic comparative methods, strong quantitative skills, evi-

dence of work of publishable quality, excellent oral and written communication skills, demonstrable ability to work as an effective team member, and be reliable, self-motivated and well organized.

Desirable: PhD in biology or related discipline, experience with phylogenetic comparative methods, experience in testing hypotheses in macroecology and phenotypic evolution across species, strong publication record, experience with R.

The positions are fixed term for 3 years. The start date of the project is fixed to 6 January 2014.

Salary range: £25,504 to £30,424 pa - Starting salaries according to qualification and experience.

You can learn more about this position and apply online at: www.hull.ac.uk/jobs (Vacancy ref: FS0025)

Informal enquiries to Dr Isabella Capellini (I.Capellini@hull.ac.uk)

Closing date 08 September 2013

Interviews 24 & 25 September 2013

Isabella Capellini <isab972@yahoo.co.uk>

U Lausanne Evolution Drosophila Microbiome

Postdoctoral position: experimental evolution of *Drosophila* gut microbiome under chronic malnutrition
University of Lausanne, Switzerland

We are looking for a postdoctoral researcher for a project on the contribution of gut microbes to evolutionary adaptation to chronic malnutrition in *Drosophila melanogaster*. The project builds upon an evolution experiment in which replicate populations of fruit flies have been maintained under larval malnutrition over 150 generations, acquiring high tolerance to this nutritional stress. This is a collaborative project between the laboratories of Tadeusz J. Kawecki (Department of Ecology and Evolution) and Jan van der Meer (Department of Fundamental Microbiology). It involves a combination of microbiome sequencing and experimental approaches, such as microbiome transplants and assaying their consequences for *Drosophila* fitness. We are looking for a candidate with experience in experimental microbiology, preferably in the context of interactions between pathogenic or commensal microbes and invertebrate

hosts, and a broad understanding of evolutionary concepts. Bioinformatics skills and/or experience with *Drosophila* are a plus but are not required. For more information about our respective research groups see <http://www.unil.ch/dee/page47688.html> and <http://www.unil.ch/dmf/page14867-en.html>.

The initial contract will be for one year, extendable to a maximum of five years; currently funding is assured for two years, with the minimum annual gross salary of about CHF 60,000 in the first year (about US\$ 65,000 or Euro 50,000). The research environment is English-speaking and no pre-existing knowledge of French is required, but learning basic French would make living in Lausanne easier.

Lausanne is a medium-sized city on the shores of Lake Geneva, surrounded by a wine growing region recognized as a UNESCO World Heritage Site, and within one hour of the Alps. It offers a great variety of cultural, recreational and outdoor opportunities. The Department of Ecology and Evolution (www.unil.ch/dee) is a vibrant research community, with 22 research groups, over 100 graduate students and over 40 postdocs, and is the lead institution of the inter-university Doctoral Program in Population Genomics. The High Performance Computing Center of the Lausanne University (VitalIT) offers excellent computational infrastructure and support for the project.

To apply, send a single pdf file with a motivation letter, cv, a description of your research experience and interest, and names of 2-3 referees to tadeusz.kawecki@unil.ch, with "Postdoc position" in the subject line. The review of applications will start on September 9, 2013 and will continue until a suitable candidate is found.

Tadeusz J. Kawecki Associate Professor Department of Ecology and Evolution University of Lausanne Biophore, office 3111 CH 1015 Lausanne, Switzerland

tadeusz.kawecki@unil.ch

U Minnesota Evolutionary Genetics

Post-doctoral position - association mapping and evolutionary genetics University of Minnesota

I have available a post-doctoral position to work on association and evolutionary genomics of the model legume *Medicago truncatula*. Collaborators and I have recently collected genome sequence for > 200 accessions

and have used these data for GWAS and population genomic analyses. We are currently working to refine our understanding of genomic variation segregating within this species and are particularly interested in the evolutionary genetics of the symbiosis between *Medicago* and *Sinorhizobia*. The successful applicant will have considerable freedom to develop research in their area of interest.

This position is part of a multi-investigator project (www.medicagohapmap.org/home/view) and the postdoc will have opportunities to work closely with Nevin Young and members of his lab, as well as the labs of other Univ. of Minnesota members of the project including Micheal Sadowsky and Robert Stupar. Primary funding for this project comes from the Plant Genome Program of the NSF.

If interested please apply by September 15th, although applications will be considered until the position is filled. The start date is flexible.

Applicants should send a CV, short statement of research interests, and names and contact information of three references.

If you have questions or would like to discuss the project or position please contact me at ptiffin@umn.edu.

Peter Tiffin <http://www.cbs.umn.edu/tiffin/> Dept. of Plant Biology University of Minnesota

ptiffin@umn.edu

UMontpellier CancerEvolution

Postdoctoral research opportunity - Evolutionary models of cancer progression and therapies - University of Montpellier, France

We are looking for a motivated Postdoctoral researcher to employ mathematical and/or computer models to better understand the evolutionary dynamics of cancer progression and chemotherapeutic treatments. We are especially interested in applications of ecology, evolution, and population genetics towards general descriptions and ultimately predictive theories. Candidates having a firm background in quantitative modelling, but also having experience working with either cancer or bacterial cell cultures are particularly welcome.

The Postdoc is for two years, with a starting date on or before January 1, 2014. The contract is funded by INSERM Plan Cancer and is in collaboration with two

cell biology research laboratories (Pr. Urszula Hibner and Pr. Daniel Fisher, IGMM).

Selection criteria: (1) PhD; (2) Considerable experience in mathematical or computer modeling in the context of cell biology, population ecology and/or evolutionary biology; (3) Command of written scientific English; (4) Demonstrated track record of refereed publications in leading journals; (5) Capacity to work under limited supervision.

Interested candidates should send (1) a letter of motivation, (2) a CV, and (3) the names, institutional addresses, and emails of 3 persons who can be contacted for references, on or before August 15, 2013 to Michael Hochberg (mhochber@univ-montp2.fr). Information about our interdisciplinary research group can be found at <http://www.eec.univ-montp2.fr/people/mike-hochberg/> < http://www.darevcan.univ-montp2.fr/?page_id=221 >

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Michael Hochberg

Research Director, CNRS

External Faculty, Santa Fe Institute Fellow, Wissenschaftskolleg zu Berlin (9/2013-7/2014)

EEC Team < <http://www.eec.univ-montp2.fr/people/> >

Michael Hochberg <mhochber@univ-montp2.fr>

UOregon EvolutionaryGenomics

POSTDOCTORAL POSITION IN ECOLOGICAL GENOMICS OF SPECIATION; INSTITUTE OF ECOLOGY AND EVOLUTION, UNIVERSITY OF OREGON

A postdoctoral position is available in the Streisfeld lab at the University of Oregon as part of a NSF-funded project to identify the ecological genomic changes that drive the early stages of species formation in *Mimulus*. The project will involve greenhouse, field, and laboratory components that include high-throughput SNP genotyping, next generation sequencing, QTL mapping, and field estimates of divergent selection. The postdoc will be involved in all aspects of the project, from data collection to publication, and will be actively encouraged to pursue side projects of his/her own interest.

