E v o l D i r

November 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

GifsurYvette EpigeneticsEvolution Dec3-4 TravelGrant

Travel grant to attend the Symposium on "Epigenetics in Ecology and Evolution"

The Société Française de Génétique offers a travel grant for one PhD student to attend the Symposium on "Epigenetics in Ecology and Evolution" organized by the INEE (CNRS) at Gif-sur-Yvette on 3 & 4 Decembre 2013 (registration : http://methdb.univ-perp.fr/-epinee/). Any PhD student registered for the conference before October 25th will be considered eligible for this grant. The retained applicant (based on the quality of the summary provided) will be announced before November 15.

Dr Anne Charmantier CEFE-CNRS, UMR 5175 1919, route de Mende F34293 Montpellier Cedex 5 - France

http://annecharmantier.free.fr Tel : +33 4 67 61 32 11 Fax : +33 4 67 41 21 38

Anne CHARMANTIER <Anne.CHARMANTIER@cefe.cnrs.fr>

GifsurYvette France EpigeneticsEvolution Dec3-4

Symposium on Epigenetics in Ecology and Evolution

Epigenetics, the science of reversible but heritable changes in gene expression has grown to maturity in the last years. The tremendous advancements of technologies that bring now the analysis of whole genomes, transcriptomes and proteomics into reach of almost any laboratory has also made possible the comprehensive analysis of epigenomes. The understanding that epigenetic modifications are involved in almost all developmental processes, and several examples that show environmentally induced epigenetic changes have fueled the hope to better apprehend how the environment and genetic and non-genetic heritable information interact and allow for adaptive evolution.

The research community in this latter field shares common concepts and fundamental question but is confronted to the technical difficulties associated with the heterogeneity of their models. The French CNRS INEE has therefore put forward and initiative to bring together existing expertise and to seek synergistic effects

in the French community wishing to peruse or to initiate work in the field of ecological epigenetics.

We have organised a symposium with a number of plenary talks and plenty of room for discussion. We cordially invite the community to join in on

December 3-4, 2013 in Gif-sur-Yvette (close to Paris, France).

Inscription is free but compulsory and the number of participants is limited to 80.

Please feel free to register before oct. 25, 2013

For the steering committee: Christoph Grunau Prof. des Universités/Professor (HDR) Université de Perpignan Via Domitia UMR 5244 CNRS Ecologie et Evolution des Interactions (2EI) 52, avenue Paul Alduy 66860 PERPIGNAN Cedex France Tel 33 (0)4.68.66.21.80 Fax 33 (0)4.68.66.22.81 http://2ei.univ-perp.fr/ http://methdb.univ-perp.fr/epievo/ Christoph Grunau <christoph.grunau@univ-perp.fr>

GifsurYvette France EpigeneticsEvolution Dec3-4 4

Reminder and Deadline extension - Symposium on Epigenetics in Ecology and Evolution

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KansasCity Genomics Nov1-3 DeadlineOct4

EARLY REGISTRATION DEADLINE OCT 4!

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 http://-tinyurl.com/me8l5x2 Deadline for room block: Friday, October 11, 2013.

The 2013 Ecological Genomics Symposium speakers are:

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 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 Wendeberg, 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

* Loretta Johnson * Associate Professor * Co-Director Ecological Genomics Institute * http://-ecogen.ksu.edu/ * Division of Biology * Kansas State University * Manhattan KS 66506-4901 * Office: 785-532-6921 * www.ksu.edu/johnsonlab * Bluestem ecotype project url: www.bluestemecotype.ksu.edu

Loretta Johnson <johnson@k-state.edu>

KansasCity Genomics November1-3 Registration

LAST CHANCE TO REGISTER!!!

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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 25, 2013.

POSTER ABSTRACTS: Poster topics should be related to the field of ecological genomics. Instructions for submitting your abstract online are at: http://-ecogen.ksu.edu/symp2013/abstract.html. DEADLINE FOR POSTER ABSTRACT SUBMISSION: Wednesday, October 23, 2013 at 11:59 p.m. CDT.

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Rob Knight, University of Colorado The Earth Microbiome Project

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

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Alexandra Boyd Program Coordinator | Ecological Genomics Institute 302 Ackert Hall Kansas State University Manhattan, KS 66506-4901 (785) 532-0115 | alexboyd@ksu.edu

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Kiel SMBEsatelliteMicrobialEvolution Apr2014 Registration

SMBE Satellite Meeting on Reticulated Microbial Evolution Christian-Albrechts University Kiel, Germany, 27-30 April 2014

Conference website: http://www.smbeme.org Lateral gene transfer (LGT) is the process by which prokaryotes acquire DNA across wide taxonomic boundaries and incorporate it into their genome. Accumulating evidence shows that LGT, a distinctly non tree-like evolutionary process, plays a major role in prokaryote evolution. Virtually all prokaryotic gene families have been affected by LGT and only few gene families are resistant to it. The biological and evolutionary significance of lateral gene transfer has broad implications for our understanding of microbial biology, not only in terms of evolution, but also in terms of human health: both the emergence of antibiotic resistance and the emergence of novel infectious diseases themselves often results from bacterial virulence mechanisms that can be newly acquired, for example in the form of pathogenicity islands, via LGT.

Our aim for this SMBE satellite meeting is to bring together scientists working in the fields of genome evolution, microbial ecology, and networks research in order to further develop the application of network models to the study of microbial genome evolution. We expect that a multidisciplinary joint meeting of scientists in those fields will add substance and progress to the study of reticulated (non tree-like) events during evolution.

FIRST CALL - ABSTRACTS AND REGISTRATION

Abstract submission deadline: 31 January 2014 Early registration deadline: 31 January 2014 Late registration deadline: 31 March 2014

PROGRAM

The conference will comprise three themes: Microbial genome evolution Microbial ecology Networks

Contributed talks will be selected from among the submitted abstracts. Prizes will be awarded for the most promising poster presentations.

CONFIRMED SPEAKERS

Yael Artzy-Randrup, University of Amsterdam, Netherlands John Baines, Christian-Albrechts University Kiel, Germany Eric Bapteste, Université Pierre et Marie Curie Paris, France Jukka Corrander, University of Helsinki, Finland Tal Dagan, Christian-Albrechts University Kiel, Germany Marco Fondi, University of Florence, Italy Santo Fortunato, Aalto University, Finland Eugene Koonin, NCBI, NLM, NIH USA Philippe Lopez, Université Pierre et Marie Curie Paris, France Purificación Lopez-Garcia, Université Paris-Sud, France Bill Martin, Heinrich-Heine University Düsseldorf, Germany James McInerney, National University of Ireland Itzhak Mizrahi, ARO, Volcani Research Center, Israel Kaare M. Nielsen, UIT The Arctic University of Norway Ruth Schmitz-Streit, Christian-Albrechts University Kiel, Germany Jesse Shapiro, Université de Montréal, Canada Rotem Sorek, Weizmann Institute of Science, Israel Sören Sörensen, University of Copenhagen, Denmark Kornelia Smalla, Julius Kühn-Institut, Braunschweig, Germany Eva Top, University of Idaho, USA Christian von Mehring, University of Zurich, Switzerland Laurent Viennot, LIAFA, Université Paris Diderot, France

Looking forward to see you in Kiel next year,

Tal Dagan

On behalf of the organizing committee: James McInerney, National University of Ireland Bill Martin, Heinrich-Heine University Düsseldorf, Germany Eric Bapteste, Université Pierre et Marie Curie Paris, France

Prof. Dr. Tal Dagan

Genomic Microbiology Group Institute of Microbiology Christian-Albrechts-University Kiel ZMB, Am Botanischen Garten 11 24118 Kiel, Germany

Tel: +49 431 880 5712 Fax: +49 431 880 5747 e-mail: tdagan@ifam.uni-kiel.de web: http://www.mikrobio.uni-kiel.de/de/ag-dagan tdagan@ifam.uni-kiel.de

LancasterU Phylogenetics Apr15

Dear Evoldir,

Lancaster Spring Phylogenetics Meeting

Lancaster University, 15th April 2014 (http://-www.lancaster.ac.uk)

Plenary speaker: Professor Eddie Holmes, University of Sydney (http://sydney.edu.au/science/people/-edward.holmes.php)

Registration is free. For details and registration, see "Next Meeting" at:

http://eggg.st-andrews.ac.uk/spdg If you would like to speak (20 minutes), please let Derek Gatherer know by email (d.gatherer@lancaster.ac.uk). In the event of oversubscription for speaking places, priority will be given to those who have not spoken at earlier SPDG-sponsored events.

Daniel Barker http://biology.st-andrews.ac.uk/staff/-db60 The University of St Andrews is a charity registered in Scotland : No SC013532

db60@st-andrews.ac.uk

Lillehammer Norway ClimateAdaptation Jan27-29 Reminder

Dear all,

This is a reminder for a conference on *"Genetic Resources for Food and Agriculture in a Changing Climate" *in Lillehammer, Norway, 27th - 29th of January 2014.

The main aims of the conference are to:

- contribute to an understanding of climate change and its predicted impact on agriculture and forestry - increase our understanding of adaptive genetic diversity and adaptation - assess how genetic resources for food and agriculture are affected by the changing climate - discuss the consequences that climate change challenges bring upon the sustainable utilization of plant, animal and forest genetic resources

The conference aims at bringing together participants from all areas relevant to genetic resources for food and agriculture in a changing climate. The conference will focus on the scientific frontiers in this area as well as create a possibility for discussions from the political point of view.

The conference is organized by the Nordic Genetic Resource Center (NordGen, http://www.nordgen.org/-index.php/en/content/view/full/2/) and four research networks under a program entitled "Climate Change Impacts, Adaptation and Mitigation in Nordic Primary

Industries" financed by the Nordic Council of Ministers and NordForsk. The results of three years of network activity of the four networks will be presented during the conference.

The meeting is directed towards scientists, PhD students and young scientists, national genetic resource coordinators, breeding association representatives, government officials and other stakeholders with special interest in genetic resources for food and agriculture in a changing climate.

Please, follow the link below to the conference homepages for the scientific program, call for abstracts (*deadline 30th of November*), and registration and practical information.

http://climate.nordgen.org NB! Reduced fees for registration and accomodation for students.

Feel free to distribute this invitation amongst your colleagues.

Best regards, Anne PrÃbel

Dr. Anne Kettunen PrÃbel Senior Scientist NordGen - Nordic Genetic Resource Center P.O.Box 115, NO-1431 Ãs, Norway Street address: Raveien 9, 1430 Ãs Phone: +47 6494 9772, mobile: +47 9778 0903 anne.praebel@nordgen.org www.nordgen.org Anne Kettunen Praebel <anne.praebel@nordgen.org>

NHM London YoungSystematists Nov29 2

{If your abstract is in our inbox by Monday morning, UK time, it will still be considered! Non-presenting participants may register later}

15th YOUNG SYSTEMATISTS FORUM Systematics Association conference Friday 29 November 2013, 9 am

Venue: Flett Lecture Theatre, Natural History Museum, London, UK

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

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

Registration is FREE. Send applications by e-mail to (YSF.SystematicsAssociation@gmail.com), supplying your name, contact address and stating whether or not you wish to give an oral or poster presentation. Space will be allocated subject to availability and for a balanced programme of animal, plant, algal, microbial, molecular and other research. Non-participating attendees are also very welcome - please register as above.

Abstracts must be submitted by e-mail in English no later than Friday 18 October 2013. The body text should not exceed 150 words in length. If the presentation is co-authored, the actual speaker (oral) or presenter (poster) must be clearly indicated in BOLD text. Institutional addresses should be given for all authors.

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

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

http://nhm.academia.edu/EllinorMichel www.researchgate.net/profile/Ellinor_Michel Ellinor Michel <e.michel@nhm.ac.uk>

NewYorkAcademySci Venomics Nov4

I'm co-hosting a meeting on Venomics: drug discovery and development of compounds from venomous organisms that might be of interest to evolution biologist doing next gen sequencing and looking to find a route to biomedical research.

Here's a link to the Venomics meeting Nov 4, 2013 at New York Academy of Sciences (NYAS):

http://www.nyas.org/Events/Detail.aspx?cid=-5c35d287-6fd2-4880-9fb8-11bd43c2f855 The meeting will cover integrated strategies necessary to harvest the cornucopia of venom compounds using rapid mass spectrometry, next generation sequencing, synthetic chemistry, structural biology and electrophysiology.

Including myself, the list of speakers are:

Pierre Escoubas, PhD VenomeTech

Bryan Fry, PhD The University of Queensland, Australia

Baldomero M. Olivera, PhD University of Utah

Mark E. Siddall, PhD American Museum of Natural History

Beatrix Ueberheide, PhD NYU Langone Medical Center

Please let me know if you have any questions.

Mandë

Mandë Holford, PhD Assistant Professor Department of Chemistry and Biochemistry The City University of New York Hunter College and Graduate Center 695 Park Ave NY, NY 10065 USA Tel: +1212.396.6686 Email: mholford@hunter.cuny.edu

Research Associate Sackler Institute for Comparative Genomics Invertebrate Zoology American Museum of Natural History Central Park West at 79th Street New York, NY 10024, USA Tel. +1212.313.7845 Email: mholford@amnh.org

Website: http://raisenyc.org/Holford/Home.html Come to the NYAS Venomics meeting Nov. 4, 2013! http://www.nyas.org/Events/Detail.aspx?cid=-5c35d287-6fd2-4880-9fb8-11bd43c2f855 Mande Holford <mholford@amnh.org>

PuertoRico SMBE2014 Jun8-12 CallForSymposiaReminder

Dear Colleague,

This is a reminder that the *Call for Symposia* for the 2014 Annual Meeting of the Society of Molecular Biology and Evolution in Puerto Rico (2014) is *closing this Friday, 25th October*. You can submit your Symposium Application by filling in the short form, which you can download by clicking the link below.

Click here for Proposal Form Template < http://ch1-marketing.mci-group.com/t/75096/33002398/17518/-0/ >

Click here for Proposal Guidelines < http://ch1-marketing.mci-group.com/t/75096/33002398/17519/-0/ >

Each successful symposium will be funded with *$1,500 USD*. If you have any queries about this please email the meeting secretariat smbe2014@mci-group.com or check the website for more information at www.smbe.org/annual/2014 < http://ch1-marketing.mci-group.com/t/75096/33002398/17522/-0/ > .

Sponsored symposia are encouraged. However, please contact our sponsorship and exhibition manager, Margaret Andreucetti, at margaret.andreucetti@mci-group.com before entering into any sponsorship discussions.

Thank you for your time and we look forward to hearing from you.

Kind Regards,

The SMBE 2014 Meeting Secretariat on behalf of the SMBE 2014 Local Organising Committee

Taras K Oleksyk President of the Local Organizing Committee Annual meeting of the Society of Molecular Biology and Evolution SMBE 2014, San Juan, Puerto Rico

Taras Oleksyk <oleksyk@gmail.com>

SanDiego GMODCommunityMeeting Jan16-17

The Generic Model Organism Database (GMOD; http://gmod.org) project provides free, open-source software for genetics and genomics.

Our next community meeting will be held in San Diego, CA, on January 16th and 17th 2014 (following the Plant and Animal Genomes meeting). The meeting is open to GMOD users, developers, and anyone interested in the project and the software we provide.

Online registration is now open; please see the meeting page, http://gmod.org/wiki/-Jan_2014_GMOD_Meeting, for more information. Early bird registration rates apply until Dec. 14th.

Please feel free to contact the GMOD helpdesk on help@gmod.org if you have any questions. Thanks!

Amelia Ireland GMOD Community Support http://-gmod.org || @gmodproject

amelia.ireland@gmod.org

UAdelaide BioInfoSummer Dec2-6

BioInfoSummer 2013

BioInfoSummer is a major annual bioinformatics event in Australia, covering state-of-the-art technologies used in medical, biological research and data analysis.

Prominent national and international experts will share the latest developments in next generation sequencing, evolutionary and systems biology and programming for bioinformaticians.

Full Program available: http://-www.maths.adelaide.edu.au/biosummer2013/-index.html Speakers include: Prof Stephen Donnellan, The University of Adelaide Dr Sylvain Foret, The Australian National University Dr Stéphane Guindon, The University of Auckland Dr Joseph Heled, The University of Auckland Dr Barbara Holland, The University of Tasmania Assoc Prof Gavin Huttley, The Australian National University Dr Ben Kaehler, The Australian National University Dr Karin Kassahn, SA Pathology Professor Jeff Leek, Johns Hopkins University Dr Martin Morgan, Fred Hutchinson Cancer Research Center Dr Ville Mäkinen, Helsinki University of Technology Dr Alicia Oshlack, The Murdoch Childrens Research Institute Prof Falk Schreiber, Martin Luther University Halle-Wittenberg Prof Terry Speed, Walter and Eliza Hall Institute for Medical Research Assoc Prof Jean Yang, The University of Sydney

Program extras: Opening ceremony (Monday) Public Lecture by Prof Stephen Donnellan (Tuesday) AMSI Intern showcase (Wednesday) Poster session and networking drinks (Thursday) Conference BBQ (Thursday)

Register now: www.amsi.org.au/BIS Contact: Gary Glonek - aubis2013@gmail.com #BIOINFO www.amsi.org.au/facebook Simi Henderson <simi@amsi.org.au>

UAndes Bogota Biogeography Jan7-10 Registration

PRE-REGISTRATION NOW OPEN AT http://-nnb3.uniandes.edu.co/nnb3/Registration.html Dear Colleagues,

We are pleased to announce the Third Meeting of the Network for Neotropical Biogeography (NNB3) that will take place at the Universidad de los Andes in Bogotá, Colombia, on January 7–10, 2014. The theme of the meeting will be âSpace, Time, Form and Genes.' The event includes pre-meeting workshops (Jan. 7–8) and optional post-meeting field trips to unique Colombian habitats.

Please visit the conference website http://-nnb3.uniandes.edu.co for updated information or contact nnb3@uniandes.edu.co.

The Network for Neotropical Biogeography (http:/-/nnb.myspecies.info) promotes scientific interactions across disciplines and taxa with the following goals: - Promote scientific interaction - Stimulate the exchange of material, students and researchers - Increase interdisciplinarity between different fields - Discuss and plan joint projects and grant applications - Stimulate collaborative fieldwork and reciprocal help with field collection of research material - Inform on upcoming events, recent papers and other relevant material

The NNB was established during a symposium at the BioSystematics conference in Berlin in February 2011. A second meeting, with the theme âIntegrating Neotropical Research,' was held at the Montgomery Botanical Center, Coral Gables, Miami, Florida, USA, on January 14th, 2013 immediately following the 6th Biennial meeting of the International Biogeography Society.

Tropical America - the Neotropics - is the most species-rich region on Earth. Understanding the mechanisms underlying the historical assembly and evolution of this extreme biodiversity constitutes a major challenge in biology, and will require hitherto unrealized interdisciplinary scientific collaboration.

We look forward to seeing you in Bogotá!

Santiago Madriñán

Santiago Madriñán, Ph.D. Profesor Asociado Departamento de Ciencias Biológicas Universidad de los Andes CL 18-2 68 Bogotá, D.C., 111711 COLOMBIA

Tel.: +57 1 339-4949 ext. 2729 http://-botanica.uniandes.edu.co Network Of Neotropical Biogeography <nnb3@uniandes.edu.co>

UBath PopGenetics Jan7-10

"Dear all Evolutionary people and PopGroup fans,

As many of you may already know the PopGroup47 will be taking place in the historic city of Bath from the 7th to the 10th of January 2014.