PhD in evolutionary genetics or a related field is re-

quired. Experience with next-generation sequencing and bioinformatics analysis is preferred. The ideal candidate will be independent, highly motivated, productive, and able to work effectively in a team with members from a variety of diverse backgrounds. She/he will have an excellent understanding of experimental design and a proven publication record.

The Streisfeld Lab (www.uoregon.edu/~mstreis) in the Institute of Ecology and Evolution offers a broad and interactive environment for research in plant evolutionary biology. We share close ties with other evolutionary biology labs on campus, and benefit from shared facilities, such as the genomics core research facility. The University of Oregon is an AAU research institution located in Eugene, OR, one of the most outstanding small cities in the US. The campus is one hour from the beautiful Oregon coast and one hour from hiking and skiing in the Cascade Mountains.

To apply for this position, please send a statement of research interests, publications, CV, and letters from three references to Matt Streisfeld via ie2jobs@uoregon.edu (preferred) or c/o Postdoctoral Search # 13120, Institute of Ecology and Evolution, 5289 University of Oregon, Eugene, OR 97403-5289.

The position is available for one year with the possibility of renewal depending on research progress. Although the position is available immediately, the start date can be flexible based on the needs of the candidate. The position will remain open until filled.

Women and members of groups underrepresented in science are encouraged to apply. The University of Oregon is an EO/AA/ADA institution committed to cultural diversity.

mstreis@gmail.com

UTexas Austin PlantBioinformatics

The Juenger lab at the University of Texas at Austin is recruiting a bioinformatics postdoctoral position to work on NSF and DOE funded research. The focus of the research is to explore the genetics and genomics of adaptation in switchgrass (*Panicum virgatum*), a potential bioenergy crop, to drought and future climate change scenarios.

The project is a multidisciplinary effort including ecologists, physiologists, genomic scientists and modelers. The candidate will play a lead role in analyzing next-

generation sequencing data including RNA-sequencing studies of gene expression responses to stress and the construction of mapping populations using a variety of genotyping methods. In addition, the candidate will have opportunities for analyzing transcriptome datasets, genomic sequence, and resequencing data of *Panicum hallii*, a diploid relative of agronomic switchgrass, in collaboration with sequencing efforts at the DOE Joint Genome Institute.

We are open to a wide array of applicants, but individuals with experience and interest in the development of pipelines for the analysis of next-gen data and statistical genomics are especially encouraged to apply. Applying candidates should email as a single PDF 1) a cover letter detailing interests and qualifications, 2) a CV listing education and relevant publications, and 3) names of three contacts that can provide letters of reference to Tom Juenger (tjuenger@austin.utexas.edu).

tjuenger@austin.utexas.edu

UYork HeliconiusEvolutionaryGenetics

Job: Postdoctoral Research Associate in Evolutionary Biology

Department of Biology, University of York, UK Up to 36 months fixed-term appointment £29,541 - £36,298 a year Application deadline: 11 September, 2013

We are seeking a skilled and motivated postdoctoral researcher to investigate the importance of gene flow in speciation using the *Heliconius* model system. Research on *Heliconius* butterflies has greatly increased our knowledge of how species form. With the publication of the draft *Heliconius melpomene* genome in 2012, many advances have been made in understanding genomic patterns of speciation using this system.

This NERC funded project in the laboratory of Dr. Kanchon Dasmahapatra will investigate the importance of gene flow in speciation in *Heliconius* using field-based and genomic approaches. The work will involve 12-18 months of fieldwork in Peru creating appropriate *Heliconius* mapping crosses, as well as the analysis of RAD and genome re-sequence data from high-throughput sequencing platforms. You will be responsible for the project on a day-to-day basis. You should hold a PhD in evolutionary biology or a related discipline, and have relevant fieldwork and analytical experience.

This post is available from 1 October 2013 for a period of up to three years.

Informal enquiries can be made directly to Dr. Kanchon Dasmahapatra (email: kanchon.dasmahapatra@york.ac.uk).

For a full job description and to apply online, please visit: <http://jobs.york.ac.uk> The University of York is committed to promoting equality and diversity.

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Dr Kanchon Dasmahapatra Lecturer in Evolutionary Biology Department of Biology University of York York YO10 5DD Tel: +44 (0)1904 328635 <http://www.york.ac.uk/res/dasmahapatra/>

UZurich EvolutionaryBioinformatics

URPP Evolution in Action

Job Advertisement Embedded Bioinformatician

Postdoctoral Fellow om Evolutionary Bioinformatics

A postdoctoral fellowship in evolutionary bioinformatics is available in the laboratory of Andreas Wagner at the University of Zurich. The lab is collaborating with multiple research groups as part of a university-funded research program in evolutionary biology. The candidate will be able to choose among several collaborative projects on the evolutionary genomics of animals, plants, and microbes, whose common thread is the analysis of high-throughput genome sequence or functional genomic data (See also <http://www.evolution.uzh.ch/-research/researchprojects.html>). The fellow would be jointly affiliated with the Wagner lab and with one or more of the research group(s) whose data he or she would help analyze.

We are looking for an individual who has received his or her PhD within the last five years, who is highly self-motivated and independent, yet willing to support the computational research of his collaborators in a team-effort. Fluency in a major scripting language such as perl, and experience in software development is a must. The successful candidate will have experience with computational analyses of high-throughput data in genomics or population genomics. Applications without a demonstrated interest and research history in evolutionary biology will not be considered further. The position offers a highly competitive salary of up to three years on annually renewable contracts.

The working language in the laboratory is English. German skills, although helpful, are not essential. Zurich is a highly attractive city in beautiful surroundings, with a multinational population, and many educational and recreational opportunities.

To be considered, please send a single (!) PDF file merged from the following parts to annette.schmid@ieu.uzh.ch: CV including publication list, a statement of research interests not exceeding three pages, and three academic references. Please include the word EVOBIO2013 in the subject line. The application deadline is Sep 6, 2013. The position is available in January of 2014.

Annette Schmid Administrative Assistant of Prof. A. Wagner University of Zurich Institute of Evolutionary Biology and Environmental Studies Wagner lab, Y27-J52 Winterthurerstrasse 190 CH-8057 Zurich Switzerland Mail to: annette.schmid@ieu.uzh.ch Phone +41 (0)44 635 61 42 Fax +41 (0)44 635 61 44 at the office on Tuesday and Friday

annette.schmid@ieu.uzh.ch

UZurich SocialEvolution ComparativeApproach

The evolution of family living in birds - a comparative approach

A postdoc position in Evolutionary Biology is available at the Institute of Anthropology, University Zurich (Switzerland) in the lab of Michael Griesser to investigate the factors which promote family living in birds. The full-time position is funded for up to 1.5 years, starting October 2013. The salary is according to the salary brackets of the Swiss National Research Council.