The Population Genetics Group (PGG or PopGroup) is a yearly international meeting held in the UK. Despite its name, the meeting covers all aspects of Evolutionary Genetics. You can get good feel for the typical content can be gained by downloading some of the previous years programmes (http://www.populationgeneticsgroup.org/-index.php?page=previous_meetings). Popgroup It is an informal meeting, with typically 200-250 participants, and an excellent place for PhD students to present their work.

We are delighted that this PopGroup installment will also host the Fisher award lecture by Prof. William Hill.

Other plenary speakers include:

Prof. Josephine Pemberton, Dr Lilach Hadany and Dr Fyodor Kondrashov

Registration will open on Monday 21st of October and will remain open until the 2nd of December with early bird rates offered for those registering before the 15th of November.

Please visit the PopGroup website (www.populationgeneticsgroup.org) for more details.

Best regards and hope to see you all here at Bath this winter. Nicholas Priest, Araxi Urrutia and the rest of the Popgroup47@BATH team."

Thanks and Regards

Atahualpa Castillo Morales 3rd Year PhD Student Evolutionary Functional Genomics Lab Department of Biology and Biochemistry University of Bath

Atahualpa Castillo <acm39@bath.ac.uk>

UBirmingham DaphniaGenomics Jan19-22 2

Dear Colleagues

We invite you to the 2014 EMBO Conference on The Mighty Daphnia: past, present and future, hosted by the University of Birmingham, 19-22 January 2014.

This exciting meeting is organised by the Daphnia Genomics Consortium and is still open for registration and abstract submission:

http://www.birmingham.ac.uk/dgc *** Early-bird registration has now been extended until November 1st 2013*** **Bursaries are available for PhD students and early-career postdocs**

We are also hosting a FREE 2-day workshop aligned with this meeting on environmental genomics:

This free 2-day course trains PhD students and early career postdoctoral scientists to understand how gene function is influenced by environmental conditions while accounting for variation that exists within and among natural populations. Participants are taught Core Modules (CM) and Optional Modules (OM) using open-source analysis tools and existing OMICS data: (CM1) Course Presentation Acquiring Environmental OMICS Data, (CM2) Bioinformatics Training Introduction to UNIX and R computing languages, (CM3)Bioinformatics Training Visualization of sequence and metabolomics data for quality assurance, (CM4) Course Presentation Software solutions for the sequence and metabolomics data workflows & their applications for environmental research, (CM5) Bioinformatics Training Visualizing complex data, (CM6) Course Presentation Statistical considerations for analysing genome-scale data, (OM1)Bioinformatics Training Sequence data analysis workshop using R to analyse Tuxedo output, (OM2) Bioinformatics Training Biological inference using pathway analysis, (OM3) Bioinformatics Training Exploring genome sequence variation, (OM4) Bioinformatics Training Exploring transcriptional variation, (OM5) Bioinformatics Training Exploring metabolomics variation, (CM7)Synthesis Session Integrating environmental omics data.

Daphnia is used for training because of its growing use as a model system for environmental genomics and for improving environmental health protection, yet the skills learned during the course will be applicable to all

study systems with mature genomics resources.

Please visit our website for full details

We look forward to weloming you to Birmingham in January

DGC

dgc.birmingham@gmail.com

Dr Nadine Taylor Research Fellow School of Biosciences University of Birmingham Edgbaston Birmingham B15 2TT

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Nadine Taylor <n.s.taylor@bham.ac.uk>

UOxford Systematics Aug26-28 2015

Advanced notice of the:

SYSTEMATICS ASSOCIATION BIENNIAL MEETING 26th-28th August 2015, University of Oxford

Sessions will include:

Systematics & Ecology Systematics & Evolution Systematics & Taxonomy Systematics & Fossils

This three day meeting will take place in The University Museum of Natural History and the Department of Zoology, with accommodation available in historic Christ Church College

http://www.systass.org/ http://www.oum.ox.ac.uk/- http://www.zoo.ox.ac.uk/ http://www.chch.ox.ac.uk/ Hold the dates in your diary!

Matthew A Wills On behalf of the Systemtics Association Council

bssmaw@bath.ac.uk

UWashington BigData StatGenetics Nov24-26

Registration numbers are building quickly for the Big Data / Statistical and Quantitative Genetics Conference at the University of Washington, Seattle on November 24-26, 2013. The early bird and poster submission deadlines are November 8. Details at http://-www.sqg13.org Rebecca Doerge, Tim Thornton, Bruce Weir, Zhao-Bang Zeng

Bruce Weir <bsweir@uw.edu>

UZurich EolutionaryPlantRadiations Jun13-14

Evolutionary Plant Radiations Meeting Institute of Systematic Botany, University of Zurich, Switzerland 13-14 June 2014

Recent developments are providing exciting new insights into the evolutionary dynamics of species diversification and the importance of evolutionary radiations, or rapid episodes of lineage diversification. The aim of this meeting is to explore questions about where, when and why plant evolutionary radiations happen, and how they proceed. The meeting will bring together contributions spanning: (i) new models of species diversification, including paleodiversity and trait evolution, and the increasingly sophisticated and powerful tools available for testing hypotheses about diversification trajectories and their causes; (ii) the proliferation of new molecular phylogenetic data, for more and larger plant clades spanning broader taxonomic, geographical and temporal levels, as well as opportunities for unprecedented phylogenetic resolution of rapidly evolving clades coming from genome-scale DNA sequence data; (iii) assembly of more comprehensive species geographic distribution, functional and life history trait data sets that are enabling more accurate and complete reconstruction of biogeographic and trait evolution histories and interactions; (iv) empirical studies of key plant radiationsÂ for understanding the contributions of biotic interactions (pollinators, herbivores, pathogens) as drivers of radiations, the interplay between ecological opportunity and evolutionary innovation in driving radiations, and the mechanisms of radiations in terms of underlying population ecology and speciation.

Speakers Tim Barraclough, Imperial College, London, U.K. Mark Carine, Natural History Museum, London, U.K. Elena Conti, University of Zurich, Switzerland Michael Crisp, Australian National University, Canberra, Australia Michael Donoghue, Yale University, U.S.A. Erika Edwards, Brown University, U.S.A. Luke Harmon, University of Idaho, U.S.A. Colin Hughes, University of Zurich, Switzerland Steven Johnson, University of KwaZulu-Natal, South Africa Daniel Kissling, Aarhus University, Denmark / University of Amster-

dam, Netherlands Christian Lexer, University of Fribourg, Switzerland Peter Linder,Â University of Zurich, Switzerland Santiago Madriñán, Universidad de Los Andes, Colombia Toby Pennington, Royal Botanic Garden Edinburgh, U.K. Daniel Rabosky, Cornell University, U.S.A. Richard Ree, Field Museum, Chicago, U.S.A. Susanne Renner, University of Munich, Germany Robert Ricklefs, University of Missouri, U.S.A. Daniele Silvestro, University of Gothenburg, Sweden Tanja Stadler, ETH Zürich, Switzerland Tony Verboom, University of Cape Town, South Africa Â There will be an opportunity to present contributed posters. Â Registration for the meeting will open at the beginning of December 2013, the website will be http://-www.systbot.uzh.ch/static/congresses/radiations Programme: Thursday 12 June Evening welcoming icebreaker Friday 13 June & Saturday 14 June Presentations and posters; Saturday evening conference dinner Sunday 15 June Post-conference one-day excursion to Schynige Platte, an alpine botanical garden situated at 1970 m, which boasts an almost complete collection of Swiss alpine plant species, and offers a stunning alpine panorama of the Eiger Northface, Mönch and Jungfrau.

Pre-Conference Workshop Thursday 12th June - One-day Workshop on computational methods in macroevolutionary analysis - led by Dan Rabosky

colin.hughes@systbot.uzh.ch

GradStudentPositions

ArizonaStateU EvolutionaryBiology

Graduate Student Opportunities in Evolutionary Biology at Arizona State University

The School of Life Sciences (SoLS) at Arizona State University (https://sols.asu.edu/) is recruiting outstanding graduate student applicants in Evolutionary Biology. Located in the "Valley of the Sun" in Tempe, Arizona, SoLS houses a broad group of more than 100 faculty and 250 graduate students engaged in cutting-edge research across the spectrum of biological sciences. As one of the top research institutions in the country, we offer diverse opportunities for graduate training - largely tailored to a student's individual interests and background.

Evolutionary Biology is a growing interdisciplinary graduate degree program that offers Ph.D.-level training in the historical, conceptual, empirical, and quantitative aspects of biological evolution. The program is supported by a diverse faculty affiliated with numerous science units across the university (see https://sols.asu.edu/graduate-studies/-degrees/evolutionary-biology/faculty). It provides bridges between temporal and spatial scales, allows integration of information and patterns across levels of organization, and informs the theoretical foundations of subfields ranging from population genetics to systematics to ecosystem ecology.

Student training opportunities range from unit-based programs such as those in the School of Life Sciences, the Biodesign Institute (www.biodesign.asu.edu), the School of Mathematical and Statistical Sciences (http://math.asu.edu), the School of Earth and Space Exploration (http://sese.asu.edu/), or the School of Human Evolution and Social Change (https:/-/shesc.asu.edu/), to collaborations with major ASU research institutes and centers including the Center for Evolutionary Medicine and Informatics (http://-www.biodesign.asu.edu/research/research-centers), the Center for Social Dynamics and Complexity (https:/-/csdc.asu.edu/), the International Institute for Species Exploration (http://species.asu.edu/), the Center for Biology and Society (https://cbs.asu.edu/), and the Institute for Human Origins (http://iho.asu.edu/). School of Life Sciences Ph.D. students receive a minimum of five years guaranteed funding through research and teaching fellowships.

The application deadline for entry in the Fall semester of 2014 is December 15, 2013. Details about the application process are available here: https://sols.asu.edu/graduate-studies/degrees/-evolutionary-biology/process .We strongly encourage prospective candidates to explore the breadth of our research activities on-line and contact specific faculty members prior to submitting an application. General questions regarding the Ph.D. program in Evolutionary Biology may be addressed to Drs. Michael Rosenberg (msr@asu.edu) or Nico Franz (nico.franz@asu.edu).

Submitted by Nico Franz http://taxonbytes.org/ nm-franz@asu.edu

CIBIO Portugal BioDiversity

THE CALL FOR BIODIV SCHOLARSHIPS IS NOW OPEN

The Doctoral Programme in Biodiversity, Genetics and Evolution (BIODIV) invites applications for 12 scholarships funded by FCT - Portuguese Foundation for Science and Technology.

BIODIV PhD aims to provide a sound scientific background on the underlying dynamics of biodiversity at different scales: from organisms to populations, communities and ecosystems.

We offer a variety of research topics such as genetics and genomics, ecology, evolutionary and behaviour biology, landscape ecology, conservation genetics, wildlife management and global change.

BIODIV is organized by the two largest Portuguese universities - University of Porto and the University of Lisbon - in partnership with CIBIO/InBIO (Research Center in Biodiversity and Genetic Resources) and CBA (Center of Environmental Biology).

The programme delivers excellent teaching and research, encourages interdisciplinary collaboration and provides an intellectually stimulating multicultural learning environment.

BIODIV is a 4 years programme structured in a flexible

system enabling students to design their own curricular profile. PhD students have a wide range of seminars and advanced courses to choose from. The scholarships include the opportunity to spend up to two years abroad.

Applications are open until October, 25. Information about 'How to apply' is available at www.biodiv.pt . Informal enquiries can be made to: Maria Sant'Ana Biodiv manager applications@biodiv.pt Phone: +351 252 660 411

CIBIO Divulgação

CUNewYork QuantBiolPhylogeography

We seek a highly motivated PhD student interested in evolutionary biology and ornithology to be jointly supervised by Mike Hickerson at the City University of New York and Brian Smith at the American Museum of Natural History.

The student will be given the unique opportunity to lead a project that both generates phylogeographic data on Neotropical birds and develops programs for analyzing genomic-scale phylogeographic data. The field of phylogeography has entered the genomics-era, but the tools for analyzing large multilocus data sets are limited.

This opening offers an opportunity for independent research co-mentored by Brian Smith and Mike Hickerson. The duo empirical and quantitative focus of the collaboration between these two research groups will involve 3-4 postdoctoral researchers, 4-5 PhD students and access to large-scale population genomic data. The prospective student will be able to take advantage of the tremendous resources at CUNY and AMNH. The two labs are located in northern Manhattan and will benefit from a thriving academic environment in New York City.

The ideal candidate will have a strong interest and aptitude in quantitative biology, modeling, and programming as well as evolutionary genetics and biogeography focusing on Neotropical birds. Ideally, candidates will have experience with programming as well as a background in specimen-based research or a strong desire to become a well-rounded researcher.

Info on AMNH - Department of Ornithology

The Department of Ornithology at AMNH (http://www.amnh.org/our-research/vertebrate-zoology/ornithology) maintains one of the largest collections of bird specimens in the world. The research collections of the Department number nearly one million specimens; these include skins, skeletons, alcoholic preparations, eggs, nests, and tissue samples for molecular biochemical studies. A large number of type specimens and rare or extinct species are also found in its collections. The specimens represent all continents and oceans and nearly 99 percent of all species. The Department has an ornithology library for research use and maintains laboratories for specimen preparation, skeletal and anatomical analyses and dissections, and a modern molecular laboratory for DNA sequencing.

Info on CUNY PhD program

The Hicker-lab is now dually equipped for both 'wet' and 'dry' research activities thanks to a newly refurbished and expanded Molecular Ecology and Computational biology lab. Students working in simulation-based evolutionary modeling of any sort can also take advantage of CUNY's NSF-funded High Performance Computing Center < http://www.csi.cuny.edu/cunyhpc/ >. The CUNY PhD sub-program in Ecology, Evolution and Behavior < http://biology.gc.cuny.edu/eeb/faculty > brings together a strong phylogenetics/phylogeography group spread across several CUNY campuses and the AMNH

We anticipate that the positions would start in the Fall of 2014. Contact Brian Smith (briantilstonsmith 'at' gmail.com) and Mike Hickerson (mhickersion 'at' ccny cuny.edu) if there is interest.

Please see our lab webpages for more details about our research:

Mike Hickerson - mhickerson@gmail.com

http://hickerlab.wordpress.com/ Brian Smith - briantilstonsmith@gmail.com

https://briantilstonsmith.wordpress.com/ briantilstonsmith@gmail.com

Dartmouth MicrobialEvolution

Graduate Student Position in Microbial Evolution at Dartmouth

Olga Zhaxybayeva is looking for a highly motivated individual interested in pursuing a Ph.D. in Evolution-

ary Biology. Research focus of Zhaxybayeva's lab is microbial evolution. We are computational lab that takes advantage of the avalanche of genomic data to learn how microbes evolve and adapt to their environments. The work in the lab is necessarily cross-disciplinary and collaborative, with graduate students facing extensive training in molecular evolution, programming, data analysis, mathematical modeling, and use of high-performance computing facilities. For more information about the lab and specific projects, visit http://www.dartmouth.edu/ ~ ecglab/ The Graduate Program in Ecology and Evolutionary Biology at Dartmouth College offers a wide range of training opportunities, and our core group of enthusiastic faculty, graduate students and post-docs provide an exciting environment in which to pursue a Ph.D. Generous support is available in the form of fellowships, health care, and discretionary funds for research and travel.

Detailed information about the program, and access to online applications, are available at http://dartmouth.edu/biology/graduate/ecology-and-evolutionary-biology. Deadline for Fall 2014 application is December 1, 2013. Interested individuals should contact Olga Zhaxybayeva directly by email (olgazh@dartmouth.edu) before applying and attach CV, contact information for two references, and a description of research interests, experience, and goals.

– Olga Zhaxybayeva, Ph.D. Assistant Professor Department of Biological Sciences Dartmouth College 026 LSC 78 College Street Hanover, NH 03755 USA

Office: (603) 646-8616 Lab: (603) 646-9397 Email: olgazh@dartmouth.edu Web: http://www.dartmouth.edu/ ~ ecglab/ http://-dartmouth.edu/faculty-directory/olga-zhaxybayeva Olga.Zhaxybayeva@dartmouth.edu

Dartmouth College
EvolutionPredatorPrey

Ph.D. opportunity in sensory ecology

Applications are invited for a PhD position in the lab of Hannah ter Hofstede, Department of Biological Sciences, Dartmouth College (http://-www.dartmouth.edu/ ~ terhofstede). My lab considers predator-prey interactions in the acoustic world of bats and their insect prey. Studies are interdisciplinary and combine acoustic, neurophysiological, behavioral and ecological data collected in the lab and field. The PhD student will develop original research investigating the role of auditory physiology in locating mates and avoiding predators in katydids (Insecta: Orthoptera, Tettigoniidae).

The Graduate Program in Ecology and Evolutionary Biology at Dartmouth College has a core group of enthusiastic faculty, graduate students and post-docs who provide an exciting environment in which to pursue a Ph.D. (http://dartmouth.edu/biology). Generous support is available in the form of fellowships, health care, and discretionary funds for research and travel. Detailed information about the program, and access to online applications, are available at http://dartmouth.edu/biology/graduate/-ecology-and-evolutionary-biology .Applications will be considered starting December 1st.

Interested individuals should contact Hannah ter Hofstede directly by email before applying (Hannah.ter.hofstede@dartmouth.edu). Please send your CV, contact information for 2 references, and a description of your research interests, experience, and goals.

Hannah ter Hofstede <Hannah.ter.Hofstede@dartmouth.edu>

DrexelU
SymbiosisAndMetagenomics

The Russell Lab at Drexel University seeks driven and enthusiastic Ph.D candidates to join them in the Department of Biology for the Fall of 2014. The best applicants will have background experience in molecular ecology, microbiology, microscopy, or entomology. Students would work on an NSF-funded project focused on symbiosis in ants.

The central theme in the Russell lab is the ecology and evolution of symbiosis, and we are addressing the following questions in the ant system:

First, what host features correlate with the composition of symbiotic communities across the ants? And what do such correlations tell us about the likely causes and consequences of symbiosis in this group? We are specifically interested in the question of whether microbes have facilitated the origins of herbivory across the ants, and are using experimental and metagenomic approaches to address this possibility.

The lab is currently made up of three graduate students who will serve as experienced mentors for incoming stu-

dents. Collaborators on this project come from other departments at Drexel and several renowned institutions beyond, providing access to a wide network with diverse expertise. Students will be trained in the realms of molecular biology, metagenomics, experimental biology, and field research. Through Jake Russells joint appointment with Drexels new Biodiversity, Earth, and Environmental Sciences, students will interact with a broad range of faculty and other grad students with interests in organismal biology, systematics, ecology, and evolution.

FOR MORE INFORMATION

Russell lab website: http://www.pages.drexel.edu/-~ jar337/index.html Researchgate website: https:-/-/www.researchgate.net/profile/Jacob_Russell/-?ev=hdr_xprf Application website: http://-www.drexel.edu/grad/programs/coas/biological-sciences/=0ABiology department website: http:-/-/www.drexel.edu/biology/=0ABEES department website: http://drexel.edu/bees/=0A=C2=A0=-0AInterested students SHOULD contact Jake Russell to discuss their background and aspiratIons for Ph.D research.

Dr. Jacob A. Russell Associate Professor Department of Biology Drexel University Philadelphia, PA 19104 phone: 215-895-1643 e-mail: jar337@drexel.edu

leafhopper77@yahoo.com

ETH Zurich ModellingVirology

PhD position in mathematical immunology and virology at the ETH Zurich, Switzerland:

A PhD position is available in the group of Roland Regoes at the ETH Zurich (see www.tb.ethz.ch/research/-Regoes). In our group we study quantitative aspects of infectious diseases within their hosts.

We are looking for a PhD student interested in studying the within host dynamics of viruses and their interaction with the immune system. Applicants for the positions should have strong quantitative skills. We therefore encourage people with a background in mathematics, biostatistics, bioinformatics or physics to apply. The starting date can be as soon as possible, but we are fairly flexible what that is concerned.

The specific questions, which we would like to address over the next years, revolve around infering the population dynamics of the virus from high-throughput genetic data. We would like to find out what the viral sequence data, collected in infected hosts over time, tells us about the replication and spread of the virus within its host. We also plan to investigate the population dynamics of B-cells using detailed genetic data on antibody responses.

Experience of population genetics would be advantageous, but s not absolutely necessary. The research in our group is conducted in close collaboration with experimental groups in Switzerland and oversees.

Our group is strongly linked with the theoretical biology group of Sebastian Bonhoeffer (http:/-/www.tb.ethz.ch/research/Bonhoeffer) who works on the emergence and dynamics of drug resistance. This means that we have common group meetings, and the PhD student and the postdoc will be exposed to a wide range of interesting research on infectious disease dynamics.

Zurich is a great place to live and to do research. It is the home of two big universties (the University of Zurich and the ETH), and is an attractive city in beautiful surroundings with a multinational population and many educational and recreational opportunities.

To apply please send a letter describing your interest in this position, a CV and the names and contact addresses of two referees to me by email: roland.regoes@env.ethz.ch. Please apply until December 20, 2013. Informal enquires are also welcome.

Roland Regoes Institute of Integrative Biology, ETH Zurich ETH Zentrum, CHN H76.1 Universitaetsstr. 16 CH-8092 Zurich, Switzerland

tel: +41-44-632-6935 fax: +41-44-632-1271 email: roland.regoes@env.ethz.ch www.tb.ethz.ch/people/-regoes/ roland.regoes@env.ethz.ch

Europe 9 AnimalBreedingGenetics

Dear all,

The European graduate School in Animal Breeding and Genetics (EGS-ABG *) offers 9 funded PhD projects, that are scheduled to start on September 2014. Students with a master degree in ABG or related fields, and with English proficiency, are invited to apply!

The list of projects: http://www.egsabg.eu/-spip.php?article33

Details on the fellowships and the application procedure: http://www.egsabg.eu

Deadline for application: December 1st, 2013, 12:00 (CET)

Regards,

Grégoire Leroy

* EGS-ABG is an Erasmus-Mundus program, funded by the European Commission.

Grégoire Leroy - gregoire.leroy@agroparistech.fr

Maître de conférences - Lecturer

UMR 1313 INRA/AgroParisTech - Génétique Animale et Biologie Intégrative UFR Génétique, Elevage et Reproduction

Tel : +33 (0) 1 44 08 17 46 / +33 (0) 1 34 65 29 47 Fax : +33 (0) 1 44 08 86 22 / +33 (0) 1 34 65 22 10

AgroParisTech - 16 rue Claude Bernard - 75231 PARIS - Cedex05 INRA - Domaine de Vilvert - Bâtiment 211, 78352 JOUY-EN-JOSAS Cedex

Gregoire LEROY <gregoire.leroy@agroparistech.fr>

FloridaIntlU ProteinEvolution

The Siltberg-Liberles Lab at Florida International University in the Department of Biological Sciences is looking for highly motivated graduate students with an interdisciplinary interest in evolutionary, structural and computational biology. Our research program is centered on the interplay between structure and function in protein evolution.

Currently, we are focused on elucidating the evolutionary dynamics of different protein features, such as conformational, functional and regulatory flexibility. These features are fundamental for cellular plasticity. Fluctuations in these features among closely related species offer a route to biological divergence. We work on large scale data analysis across the tree of life in order to reveal novel evolutionary mechanisms as well as on small scale projects targeted to e.g. misfolding disease, virulence, and signal transduction with more direct biomedical applications. Central to all projects are the evolutionary and structural context. For additional information, see the lab page (http://siltbergliberleslab.wix.com/siltberg-liberles), our home department (http://biology.fiu.edu/). We are also affiliated with the Biomolecular Science Institute (http://sish.fiu.edu/initiatives/biomolecular-and-biomedical/).

Successful applicants should have a background in bioinformatics or computational biology, evolutionary biology, molecular biology, biophysics, or biochemistry. Programing experience is preferred. The successful applicant should have the capacity to work successfully both as an individual and in a team setting.

We call for graduate students (MS and PhD) to start in the Fall of 2014. If you are interested in applying for a graduate position, please send a letter of interest to jliberle@fiu.edu describing your research interests, career goals and rationale for pursuing a graduate degree along with a CV as soon as possible. Graduate students admitted to the program receive guaranteed funding from the Department for up to 4 years. For information regarding the application process and Graduate School at FIU, see http://gradschool.fiu.edu/. Application deadline for the Graduate School at FIU is Jan 15th 2014.

Jessica Liberles, Ph.D. Assistant Professor Department of Biological Sciences Florida International University Modesto Maidique Campus 11200 S.W. 8th Street, Miami, FL 33199, USA phone: 305-348-7508 | e-mail: jliberle@fiu.edu

Jessica Liberles <jliberle@fiu.edu>

Jyvaskyla Finland EvolutionSignalDiversity

PhD position (4 years) to study the evolution of signal diversity: role of mimicry and predator generalization in polymorphic, aposematic wood tiger moth (Parasemia plantaginis) populations

We are looking for a highly motivated PhD-candidate with a background in evolutionary biology, evolutionary ecology, animal behaviour or entomology. A background working with insects (lepidopterans) and/or birds is a bonus. The chosen candidate will need to enjoy fieldwork, laboratory work, and have a passion for research science.

Short project description: Evolutionary radiations are fascinating because the rapid evolution of morphological diversity provides a natural laboratory for studying the mechanisms leading to population divergence and speciation. Because the genetic changes involved in divergence often take place before reproductive isolation

is complete, studies of young radiations, where the action of current selection can be more directly observed, can provide the most interesting picture of the diversification process. The wood tiger moth Parasemia plantaginis shows dramatic differences in warning coloration among geographic locations. Our recent work, along with phenotypic variation, show significant differences in the level of genetic divergence among populations. In this project, we aim to test the hypothesis that this radiation arises from signal sharing among interspecifics i.e Müllerian mimicry. This project will utilize an integrative approach (combining fields of evolutionary ecology and behavioral ecology via comparative and experimental methods), and asks whether warning-coloured Lepidopteran fauna show signs of convergence among different geographic locations.

What we can give: the opportunity to join our happy, active and international research group. You will be part of the Centre of Excellence in Biological Interactions and will benefit from our excellent research facilities.Starting day 1.1.2012 (but negotiable). PhD starting salary 2100â¬$pcm. Healthinsuranceandotherbenefitsareincluded$

* The Centre of Excellence in Biological Interactions < https://www.jyu.fi/bioenv/en/divisions/coe-interactions > * The Centre of Excellence on Facebook < https://www.facebook.com/bioint?fref=-ts > * Prof. Johanna Mappes < http://-users.jyu.fi/˜mappes/ > * Predator-prey interactions team < https://www.jyu.fi/bioenv/en/divisions/eko/-research/predator-prey >

Not sure what and where Finland is? This is Finland on Facebook < https://www.facebook.com/-thisisfinlandFB?hc_location=stream >

Please contact johanna.mappes('at')jyu.fi for further information. The deadline for applications is at 4:15 pm on 22 November 2013. Application is exclusively through the online procedure available at: www.jyu.fi/-science/en/applicationformphdstudents and should be accompanied with updated CV, a letter of motivation or research plan, and contact details of two references.

Mappes Johanna <johanna.r.mappes@jyu.fi>

LouisianaStateU GreenBloodAdaptations

Graduate Position: GREEN BLOOD AND MALARIA

PhD RESEARCH

Lab of Chris Austin - Louisiana State University

Department of Biological Sciences &

Museum of Natural Science

Lab Web page: http://www.museum.lsu.edu/Austin/-Lab.html Ph.D. Student Wanted: I am currently seeking a highly motivated student to pursue his/her PhD working on a recently funded collaborative NSF grant examining one of the world's most enigmatic vertebrate physiologies (green blood). This project is in collaboration with Dr. Susan Perkins (http://research.amnh.org/users/perkins/-THE_PERKINS_LAB/Home.html), American Museum of Natural History. Applications for doctoral students in the lab of Dr. Chris Austin at Louisiana State University (LSU) are now being accepted for Fall 2013 admission.

The Project: The scincid lizards of New Guinea are a diverse, complex and unique assemblage of lizards, representing over 70% of the lizard fauna on this "megadiverse" island. Several species of New Guinea skinks have evolved an unusual physiology - lime-green blood and tissues, a result of accumulation of biliverdin, a bile pigment. The adaptive significance of hyperbiliverdism is unknown, but two alternative hypotheses (distastefulness and crypsis) have already been ruled out. Bile pigments have been shown to be toxic to malaria parasites (Plasmodium), thus an anti-parasitic adaptation is possible. Preliminary data collected by the PI's show a trend towards reduced levels of Plasmodium infection (and other blood parasites) in green-blooded lizards, but an improved phylogeny of the hosts and more intensive sampling of the prevalence and parasitemia of the malaria parasites are needed to more conclusively test this hypothesis. Thus, the goals of this project are to conduct fieldwork in Papua New Guinea and use a large number of tissues and blood samples already in hand to obtain better estimates of the diversity of skinks and their malaria parasites, to describe any new species of skinks and malaria parasites, to resolve the phylogeny of the Melanesian species group and improve the diagnoses of both genera and species in this clade and then to test for patterns of parasitism in relation to the phylogeny and the physiology of these hosts. In addition we will use new high throughput next-generation DNA sequencing methods to sequence the genomes of lizards with green blood and closely related lizards with normal red blood in order to assess biomedical important genomic and proteomic innovations related to hyperbiliverdinism. The research looks at the evolution of one of the world's most exceptional vertebrate physiologies in order to explore the connections between ge-

netic variation, molecular function, and disease. Understanding the genetic and proteomic adaptations of hyperbiliverdinism will provide an expansive multidisciplinary view of bile pigment physiology and will lead to new ways to think about bile pigments and jaundice and in doing so contribute to biomedicine and improve human health and economic development.

The Graduate Program: Accepted students are funded through a mixture of research, teaching, and curatorial assistantships. Some excellent fellowship opportunities are also available for highly qualified applicants through the Louisiana Board of Regents (http://web.laregents.org/programs/borsf-programs/graduate-fellows/). LSU's Dept. of Biological Sciences has a particular strength in systematics, ecology, evolution, and computational evolutionary genetics and outstanding resources are available through the Center for Computation and Technology (http://-www.cct.lsu.edu/home) and the Louisiana Optical Network Initiative (http://www.loni.org/).

Baton Rouge is located in South Louisiana, one of the most culturally unique locations in the United States (http://louisianatravel.com/). The surrounding area has excellent food, music, festivals, and outdoor recreation. LSU's campus is just over an hour's drive from New Orleans and allows easy access to much of the Gulf Coast.

For more information on applying, see:

http://www.biology.lsu.edu/cos/biosci/-GraduateProgram/ProspectiveStudents/-item39623.html For more information on LSU's Dept. of Biological Sciences, visit:

http://www.biology.lsu.edu/ If you are potentially interested, please contact me:

Christopher Austin, Ph.D. Associate Professor, Department of Biological Sciences Head Curator of Amphibians & Reptiles, Museum of Natural Science 119 Foster Hall Louisiana State University

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

MaxPlanckInst Leipzig ChimpanzeeMHC

PhD Position: MHC Variation in Wild Chimpanzees in the Primatology Department of the Max Planck Institute for Evolutionary Anthropology

Although much is known about the patterns of functionally-neutral genetic variation in wild animal and human populations, we understand much less about the distribution of genetic variation underlying physiologically important traits. The genes of the Major Histocompatibility Complex (MHC) play a critical role in the immune response by coding for molecules which present antigens to immunocompetent cells. This project will use our recently developed protocols for next generation sequencing of DNA from noninvasive samples to characterize variation at multiple loci of the MHC in wild chimpanzees. The degree of functional diversity in individuals will be assessed and compared among individuals, communities, populations, and subspecies. This project does not involve field research, but will incorporate use of behavioral and demographic data and fecal samples from wild chimpanzees that are the subjects of long term observation by collaborators in the field. This position will be within the molecular genetics group (http://www.eva.mpg.de/primat/files/-genetics.htm) in the Primatology Department at the Max Planck Institute for Evolutionary Anthropology in Leipzig, Germany.

The Leipzig School of Human Origins (http://-imprs.eva.mpg.de/start.html) is a joint graduate program of the University of Leipzig (Germany) and the Max Planck Institute for Evolutionary Anthropology. This program provides interdisciplinary training and research opportunities for university graduates who wish to work towards a Ph.D. in anthropology, biology, evolutionary genetics, primatology, paleoanthropology and related fields. Our graduate school is conducted in English, open for international students and designed as a 3-year-program with a research focus and a limited amount of formal classwork.

Qualifications/Experience: We invite applications from all countries. Applicants should have a Master's degree before the start of the program. Candidates should be fluent in written and spoken English. Knowledge of German is not required but international students have the opportunity to take free German courses. For this project a background and keen interest in molecular biology laboratory analyses is a distinct advantage and a background in anthropology or primatology is helpful but not necessary.

Salary/funding: Ph.D. students are supported for the duration of their PhD by tax-free stipends of approximately15,000 Euro per year. There are no tuition fees, and low cost health insurance is available. Leipzig is

an attractive city with readily available housing and a relatively low cost of living.

*Start Date and Application process:***

*Applicants should follow the application process described at **http://www.leipzig-school.eva.mpg.de/-index.html**and indicate interest in this project. The application deadline is December 1, 2013, and the planned starting date is September 1, 2014 or earlier.*

For further information please contact: Dr. Linda Vigilant

MPI-EVA Deutscher Platz 6 Leipzig, Saxony 04103 Germany

vigilant@eva.mpg.de

Linda Vigilant <vigilant@eva.mpg.de>

MaxPlanckInst Ploen HybridSpeciation

Two positions for PhD students in evolutionary genetics of hybrids:

Max Planck Institute for Evolutionary Biology, Plön, Germany PhD position on novel traits and genotypic selection in hybrid fish PhD position on the evolution of gene expression of hybrid fish Application deadline: November 30th 2013

The group "evolutionary genetics of fishes" lead by Dr. Arne W. Nolte at the Max Planck Institute for Evolutionary Biology in Plön, Germany, is offering two PhD positions that are funded within the framework of the ERC starting grant "EVOLMAPPING". The goal of this project is to analyze evolutionary change in invasive Cottus, a lineage of fish that represents an example for the early steps of hybrid speciation. We will combine analyses of gene expression, genetic mapping and screens for genotypic selection in laboratory populations and wild fish to identify the links between genotypic and phenotypic evolution to infer the evolutionary impact of natural hybridization. PhD candidates should begin their work in spring 2014 and summer 2014 respectively. The salary of the PhD candidates will be according to the standard German pay scale including all social benefits (TVöD E13/2 salary).

One PhD project to commence in spring 2014 will focus on the inference of genome wide patterns of selection in the evolving gene pool of invasive Cottus to identify genomic traits that play a key role in adaptive evolution and the invasion of new habitats. The task of the student will be to study genome evolution in hybrid fish using various approaches as for example through analysis of the size of ancestral genomic blocks and gene copy number variation. The analyses will be based on Next-Generation sequencing data and use conventional genotyping to validate results. The candidate should be interested in population genetics and computational biology as it is part of the work plan to develop and extend the analysis of genomic sequence data.

The second PhD project to commence in summer 2014 will focus on the evolution of patterns of gene expression in invasive Cottus. The central objective of this project is to study gene expression in the lab and in nature, and to identify phenotypic plasticity and evolutionary novelty in invasive Cottus. The development of an inclusive microarray and the analysis of gene expression will be based on a wealth of transcriptome and genome sequences that facilitate a very inclusive development of a state of the art microarray. This project is adequate for a candidate who is talented in working with live animals and able to do short experiments in the field.

We offer an English speaking and ambitious working environment at the Max Planck Institute for Evolutionary Biology in Plön, Germany. The Institutes main fields of work include evolutionary ecology (Prof. Dr. M. Milinski), evolutionary genetics (Prof. Dr. D. Tautz) and evolutionary theory (Prof. Dr. Arne Traulsen) and experimental evolution (Prof. Dr. P. Rainey) and hosts a number of research groups. The MPI in Plön collaborates with the nearby Christian Albrechts University of Kiel, Germany in a joint International Max Planck research school that attracts PhD students from abroad which contributes to a multicultural working atmosphere. We encourage PhD students to join the IMPRS which grants a high level of supervision, access to courses and an international peer group.

The Max Planck Society is committed to employing more handicapped individuals and especially encourages them to apply. The Max Planck Society seeks to increase the number of women in those areas where they are underrepresented and therefore explicitly encourages women to apply.

Please apply by email to Arne Nolte (nolte@evolbio.mpg.de) until November the 30th 2013 and include a letter describing your motivation, scientific credentials and a CV.

Arne Nolte

Department for Evolutionary Genetics

Dr. Arne W. Nolte

Group Leader

Max Planck Institute for Evolutionary Biology

August Thienemann Strasse 2 24306 Plön, GERMANY
Phone: +49 4522 763-372

Email: nolte@evolbio.mpg.de www.evolbio.mpg.de/~nolte

MississippiStateU EvoDevo

GRADUATE STUDIES IN EVOLUTIONARY DEVELOPMENTAL BIOLOGY

I am seeking graduate students interested in studying the evolution and development of neuroectoderm specification in marine invertebrate deuterostome embryos, including echinoderms, hemichordates, and cephalochordates. Students interested in pursuing either an M.S. or Ph.D. degree will be considered. **

Research in our lab deals with one of the fundamental questions in evolutionary and developmental biology - how signaling and transcriptional regulatory interactions pattern embryos along the embryonic axes during development. These axes form the framework upon which the animal body plan is built. By combining molecular manipulations, high-throughput genome-wide assays, gene regulatory network analysis and classical embryology the lab hopes to understand the developmental events that regulate axis specification and patterning in deuterostome embryos, which include chordates, hemichordates, and echinoderms. Current projects in the lab examine how information from different Wnt signaling pathways is used to activate and repress the gene regulatory networks that pattern the neuroectoderm along the anterior-posterior axis in the echinoderm sea urchin embryo. The lab is also interested in using the information gained from the sea urchin embryo as the basis to examine the evolution of anterior-posterior neuroectoderm patterning in hemichordates and invertebrate chordates. **

Funding for tuition, benefits, stipend, and summer salary for this position is guaranteed through teaching assistantships, but there exists the potential for funding through research assistantships. **

Mississippi State University serves more than 20,000 students and the National Science Foundation ranks the university among the top 100 public and private research institutions. The Department of Biological Sciences is home to a diverse, interdisciplinary faculty that provides instruction and training in evolutionary biology, development biology, systematics, genomics, population biology, organismal biology, microbiology, cell biology and physiology. Our faculty currently has funding from the National Science Foundation, the National Institutes of Health, the American Heart Association, and the Environmental Protection Agency, among others. More information about the graduate program and department is available at www.biology.msstate.edu .**

Interested applicants should send by email a CV that includes research experience and a statement of research interests to Ryan Range (range@biology.msstate.edu). **

Ryan Range Assistant Professor Biological Sciences Mississippi State University 312 Harned Hall Mississippi State, MS 39762

"Ryan C. Range" <range@biology.msstate.edu>

NIOOWageningenNL BehEcolEvol

Where: The Netherlands Institute of Ecology (NIOO-KNAW) in Wageningen, The Netherlands

What: PhD position: Negotiating over parental care: how do parents react to each other? (Vacancy number AnE-013090)

This PhD position (1.0 FTE) is funded by a grant from the Netherlands Organisation for Scientific Research (NWO) and will be carried out at the Department of Animal Ecology, Netherlands Institute of Ecology (NIOO-KNAW) in close collaboration with the Behavioural Ecology Group, Department of Animal Science, Wageningen University (WUR).