I am looking for a highly motivated Postdoc to work on a large-scale comparative data set to understand the role of ecology and life-history for the evolution of family living in birds. While we have a good understanding which factors promote cooperative breeding, we still lack insight into the factors which drive family living. We work in my lab to fill in this crucial gap of knowledge in social evolution.

The Anthropological Institute & Museum at the University Zurich offers a stimulating, international work environment with top researchers working in related, relevant topics (cooperative breeding and social evolution in primates, birds and dolphins). The working

language at the Institute is English.

Required qualifications:

- 1) PhD in evolutionary biology, ecology, behavioural ecology or similar, using comparative methods
- 2) A strong interest in evolution of sociality and cooperation
- 3) Previous knowledge of comparative analyses, preferably also RangeMapper and BayesTraits
- 4) Proficient user of R, experience with phylogenetic controlled models (e.g the MCMCglmm module)
- 5) Experience from working on a cluster
- 6) Proven writing up skills
- 7 Project management skills and ability to work independently
- 8) Excellent spoken and written English

Applications received before 15th September 2013 will be given full consideration.

If you wish to apply, send a motivation letter, CV, publication list, three contacts for references and a statement of research interests not exceeding 2 pages (as a single PDF) to: michael.griesser@uzh.ch

Michael Griesser Anthropological Institute & Museum University of Zurich - Campus Irchel Winterthurerstrasse 190 8057 Zürich Switzerland

<http://www.aim.uzh.ch/Research/birdfamilies/-mgriesser.html> <http://www.prodoc-evolcoop.uzh.ch/-index.html> michael.griesser@uzh.ch

UZurich UGrenoble EcoEvoModelingClimateChange

ZURICH-GRENOBLE POSTDOCTORAL POSITION IN ECO-EVOLUTIONARY MODELING

A post-doctoral position is available at the Institute of Evolutionary Biology and Environmental Studies (IEBES), University of Zurich, Switzerland to work in collaboration with Frederic Guillaume (IEBES) and Wilfried Thuiller (Laboratoire d'ECologie Alpine (LECA), Uni Grenoble, France) on a eco-evolutionary modeling project funded by Swiss SNF and ERC grants. We seek a candidate with strong interests in evolutionary biology and community ecology, and a solid background in the modeling of ecological and/or evolution-

ary dynamics.

The aim of the project is to model the eco-evolutionary dynamics of species' range evolution caused by environmental changes and to predict shifts in species distributions at continental scales under climate change taking account of both adaptive and ecological processes. The project will blend existing modeling approaches in quantitative genetics, metapopulation dynamics, and metacommunity ecology and be applied to datasets on large-scale species distributions for a large number of species.

The candidates will have a PhD in a relevant area, be highly self-motivated, and able to work independently. We expect the candidates to have a strong theoretical background in one of evolutionary quantitative genetics, metapopulation genetics/dynamics, or (meta)community ecology, and be able to show expertise in deploying complex computational approaches and in the statistical analysis of high-dimensional datasets. Programming skills are highly recommended with at least one scripting language (R, Matlab, Mathematica, Python, etc.) Knowledge of C/C++ will be preferred.

The position is for 18 months with possibility of extension. Possible starting dates are between November 2013 and January 2014. The candidate will be hosted at IEBES in Zurich with possibilities for frequent stays at LECA, Grenoble. The candidate should be able to travel between Zurich and Grenoble (or midway, expenses covered) for report meetings. Flexibility and willingness to accommodate with different geographical locations will be guaranteed from all parties.

LECA (www-leca.ujf-grenoble.fr) is part of the University Joseph Fournier in Grenoble, France. Grenoble is set close to some of the most beautiful mountains of the Alps with excellent connections to Lyon and Geneva. IEBES (www.ieu.uzh.ch) is at the University of Zurich, Switzerland. Zurich is renown for its quality of living and has a multinational population with many educational and recreational opportunities. LECA and IEBES host a large and vibrant community of excellent scientists to interact with. Working language is english at both locations.

Deadline for application: September 6, 2013, (position open until filled)

Application package in a *single* PDF file should include (1) CV with list if publications in peer-reviewed journals, (2) cover letter explaining research interests and fit to the position requirements (max three pages), and (3) three academic references. Applications should be sent to Frederic Guillaume (fred-

eric.guillaume@env.ethz.ch).

For informal inquires, please contact us:

Frederic Guillaume frederic.guillaume@env.ethz.ch +41
(0)44 632 52 78

Wilfried Thuiller wilfried.thuiller@ujf-grenoble.fr +33
(0)4 76 51 44 97

frederic.guillaume@env.ethz.ch

VanderbiltU EvolutionofPregnancy

A postdoctoral position is available in the Abbot & Rokas' labs at Vanderbilt University in Nashville, Tennessee to study the evolution and comparative genomics of pregnancy and pre-term birth in humans. We are seeking candidates with strong backgrounds in evolutionary genetics, molecular evolution, or genomics, and particularly encourage candidates to apply who have broad and diverse training in quantitative approaches to evolutionary biology.

The candidate will be encouraged to develop independent research and training directions, but will join a team in the Abbot (<http://vanderbilt.edu/abbottlab/Home.html>) & Rokas (<http://as.vanderbilt.edu/rokaslab/>) labs who are developing the computational and conceptual tools necessary for generating a comprehensive evolutionary synthesis of human pregnancy. Our goal is to generate a set of database tools that will build bridges between evolutionary biologists, geneticists, developmental biologists, physiologists, obstetricians, and social anthropologists, and to exploit the power of cross-species comparisons and macroevolutionary history in order to elucidate human birth timing and disease susceptibility.

Please feel free to inquire for more information and/or send a CV and contact information for three references to Dr. Patrick Abbot, patrick.abbot@vanderbilt.edu. The position is effective immediately.

patrick.abbot@Vanderbilt.Edu
patrick.abbot@Vanderbilt.Edu

YaleU EcoEvolutionaryDynamics

A three-year postdoctoral position is available immediately in the Department of Ecology and Evolutionary Biology at Yale University through the Yale Institute for Biospheric Sciences Program in Eco-Evolutionary Dynamics. We are seeking a highly motivated and creative individual to assist in developing and operating an experimental test-bed for validating the predictions of eco-evolutionary theory. The successful candidate will engage in regular working groups combining international leaders in experimental and theoretical approaches to eco-evolutionary dynamics and will conduct experiments utilizing high-throughput, automated measures of evolving microorganisms and liquid-handling robotics. Experience with these technologies is preferred, but all strong candidates will be considered.

The YIBS program in Eco-Evolutionary Dynamics is co-directed by David Vasseur, David Post, and Paul Turner. The successful candidate will be appointed within the Department of Ecology and Evolutionary Biology; more information on the department is available at www.yale.edu/eeb. More information about postdoctoral appointments at Yale is available at <http://www.yale.edu/postdocs/>. Applications should be emailed to David Vasseur (david.vasseur@yale.edu) and include a CV, short statement of research interests, and contact information for three references. Applications will be considered beginning on September 1, 2013.

"Turner, Paul" <paul.turner@yale.edu>

YorkU EvolGenomics

Postdoctoral position - Evolutionary genomics of social insects; Toronto, Canada.

The laboratory of Dr. Amro Zayed at the Department of Biology at York University (Toronto, Canada) has a 2-yr postdoctoral position available - starting this fall - for a highly motivated biologist with expertise in population genetics or genomics. The postdoctoral fellow will work with exciting datasets to investigate the relationship between recombination, the evolution of behavior, and adaptation in social insects. Please visit www.yorku.ca/zayedlab to learn more about the lab.

Qualified candidates must have a doctoral degree, several first author-publications in relevant fields, and excellent communication skills.

Please submit your CV, a summary of your research

background, and contact information for 3 referees to zayed(at)yorku.ca before September 15th 2013.
amroyu@gmail.com

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CRM Montreal Biodiversity Nov4-8

On behalf of the CRM, and as part of the Thematic Semester on Biodiversity and Evolution (2013), we are pleased to announce the workshop:

Biodiversity and Environment: Viability and Dynamic Games Perspectives, November 4-8, 2013.

Details of the meeting, including registration can be found at the following site:

<http://www.crm.umontreal.ca/2013/Environment13/-index.e.php> Overview:

Although alarming news are accumulating by the day on the impact of human activities on biodiversity, ecosystems and climate change, the response by the international community has not yet been up to the faced challenges. The pursuit of self-interest has often been pointed out as a major obstacle to reach the much-needed global or regional agreements to tackle these problems. Another difficulty in dealing with these issues is that they are of the long-term variety and involve a high degree of uncertainty. Indeed, the severity of some threats made to the environment and to biodiversity is not yet fully understood, while changing

consumption patterns, finding less-polluting technologies, for instance, require time and resources. This means that dealing with global environmental (in a large sense) issues requires a long-term perspective, which contrasts with the typical views and interests of short-term lived governments and corporations. In this respect we may learn from solutions found in nature for surviving and evolving.

This workshop aims at bringing together experts in viability theory, dynamic optimization and dynamic games interested in biodiversity and environmental issues from a biological, economical, social or interdisciplinary perspective and at fostering collaboration and information exchange between them. A large place will be devoted to the mathematical modeling of complex systems under uncertainty, the evolution of cooperation through individual or species interactions in common goods games, and the design of mechanisms for adaptation and survival. This should contribute to reconcile all parties concerned by global environmental issues.

Confirmed speakers:

Benjamin Allen (Harvard) *Jean-Baptiste André *(CNRS Paris) *Tibor Antal* (Edinburg) *Marco Archetti *(Basel) *Pierre Bernhard *(INRIA Sophia Antipolis) *Noel Bonneuil* (INED, Paris) *Raouf Boucekkine* (Aix-Marseilles II & Louvain) *Ross Cressman *(Wilfrid Laurier) *Michel De Lara *(Paris-Est) *Luc Doyen *(CNRS Paris) *Marie-Hélène Du-

rand *(Montpellier 3) *Andy Gardner *(Oxford) *Peter Hammerstein *(Humboldt) *Christoph Hauert *(UBC) *Alain Haurie *(Genève) *Larry Karp *(Berkeley) *Jacek Krawczyk *(Victoria University of Wellington) *Vlastimil Krivan *(Academy of Sciences of the Czech Republic) *Jesús Marín-Solano *(Barcelona) *Jorge Navas* (Barcelona) *Martin Nowak* (Harvard) *Hisashi Ohtsuki *(Graduate University for Advanced Studies, Japan) *Jorge Pacheco *(Minho, Portugal) *Kristan Schneider* (Mittweida, Germany) *Katheline Shubert* (Paris School of Economics) *Mabel Tidball *(INRA, Montpellier) *Arne Traulsen* (Max-Planck-Institute for Evolutionary Biology, Germany) *Ngo van Long *(McGill University) *Matthijs van Veelen *(Amsterdam) *Bernhard Voekl *(Oxford) *Geoff Wild *(Western Ontario)

Organizing committee:

Hassan Benchekroun (McGill) *Michèle Breton* (HEC Montréal) *Sabin Lessard* (Montréal) *Patrick Saint-Pierre* (Paris-Dauphine) *Georges Zaccour* (HEC Montréal)

Sabin <lessards@DMS.UMontreal.CA>

CeskyKrumlov CzechRepublic Genomics Jan12-24

2014 Workshop on Genomics, Cesky Krumlov, Czech Republic Dates: 12-24 January, 2014

Application Deadline: 15 October, 2013 is the preferred application deadline, after which time people will be admitted to the course following application review by the admissions committee. However, later applications will certainly be considered for admittance or for placement on a waiting list.

Registration Fee: \$1800 USD. Fee includes opening reception and access to all course material, but does not include other meals or housing. Special discounted pricing has been arranged for hotels, pensions and hostels. Information regarding housing and travel will be made to applicants following acceptance.

APPLY HERE: <http://evomics.org/registration-form/-2014-workshop-on-genomics/> Useful Links:

Direct Link to the Full Workshop Schedule: <http://evomics.org/workshops/workshop-on-genomics/-2014-workshop-on-genomics-cesky-krumlov/> General Workshop information: <http://evomics.org> Fre-

quently Asked Questions (FAQ) about the Workshop and Cesky Krumlov can be found here: <http://evomics.org/workshops/faq/> Workshop Overview: The Workshop on Genomics consists of a series of lectures, demonstrations and computer laboratories that cover various aspects of genomics focusing primarily on the analysis of modern sequencing data. Faculty are chosen exclusively for their effectiveness in teaching theory and practice. The course is designed for established investigators, postdoctoral scholars, and advanced graduate students. Scientists with strong interests in the uses of modern sequence data, analytical methods, and the use of modern sequence data to study non-model organisms, SNP detection and analysis, genome visualization tools and related areas are encouraged to apply for admission. Lectures and computer laboratories total ~90 hours of scheduled instruction. No programming experience is required.