Project description: Family life is one of the most familiar forms of social behaviour, but we are still far from a complete understanding of the selection pressures shaping parental care. In particular, little is known about the behavioural rules that parents use to negotiate over parental care. This project will use state-of-the-art radio tracking technology, together with acoustic recording, to simultaneously monitor the position and vocalisations of both members of great tit Parus major pairs in the wild during the nestling provisioning phase. The project will address questions such as: To what extent is the behaviour of pairs coordinated in time or space? And how is behaviour modified by proximity to the

partner or signalling by the partner?

Requirements: We are looking for a highly motivated and enthusiastic person with an MSc or equivalent degree in evolutionary or behavioural ecology, or a related field, and with strong field, experimental and analytical skills. Candidates must be willing to organise and conduct intensive ornithological fieldwork and handle large volumes of data generated by automated data collection; have good organisational and (written and spoken) communication skills, and the ability to collaborate with others; be willing to travel internationally, to attend conferences, and visit other institutes; have a driving license.

Appointment: This is a temporary appointment, initially for 1 year and upon satisfactory progress prolonged for a maximum of 4 years total.

Salary: The gross salary starts at euro 2.083, - per month in the 1st year, and will gradually increase to a maximum of euro 2.638, - per month in the 4th year, scale P, Collective Agreement for Dutch Universities (CAO Nederlandse Universiteiten), plus 8% holiday pay and a year-end bonus. We offer an extensive package of fringe benefits.

Information: A detailed project description can be found at: http://www.nioo.knaw.nl/phdnegotiation/- . Further information is available on request from Dr Kate Lessells (k.lessells@nioo.knaw.nl; Tel +31(0)317-473444). Information about the Netherlands Institute of Ecology can be found at http://www.nioo.knaw.nl /

Applications: Please send your application including complete curriculum vitae and names of three referees to vacature@nioo.knaw.nl. The closing date for applications is 15 November 2013, with interviews planned before the end of 2013.

K.vanOers@nioo.knaw.nl

NewMexicoStateU PlantEvolution

NSF Funded Graduate Position (Ph.D.) - January 2014 Focus: Plant Evolutionary Biology Location: Dept of Biology, New Mexico State University, Las Cruces, New Mexico

The Bailey lab (http://biology-web.nmsu.edu/-~bailey/) has an opening for a new PhD student with strong interest in plant evolutionary biology. This position is in association with an NSF funded research project on genome and transcriptome evolution in the genus Leucaena (Leguminosae). The project offers participants exciting opportunities to be involved with all elements of the research, including experimental design, next generation DNA and RNA sequencing, genome and transcriptome assemblies, and comparative computational biology. Students with strong interests in these areas of biology and/or computational biology are encouraged to apply.

The position will remain open until filled (anticipated start date in January 2014). For additional information, or to discuss your interest in the position, feel free to contact Donovan Bailey by email (dbailey@nmsu.edu). Complete application packets include two separate elements, one mailed to the NMSU graduate school and the other to the Department of Biology - see http://bio.nmsu.edu/grads/ for the required materials.

dbailey@nmsu.edu

NorthCarolinaStateU EvolutionaryBiol

NC State Univ. –Applied Evol. Biol.

NSF-IGERT Genetic Engineering and Society: The case of transgenic pests. We are looking for one or two students interested in applying the tools of evolutionary biology to important global challenges. Genetic pest management involves the manipulation of pest populations to suppress transmission of diseases like malaria, and to decrease densities of agricultural pests. Evolutionary biology has an important role for informing the design of the selfish genetic elements that drive transgenes into the pest populations, and in assessing the risks of specific interventions. http://geneticengsoc.ncsu.edu/ Questions about genetic pest management are technical and scientific, but also deeply social. We believe students must acquire both an understanding of the technologies underpinning genetic pest management as well as an understanding of the social context in which those tools might be used. Because no single student can master all these complexities, our goal is to sponsor an academically and culturally diverse group of about six students in Fall 2014. With roughly equal representation of students seeking degrees in humanities/social sciences and mathematics/natural sciences, IGERT fellows in Genetic Engineering and Society will use their combined expertise to address specific agricultural pest systems

that they choose with help of faculty mentors. In working together, students will gain from each other broader insights about global challenges than they would in a program focused on a single academic discipline.

Contact: Fred_Gould@ncsu.edu

Readings: Gould, F. 2008. Broadening the application of evolutionarily based genetic pest management. Evolution 62: 500V510.

Huang, Y., Lloyd, A.L., Legros, M., Gould, F. 2011. Gene-drive into insect populations with age and spatial structure: a theoretical assessment. Evol. Appl. 4:415-428 DOI: 10.1111/j.1752-4571.2010.00153.x

Fred Gould <fred_gould@ncsu.edu>

NorthernArizonaU PlantHerbivoreInteractions

Ph.D. and M.S. positions are available for the fall of 2014 in the lab of Liza Holeski (http://-nau.edu/CEFNS/NatSci/Biology/Faculty-Staff/-Faculty-Pages/Liza-Holeski/), Dept. of Biological Sciences at Northern Arizona University. Research in the lab broadly focuses on the evolution, genetics, and ecology of plant-herbivore interactions within Mimulus and Populus species. The graduate students will use a variety of greenhouse, laboratory, and field-based approaches to investigate the genetics and phenotypic plasticity of plant morphological and chemical traits that influence plant-herbivore interactions.

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

Interested candidates should contact me (liza.holeski@nau.edu) by December 15th, 2013. Please include a C.V. and a brief description of your background and research interests.

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

Liza.Holeski@nau.edu

NorthernIllinoisU EvolutionaryBiology

The Ecology, Evolution, Behavior, and Conservation faculty in the Department of Biological Sciences at Northern Illinois University are seeking applicants to the department's M.S. and Ph.D. graduate programs for the 2014-2015 academic year. Research interests among the faculty are diverse and include community ecology, restoration ecology, conservation genetics, vertebrate and invertebrate evolution, plant phylogenetics, behavioral ecology, microbial ecology, and bioinformatics. The EEBC faculty includes:-Nicholas A. Barber, plant-insect interactions and community ecology,http://www.bios.niu.edu/barber/lab/-Barber_Lab/Home.html-Neil W. Blackstone, invertebrate evolutionary biology,http://www.bios.niu.edu/-blackstone/blackstone.shtml-Melvin R. Duvall, plant phylogenomics,http://www.bios.niu.edu/duvall/-duvall.shtml-Holly P. Jones, restoration ecology and conservation biology,http://www.bios.niu.edu/-jones/jones.shtml-Bethia H. King, insect behavioral ecology,http://www.bios.niu.edu/bking/bking.shtml-Richard B. King, population genetics and conservation biology,http://www.bios.niu.edu/rking/rking.shtml-Virginia L. Naples, comparative morphology and vertebrate paleontology,http://www.bios.niu.edu/-naples/naples.shtml-Karen E. Samonds, paleontology and paleobiogeography,http://www.sadabe.org/-Samonds/Index.html-Wesley D. Swingley, microbial ecology,http://www.bios.niu.edu/swingley/-swingley.shtml-Yanbin Yin, bioinformatics and evolutionary genomics,http://cys.bios.niu.eduDetails of the graduate program and application process are available athttp://www.bios.niu.edu/graduate_studies/. The department offers teaching assistantships that include 12 months of stipend support and tuition waiver. The deadline for application materials is February 15, 2014. However, prospective students should contact potential faculty advisors well in advance of applying to discuss research interests and relevant qualifications. Northern Illinois University is a 25,000-student research university situated an hour from downtown Chicago in DeKalb, Illinois, a diverse community of 50,000 with a low cost of living. Regional research resources include The Field Museum, Burpee Museum of Natural History, TNC's Nachusa Grasslands, Morton Arboretum, Fermilab, Argonne National Laboratory,

NIU's Lorado Taft campus, and numerous local county forest preserves and state parks.

Nick Barber Dept. of Biological Sciences Northern Illinois University nbarber@niu.edu

Office: MO449 Lab: MO317 Phone: (815) 753-4215

nbarber@niu.edu

NorthwesternU PlantConservation

PLANT BIOLOGY AND CONSERVATION

The Graduate Program in Plant Biology and Conservation is a collaboration between Northwestern University (NU) and the Chicago Botanic Garden (CBG). Both MS and PhD degrees are offered. This year a new internship-based MS program in land management and conservation is being offered. The programs offer a unique opportunity to study ecology, evolution, and environmental issues at the interface of basic and applied plant science. Students apply to the program through Northwestern University and take their courses at both NU and CBG with faculty from both institutions. The Plant Conservation and Science Center at CBG is a tremendous resource for students, and the Chicago region provides an excellent community at the forefront of research in conservation and sustainability. Faculty research areas include:

Climate Change Conservation Genetics Crop Evolution and Diversity Invasion Biology Paleobotany, Paleoecology, and Paleoclimate Phylogenomics Plant Animal Interactions Plant Demography Plant Reproductive Ecology Plant and Fungal Systematics and Evolution Restoration Ecology Soil Ecology and Fungal Diversity

To learn more, contact the program director, Nyree Zerega (nzerega@chicagobotanic.org) or visit our websites: Graduate Program: http://-www.plantbiology.northwestern.edu/ Plant Science Center: http://www.chicagobotanic.org/research/-labs.php?expanddiv=plant_conservation Application deadlines: PhD: December 31, 2013 MS (thesis-based): February 15, 2014 MS (internship-based): Applications will be reviewed beginning February 15 and review will continue through April 30, 2014. Admissions are on a rolling basis.

nzerega@chicagobotanic.org

NottinghamTrentU BacterialPhylogenetics

Elucidating the unknown ecology of bacterial pathogens from phylogenetic data

Our knowledge of how bacterial pathogens have evolved is currently hampered by inadequate information on the full ecology of these organisms. We propose to use cutting edge genome analysis techniques to combine information on phylogeny and recombination allowing us to reconstruct differences in ecological niches which exist between pathogenic and commensal bacteria. To do this we will work on two comprehensive data sets previously generated by our group on E. coli and Yersinia.

This project has been selected for consideration for a fully-funded Vice-Chancellor's PhD bursary at Nottingham Trent University, twelve PhD projects will be funded across the University in 2014. Full details of the projects and the competition are available at http://www.ntu.ac.uk/research/-graduate_school/studentships/index.html Entry requirement BSc Hons first class degree or MSc in bioinformatics, computational biology, biological statistics or a related discipline. A working knowledge of microbiology is also required.

Award The studentships will pay UK/EU fees and provide a maintenance stipend linked to the RCUK rate (currently £13,726 per annum) for up to three years. Applications from non-EU students are welcome, but a successful candidate would be responsible for paying the difference between non-EU and UK/EU fees. (Fees for 2013/14 are £11,600 for non-EU students and £3,900 for UK/EU students.)

Eligibility Applications can be accepted from UK/EU and also International students. The minimum English language proficiency requirement for candidates who have not undertaken a higher degree at a UK HE institution is IELTS 6.5 (with no element to be below 6.0) or TOEFL 560/iBT 94 - 95.

Applying For informal enquiries about the studentship, please contact Dr Alan McNally - alan.mcnally@ntu.ac.uk

To download an application pack, please visit http://www.ntu.ac.uk/research/graduate_school/-studentships/index.html Please return completed application forms, with copies of academic certificates,

to: gradschool@ntu.ac.uk

The closing date for receipt of completed application forms is Friday 24 January 2014 at 09.00. Application by CV only will not be accepted.

Dr Alan McNally Senior Lecturer Molecular Microbiology Nottingham Trent University Clifton Lane Nottingham NG11 8NS 0115 848 3324 www.alanmcnally.com "Mcnally, Alan" <alan.mcnally@ntu.ac.uk>

PlymouthU EvolutionBirdCommunication

Graduate Research: Social cognition, communication complexity and creativity in birdsong communication systems, Cognition Institute, Plymouth University, UK (www.cognovo.eu/projects2/bird-song.php)

As part of the Marie-Curie Training Network, CogNovo we are offering transdisciplinary research PhDs, in a range of relevant topics. www.cognovo.eu/projects2/ For the above project we are seeking a highly motivated student toinvestigateg the way in which songbirds actively explore and regulate their social environment using communication signals, how the early improvisational and imitative 'babbling' of young birds develops into adult song, and how they can learn effective signalling strategies.

This will be achieved by developing computational models, and designing a sound installation based on different song development strategies where the song properties are an emergent property of the system. You will explore how differences in cognitive ability, opportunity to learn, and complexity of the social system combine to produce a particular signalling system and level of improvisation. The predictions and solutions that arise from these computational models will be compared against the literature available on the wide variety signalling systems found in song birds in nature, against results from field studies being conducted in a related study during the project and, time permitting, to the cultural evolution of songs in human communities.

Selected candidates will be registered for a comprehensive PhD programme that includes specialised research, as well as training workshops across a wide range of disciplines.

University studentships are supported for 3 years and include full Home/EU tuition fees plus a stipend of £13, 726 per annum. These positions are open to all UK and EU citizens with appropriate qualifications.

Application forms are available at www.cognovo.eu/-about/apply.php The application deadline is November 30th @1200 for a start date of 1st April 2014

Please visit www1.plymouth.ac.uk/research/cognition/ for Cognition Institute information, or www1.plymouth.ac.uk/schools/bio/ for School of Biological Sciences information

Inquiries are also welcome via email to: Dr Sarah Collins sarah.collins@plymouth.ac.uk

Sarah Collins <sarah.collins@plymouth.ac.uk>

PortoAlegre Brazil EvolutionMicrobes

Graduate Research: Evolutionary Genomics of Microorganisms Karen L. Haag Lab, Department of Genetics, Post Graduation Program of Genetics and Molecular Biology (PPGBM) Federal University of Rio Grande do Sul - Porto Alegre - Brazil

I am seeking one or two highly motivated Ph.D. students interested in the evolutionary genomics of host-parasite systems.

Projects in my lab focus on genomics, population genetics and clonalility in microsporidia.

I am also interested in studying the metagenomics of insect vectors of malaria and Chagas disease.

Positions are available for 2014. Students in my lab will be supported by CNPq fellowships. Support is guaranteed for four years, contingent upon performance.

Basic knowledge of Portuguese is required.

Please visit: www.ufrgs.br/ppgbm/en for departmental information and www.ufrgs.br/genomicaevolutiva for information on my research interests.

Inquiries are welcome via email to: karen.haag@ufrgs.br

Karen Haag <karen.haag@ufrgs.br>

RutgersU MarineEvolution

Graduate positions in marine molecular ecology Adviser: Malin Pinsky, Rutgers University, New Brunswick, NJ, USA

I am seeking an outstanding PhD student to study marine population dynamics using population genetic and genomic techniques. My research group has broad interests in marine ecology, population genetics/genomics, climate change, biogeography, dispersal, and fisheries. Student projects will generally overlap with these areas, but independent thinking and new ideas are strongly encouraged. Our lab is small, and I expect to devote substantial time to each student's intellectual and professional development.

Potential projects include (but are not limited to) 1) metapopulation dynamics of coral reef fishes and implications for marine reserve design, 2) local adaptation in coral reef or northeast U.S. fishes, and 3) impacts of climate change on population dynamics and biogeography. All projects would likely involve high-throughput population genomics and ecological modeling, but within each project there is much scope for individualization based on student interest and aptitude. All projects can involve a mix of field work (including opportunities to build from existing program in the northeast U.S. and in the Philippines), wet lab work, genetic bench work, and computing. Enthusiasm, excellent written and oral communication abilities, and strong quantitative skills are necessary.

Application process Interested candidates should send an email describing their motivation and research interests along with a CV, GPA, and GRE scores (if available) to malin.pinsky@rutgers.edu. In-progress applications to external fellowships are also viewed favorably. Qualified candidates will be contacted and encouraged to apply to the graduate program in either Ecology & Evolution (http://ecoevo.rutgers.edu/) or Oceanography (http://marine.rutgers.edu/main/IMCS-Academics/-Graduate-Program-in-Oceanography.html), depending on student interests. Ph.D. applications are due January 10th (E&E) or January 15th (Oceanography). Financial support for Ph.D. students is available from research assistantships, teaching assistantships, and university fellowships.

Rutgers University Situated in New Jersey, a crossroads of American enterprise, commerce, and culture, Rutgers has a vibrancy that derives from its location and a history entwined with that of the nation. Chartered in 1766, the university is the only one in the United States that is, at once, a colonial college, a land-grant institution, and a state university. Located within an easy drive of New York City, there are nonetheless an exceptionally wide array of marine, freshwater, and terrestrial ecosystems nearby. Within a single day, one can visit and study habitats of the continental shelf, estuaries, barrier islands, coastal plains, the piedmont, Precambrian highlands, and ridge and valley geological provinces.

Ecology at Rutgers has a long and distinguished history, and the graduate program consists of approximately 70 faculty and 95 graduate students. The program offers graduate education and training in microbial, plant, animal, and human ecology under the direction of an outstanding faculty, including at two marine stations. Members of the faculty actively pursue research in conservation biology, ecosystem ecology, evolutionary biology, marine biology, microbial ecology, population and community ecology, population genetics, and restoration ecology.

The Institute of Marine and Coastal Sciences serves as the hub for research programs in marine and coastal sciences and provides a focus for the education of marine scientists. The Institute is housed in a state-of the-art research building that includes seawater, morphometrics, molecular biology, remote sensing, ocean modeling and cartography laboratories. The Marine Field Station in Tuckerton operates year-round and is uniquely situated across from the Little Egg Inlet in the Mullica River-Great Bay estuary, one of the most pristine estuaries on the east coast.

Malin Pinsky Assistant Professor Department of Ecology, Evolution, and Natural Resources and the Institute of Marine and Coastal Sciences Rutgers University New Brunswick, NJ 08901 USA

http://pinsky.marine.rutgers.edu/ malin.pinsky@rutgers.edu

StockholmU PlantEvolution

PHD POSITION - THE ECOLOGY OF EVOLUTION OF FLOWERING TIME, at the Department of Ecology, Environment and Plant Sciences, Stockholm University, Sweden

Project description: The project will investigate how interactions with pollinators, seed predators and herbivores drive variation in phenotypic selection on timing of reproduction in perennial plants. An important part of the project is to identify and examine situations with opposed selection from different selective agents.

Other important parts are to link among-population differences in selection from mutualists and antagonists to the environmental context, in terms of abiotic conditions or community composition, and to assess the effects of opposed selection on lifetime fitness using demographic information.

The study systems will include several perennial plant species and their pollinators, herbivores and pre-dispersal seed predators. The studies will be carried out mostly in southern Sweden, but also studies over larger spatial scales might be included. The methods will include data collections from multiple populations to assess variation in strength of selection over environmental gradients, as well as field and common garden experiments to identify the causes of differences in selection. The analytical framework will mainly consist of phenotypic selection analyses, but will also include demographic analyses. The PhD position is available as a part of a Swedish Research Council (VR) grant.