Topics to be covered include: - Sequencing technologies - Genomics study design - Manipulation of sequence data using the command-line and quality assessment and control techniques - Analyzing genomic data in the "cloud" using Amazon Web Services (AWS) - Assembly and alignment: basic analyses used for de novo and re-sequencing studies - The use of next-generation sequence data to study non-model organisms - RAD (Restriction site Associated DNA) sequence analysis - Variant detection - Metagenome analysis - Transcriptome quantification and mapping for expression and gene structure elucidation - An introduction to using python and iPython notebook - Evolutionary genomics Co-directors: Naiara Rodríguez-Ezpeleta, Scott A. Handley, Konrad Paszkiewicz, and Karin Rennefors

Offered in partnership with the Graduate Research School in Genomic Ecology (GENECO) <http://www.geneco.se/> . For more information and online application see the Workshop web site - <http://evomics.org> shandley@mrce.wustl.edu

China PopulationGeneticAnalysesofNGSData Oct14-19

Course in Human Population genetics Analyses with an emphasis on Next generation Sequencing data.

Where: Beijing Genomics Institute (BGI) in Shenzhen, China (next to Hong Kong).

When: October 14-19

The course will provide a mixture of lectures on theory and hands-on computer exercises. Topics include: Base calling, mapping and filtering. SNP calling and Genotype calling. Estimation of allele frequencies from NGS data. Pooled and un-pooled samples. Coalescence theory and its applications. Detection of natural selection. Genome-wide scans. Inferences regarding population structure and demographic history. Linkage disequilibrium and association mapping. Methods for inferences of relatedness and identity-by-descent. Admixture mapping and IBD mapping.

Instructors: Noah Rosenberg (Stanford) , Rasmus Nielsen (UC Berkeley), Jun Wang (BGI), Anders Albrechtsen (U. of Copenhagen), Thorfinn Korneliusen (U. of Copenhagen), and Ida Moltke (U. of Chicago).

Course fee: \$200

Included in the fee is instruction, housing (dormitory style), three meals a day, coffee breaks and a half-day excursion to the 'Splendid China & China Fold Culture Village'.

Apply by Sept. 1st. For sign up and questions, please email: cphsummercourse@gmail.com .

Hope to see you there,

Rasmus Nielsen

Göttingen LandscapeGenetics Mar10-15

We are happy to announce the Spring School

*"A practical, hands-on introduction to landscape genetics" *

from March 10th to 15th , 2014 in Göttingen, Germany.

Learn how to conduct the three analytical steps of landscape genetics, discuss challenges and future opportunities with your peers, and meet others interested in this rapidly-developing field.

The Spring School is funded by the VW Foundation and consists of a 5-day hands-on workshop plus a 1-day symposium. It is intended for PhD students and postdocs with little or no experience in landscape genetics.

*Workshop lecturers: *

Erin Landguth - University of Montana, USA Gernot Segelbacher - University of Freiburg, Germany Niko Balkenhol – University of Göttingen, Germany

Keynote speakers for the symposium:

Rachael Dudaniec - Lund University, Sweden Helene Wagner - University of Toronto, Canada Rodney Dyer – Virginia Commonwealth University, USA Ian Wang – Stanford University, USA

The application deadline is *September 15th , 2013.*

For more information and to apply, visit

*www.LandscapeGenetics.info *

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Office Days: Wednesday and Thursday

Do not expect an immediate response to emails - I am checking emails once a day.

Think green - keep it on the screen.

Interested in conservation? visit: <http://www.congressgenetics.eu> PD Dr. Gernot Segelbacher

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gernot.segelbacher@wildlife.uni-freiburg.de

<http://www.wildlife.uni-freiburg.de/-mitarbeiterinnen/segelbacher>

Gernot Segelbacher
<gernot.segelbacher@wildlife.uni-freiburg.de>

Kourou Biogeography Oct10-12

First CEBA Thematic School on 'neotropical biogeography'. Kourou, October 10-12, 2013

One of the major issues in biodiversity research is to understand when and how the vast biodiversity we observe today in Amazonia has emerged. New techniques are available to construct more accurate scenarios of the history of Neotropical biodiversity (phylogenomic, ancestral range estimation, paleoclimatic models). The CEBA first Thematic School will offer an advanced training in these new approaches. It is open PhD students, post-doctoral researchers, early-career scientists, or professionals in neotropical conservation. The number of participants is limited to 15.

For more information: download the presentation file of the Thematic School : <http://www.labex-ceba.fr/>

10-12-octobre-2013-le-ceba-organise-sa-premiere-ecole-thematique-sur-la-biogeographie-neotropicale/ Amaya IRIBAR-PELOZUELO <amaya.pelozuelo@univ-tlse3.fr>

Manchester Morphometrics Nov4-Dec13

I am pleased to announce this year's morphometrics course from the University of Manchester. This year's course will run in the six weeks from 4 November to 13 December 2013.

The course information can be found on the following web site: <http://www.flywings.org.uk/MorphoCourse>
 Course content: * Data acquisition: the kinds of data and the equipment used to collect them. * Definitions of size and shape * Geometric methods to characterise shape from a configuration of landmark points (Procrustes superimposition) * Statistics of variation, scatter plots, basic multivariate statistics * Principal component analysis * Measurement error and outliers * Shape transformations and 'warping' – the thin plate spline * Analysis of outline shapes * Distinguishing between groups (taxonomy, clinical diagnosis, etc.) * Allometry and size correction * Influence of external factors on shape (ecomorphology, dose-response studies) * Symmetric forms and measurement of asymmetry. * Morphometric inferences on developmental processes * Morphological integration and modularity * Genetics of shape: analyses of resemblance between relatives, QTL analyses. * Phylogeny: reconstructing the evolution of shape

Practice examples: As far as possible, practical exercises are provided to accompany the course content. These practice exercises consist of data sets and explanations on how to run the respective analyses using the MorphoJ software (http://www.flywings.org.uk/-MorphoJ_page.htm). Participants who already have their own data are encouraged to use those and to discuss them as part of the course. I hope there will be a bit of a 'workshop' feel to the course unit.

Group work: Participants will work in small groups to prepare web presentations of possible morphometric studies (blogs or wikis prepared by the groups). This activity stimulates discussion and provides a broad overview of the broad range of questions that can be addressed with morphometric methods.

The fee for the course is GBP 310.00.

All prospective participants need to pre-register for the course. The deadline for this is the *13 September 2013*.

For further details and the pre-registration form, see the course web page: <http://www.flywings.org.uk/-MorphoCourse> Best wishes, Chris

Christian Peter Klingenberg Faculty of Life Sciences
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cpk@manchester.ac.uk

MontSaintHilaire Quebec Biodiversity Nov25-Dec6

FRENCH VERSION FOLLOWS...

The Quebec Centre for Biodiversity Science (QCBS) is offering an intensive course in biodiversity science. The two-week course is taught by internationally renowned members of the QCBS, and targets graduate students, postdocs and professional biologists interested in acquiring state-of-the-art knowledge in all aspects of biodiversity science. Topics include systematics, phylogenetics, biodiversity theory, links between biodiversity and ecosystem function and services, conservation and economics.

The course is open to a maximum of 25 participants. We welcome applications from institutions in Québec, Canada and abroad. Priority will be given to trainees within the QCBS network. Participants will be expected to work full time (approximately 90 hours, including lectures and workshops) and participate in all aspects of the course.

The course will be held from 25 November to 6 December at the Gault Nature Reserve at Mont Saint-Hilaire in Quebec, Canada,

Course coordinators for this year are Jonathan Davies (McGill University), Pedro Peres-Neto (UQAM) and Jean-Philippe Lessard (McGill University). Guest lecturers include Graham Bell, Andrew Gonzalez, Catherine Potvin, Melania Cristescu, Jaye Ellis, Virginie Milien, Rowan Barrett, Pierre Legendre, Mark Vellend,

Christian Messier, Steven Kembel, Dominique Gravel, and many more.

Additional information can be found on the course website: <http://qcbs.ca/training/summer-school/2013-biodiversity-science-intensive-course/>

For inquiries, please contact Philippe Auzel: philippe.auzel@mcgill.ca

Le Centre de la science de la biodiversité du Québec (CSBQ) offre chaque année un cours intensif en science de la biodiversité.

Hébergés dans une station de recherche de terrain durant deux semaines, vous pourrez suivre les interventions de scientifiques de renommée internationale, membres du CSBQ ou invités à l'occasion du cours. Ce cours s'adresse aux étudiants des cycles supérieurs, aux stagiaires postdoctoraux et aux biologistes professionnels qui souhaitent élargir leurs connaissances sur les sujets de l'heure en science de la biodiversité. Les sujets abordés traiteront de la systématique phylogénétique, de la théorie de la biodiversité, des liens entre la biodiversité, du fonctionnement des écosystèmes, des services rendus par les écosystèmes, ainsi que de la gestion ou de l'économie de la biodiversité.

Le cours est ouvert à un maximum de 25 participants. Nous acceptons les demandes provenant d'établissements au Québec, au Canada et à l'étranger. La priorité sera néanmoins donnée aux étudiants du réseau du CSBQ. Les candidats retenus doivent participer activement à tous les aspects du cours et suivre un enseignement à temps plein (environ 90 heures) durant lequel les conférences alternent avec les ateliers de travail.

Le cours aura lieu à la Réserve naturelle Gault au Mont Saint-Hilaire, Québec, Canada, du 25 novembre au 6 décembre 2013.

Comité organisateur des conférences :Jonathan Davies (Université McGill), Pedro Peres-Neto (UQAM) et Jean-Philippe Lessard (Université McGill).

Conférenciers invités : Graham Bell, Andrew Gonzalez, Catherine Potvin, Melania Cristescu, Jaye Ellis, Virginie Millien, Rowan Barrett, Pierre Legendre, Mark Vellend, Christian Messier, Steven Kembel, Dominique Gravel. D'autres conférenciers s'ajouteront à cette liste d'invités.

Pour plus d'informations veuillez consulter le site du cours: <http://qcbs.ca/training/summer-school/2013-biodiversity-science-intensive-course/> Pour de plus amples informations et si vous avez des questions, merci de contacter le coordonnateur du CSBQ:

philippe.auzel@mcgill.ca

Jean-Philippe Lessard Quebec Center for Biodiversity Science Postdoctoral Fellow

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Tel: 514-398-4455 ext: 6428 Fax: 514-398-5069

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site: www.jeanphilippelessard.com < <http://www.jeanphilippelessard.com/> >

“Jean-Philippe Lessard, Mr” <jean-philippe.lessard@mcgill.ca>

Oulu Finland EvolDevPopGenetics Sep12-13

Welcome to the Workshop on Evolutionary, Developmental and Population Genetics, September 12-13, 2013 < <https://wiki.oulu.fi/display/genetics/-Workshop+on+Evolutionary%2C+Developmental+and+Population+13%2C+2013> >, in Oulu Finland!

The event is organized in cooperation by the Biocenter Oulu Doctoral Programme < <http://www.oulu.fi/biocenter/doctoral-programme> > (BCODP), the Finnish German doctoral Training Network in Developmental Biology < <http://www.helsinki.fi/vgsb/FinGerDevNet/> > (FinGerDevNet) and the National Population Genetics Doctoral Program < <http://www.oulu.fi/biology/PopGenSchool/> >.

Workshop home page: <https://wiki.oulu.fi/display/genetics/-Workshop+on+Evolutionary%2C+Developmental+and+Population+13%2C+2013> Program:

Thursday - 12 September 09.00-09.30. Get together coffee 09.15-09.30 TED Virtual Lecture - Orientation to the subject 09.30-09.45. Opening and orientation by Seppo Vainio & Tanja Pyhäjärvi 09.45-10.30. Brandon Gaut (USA): “Methylation and the evolution of plant genes and genomes” 10.30-11.15. Jukka Jernvall (Finland): “Comparative enhancer landscapes of tooth genes” 11.15-11.45. Coffee/Tea break and social activity 11.45-12.30. Hadi Valadi (Sweden): “Exosomes shuttle RNA between cells, a potential vector for delivery of therapeutic nucleic acids to cells” 12.30-13.30 Lunch break 13.30-14.15. Benedetta Bussolati (Italy): “Nanovesicles in control of progenitor cells and kidney

function” 14.15-15.15. Student - speaker discussions on the topics (Please register to the teams)

1. Evolutionary biology 2. Nanovesicles/exosomes 3. Developmental Biology 15.15-16.00 Ram Reshef (Israel): “Hox genes and the establishment of the kidney morphogenetic field” 16.00-16.45 Rachel Giles (Holland): “Evolution of the kidney”

Friday 13 September 09.00-09.30. Get together coffee - TED lecture in lecture hall 09.30-10.00. Summaries and reviews of the discussions from the 1-3 miniteams given by the students 10.00-10.45. Mark Hankins (UK): “The evolution of non-visual photoreceptors in the vertebrates”. 10.45-11.30 Moises Mallo (Spain): “Variations in rib numbers among vertebrates: a story of small differences with a big impact”. 11.30-12.15 Brandon Gaut (USA). “The molecular and functional diversity of adaptive convergence.” Closing of the workshop by Seppo Vainio and Tanja Pyhäjärvi

Venue: Linnanmaa, Oulu (Lecture halls will be announced later) Contact: Tanja Pyhäjärvi or Seppo Vainio (firstname.lastname@oulu.fi)

Registration Here < https://docs.google.com/forms/d/1tPjJcws67zrcT6RnL14BY6uBo06xtw3fTxaLHZd27_E/-viewform >