Qualifications: We seek a candidate with good knowledge of ecological and evolutionary theory, analytical capacity and good skills in English. Previous experience of field and or experimental work is desirable. To be accepted for the PhD program, the applicant must have a University degree in Biology at the advanced level (e.g. Masters) of at least 240 credits, including at least 60 credits at the advanced level, or equivalent knowledge. Previous degrees should also include a thesis of at least 30 credits at advanced level in a relevant subject.

How to apply: The application should contain a letter of intent (one to two pages that explain why you are interested in working on this project, why you are interested in studying for a PhD, what you hope to accomplish during your PhD studies, and what skills you can bring to this project), CV, transcripts of all university courses with grades, a copy of your university degree, degree project thesis, name and contact information of two references, and any other documents you would like to include. Welcome with your application, marked with the reference number "SU FV-2857-13" in the subject line of your e-mail. Applications must be sent no later than 20 November, 2013 by e-mail as one single pdf-file to: registrator@su.se.

Informal enquiries are welcome and should be sent to Johan Ehrlén: johan.ehrlen@su.se

Johan Ehrlén Professor Plant Ecology Department of Ecology, Environment and Plant Sciences Stockholm University SE 10691 Stockholm Sweden

email: johan.ehrlen@su.se phone: + 46 8 161202

Johan Ehrlén <Johan.Ehrlen@su.se>

StonyBrookU EvolutionaryBiology

GRADUATE OPPORTUNITIES IN ECOLOGY AND EVOLUTIONARY BIOLOGY

The Graduate Program in Ecology and Evolution in the Department of Ecology and Evolution at Stony Brook University is recruiting doctoral and master's level graduate students for Fall 2014. The following faculty are seeking graduate students:

H. Resit Akcakaya http://life.bio.sunysb.edu/-ee/akcakayalab/ Stephen B. Baines http://-life.bio.sunysb.edu/ee/baineslab/ Michael A. Bell http://life.bio.sunysb.edu/ee/belllab/ Jackie L. Collier http://somas.stonybrook.edu/people/collier.html Liliana M. Dávalos http://life.bio.sunysb.edu/ee/-davaloslab/ Brenna Henn http://life.bio.sunysb.edu/-ee/hennlab/ Lev Ginzburg http://life.bio.sunysb.edu/-ee/ginzburglab/ Catherine Graham http://-life.bio.sunysb.edu/ee/grahamlab/ Jessica Gurevitch http://life.bio.sunysb.edu/gurevitchlab/ Dianna K. Padilla http://life.bio.sunysb.edu/ee/padillalab Joshua Rest http://life.bio.sunysb.edu/ee/restlab/ Alistair Rogers http://www.bnl.gov/pubweb/alistairrogers/ John True http://life.bio.sunysb.edu/ee/truelab/ For more information regarding the Graduate Program in Ecology and Evolution see http://life.bio.sunysb.edu/-ee and http://life.bio.sunysb.edu/ee/programs.htm The deadline for receipt of all application materials for the PhD program is January 15, 2014 although earlier submission is encouraged to ensure full consideration for available fellowships. The deadline for receipt of all application materials for the master's program is April 15, 2014. For additional assistance, e-mail our Graduate Program Coordinator, Lee Stanley, Alethia.Stanley@stonybrook.edu.

lmdavalos@gmail.com

SyracuseU PlantEvolution

PhD and MSc positions in Plant Evolution in Jannice Friedman's lab are available in the Biology Department at Syracuse University. Our lab is using a combination

of ecological and genomics approaches to address questions related to the evolution of reproductive strategies in plants. We are particularly interested in the role of adaptation and natural selection in driving reproductive transitions like changes in pollination systems (e.g. animal to wind) and life-history transitions (e.g. perennial to annual). We use a variety of study systems to address these questions, including the seep monkeyflower (Mimulus guttatus), ragweed and meadow-rues, and combine genetic and genomic analyses with field work and greenhouse and growth chamber studies.

Graduate students in the lab can expect to have a variety of projects to choose from and are encouraged to develop their own research projects based on their scientific interests. Students will also have opportunities to attend specialized workshops and conferences across a range of disciplines as part of their scientific development.

Syracuse University Biology has a strong research faculty (http://biology.syr.edu/faculty/faculty.htm), as well as a diverse and interactive group of people interested in plant ecology and evolution (http://-plantecology.syr.edu/). In addition, we share a campus with SUNY-College of Environmental Science and Forestry, providing lots of opportunity for interaction. Funding is guaranteed for up to 5 years and comprised of a mixture of teaching and research assistantships. We offer a competitive and generous stipend as well as free tuition and excellent health insurance. The Department of Biology at SU is located in the recently constructed Life Science Center which includes modern lab and computational facilities and brand new state-of-the-art greenhouses.

Please visit our website or contact me directly for more information about the research and opportunities in the lab: http://friedmanlab.syr.edu Application information: Application must be submitted online. Details and submission requirements can be found at: http://-biology.syr.edu/grad/application.htm If you are interested, please contact me (friedman@syr.edu) a statement of your research interests with your CV.

Jannice Friedman Assistant Professor Department of Biology Syracuse University 107 College Place Syracuse NY 13244 315.443.1564 friedman@syr.edu http:/-/friedmanlab.syr.edu jannicefriedman@gmail.com

TexasAMU EvolutionaryBiology TravelGrants

Please distribute accordingly

To: Prospective PhD Students From: The Department of Entomology, Texas A&M University Re: Travel Grants to visit the Department of Entomology at Texas A&M The Department of Entomology at Texas A&M is pleased to announce the availability of travel grants for prospective PhD students. These travel grants, which will be awarded on a competitive basis, will cover the costs of a domestic flight to and from College Station, hotel accommodations while in College Station, plus a per diem for meals. The aim of the travel grant is to provide prospective PhD students the opportunity to:

- Interview with faculty and meet current graduate students - Tour the department and campus to learn about available resources and facilities - Explore College Station and its surrounding areas

Travel grants will be awarded in early January and travel will be scheduled for February 19-22, 2014. Travel grant awardees will spend time together during their visit, thus gaining immediate insights into their future cohort. Why should you consider obtaining a PhD at Texas A&M University? The Department of Entomology at Texas A&M has more than one hundred years of rich history and it is the largest Entomology program in the United States. It has a strong mixture of nationally and internationally recognized junior and senior faculty working on a diverse range of basic and applied research, spanning genetics, genomics, medical/veterinary entomology, physiology, behavior, ecology, biocontrol, integrated pest management, evolution, systematics, and urban entomology (to learn about our faculty visit: http://insects.tamu.edu/-people/faculty/). Support for graduate study is available through multiple sources, including departmental research and teaching assistantships, as well as TAMU Office of Graduate Studies and College of Agriculture and Life Sciences Fellowships. Texas A&M University is positioned in beautiful Blackland Prairie and Post Oak Savannah habitat, which supports a magnificent insect fauna and a wealth of research opportunities. Its location also provides a good base for access to a broad range of habitats and research sites. Additionally, its close proximity to Austin, Dallas, Houston and San Antonio offers a cultural component to a whole

graduate experience. How to apply? To be considered for a travel grant, prospective PhD students first need to contact Rebecca Hapes, the Senior Academic Advisor (email: rhapes@tamu.edu; phone: (979 845-9733). To receive a travel grant, an official Graduate Application package must be submitted to the Department. For additional information about the Department and the graduate application process please visit: http://-insects.tamu.edu/ For consideration, your application needs to be received by December 13, 2013

Sincerely,

Juliana Rangel

Dr. Juliana Rangel Assistant Professor of Apiculture Department of Entomology Texas A&M University 315 Minnie Belle Heep, 2475 TAMU College Station, TX 77843-2475 Tel. 979.845.1074; Fax 979.845.6305 jrangel@tamu.edu http://-honeybeelab.tamu.edu Juliana Rangel-Posada <Juliana.Rangel-Posada@ag.tamu.edu>

TexasAMU CorpusChristi MarinePopGenetics

Ph.D. Graduate Assistantship - MARINE 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.

Research Focus: Research will involve development and assay of nuclear-encoded, single nucleotide polymorphisms (SNPs), microsatellites, and/or mitochondrial DNA sequences for projects involving population genetics and molecular ecology of marine fishes, including sharks.

Qualifications: Master?s degree in marine science or related field and/or B.S. in appropriate discipline required with documented work in the field of molecular population genetics and/or molecular ecology. Applicants should be ambitious, self-motivated, and able to work collaboratively with other lab members.

Salary: Salary range is $1,500 -$2, 000/month, with an increase to $2,200.00/month upon completion of comprehensive exams. Tuition, fees, and student benefits (e.g., health coverage) are guaranteed for first two years.

Closing date: Position is available fall 2014.

Contact: Send curriculum vitae, description of research experience/interests, unofficial transcripts, GRE scores, and names, addresses, phone numbers, and e-mail address of three references to Dr. David S. Portnoy at david.portnoy@tamucc.edu. International applicants will be considered if they hold the correct visa(s). Candidates must meet minimum requirement of the Marine Biology Ph.D. Program at Texas A&M University-Corpus Christi (http://marinebiology.tamucc.edu).

Texas A&M University-Corpus Christi is an Equal Opportunity/Affirmative Action/Equal Access Employers.

David S Portnoy Assistant Professor Texas A&M University Corpus Christi 6300 Ocean Dr. Unit 5892 Corpus Christi, TX 78412 (361)-825-2030

“Portnoy, David” <David.Portnoy@tamucc.edu>

Texas AM Galveston MarineBiodiversity

Texas AM Galveston MarineBiodiversity

Marine.Genetics

The lab of Ron Eytan, opening at Texas A&M, Galveston (TAMUG) in January 2014, is seeking outstanding and highly motivated PhD students. My lab studies the origin and maintenance of marine biodiversity, primarily in coral reef fishes, using genomic and computational methods. My lab has broad interests in phylogenomics and phylogeography, population genetics/genomics, and the geography and genetics of speciation in reef fishes. We work primarily in the Caribbean, but plan to expand to the Gulf of Mexico.

Current projects in the lab include 1) the study of hybrid breakdown in coral reef fishes, where we combine genomic data with live animal work, 2) cryptic speciation in Caribbean reef fishes, 3) using genomic data to track population fluctuations in reef fishes, 4) and

phylogenomics, where we are sequencing hundreds to thousands of genetic markers for phylogenetic inference at both deep and shallow time scales.

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

Students are admitted to TAMUG through the Interdisciplinary Graduate Program in Marine Biology (IDP). General information about the program, as well as application deadlines, can be found here: http://www.tamug.edu/marb/Graduate/graduate.html The Department of Marine Biology at TAMUG is home to a diverse, interdisciplinary faculty that provides instruction and training in evolution, molecular biology, microbiology, genetics, anatomy, taxonomy, physiology, and the behavior and ecology of estuarine/marine flora and fauna. The department is housed in new and modern facilities with brand new lab space. It is also home to the Sea Life Facility (http://www.tamug.edu/sealife/Index.html), which has phenomenal resources for live animal work and breeding.

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

Galveston is located on the Gulf Coast of Texas, 50 miles south of Houston. It provides easy access to field sites in the Caribbean and the Gulf of Mexico. It is a beautiful community with over 30 miles of beaches, a relaxed atmosphere, abundant leisure activities, excellent medical facilities, and first-rate restaurants. Interested candidates should send an email describing their motivation and research interests, along with a CV, to ron.eytan@gmail.com

Ron Eytan Postdoctoral Researcher Yale University Department of Ecology and Evolutionary Biology New Haven, CT USA ron.eytan@gmail.com http://www.roneytan.com/

ron.eytan@gmail.com

TulaneU EvolutionaryBiology

The Ecology and Evolutionary Biology department at Tulane University is seeking outstanding candidates for three Board of Regents (BoR) Graduate Research Fellowships. Each fellowship includes a yearly stipend of $30,000, and a yearly allowance for professional travel and/or research support. Two of these fellowships are for four years, and one is for three years. We strongly encourage applications from underrepresented minority students. Interested candidates should contact the faculty member whose research aligns with that of the candidate (faculty websites: http://tulane.edu/sse/eebio/faculty-and-staff/faculty/).

Review of applications will begin January 15th for matriculation in 2014 fall. Applicants should follow guidelines of standard graduate school applications, found at (http://tulane.edu/sse/eebio/academics/graduate/apply.cfm). Applicants are expected to identify a faculty mentor who has agreed to work with the prospective student prior to submitting an application.

The Tulane EEB department studies organisms, populations, communities, and ecosystems as we focus our efforts on ecology, evolution, conservation, and global change. We emphasize academic inquiry in tropical and river/coastal biology.We pursue our scientific and educational missions in integrative biology by discovering new knowledge and by providing a rich learning and mentoring environment for graduate students. We provide students with the theory and skills needed to question, discover, understand and restore. Graduate students collaborate in the creation and dissemination of knowledge about organisms and their environments.

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

Elizabeth Derryberry, Ph.D. Assistant Professor Department of Ecology & Evolutionary Biology Tulane University New Orleans, LA 70118 504-862-8285 (office) 504-862-8706 (fax) elizabethderryberry.tulane.edu

ederrybe@tulane.edu

UAlberta EntomologyGenomicsSystematics

Graduate Student Opportunities in Entomology, Molecular Ecology and Systematics in lab of Felix Sperling, University of Alberta

Applications from highly qualified potential graduate students are invited to join my lab in the Department of Biological Sciences at the University of Alberta (http://-/www.biology.ualberta.ca/). I am looking for students to work with me on one or more potential projects including:

(1) Mountain Pine Beetle System Population Genomics: many opportunities are available to study the interactions between beetles, trees and fungi using population genomics as part of the multi-investigator TRIA project (http://www.thetriaproject.ca/). Two positions are available in my lab to use NGS methods for landscape genomics, linkage mapping, or genome-wide association studies (GWAS) of dispersal and flight polymorphism, in collaboration with Dr. Maya Evenden: http://www.biology.ualberta.ca/faculty/-maya_evenden/ and Dr. David Coltman: http://-www.biology.ualberta.ca/faculty/david_coltman/ (2) Lepidoptera molecular systematics and population genetics: projects are available to explore species delimitation in species complexes, such as spruce budworm moths or local butterflies, or the phylogenomics of swallowtail butterflies. Broader options may exist for highly motivated students with a strong prior background in insect systematics, including morphology.

Potential graduate student applicants must have an Honour's degree or higher (e.g. MSc) relevant to biology, training and experience in molecular techniques (esp. PCR, DNA sequencing, SNP typing), bioinformatics (next-gen sequencing, genome assembly, etc.), phylogenetics, population genetics and/or quantitative genetics. Field experience and a background in entomology would be an asset. Applicants should have a high GPA (3.5+ or minimum A-), be highly competent in quantitative analyses, and possess excellent written and oral communication skills in English. International overseas students must have a peer-review publication record in English relevant to evolution and systematics. Fully funded MSc (2.3 years) or PhD (5 years) positions are potentially available to qualified applicants who meet the criteria for a Graduate Teaching Assistantship (see http://-www.biology.ualberta.ca/programs/graduate/).

Application process: Applicants must first send a cover letter outlining their relevant background and research interests, their CV, and the names of 2-3 potential references to felix.sperling@ualberta.ca. Interviews and formal invitation to apply to the graduate program in Biological Sciences may then follow for those who meet the criteria.

For Graduate Program Information see: http:/-/www.biology.ualberta.ca/programs/graduate/ Felix Sperling, Professor felix.sperling@ualberta.ca

Department of Biological Sciences and Strickland Museum of Entomology cw405a Biological Sciences Centre, University of Alberta Edmonton, Alberta T6G 2E9 Canada

http://www.biology.ualberta.ca/-faculty/felix_sperling/ Felix Sperling <Felix.Sperling@ualberta.ca>

UBern 2 ConservationBiol

Our research group offers:

2 PhD positions (3 years) for conservation biologists/restoration ecologists who will work in our applied research programme co-funded by the Swiss National Science Foundation (SNSF), the Swiss Confederation and some Swiss cantons:

Grassland management: designing tomorrow's farmland for biodiversity (phase II)

This research programme was launched in 2010 with the objective to develop and evaluate meadowland management practices that can maintain and/or improve farmland biodiversity for sustaining fundamental agro-ecosystem processes and services. The programme comprises two modules, one in the Swiss lowlands (Plateau) and one in the Swiss Alps, with scientific questionings and hypotheses specific to these two geographically and socioeconomically distinct contexts. The successful candidates will work either in the lowland module, where we experimentally test, at field scale, novel management regimes that can restore and/or improve biodiversity in extensively managed meadows declared under the Swiss agri-environment scheme (AES), or in the mountain module that carries out experiments, at site scale, about the effects of fertilization and aerial

irrigation upon hay meadows, with the double objective to maintain sustainable agricultural production and biodiversity-rich and fully functional ecosystems. The ultimate over-arching goal of the programme is to deliver innovative, evidence-based grassland management recommendations for developing sustainable, biodiversity-friendly agri-environment policies. Candidates must have a MSc degree and a strong interest for agro-ecological issues. They must master modern analytical techniques and software. Knowledge of grassland indicator taxa would be advantageous. Good knowledge of spoken and written English is prerequisite, while knowledge of German and French would be a plus, notably for communicating with farmers. Start: February-March 2014. Salary according to SNSF conditions. The successful candidates are also expected to take part to teaching and minor administrative duties.

Send a letter of motivation, your CV, including a list of publications, summary of MSc thesis, as well as the names, institutional addresses, emails and phone numbers of two references to jean-yves.humbert@iee.unibe.ch.

Application deadline is November 15th, 2013. Interviews of pre-selected candidates will take place in Bern on Monday December 2nd, 2013 Prof. Raphaël Arlettaz and Dr. Jean-Yves Humbert, Bern 27 September 2013

Jean-Yves Humbert, PhD University of Bern Institute of Ecology and Evolution Office: Erlachstrasse 9a Trakt 2 Mail: Baltzerstrasse 6, CH-3012 Bern Tel. +41 31 631 31 73 jean-yves.humbert@iee.unibe.ch http://www.iee.unibe.ch/cb/content/about_us/staff/-jhumbert jean-yves.humbert@iee.unibe.ch

UEastAnglia PolyploidyAndImmunity

Closing date 13th November Ancient whole genome duplications (WGDs) and the additional genetic resources resulting from them have played major roles in the evolution many eukaryotes. In vertebrates, there is strong evidence that two rounds of ancient WGD were followed by a third additional WGD in the teleost fishes - the fish specific genome duplication (FSGD). The role that WGD plays in the evolutionary success of recipient taxa and lineages has been hotly debated for many decades. However, while progress has been made in understanding the origins and mechanisms of the formation of polyploids in many groups, less attention has been devoted to the advantages and/or disadvantages of being a polyploid.

This PhD project will investigate two related facets of individual fitness - immune gene diversity (the MHC) and macroparasite burden, in a group of neotropical catfishes (the Corydoradinae) that have undergone multiple WGDs, ranging from ancient paleopolyploid events (~40 mya) to relatively recent duplications (~1-2 mya). The Corydoradinae are widely over South America and comprise more than 170 described species divided into 9 lineages.

The group demonstrate multiple genome duplication events (polyploidy) and also exhibit complex mimetic colour pattern relationships1. Using sympatric communities of species (which should theoretically be exposed to the same parasites) that vary in ploidy level, this project will: 1) use next generation sequencing to quantify MHC diversity in taxa that range from diploid to potentially 16x ploid; (2) quantify macroparasite burdens in multiple sympatric communities consisting of diploid and polyploid species (3) investigate the role of additional host-specific factors that may influence macroparasite burdens such as size, age, diet and population demographics.