Tanja Pyhäjärvi, Senior Research Fellow University of Oulu, Department of Biology Room KE244-2 (tel. 48 1521) Mobile +358 50 3504932 email: tanja.pyhajarvi@oulu.fi

Mail: Department of Biology PL 3000 90014 University of Oulu FINLAND

Tanja Pyhäjärvi <tanja.pyhajarvi@oulu.fi>

Oulu Finland PopGenetics Sep12-13 URLupdates

Regarding the Workshop on Evolutionary, Developmental and Population Genetics, September 12-13, 2013 in Oulu, Finland,

Unfortunately the URL addresses of all our wiki-pages changed during a recent update. This is a new link to Workshop wiki-page:

<https://wiki.oulu.fi/confluence/display/genetics/-Workshop+on+Evolutionary%2C+Developmental+and+Population+Genetics+2013> Registration:

https://docs.google.com/forms/d/1tPjJcws67zrcT6RnL14BY6uBo06xtw3fTxaLHZd27_E/-viewform Best regards, Tanja

Tanja Pyhäjärvi, Senior Research Fellow University of Oulu, Department of Biology

tanja.pyhajarvi@gmail.com

tanja.pyhajarvi@gmail.com

Poznan Poland TeachingEvolution Sep15-19

Hello,

I would like to announce a last minute call for a 4-day workshop on Scientific Teaching, to be held in Poznan, Poland, between 15-19 of September 2013. Due to the last minute funding decision, we now have places available for international participants.

We invite faculty, postdoctoral fellows and PhD graduate students to join us to address the strategies for implementing learner-centered biology instruction and how to redesign curricula that reflect the biological sciences in the 21st century.

During a highly interactive 4 full days (Mon-Thu), the participants will learn the goals and theory of scientific teaching, why and how to create a learner-centered classroom, how to design an entire course framework, how to develop and use student assessments to inform evidence-based instruction, how to create active learning classes, how to implement cooperative learning, and how to build and sustain a professional network for teaching and learning. Throughout the workshop, we will address the practical realities of classroom logistics and time for processing and analyzing student assessment data. By the end of the workshop, participants will have more tools and data to support their decision to teach science as it is practiced, that is, scientific teaching±. The workshop is an excellent preparation for biologists who plan to teach during their careers, but participants with all life science background are encouraged to apply. This course is the second European edition of the US-based FIRST project (<https://www.msu.edu/~first4/About.html>). It is funded by the Foundation for Polish Science, organised by Adam Mickiewicz University in Poznan by prof. Izabela Maka©owska and Joanna Ciombrowska and will be supported by prof. Dianes Ebert-May from Michigan State University, USA and Dr Jarek Bryk from the National

Centre for Biotechnology Education at the University of Reading, UK. The course is a part of the Foundation for Polish Science's SKILLS workshop series.

Participants affiliated with Polish academic institutions may be eligible for the course fee waiver thanks to funding from the Foundation for Polish Science and EU FP7 programme. For others the course costs 300 Euro, which includes accommodation and food but does not include travel to/from Poznan.

Registration deadline: Midnight on Wednesday, September 5th (NEXT WEEK!). To apply, please send us:

1. Your name, affiliation and position held including if/how much teaching you do and to what audience;
2. An up to 200 words long statement explaining your reason for applying to the workshop and expected outcomes from your participation in relation to your career goals;
3. Curriculum Vitae;
4. An up to 200 words long statement of teaching philosophy;

Please combine all the files into a single pdf file, name it * LastnameFirstname_FIRSTIVPoland.pdf* and email the finalized application to j.bryk@reading.ac.uk. Please use the same email with any questions about the workshop.

Some more information about the course is available at <http://scientificteaching.wordpress.com> yotiao@gmail.com

Tromso Phylogeography September 2013

ForBio Phylogeographic Methods course 16 - 24 September 2013, University of Tromsø

Language of instruction: English? Course materials: Curriculum/reading list ca. 10?12 papers Course contact person: Sergei V. Drovetski (sdrovetski@gmail.com) Teachers: Dorothee Ehrich (University of Tromsø, dorothee.ehrich@uit.no), Andreas Tribsch (University of Salzburg, Austria, andreas.tribsch@sbg.ac.at) and Edson Sandoval-Castellanos (Swedish Museum of Natural History, edson.Sandoval@nrm.se)

Applications accepted until the course is filled on the

“first come, first serve basis”

Introduction: Phylogeography literally combines phylogeny with biogeography and investigates the geographic distribution of intra- or interspecific genetic variation. Observed patterns reflect the biogeographical and evolutionary history of a species or a species complex. Phylogeographic studies address questions about colonization pattern, historical range contractions or expansions in reaction to past climate change or other environmental influences, ice age refugia or hybridization. The phylogeographic approach has become increasingly important in taxonomic research as well as in the field of conservation biology. Despite its original focus on genetic lineages and sequence data, also allele frequencies and other types of genetic data are frequently used.

Course focus and activities: In this course we will introduce the theoretical basis of phylogeography, genetic markers used, and data analysis. The main part will be a computer course in analyzing and interpreting phylogeographic data based on model datasets and/or data sets of participants. We will start with basic analyses such as estimating diversity and differentiation and introduce more advanced methods such as Isolation with migration models, historical demography, and approximate Bayesian calculation using the coalescent. The course is also meant to be a workshop, where it will be possible to discuss concepts, ideas and analyses of the participants own data sets.

General information: Course participants are expected to have basic knowledge in evolutionary biology and population genetics. Some knowledge of biogeography is an advantage. Participants will receive a number of scientific articles (10-12) on the topic to study before the course. Evaluation will be based on a project report to be delivered after the course. There is no exam and successful course participation will certified as “passed”.

Required previous knowledge/course specific requirements Master degree in biology

Assessment - Project report

Assignment A report and participation in course activities. Grade pass/fail.

Course start: 16 September 2013 at 12:00 Course end: 24 September at 17:00

Course costs: No course fee. Travel and accommodation is refunded for members of the Norwegian-Swedish-Danish Research School in Biosystematics (ForBio). Food is not refunded for courses organized at a university campus.

Terms for reimbursement: For travel reimbursement you will have to fill out the standard Norwegian travel form and send it with original receipts to Sergei V. Drovetski (Tromsø University Museum, NO-9037 Tromsø Norway). For the travel we will cover your accommodation and transportation expenses. You must order flight tickets within 4 days after you receive confirmation from us; this is to get access to the cheapest tickets possible. Other types of transportation (bus, trains, etc.) that can be pre-booked, should also be booked as early as possible. Do not book hotels on your own, ForBio will book accommodation. Rooms (2-3 persons per room) will be reserved at Sydspissen Hotel (<http://www.sydspissenhotell.no/EN/index.html>).