The successful applicant join the group of Dr Martin Taylor who has recently moved to UEA (see 2) and will receive training in next generation sequencing and associated bioinformatic analysis as well as more traditional techniques such as parasitology. There will also be opportunities for conducting fieldwork in South America with Brazilian collaborators.

Entry Requirements: 2.1 in the subject are of Biological Sciences.

Start date: January 2014.

Funding Notes:

This is a 3 year University funded studentship open to EU applicants only and will cover tuitiion fees as well as providing an annual stipend of £13,726 and some funds towards research costs.

References:

Alexandrou, M., Oliveira, C, Maillard, M, McGill, R.A.R., Newton, J., Creer, S. and M. I. Taylor. (2011) Competition and phylogeny determine community structure in Müllerian co-mimics. Nature 469:84-88, 2011. DOI:10.1038/nature09660

To apply - please follow this link

http://www.uea.ac.uk/study/postgraduate/apply
Closing date 13th November

For further information please contact:

Dr Martin Taylor School of Biological Sciences University of East Anglia Norwich NR4 7TJ UK Email: martin.taylor@uea.ac.uk webpage: http://-www.uea.ac.uk/~b141

nitram8@hotmail.com

UFlorida Evolution

The Department of Biology at the University of Florida (http://www.biology.ufl.edu/) is seeking outstanding applicants for graduate studies in evolutionary biology to enroll in August 2014.

The Department of Biology has a large (>120 graduate students), intellectually stimulating, and collegial graduate program, with a long history of research in evolutionary biology. Faculty members and students work on a broad range of problems (behavior, computational biology, conservation genetics, development, ecological, population and quantitative genetics, molecular evolution, and systematics, in organisms across the tree of life) and often have close collaborations with members of the UF Genetics Institute (http:/-/ufgi.ufl.edu/), the UF Emerging Pathogens Institute (http://www.epi.ufl.edu/), and the Florida Museum of Natural History (http://www.flmnh.ufl.edu/research/-overview/).

The newly formed, university-wide Evolution@UF group (http://evolution.group.ufl.edu/) includes more than 40 faculty members from across the biological sciences. This highly collaborative group provides the opportunity for rigorous interdisciplinary training in evolutionary biology. In addition, the UF Interdisciplinary Center for Biotechnology Research (http://www.biotech.ufl.edu/), the UF High Performance Computer Cluster (http://www.hpc.ufl.edu/), and the FLMNH collections and outreach facilities provide a comprehensive infrastructure to support modern evolutionary biology research.

Gainesville is a family-friendly college town in north-central Florida, with great weather, a vibrant cultural life, and a wide variety of outdoor recreational opportunities. The Atlantic and Gulf coasts are each within a 90-minute drive.

The application deadline is December 1., 2013 (for details, see: http://www.biology.ufl.edu/Graduate/-Application.aspx). We encourage interested students to contact specific faculty members prior to submitting an application.

Stuart McDaniel Assistant Professor Department of Biology PO Box 118525 University of Florida Gainesville FL 32611

ph: 352 273 0123 fax: 352 392 3704 http://-sites.clas.ufl.edu/mcdaniellab/ Stuart McDaniel <stuartmcdaniel@ufl.edu>

UFribourg Switzerland EvolutionaryGenomics

Ph.D. position in ecological & evolutionary genomics

Coupling genomics with experiments to study divergence-with-gene-flow in trees A Ph.D. student position is available in the lab of Christian Lexer at University of Fribourg, Switzerland. We are looking for a highly motivated candidate with a keen interest in evolutionary and speciation genomics and prior experience with / exposure to key methodologies relevant to this field. The post is funded by a 3-year project grant from the Swiss National Science Foundation.

The Ph.D. project will address key questions related to the ecological & evolutionary genomics of 'divergence-with-gene-flow' in Populus alba and P. tremula, two wide-spread Eurasian tree species related to Populus trichocarpa, the first completely sequenced forest tree. Possible study topics include (1) assessing the roles of early vs. late-acting reproductive barriers in the maintenance of species boundaries with genomic tools, (2) inferring the genomic architecture and selective value of species differences maintained in the face of gene flow, (3) testing the role of meiotic drive and other early post-mating barriers in species isolation. You will address these topics using high-throughput 'genotyping-by-sequencing' approaches in experimental populations. Depending on your interests, you may also participate in field collections in Europe and/or Asia and subsequent whole genome resequencing of natural populations, addressing defined questions on the genomics of the divergence continuum in this group. Prior experience with the use of DNA-based genetic markers to answer evolutionary questions is essential for this project. Also essential is a keen interest in gaining experience with the analysis of (ultra-) high throughput DNA sequencing data. Considerable expertise in bioinformatics and computational biology is available locally

in the department, from the Swiss Institute of Bioinformatics, and from Swiss Ph.D. programs to facilitate first-year training.

The starting date is negotiable (from March 2014 onwards). Funding is available for at least three years. Knowledge of French or German is helpful in every day life, but the working language in the group is English. A Master or diploma degree in biology or related subject is required. Fribourg is a lively town with pleasant surroundings and an excellent quality of life. It is located ca. 30 minutes from the Alps, close to other cities such as Berne and Lausanne and just a little over an hour from Geneva and Zürich.

To apply, please send an e-mail with the application materials in a single pdf file to Christian Lexer (christian.lexer@unifr.ch). Application materials should include a CV, a list of publications, and a short (less than one page) statement of research interests. Please give names and email addresses of two persons who are willing to write a letter of recommendation. Applications received before 28 November 2013 will be given full consideration.

Further information and address for application: Dr. Christian Lexer, Associate Professor of Evolutionary Biology E-mail: christian.lexer@unifr.ch, Tel: +41 26 300 88 68 Web: http://www.unifr.ch/biol/ecology/-lexer/index.html christian.lexer@unifr.ch

UGlasgow CichlidEvolution

Exciting opportunities exist at the University of Glasgow to investigate the genetic and developmental basis of adaptive morphological divergence. Specifically, using the dramatic adaptive radiation of Malawi cichlids, the genetic basis of continuous and complex craniofacial phenotypes will be examined from a number of perspectives. The speed at which this evolutionary radiation has occurred means that closely related species exhibiting different phenotypes can be readily compared. Many species are available for experiments and a newly renovated state of the art facility for rearing cichlids exists on the Glasgow campus. A student would form a project that will take advantage of an interdisciplinary supervisory team which includes Dr. Quentin Fogg (Anatomy), Prof. Elizabeth Tanner (Biomedical Engineering), and spans basic evolutionary biology, development, genetics, anatomy, and engineering. Therefore, this project will involve a broad range of training and we seek an enthusiastic student with a willingness to learn techniques and theoretical principles from a wide range of fields. Opportunities for travel to other labs will exist with collaborators (Dr. R. Craig Albertson) at the University of Massachusetts, Amherst, USA.

Applicants will normally be expected to reside (or have residency) within the UK. EU nationals will have to demonstrate that they have spent the three years prior to application resident in the UK (this can include residence whilst undertaking undergraduate study). Applicants should have obtained, or expect to obtain a 2:1 or 1st Class Honours degree in a relevant subject. The financial package will include a 3.5 year stipend, approved University of Glasgow fees, Research Training Support Grant (RTSG) and a conference allowance.

Interested students should contact Dr. Kevin Parsons (Kevin.Parsons@glasgow.ac.uk) and eventually be prepared to provide a CV, two references, and other supporting degree documents. Applications will begin to reviewed on December 16th 2013. This project would be funding by the MRC for a duration of 3.5 years.

Kevin.Parsons@glasgow.ac.uk

UGroningen Netherlands Cichlid BehavEcolEvol

PhD position: Behaviour, ecology and evolution of cichlid fish University of Groningen, the Netherlands

Organisation Research in the Behavioural Biology Group is aimed at understanding the mechanistic basis of animal behaviour in an ecological and evolutionary context, and integrates different levels of biological organisation: from genes and cells to whole organisms, populations and species. Our work addresses fundamental questions in behaviour, neuroscience and evolution, but also considers practical implications for e.g. animal welfare and human health. Specific research interests include behavioural development, including the role of (maternal) hormones and lateralization and its links with personality (Groothuis), ecology and evolution of senescence (Verhulst), sex allocation (Dijkstra), neurobiology of social behaviour (Billeter) and the behavioural ecology of species divergence (Maan). We work on a diversity of model organisms, including birds, fish, rodents, insects and humans.

The Behavioural Biology Group offers a lively, international and ambitious research environment. Currently,

we have three tenured scientific staff, two tenure track assistant professors, one postdoc and eight PhD students. We are supported by a team of laboratory technicians and animal caretakers. We recently moved to a new building with state-of-the-art facilities for keeping a diversity of animal species, including tropical fish. The group is part of the Centre for Behaviour and Neurosciences (CBN). We also collaborate with members of the Centre for Ecological and Evolutionary Studies (CEES). The University of Groningen enjoys an international reputation as a dynamic and innovative centre of higher education and belongs to the top 100 universities of the world.

The Behavioural Biology Group at the University of Groningen offers a PhD position for a project on speciation mechanisms in African cichlid fish.

Job description Within the Behavioural Biology Group, the prospective PhD student will be part of the new research team of Dr. Martine Maan. This team investigates how ecological selection and sexual selection interact during species divergence.

The PhD student will conduct a research project on Lake Victoria cichlid fish, investigating the genetic basis of visual adaptation to underwater light conditions and its consequences for the development and evolution of visually guided behaviours and sexual signals. Ultimately, we aim to understand how divergent adaptation translates into reproductive isolation. The project involves extensive behavioural experimentation, molecular analysis of visual pigments (sequencing, qPCR, HPLC) and perceptual modeling. The project may also include field work in East Africa.

Qualifications - a Master's degree (or equivalent) in Biology, preferably with a strong interest in animal behaviour, ecology, evolution and biodiversity - experience with both behavioural observation and molecular genetics techniques - good communication and writing skills, also in English - other helpful competences include statistical proficiency (e.g. in the R software environment), possession of a driving licence, and a license to perform animal experiments (art. 9 Wet op de dierproeven (the Dutch Experiments on Animal Act)) or the willingness to obtain these.

Conditions of employment The university offers a salary of 2,083 gross per month in the first year up to a maximum to 2,664 gross in the final year. The position requires residence in Groningen and must result in a PhD thesis within the 4-year contract period. A PhD training program is part of the agreement and the successful candidate will be enrolled in the Graduate School of Science. Objective of the temporary 4 years position is a number of research articles in peer-reviewed scientific journals, together comprising the PhD thesis leading to the granting of the PhD degree (Dr) at the University of Groningen. After the first year will be an evaluation for feasibility of successful completion of the PhD thesis within the next 3 years.

Applications You may apply for this position before 11 November 2013 Dutch local time by means of the application form at the University website: http://www.rug.nl/about-us/work-with-us/job-opportunities/english-job-vacancies (vacancy number 213226) Applications should include a curriculum vitae, a one-page statement of research interests, and contact details for two professional references.

For more information, please contact: Martine Maan, +31 50 3632196, m.e.maan@rug.nl

m.e.maan@rug.nl

UInnsbruck NextGenerationSequencing

MOLECULAR ECOLOGY, INSTITUTE OF ECOLOGY, UNIVERSITY OF INNSBRUCK PhD student position

We seek to hire a postgraduate student with training in practical field work (collection of arthropod samples) and, ideally, in Next-Generation Sequencing. The position is a 36-months position at the Molecular Ecology group of the Institute of Ecology, starting from 1 March 2014. Centering on the Alpine Space, the group's mission is interdisciplinary research, embedded in international collaboration networks. A list of research topics can be found at: http://www.uibk.ac.at/ecology/-forschung/molecular_ecology.html.en . The successful candidate will participate in the molecular characterization of steppe organisms. The project consortium is international and includes members of the Universities of Innsbruck and Vienna (Austria), Lausanne (Switzerland) and the Real Jardín Botánico in Madrid (Spain). The project addresses the following issues: (1) Did the steppe biota colonize each Alpine dry valley independently or is there evidence for genetic exchange among the insular steppe habitats of different valleys? (2) What are the biogeographic connections of steppe biota from the Alpine dry valleys with other areas of steppe vegetation in Eurasia? (3) Are phylogeographic patterns seen in steppe plants and animals congruent, implying range shifts of entire communities or

rather idiosyncratic suggesting individualistic responses to climatic oscillations? (4) Our phylogeographic approach will unravel intraspecific patterns of spatial differentiation and temporal diversification across steppe plant and animal lineages. These will then not only be compared to each other, but also to independent data sources. Changes of distribution ranges of our study taxa through time will be hindcasted using environmental niche modeling.

Responsibilities 1. collection of samples of steppe arthropod species in Europe (Alps, Eastern Europe) and Asia 2. participation in restriction site associated DNA [RAD] sequencing of the study species (wetlab and bioinformatic analysis) 3. phylogeographic and phylogenetic data analyses (BEAST, ABC- approaches, SPAGeDi) 4. manuscript writing 5. contact and collaboration with scientists and laboratory technicians at the Evolutionary Systematics group, Institute of Botany, Innsbruck University, as well as at other Austrian research facilities, and internationally

Selection criteria A. MSc degree in life sciences B. published research experience in molecular systematics / evolution / biogeography, ideally using high-throughput sequencing data C. experience in the use of relevant software packages for phylogeographic / phylogenetic analyses D. ability to conduct field work for several consecutive weeks E. ability to work as part of a multi-disciplinary team F. ability to work independently G. very good knowledge of English

Salary The annual gross salary is Euro 27,381 for a 36-months employment. The contract includes health insurance and 5 weeks of holidays annually.

How to apply To apply, please submit by E-mail to <florian.m.steiner@uibk.ac.at>: a cover letter, systematic point-by-point replies as to your readiness for the responsibilities and how you meet the selection criteria, brief statement of research interests, curriculum vitae, and complete list of publications. Arrange for at least one letter of recommendation to be sent to < florian.m.steiner@uibk.ac.at>.

Applications must be written in English. The deadline for receipt of all applications is 17 November 2013. Our final decision will be announced to all applicants on 22 November 2013 the latest.

The University of Innsbruck is striving to increase the percentage of female employees and therefore invites qualified women to apply. In the case of equivalent qualifications, women will be given preference. An offer of employment is contingent on a satisfactory pre-employment background check.

The research institution and its environment Detailed information about the Molecular Ecology group can be found at http://www.uibk.ac.at/ecology/-forschung/molecular_ecology.html.en. The University of Innsbruck has a long-standing and internationally renowned tradition in life sciences and offers a vibrant research atmosphere. It has 27,000 students and 4,000 staff members. Innsbruck is situated in the Alps and very close to Switzerland, Germany and Italy; scenery and outdoor recreation are fantastic.

More information needed? For more information, please contact: Florian M. Steiner <florian.m.steiner@uibk.ac.at>

Florian M. Steiner Institute of Ecology, University of Innsbruck Technikerstrasse 25, 6020 Innsbruck, Austria Phone: +43 512 507-51750; Fax: +43 512 507-51799

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UKonstanz EvolutionaryBiology

The genetic basis of behavioral "handedness" in scale-eating cichlid fish Left-right (L-R) asymmetry in morphology or handedness in behavior is well-known from several groups of animals. The scale-eating cichlid fish, Perissodus microlepis, from Lake Tanganyika, Africa, exhibits a strikingly asymmetry in their heads that are either left-bending or right-bending and serve to attack their victim fish from either only their right or left sides. This remarkable dimorphism in these fish made them a famous textbook example of extreme ecological specialization and for negative frequency-dependent selection as 50% of the population are L and the other 50% are R.

This special adaptation is one of the research areas of the Meyer-Lab at the University of Konstanz in Germany (http://www.evolutionsbiologie.uni-konstanz.de/index.php?section=172).

We are looking for a PhD student who is interested in genetic [e.g. QTL (Quantitative Trait Loci) mapping] and population genomic [e.g. RAD-seq (Restriction Associated DNA sequencing)] analyses of this laterality using next-generation DNA sequencing technologies. This genetic/genomics work aims to uncover the genetic basis of the behavioral/morphological laterality in this

species. The project involves behavioral, morphological, genetic/genomics analyses of the scale-eating cichlids of Lake Tanganyika in Africa (and possibly also some field work on Lake Tanganyika).

You can find our recent publications on this topic here:

http://www.evolutionsbiologie.uni-konstanz.de/-index.php?sectionQ If you are interested in this project please contact:

Axel Meyer, at the Dept. of Biology in the University of Konstanz. Please send your motivational statement, CV and names of 2-3 references to:

axel.meyer@uni-konstanz.de

We aim to fill this position as soon as possible.

Prof. Axel Meyer, Ph.D. Lehrstuhl für Zoologie und Evolutionsbiologie Department of Biology Building M, Room M806 University of Konstanz 78457 Konstanz Germany

fon + 49 (0)7531 88 4163 fax + 49 (0)7531 88 3018

secretary: Ingrid.Bader@uni-konstanz.de tel. + 49 (0)7531 88 3069

www.evolutionsbiologie.uni-konstanz.de Axel Meyer <axel.meyer@uni-konstanz.de>

ULausanne EvolutionaryBiol

PhD fellowships at University of Lausanne (Switzerland)

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

The application deadline for the next edition (for fellowship starting in 2014) is November 1, 2013.

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

Information about the fellowships and application can be found at http://www.unil.ch/edfbm/-page78814.html tadeusz.kawecki@unil.ch

UManchester MarineAdaptation

PhD position: Effects of climate change on marine invertebrates - University of Manchester

Advisors: Tucker Gilman, John Fitzpatrick, Richard Preziosi, Ceri Lewis (Univ. of Exeter)

Start date: September 2014

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

In this project, the student will combine mathematical and computational modelling with empirical testing to understand how climate change affects marine invertebrates and the ecosystems they support. With guidance from Tucker Gilman and Richard Preziosi, the student will develop advanced analytical models and individual-based simulations of marine ecosystems. With guidance from John Fitzpatrick and Ceri Lewis, the student will test the model predictions in vivo. This work will take advantage of the University of Manchester's Computational Shared Facility and of the University of Exeter's Aquatic Resource Centre. Students with backgrounds

in life sciences, physics, mathematics, or computer science would be well-suited for this project.

Application deadline: 6 December 2013

Further information at:

www.ls.manchester.ac.uk/research/researchgroups/-computationalandevolutionarybiology/-people/?alias=gilmanr or by email from tucker.gilman@manchester.ac.uk

tucker.gilman@manchester.ac.uk

UMaryland TreeClimateAdaptation

Note: This is a re-post. Review of applications will begin November 1, 2013.

2 PhD positions in forest tree responses to climate change

University of Maryland Center for Environmental Science Appalachian Laboratory, Frostburg, MD

Applications are invited for two NSF-funded PhD student assistantships at the University of Maryland Center for Environmental Science, Appalachian Laboratory (AL). We are seeking self-motivated students interested in working on tree responses to climate change using (1) macroecological modeling and remote sensing (Position 1), and (2) ecological genomics (Position 2). Students will join an interactive and growing team of ecologists and geneticists at AL working on understanding the responses of forest trees to climate variability.

Position 1: Macroecological modeling and remote sensing The main project for this student is to combine macroecological approaches and remote sensing to link intraspecific variation (genetic composition, phenology, functional traits, etc) and environmental gradients at geographic scales, with an emphasis on understanding the response of forest trees to climate change. The student will help extend existing approaches in distribution modeling (e.g., species distribution models, community-level models) to model and map intraspecific variation at regional to continental scales and identify the geographic regions containing populations pre/mal-adapted to future climate change. Within this framework, there are numerous opportunities for a student to extend the broader project objectives. This is an ideal project for an individual interested in macroecology, remote sensing, and species distribution modeling. Candidates should have some experience with GIS and statistical analyses implemented in R.

Position 2: Ecological genomics The focus of this student will be identifying the genomic basis of ecologically important traits involved in adaptation of forest trees to climate, especially along the southern range edge where growing seasons are early and long. This project will involve integrating next-generation sequencing with physiological traits and climate data to search for genotype-phenotype and genotype-environment associations indicative of local adaptation. This is an ideal position for students excited about using the latest genomic techniques to study fundamental issues in local adaptation, environmental change, and the effects of range limits. Previous experience in population genetics, plant ecology, and solid computer skills are required. Some programming experience (Perl, R) is a plus.

Both positions are based at the Appalachian Laboratory in Frostburg, Maryland, working with Drs. Matt Fitzpatrick (macroecology) and Andrew Elmore (remote sensing), and Stephen Keller (genomics). The positions come with a highly competitive stipend and benefits package, including 3 years of support on a research assistantship, with additional support available from teaching assistantships. Students will matriculate through the Marine, Estuarine, and Environmental Sciences Program (MEES) at the University of Maryland, College Park and will reside at the Appalachian Laboratory in Frostburg for the duration of the project. Frostburg is a small college town in the mountains of western Maryland, providing abundant outdoor recreation opportunities.

For more information, contact Matt Fitzpatrick (mfitzpatrick@umces.edu) or Steve Keller (skeller@umces.edu). To apply, please email as a single pdf document: (1) a statement of interest, (2) a CV, and (3) contact information for three referees to tree_grad@al.umces.edu. Please indicate in your subject line “macroecology” or “genomics” to indicate the position of interest. Review of applications will begin November 1, 2013 and will continue until suitable candidates are found, with starting dates available as soon as January 2014 and no later than Fall semester 2014.

This ad is also posted at http://www.umces.edu/al/-employment

– Stephen R. Keller Assistant Professor Appalachian Laboratory University of Maryland Center for Environmental Science 301 Braddock Rd. Frostburg, MD 21532 301-689-7203 http://skeller.al.umces.edu/ skeller@al.umces.edu

UMinnesota PlantEvolution

The Brandvain lab in the Department of Plant Biology at The University of Minnesota-Twin Cities will have openings for 2 graduate students starting in Fall 2014.

Major projects in the lab focus on an integrative understanding of plant speciation, and students should be prepared to synthesize some combination of evolutionary theory, population genetics, computational genomics, and comparative biology, as well as field and lab work to address basic evolutionary questions. Other projects in the lab include investigating the evolutionary consequences of genetic conflicts, and developing genomic approaches to understand plant invasions and migration. Most projects in the lab will have a significant computational component; however, students will also have a significant amount of freedom and independence for pursuing individual projects and interests. The Brandvain lab is a safe, diverse, nurturing, and intellectually rigorous environment, and we value strong applicants from diverse ethnic, cultural and gender backgrounds.

The University of Minnesota-College of Biological Sciences is home to a vibrant community of researchers investigating questions in Evolutionary Ecology, Population Genetics, and Evolutionary Genomics, and the College recently hired 10 new faculty. Thus, it is a exciting time to be a graduate student in evolutionary genetics at the UofM. Potential students can count on engagement with the large community of plant evolutionary geneticists on campus [including the Goldberg, Tiffin, Moeller, Springer, Shaw and Morrell labs], expertise in evolutionary computational genomics on the 2nd floor of the Cargill Building [the McGaugh, Knights, and Blekhman labs], and experts in plant biology, ecology, and evolution.

Students can apply through either The Department of Plant Biology or The Department of Ecology, Evolution, and Behavior which both offer competitive stipends, tuition waivers, and health benefits for full-time graduate students. Applications should be submitted by December 2, 2013 for Fall 2014 entry.

http://www.cbs.umn.edu/plantbio/gradprog/-prospective http://www.cbs.umn.edu/eeb/graduate/-applying-eeb Please see the lab website for more information:

https://brandvainlab.wordpress.com/ http://-www.cbs.umn.edu/plantbio/faculty/yanivbrandvain
All prospective students are expected to have a strong interest in evolutionary biology and to facilitate a friendly, positive and collaborative atmosphere in lab. Applicants without training in next generation sequence analysis, programming [comfort in the command line and the ability to script in at least one language] and mathematics [including calculus, differential equations and stochastic processes] will be expected to develop these skills early in their graduate career.

Please include a CV, a brief outline of your research interests and goals, and contact information for references. ybrandvain@gmail.com

ybrandvain@gmail.com

UMinnesota PopulationGenetics

The McGaugh lab in the Department of Ecology, Evolution, and Behavior at The University of Minnesota-Twin Cities will have openings for two graduate students starting in Fall 2014. Major projects in the lab focus on understanding how gene-flow, recombination, selection, and drift have shaped the evolution of Mexican cavefish from surface fish. Other projects include investigating the drivers of recombination rate variation in a variety of taxa and comparative genomics in reptile populations. Projects in the lab will have a large computational component, though a significant amount of freedom will be allowed for pursuing individual projects and interests. The McGaugh lab is a safe, diverse, nurturing, and intellectually rigorous environment, and we value strong applicants from diverse ethnic, cultural and gender backgrounds.

The University of Minnesota-College of Biological Sciences is home to a vibrant community of researchers investigating questions in Evolutionary Ecology, Population Genetics, and Evolutionary Genomics. The College recently hired 10 new faculty who are specializing in theory, microbial evolution, and genomics. Thus, it is an exciting time to be a graduate student in biology at the UofM.

The Department of Ecology, Evolution, and Behavior offers competitive stipends, tuition, and health benefits for full-time graduate students. Acceptance into the EEB Graduate Program guarantees five years of stipend support. Applications should be submitted by

December 2, 2013 for Fall 2014 entry.

http://www.cbs.umn.edu/eeb/graduate/applying-eeb Please see the lab website for more information:

https://sites.google.com/site/mcgaughlab/home For more information, please send a CV, a brief statement of research interests and career goals, and contact information for references to:

smcgaugh@umn.edu

suzanne.mcgaugh@gmail.com

UNewMexico PlantEvolEcol

Ph.D. Students Wanted!Ecology and evolution of plants and plant-animal interactions

My lab is broadly interested in the ecology and evolution of plants, often focusing on plant-animal interactions such as herbivory, seed predation, and seed dispersal.We use a combination of field, greenhouse, phylogenetic, experimental evolution, and molecular genetic approaches.Students are expected to develop their own independent projects, but will also have opportunities to collaborate on NSF-funded investigations of hybridization in wild sunflowers and the role of genetic diversity in invasions.The lab is also starting new projects in desert and alpine ecosystems at the Sevilleta National Wildlife Refuge and the Rocky Mountain Biological Lab.Students will be a part of a dynamic group of plant biology, ecology, and evolution researchers at UNM.

For more info please contact me (and send along a CV):

Ken Whitney Department of Biology University of New Mexico Websites: http://biology.unm.edu/whitney/-index.htm http://biology.unm.edu/whitneyrudgers/-index.html Email: whitneyk@unm.edu

kenwhit@gmail.com

UNotredame EvolutionaryGenomics

GRADUATE OPPORTUNITIES IN EVOLUTIONARY GENOMICS

The Graduate Program in the Department of Biological Sciences at the University of Notre Dame is recruiting doctoral students for Fall 2014 in research areas ranging from evolutionary dynamics in natural populations, climate change, speciation, and infectious diseases systems biology. Our Ph.D. program tailors training to the student's biology-centered research program and emphasizes ties to our expanding strengths in computational biology, network science and applied math. Numerous opportunities for interdisciplinary interactions among research areas are available, including our GLOBES training programhttp://globes.nd.edu/. The following faculty are seeking graduate students in Evolutionary Genomics:

Jeff Feder: http://biology.nd.edu/people/faculty/-feder/ Mike Ferdig: http://biology.nd.edu/-people/faculty/ferdig/ Hope Hollocher: http://-biology.nd.edu/people/faculty/hollocher/ Stuart Jones: http://biology.nd.edu/people/faculty/jones/ Mike Pfrender: http://biology.nd.edu/people/-faculty/pfrender/ Jeanne Romero-Severson: http://-biology.nd.edu/people/faculty/romero-severson/ Beth Archie: http://biology.nd.edu/people/faculty/archie/ Research and teaching assistanceships and a variety of fellowship opportunities are open to students. For more information regarding the Biology Graduate Program seehttp://biology.nd.edu/. The deadline for receipt of all application materials for the Ph.D. program is January 5, 2014, although earlier submission is encouraged to ensure full consideration for available fellowships. For additional assistance, e-mail our Graduate Recruiting Coordinator, Mike Ferdig,ferdig.1@nd.edu. Biology Department office phone: 574-631-6552

/The University of Notre Dame is an equal opportunity employer with a strong institutional and academic commitment to diversity and endeavors to foster a vibrant learning community animated by the Catholic intellectual tradition./

Mike Ferdig University of Notre Dame Biological Sciences ferdig.1@nd.edu

Michael Ferdig <mferdig@nd.edu>

UPoznan EvolutionMHC

Evolutionary Biology Group of Professor Jacek Radwan at Adam Mickiewicz University, Poznan, is looking for a Junior Researcher in a NCN-funded project investigating forces shaping the number of expressed MHC

molecules. In particular, the project aims to test, using bank vole as a model species, whether expressing many MHC molecules is associated with the cost of reduced T-cell receptor repertoire. The latter will be assessed using next generation sequencing.

MSc in biology and competence in basic techniques of molecular biology are required. The employment will be for 3.5 years and should result in PhD thesis.

Further information and application details can be obtained from the project leader upon request (jradwan@amu.edu.pl)

j.w.radwan@gmail.com

UReading 3 PlantSystematics

3 PhD positions in medicinal plant systematics. Application deadline: November 15th 2013

Applications are invited from suitably qualified applicants for three EU-funded PhD studentships at the University of Reading, UK

Full details of the positions and the application procedures are at http://medplant.eu/open-positions/ Click on ESR6, ESR11 and ESR12 for full details.

*MedPlant PhD Fellowship 6: Transmission of medicinal plant knowledge in Nepal

The University of Reading (UoR), the Royal Botanic Garden Edinburgh (RBGE) and the University of Aberdeen (UoA) announce an opening for a fully funded PhD Fellowship (Early Stage Researcher) under an EU FP7 Marie Curie Initial Training Network (ITN) entitled Phylogenetic Exploration of Medicinal Plant Diversity, MedPlant (www.MedPlant.eu). This 3-year PhD scholarship will commence Spring 2014. The successful candidate will participate in a Marie Curie international training network and will work in a cross-disciplinary international environment with other Marie-Curie PhD students, researchers, authorities, NGOs and industry.

"Transmission of medicinal plant knowledge in Nepal" will use cultural and species phylogenies to assess the patterns of vertical and horizontal transmission in plant use in Nepal. Using quantitative ethnobotanical techniques to source data on plant use, the ESR will test whether closely related species are adopted where an ancestral species is not available, and the extent to which there is "phylogenetic conservation" through vertical transmission of traditional knowledge. The results of the ESR project will be interpreted in the light of Dr. Will Tuladhar-Douglas (UoA) on-going work investigating the historical and continuing trade networks independently managed by Nepal-based ethnic groups operating between Tibet, the Himalayas and the Deccan Plateau.

*MedPlant PhD Fellowship 11: Tools for identification in support of legal and safe use of medicinal plants

The University of Reading and the Medicines and Healthcare Products Regulatory Agency (MHRA) announce an opening for a fully funded PhD Fellowship (Early Stage Researcher) under an EU FP7 Marie Curie Initial Training Network (ITN) entitled Phylogenetic Exploration of Medicinal Plant Diversity, MedPlant (www.MedPlant.eu). This 3-year PhD scholarship will commence Spring 2014. The successful candidate will participate in a Marie Curie international training network and will work in a cross-disciplinary international environment with other Marie-Curie PhD students, researchers, authorities, NGOs and industry.

"Tools for identification in support of legal and safe use of medicinal plants" will investigate the composition, adulteration and substitution of medicinal plant preparations. Specifically, species used in Ayurveda will be selected and DNA markers used to resolve issues relating to species delimitation and discrimination. DNA work will be integrated with the traditional aspects of herbal monography and outputs will include a clearer understanding of the potential of DNA markers in ensuring the safe and legal use of medicinal plants.

*MedPlant PhD Fellowship 12: evolutionarily distinct, globally endangered and potentially valuable medicinal plant species

The University of Reading and the Royal Botanic Garden, Kew (RBG Kew) announce an opening for a fully funded PhD Fellowship (Early Stage Researcher) under an EU FP7 Marie Curie Initial Training Network (ITN) entitled Phylogenetic Exploration of Medicinal Plant Diversity, MedPlant (www.MedPlant.eu). This 3-year PhD scholarship will commence Spring 2014. The successful candidate will participate in a Marie Curie international training network and will work in a cross-disciplinary international environment with other Marie-Curie PhD students, researchers, authorities, NGOs and industry.

"Evolutionarily distinct, globally endangered and potentially valuable medicinal plant species" will use a mega-phylogeny of European plants, reconstructed from publically available and newly generated sequence data, to identify EDGE species. Evolution-

ary Distinctiveness scores will be calculated from the mega-phylogeny, and endangerment estimated using herbarium-based distribution estimates of IUCN status. The two statistics will be used to calculate EDGE scores. In addition to evolutionary distinctiveness, we will identify potentially useful medicinal species using phylogenetic approaches. Species which could usefully be the focus of further research and are in urgent need of conservation action will be highlighted in this way.

Dr Julie Hawkins Reader in Plant Systematics and Evolution 0118 378 6546 http://-www.reading.ac.uk/biologicalsciences/ "Julie A. Hawkins" <j.a.hawkins@reading.ac.uk>

USouthCarolina EvolutionaryBiol

The Department of Biological Sciences at the University of South Carolina has a strong and growing group of evolutionary biologists and we are actively recruiting M.S. and Ph.D. students to our program. Evolutionary faculty include:

Jill Anderson: Plant evolutionary ecology, quantitative genetics, adaptation to climate change; seed dispersal by fishes. http://www.biol.sc.edu/jill-anderson Carol Boggs: Physiological, ecological, and evolutionary dynamics of resource allocation; invasion dynamics; ecology, evolution and genomics of small populations. http://www.biol.sc.edu/faculty/boggs Jeff Dudycha: Ecology and evolutionary divergence of life history, resource allocation, and vision; quantitative genetics & ecological genomics; phenotypic plasticity; genetics of aging. http://www.biol.sc.edu/˜dudycha/ Bert Ely: Bacterial genome evolution; West African human genetic diversity. http://www.biol.sc.edu/˜elygen Bob Friedman: Evolution of genome organization; mammals, insects, pathogens; bioinformatics. http://www.biol.sc.edu/faculty/friedman Jerry Hilbish: Ecological genetics and physiological ecology of marine invertebrates; speciation & hybrid zones; responses to climate change; population connectivity. http://www.biol.sc.edu/hilbish.html Austin Hughes: Genomics and bioinformatics; molecular evolution; viruses and microbial bathogens, evolutionary immunology. http://www.biol.sc.edu/faculty/hughes Tim Mousseau: Mutation and evolutionary consequences of nuclear disasters; evolutionary ecology and population dynamics. http://cricket.biol.sc.edu/-chernobyl Joe Quattro: Population genetics and diversity within and among rare, threatened or endangered freshwater fish, marine elasmobranchs, and loggerhead sea turtles; phylogenetics and biogeography. http://www.msci.sc.edu/faculty/quattro Roger Sawyer: Evolutionary origin of reptilian and avian epiderma appendages; comparative genomics and molecular phyologeny. http://www.biol.sc.edu/faculty/-sawyer Ward Watt: biochemical evolution; ecological consequences of functional variation in enzymes. http://www.biol.sc.edu/wattw Interested students should contact individual faculty about opportunities with specific labs; students are not admitted without at least one potential advisor. Strong candidates are eligible for University Presedential Fellowships that supplement the usual graduate student support with $8000 annually for four years.

Ranked in the top 30 PhD programs in the Biological Sciences in the United States by the NRC and with extramural funding in excess of $17 million, the Department of Biological Sciences is a multidisciplinary unit of approximately 1,700 Undergraduates, 80 Graduate Students and 40 Faculty from various research areas including Biochemistry, Bioinformatics, Cancer Biology, Cell and Molecular Biology, Ecology and Evolution, Genetics, and Plant Sciences. The Department hosts an annual endowed seminar on the topic of Evolution and Society, and USC's library is home to the C. Warren Irvin Collection, the largest collection of Charles Darwin's work and Darwiniana in North America.

The University of South Carolina campus is located in Columbia, the state capital. In 2013, Kiplinger ranked Columbia as the #5 place in the U.S. to live due to its affordability, good schools, great weather, and proximity to the mountains, coast, rivers, and top-notch cultural attractions.

Jeffry L. Dudycha Associate Professor Dept. of Biological Sciences University of South Carolina Columbia, SC 29208 dudycha [at] biol.sc.edu http://-/www.biol.sc.edu/˜dudycha dudycha@biol.sc.edu

UUtah HostParasiteEvolution

Graduate Research: Evolutionary Ecology of Host-Parasite Interactions Clayton-Bush Lab, Dept. of Biology, Univ. of Utah

We are seeking one or two highly motivated Ph.D. students interested in the evolutionary ecology of host-parasite systems. Projects in our lab focus on factors

governing parasite specificity, speciation, co-speciation, competition, adaptive radiation, and reciprocal selective effects between parasites and hosts. We also do taxonomic and phylogenetic work on birds and their host-specific feather lice.

Positions are available for Fall Semester, 2014. Students in our lab are supported by a combination of fellowships, research assistantships, and teaching assistantships. Support is guaranteed for five years, contingent upon performance.

Please visit www.biology.utah.edu for departmental information. Admission requirements and applications are available at www.biology.utah.edu/graduate/eeob. The application deadline is January 6th, 2014.

Inquiries are welcome via email to: Dr. Sarah E. Bush (bush@biology.utah.edu) Dr. Dale H. Clayton (clayton@biology.utah.edu).

Sarah Bush <dovelouse@gmail.com>

UWisconsin Madison AspenAdaptation

Graduate Research Assistantship

Ecophysiology and Genetics of Aspen in Changing Environments

University of Wisconsin, Madison

Funding is available at the University of Wisconsin-Madison to support graduate research, at the Ph.D. level, on the ecophysiology and genetics of aspen (Populus tremuloides) in the context of environmental change. Aspen is a foundation species in boreal and montane forests of North America. Triploidy is common in parts (e.g., Intermountain West) of aspen's vast range, indicating a link between the life history and demography of aspen ploidy, and spatiotemporal variation in climate and associated environmental factors. The graduate research assistant will assume primary responsibility for a collaborative project involving the labs of Eric Kruger (UW Forest & Wildlife Ecology), Rick Lindroth (UW Entomology), Kate McCulloh (UW Botany) and Karen Mock (Utah State University, Wildland Resources). The research will entail comparisons of triploid and diploid aspen genotypes, in controlled-climate, common-garden and field experiments. Traits of interest include ecophysiology, growth capacity, and chemical ecology, and associated responses to abiotic (e.g., climate change) and biotic (e.g., herbivory) stresses. Applicants may pursue admission to UW graduate programs in Forestry, Zoology, Botany or Entomology.