Application: Persons with a genuine interest in biosystematics who want to participate in this course, first have to register as ForBio member or associates (please visit ForBio membership page (<http://www.forbio.uio.no/membership/>)). After registration as ForBio associate, please send an e-mail to Sergei V. Drovetski (sdrovetski@gmail.com) expressing your interest in course attendance and briefly describing your research interest(s)/project(s).

Sergei V. Drovetski Researcher Tromsø University Museum NO-9037 Tromsø Norway e-mail: sdrovetski@gmail.com

sdrovetski@gmail.com

UOtago MarineMammalGenomics Dec8

A one-day workshop entitled 'Marine Mammal Genomics: applications to evolution, ecology, and conservation' will be held at the University of Otago on December 8, 2013, immediately prior to the Society for Marine Mammalogy's (SMM) Biennial Conference. The workshop will consist primarily of invited talks, focusing on both genome sequencing/annotation and the use of genomics to study speciation, population structure, and adaptation in marine mammals. For a more complete description of the workshop, please see the conference workshop website (http://www.marinemammalscience.org/index.php?option=com_content&view=article&idU8&Itemid36).

Student Travel Grants: With support from the American Genetic Association, publishers of the Journal of Heredity (<http://www.theaga.org/>), we are pleased to announce the availability of eight awards of \$1,000 each

to support graduate student registration and travel to the workshop. The award will also support a one-year AGA student membership. Students who wish to be considered for the award should submit a CV and 2-3 paragraph (no more than 250 words) essay describing why they should be supported. A small committee of marine mammal scientists using genomic techniques will review the applications. Award recipients will be selected based on 1) demonstrated interest in marine mammal genomics (i.e. publications, ongoing research projects); and 2) financial need. We hope to support a diverse group of students. Applications must be submitted by September 1 via email to kristina.cammen@duke.edu.

Registration: With generous support from an American Genetic Association Special Event Award, we are able to offer reduced registration fees to all participants. Registration fees will be \$25 for students who are members of SMM, \$60 for all other members of SMM and students who are not members, and \$100 for non-members. These fees cover the cost of space, audio-visual equipment, and catering (lunch and coffee breaks). Registration will soon be available at the above conference workshop website.

For more information about registration or any other questions about the workshop, please contact kristina.cammen@duke.edu.

Kristina Cammen Duke University Marine Lab

Kristina Cammen <kristina.cammen@duke.edu>

Vilnius Lithuania Conservation Nov4-8

Dear all,

Nordic Genetic Resource Center (NordGen) is arranging a workshop*“Optimal Contribution Selection”* in Vilnius, Lithuania 4th-8th of November 2013.

The main goals of the workshop are

to introduce the theory and implementation of Optimal Contribution Selection in sustainable management of breeding and conservation programs

to promote independent use of EVA (EVolutionary Algorithms) software with hands-on exercises

To maximize the learning experience of all participants, the workshop is divided into two parts. Participants may choose to register for *both* *or only one* of

the consecutive parts: “/Part I – Introductory”/ and “/Part II – Advanced”/.

For a closer description of the workshop program, registration and practical information, please, follow the link below

<https://sites.google.com/a/nordgen.org/workshop-optimal-contribution-selection/> Feel free to distribute this invitation amongst your colleagues.

Best regards

Anne Præbel NordGen - Nordic Genetic Resource Center P.O. Box 115, NO-1431 Ås, Norway Street address: Raveien 9, 1430 Ås Phone: +47 64949700, mobile: +47 40557652

torsten.nygaard@nordgen.org

www.nordgen.org Torsten Nygaard Kristensen <torsten.nygaard@nordgen.org>

YaleU PhylogeneticsNGS Nov4-7

MPS for NGS Workshop Massively Parallel Sequencing using Next Generation Sequencing for Phylogenetics and Phylogeography

Where: Yale University, New Haven, Connecticut

When: 4-7 November, 2013

Presented by: Yale Institute for Biospheric Studies-Molecular Systematics and Conservation Genetics Center and Life Technologies

Instructors: Danielle Edwards (Yale) (<https://sites.google.com/site/drDanielleEdwards/>), Ben Evans (Yale), Erin Schnettler (Yale), Jennifer Stover (Life Technologies)

Registration Fee: \$400, due by 1 October, 2013. Included in the fee is instruction, light continental break-

fast, lunch and afternoon coffee break. Parking passes can be provided for those who drive to campus.

Accommodations: We can facilitate staying with a Yale graduate student host for \$30/night. Alternative Hotel accommodations must be made separately. There are a few hotels in the area, within walking distance to the Environmental Science Center, 21 Sachem Street.

Limited number of openings V maximum of 15 participants

Registration Deadline: 1 October, 2013, for more information, expressions of interest and to register contact: Dr. Danielle Edwards (danielle.edwards@yale.edu)

Workshop Overview:

While focus will be on techniques specific to the Ion Torrent PGM, the library preparation and bioinformatics portions of the workshop will be general enough to apply to any NGS platform. The workshop will be a series of classroom lectures, and hands on demonstrations with extensive troubleshooting suggestions.

Day 1& 2 Library Preparation for any NGS platform PCR Amplicon pooling (Fluorometry), Optimization & size selection (instructions for using various equipment including the E-Gel, Pippin Prep and BioAnalyzer), individual pooling & quantitation. Day 2 will close with a demonstration of the Ion Torrent One Touch PCR machine and PGM, semi-conductor sequencing.

Day 3 Working with the Ion Torrent Server Hosted by Life Technologies featuring Field Application Specialist, Jennifer Stover. How to set up runs, analyzing general run statistics, and server capabilities.

Day 4 Bioinformatics & Data Processing (any NGS platform) Alignment, SNP calling, Extracting useable data.

For more information, expressions of interest and to register contact: Dr. Danielle Edwards (danielle.edwards@yale.edu) (<https://sites.google.com/site/drDanielleEdwards/>)

Carol Mariani <carol.mariani@yale.edu>

Instructions

Instructions: To be added to the EvolDir mailing list please send an email message to Golding@McMaster.CA. At this time provide a binary six letter code that determines which messages will be mailed to you. These are listed in the same order as presented here — Conferences; Graduate Student Positions; Jobs; Other; Post-doctoral

positions; WorkshopsCourses. For example to receive the listings that concern conferences and post-doctoral positions this would be 100010. Messages are categorized on the basis of their subject headings. If this subject heading is not successfully parsed, the message will be sent to me at Golding@McMaster.CA. In addition, if it originates from ‘blackballed’ addresses it will be sent to me at Golding@McMaster.CA. These messages will only be read and dealt with when I have time. The code 000000 has all channels turned off and hence gets only a once monthly notification of the availability of a monthly review pdf file.

To be removed from the EvoDir 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 EvoDir direct them to the email `evodir@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.