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

Qualifications: Highly motivated individuals with a strong academic background in plant biology and/or ecology, as well as excellent quantitative and communication skills, are encouraged to apply. Candidates must be able to work independently and as part of a collaborative research team.

Stipend/benefits: A 50% Graduate Research Assistantship is available beginning in spring, summer or fall semesters of 2014. A 50% RA currently provides a stipend of $20,808 (12 mo.), tuition waiver, and excellent medical/dental health plans at low cost.

Applications: Interested candidates should e-mail Graduate Student Services Coordinator Sara Rodock (rodock@wisc.edu) a single PDF file containing the following information: - Cover letter outlining research interests, academic and professional backgrounds - Resume - Copies of transcripts (unofficial copies acceptable) - GRE scores (if not available, indicate when exam will be taken) - Names and contact information for three references

Applications will be reviewed upon receipt. Promising candidates will be requested to submit a formal application to a UW-Madison graduate program in Forestry, Zoology (Ecology), Botany, or Entomology. Note that application deadlines for Zoology and Botany are Dec. 31, 2013.

Questions about the position may be directed to: Eric Kruger (Forest and Wildlife Ecology); elkruger@wisc.edu Rick Lindroth (Zoology, Entomology); lindroth@wisc.edu or Kate McCulloh (Botany); kmcculloh@wisc.edu

Richard L. Lindroth, Ph.D. Professor of Ecology, Associate Dean for Research, and Associate Director of the Agricultural Experiment Station

608-262-6792 (Deans' office) 608-263-6277 (Research office) 146 Agriculture Hall 1450 Linden Drive University of Wisconsin-Madison Madison, WI 53706 U.S.A. http://labs.russell.wisc.edu/lindroth/ Rick Lindroth

<lindroth@wisc.edu>

UtahStateU EvolutionaryBiology

The Kapheim Lab in the Department of Biology at Utah State University will have openings for graduate students beginning in Fall 2014. Research in the lab centers on the evolution of phenotypic plasticity, particularly as it applies to social behavior in bees. The lab's primary research objectives are to gain insights about the mechanisms underlying variation in social behavior, and to use these insights to investigate the evolutionary processes governing the origins, maintenance, and elaboration of social behavior. Specific projects in the lab focus on (1) the role of maternal manipulation in the evolutionary origins of eusociality, (2) the relationship between host-symbiont dynamics and phenotypic plasticity (i.e. the influence of the gut microbiome on individual bee social behavior and vice-versa), (3) the contribution of neutral, adaptive, and convergent evolutionary processes in repeated origins of eusociality, and (4) the adaptive function of reward response in social evolution. This research is integrative across sub-disciplines of biology, including evolutionary biology, behavioral ecology, comparative genomics and transcriptomics, neuroscience, physiology, and metagenomics. We study a variety of bee species, ranging from solitary (e.g. alfalfa leaf-cutter bees), to those with flexible social organization (e.g. tropical sweat bees), to eusocial (e.g. bumble bees).

Graduate students will have the opportunity to develop research projects within the themes outlined above. This will likely involve a combination of field, lab, and computational work. Students who find this opportunity to be a good fit will have an interest in developing skills in a combination of these activities, as well as an interest in bees and integrative evolutionary biology. Graduate students will have the opportunity to conduct field work in Panama or in the U.S.

The USU Department of Biology is home to a superb faculty with a diverse set of research interests that provides training in evolutionary biology, ecology, cell and molecular biology, neuroscience, and microbiology, among other topics. The Logan-based USDA Bee Biology and Systematics Laboratory is just down the road from campus, and offers opportunity for collaborative research with biologists studying a diverse set of questions related to bee biology. USU is located in northern Utah's Cache Valley. Situated between two mountain ranges and next to beautiful Logan Canyon, there are plenty of opportunities for field work, as well as outdoor recreation in and around Logan. The Smithsonian Tropical Research Institute (STRI) in Panama, a potential location for field work, hosts world-class staff scientists, as well as thousands of international visiting researchers, and provides several fellowship opportunities to graduate students.

Information about graduate studies at USU is available on the Department of Biology website (http://www.biology.usu.edu/htm/graduate-info/-application-info). Accepted full-time graduate students receive comprehensive funding packages that include stipends, tuition, and health benefits in the form of graduate research assistantships and teaching assistantships. Additional funding is available for research. Interested candidates may contact Dr. Karen Kapheim (karen.kapheim@usu.edu) with a statement of research interests, CV, and contact information for references. To receive full consideration, pre-applications (https://www.biology.usu.edu/-htm/graduate-info/application-info/preapplicati on/) should be received by December 15, 2013, and full applications should be received by January 15, 2014.

Additional Resources:

Kapheim Lab website - https://sites.google.com/site/-kapheimlab Utah State University - www.usu.edu Department of Biology - www.biology.usu.edu USDA Logan Bee Lab - < http://www.loganbeelab.usu.edu >

Smithsonian Tropical Research Institute - www.stri.si.edu

kapheimk@illinois.edu

Vienna PopulationGenetics

Over the past years, Vienna has developed into one of the leading centres of population genetics. *The Vienna Graduate School of Population Genetics*has been founded to provide a training opportunity for PhD students to build on this excellent on site expertise.

We invite applications from highly motivated and outstanding students with a background in one of the following disciplines: bioinformatics, statistics, evolutionary genetics, functional genetics, theoretical and experimental population genetics. Students from related disciplines, such as physics or mathematics are also wel-

come to apply.

Topics include:

- Analysing next generation sequencing data and understanding the sampling properties of high throughput technologies - A probabilistic model for bi-allelic mutation-selection-drift - Drosophila population genomics - Analysis of time series data from natural populations - Inference of selection from time series data - Population genetic inference using Pool-Seq data - Evolution of gene expression in Drosophila - Natural variation in transposable element defense systems - Unraveling the molecular basis of adaptation in Cape Verde Islands Arabidopsis - Mutagenesis in the germline with age

Only complete applications (application form, CV, motivation letter, university certificates, indication of the two preferred topics in a single pdf) received by *January 07, 2014* will be considered. Two letters of recommendation need to be sent directly by the referees.

All information about the about available topics, the training program and the application procedure can be found at www.popgen-vienna.at Dr. Julia Hosp Vienna Graduate School of Population Genetics Coordinator www.popgen-vienna.at c/o Institut für Populationsgenetik Vetmeduni Vienna Veterinärplatz 1 A-1210 Vienna

Tel: +43 1 25077 4338 Fax: +43 1 25077 4390

julia.hosp@gmail.com

WakeForestU PopulationGenomics

The Lotterhos Lab at Wake Forest University is seeking graduate students interested in the population genomics and ecology of adaptation. Empirical work in the lab mainly focuses on marine systems and marine larval ecology, including fish and invertebrates. We use a combination of field surveys, experiments, modeling, genomics, and bioinformatics to understand local adaptation, population dynamics, and evolutionary processes. We also use theory and simulations to evaluate methods for the analysis of landscape-genomic data. A major area of interest is to understand how evolutionary and ecological processes may promote or constrain adaptation to climate change.

Information on specific projects can be found on my webpages: https://www.zoology.ubc.ca/ ˜ klott/-research/ http://college.wfu.edu/biology/people/-faculty/lotterhos/ Interested students should send me an email (k.lotterhos@gmail.com) containing a statement of interest, a CV, and contact information for three references. Official applications will be due in January. Wake Forest University in North Carolina welcomes and encourages diversity and seeks applicants with demonstrated success in working with diverse populations. Minorities and women are encouraged to apply.

k.lotterhos@gmail.com

WayneStateU EvolutionaryGenomics

Graduate Study Opportunity in Bioinformatics and Evolutionary Genomics at Wayne State University

The Hao lab in the Department of Biological Sciences at Wayne State University (http://haolab.wayne.edu) is currently seeking outstanding PhD candidates interested in studying Bioinformatics, Comparative and Functional Genomics. Our primary research interest is to develop a better understanding of the highly dynamic genomic changes and their corresponding functional consequences. The research in the lab has been very exciting. We study two model systems, human pathogenic bacterium Neisseria meningitides, and mitochondrial genomes in eukaryotes. We are currently investigating genomic variation and its association with epidemiology in Neisseria meningitides using both the whole genome sequences and transcriptome data. We also address the significance of mitochondrial DNA exchange in eukaryotes and its functional consequences (e.g., fitness, aging, and fertility) using both computational and experimental approaches.

Ideal candidates should have strong background in Biology, Mathematics, or Computer Science, want to pursue a research career in Genomics, Evolutionary Biology, and Bioinformatics.

Wayne State University is a public Research One university [or RU/VH: Research University (very high research activity)] in the United States. It ranks among the top 50 public universities in the United States in federal support and degrees awarded. Our graduate programs in the Department of Biological Sciences provide outstanding research opportunities. We also wish to draw your attention to these benefits:

Enhanced, highly competitive salaries for PhD students Guaranteed full support for PhD students includes tuition, health, vision and dental benefits Excellent core facilities including sequencing, microarray and imaging Multiple options for affordable, on-campus housing Modern on campus recreation facilities

We are located in Midtown Detroit, about 8-10 minutes drive from Downtown Detroit. The Midtown area in Detroit is a remarkably diverse and interesting city. The campus is extremely safe. The neighborhood of Wayne State University is home to Greek, Mexican, Irish, Indian, Polish and Middle Eastern communities and to scores of excellent and inexpensive ethnic restaurants!

Interested potential students please contact me (haow@wayne.edu) directly; Please include a statement of interest, CV, and transcript (unofficial is fine). additional information can also be obtained from our graduate secretary, Ms. Rose Mary Priest (rpriest@wayne.edu).

Sincerely,

Weilong Hao, Assistant Professor Department of Biological Sciences 5047 Gullen Mall Wayne State University Detroit MI 48202 haow@wayne.edu http://-haolab.wayne.edu

haow@wayne.edu

Jobs

ArizonaStateU ComparativeGenomics

We are looking to expand our genomics faculty (again) in the School of Life Sciences and the Biodesign Institute by hiring a comparative genomicist (broadly defined). Ive been at ASU for a couple years and everything about it has impressed me. The facilities and faculty are world class. The administration is very supportive. The faculty are very collaborative. The teaching loads are reasonable. Finding amazing undergraduates is trivial. Etc.

Copy of Job Ad: http://cartwrig.ht/asu-sols-genomics-2013.pdf Assistant Professor (JOB# 10593) Arizona State University School of Life Sciences

The School of Life Sciences and The Biodesign Institute at Arizona State University invite applications for a tenure-track faculty position at the level of Assistant Professor whose research focuses on comparison of biological systems at the genome scale. Anticipated start date is August 16, 2014. Preferred research methods may include but are not limited to theoretical, computational, populational, and empirical approaches to comparative and functional genomics. The successful candidate will be expected to develop an innovative, extramurally-funded, research program, teach at the undergraduate and graduate levels, and have a commitment to outreach and service. The successful candidate will be expected to mentor undergraduate and graduate students as well as postdoctoral fellows. A competitive start-up package and teaching load compatible with high research productivity will be provided.

Arizona State University has made a commitment to accelerating the translation of basic discoveries into practical benefits for society through the construction of state-of-the-art research facilities and the recruitment of world-class faculty members. The successful candidate will participate in university-wide health and/or sustainability initiatives supported by core facilities for functional genomics and next generation sequencing, functional proteomics, high throughput cellular screening, bioinformatics, high performance computing, and imaging. More information on genomic research opportunities at the Biodesign Institute and the School of Life Sciences at ASU can be found at http://-/genomics.asu.edu/ . Candidates must have a Ph.D. (or equivalent) in an appropriate field. Demonstrated teaching and research excellence is preferred.

To apply, send cover letter, your curriculum vitae, three representative publications, separate statements of future research plans and teaching philosophy and interests, and contact information for three references to be sent to Kenro Kusumi, Chair, Comparative Genomics Faculty Search Committee, School of Life Sciences, PO Box 874501, Tempe, AZ 85287-4501. Electronic applications sent as PDF files to solsfacultysearch@asu.edu are preferred.

The initial closing date for receipt of applications is November 25, 2013; applications will be reviewed every two weeks thereafter until the search is closed. A background check is required for employment. Arizona State University is an equal opportunity/affirmative action employer committed to excellence through diversity. Women and minorities are encouraged to apply. For additional information on this position and the School of Life Sciences, please visit http://-sols.asu.edu/jobs . – Reed A. Cartwright, PhD Assistant Professor of Genomics, Evolution, and Bioinformatics School of Life Sciences Center for Evolutionary Medicine and Informatics The Biodesign Institute Arizona State University - Address: The Biodesign Institute, PO Box 875301, Tempe, AZ 85287-5301 USA Packages: The Biodesign Institute, 1001 S. McAllister Ave, Tempe, AZ 85287-5301 USA Office: Biodesign A-224A, 1-480-965-9949

"Reed A. Cartwright" <cartwright@asu.edu>

AuburnU BioinformaticsCompBiol

Auburn University? Assistant/Associate Professor in Bioinformatics/Computational Biology? College of Sciences and Mathematics

The Department of Biological Sciences at Auburn University invites applications for a tenure-track faculty appointment (9-month) at the rank of Assistant/Associate Professor in Bioinformatics and/or

Computational Biology, beginning Fall 2014. We seek candidates whose research interests enhance existing strengths in Biological and Agricultural sciences at Auburn University, including comparative or functional genomics and evolution.

Candidates are expected to establish an extramurally funded, internationally recognized research program that trains graduate and undergraduate students. Instructional responsibilities include development of an undergraduate/graduate course using bioinformatic tools and computational biology principles. The new faculty member will be housed in the Bioinformatics lab of the new Center for Advanced Science, Innovation, and Commerce (CASIC) facility at the Auburn University Research Park, will contribute to and provide leadership for campus-wide bioinformatics and computational biology initiatives, and will direct the application of the new approximately $1 million CASIC supercomputer cluster.

Applicants must have a Ph.D. in Bioinformatics, Life Sciences, Computational Biology or a related discipline, and excellent communication/ interpersonal skills. Qualifications include postdoctoral or professional experience, a strong record of publication, teaching experience, and potential for funding; experience with next generation sequencing data is highly desirable. The candidate selected for this position must be able to meet eligibility requirements to work in the United States at the time the appointment is scheduled to begin, and continue working legally for the proposed term of employment.

Review of applications will begin November 15, 2013 and will continue until a suitable candidate is found. Applicants should submit (electronically) a cover letter emphasizing specific qualifications, a curriculum vitae, a description of research interests, a statement of teaching philosophy/experience, and names and contact information of at least 3 references. In order to apply for this position and view full details, please apply online at: https://-aufacultypositions.peopleadmin.com/postings/258. More information can be found at:www.auburn.edu/-biology/bioinformaticsearch .Auburn University is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

Questions contact: Jason E. Bond, Search Chair Jbond@auburn.edu 334-703-8179

Jason Bond <jeb0037@auburn.edu>

CSIRO VertSystematics

Research Scientist - Systematics and Collections Program (Vertebrates) * Take a lead role in genomics in evolutionary biology. * With a focus on the Australian National Wildlife Collection * Join CSIRO's Ecosystem Sciences and help to grow our investment in systematics and collections.

The Position: Evolutionary work on Australian terrestrial vertebrates now embraces molecular systematics, phylogeography, population genetics and genomics as well as modern approaches to morphology such as micro-CT Scanning.

We wish to continue this growth and see its relevance maintained with respect to current rapid growth in genomics. Solid grounding in collections is desirable in this work.

As a Research Scientist, you will be expected to articulate how you would use the Australo-Papuan vertebrate biota to address questions of broad interest, as well as in leading CSIRO's embracing of genomics in evolutionary biology as applied to natural populations of vertebrates. You will work at the intersection of phylogeny and adaptation, systematics and population genetics, biogeography and phylogeography especially as applied in the context of Australo-Papuan vertebrates.

Specifically you will: * Lead and contribute to the research output of the Evolutionary Biology Program particularly in Australo-Papuan evolutionary history and selection in the region's natural vertebrate populations. * Work with the Evolutionary Biology Program in syntheses of research relating to development of the Australo-Papuan biota. * Develop innovative applications of genomic concepts, theories and techniques to analysis of evolutionary history, population structure, functional genetics and natural selection. * Actively seek support for research from state, national and international bodies. * Publish findings in conventional peer-reviewed venues as well as develop a program of outreach and liaison with media and communications sectors of CSIRO. * Explore potential for uptake of research outcomes in conservation policy and planning. * Help build CSIRO's research collections in vertebrate biodiversity.

Location: Canberra, ACT, Australia Salary: AUD$92K - $124K plus up to 15.4% superannuation

Tenure: Indefinite/Ongoing Reference: ACT13/03725

To be successful in this position you will need: * A PhD and documented postdoctoral research experience in a relevant discipline area of vertebrate evolutionary biology showing an ability to develop a genomics-based research program on vertebrates in the Australian region. * Articulation of how you would use the Australian vertebrate biota to address broad biological questions. * A minimum of years demonstrated experience in any or all of a similar range of disciplines. * Experience or adaptability to work in bioinformatics; conceptual and practical knowledge and skills in Australian vertebrate systematic and museum-based evolutionary biology; and/or experience in development and maintenance of a museum collecting program would be desirable.

For appointment at the higher level (CSOF6) you will also require extensive relevant post-qualification experience; leadership experience; demonstrated ability to set up and maintain effective and efficient work teams; and a high standard of documented scientific achievement through peer reviewed international journals.

About CSIRO: The Commonwealth Scientific and Industrial Research Organisation (CSIRO) < http://-www.csiro.au/ > is one of the largest and most diverse scientific organisations in the world. By igniting the creative spirit of our people, we deliver great science and innovative solutions that benefit industry, society and the environment.

At CSIRO Ecosystem Sciences <http://www.csiro.au/-Organisation-Structure/Divisions/Ecosystem-Sciences/About-CES.aspx> we apply multidisciplinary science to the sustainability of Australia's agriculture and forestry, built environments, biodiversity, communities, and industries. We do this through research into environmental, biological, economic and societal interactions.

Applications should be lodged on-line via the CSIRO Careers Portal < http://www.csiro.au/careers >.

Applications close: 1 December 2013

Contact: Dr Leo Joseph at: Leo.Joseph@csiro.au

Links Direct link to the vacancy: http://-csiro.nga.net.au/?jati=84f853bb-d540-4ce6-0d0d-77276a5bd5d6 CSIRO Careers Website: http://-www.csiro.au/careers CSIRO: http://www.csiro.au

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CUHK HongKong MarineConservation

Associate/Assistant Professorship Post Specification:

Applicants should have a doctoral degree in a relevant biological science discipline. Applicants showing excellence in any area of marine biology will be considered, particularly those demonstrating experience using modern biological approaches to study marine ecology, biodiversity and/or conservation.

The appointee will (a) teach courses in marine biology and related disciplines; (b) develop a competitive research programme with external grant support; and (c) collaborate with faculty members in marine biology and/or environmental science. He/she will be a member of the Simon F.S. Li Marine Science Laboratory, a facility in the School specifically equipped for laboratory and field studies of marine organisms.

Appointments will normally be made on contract basis for up to three years initially commencing August 2014, which, subject to mutual agreement, may lead to longer-term appointment or substantiation later. Review of applications will begin in mid-November 2013 and will continue until the posts are filled.

Salary will be highly competitive, commensurate with qualifications and experience. The University offers a comprehensive fringe benefit package, including medical care, plus a contract-end gratuity for an appointment of two years or longer and housing benefits for eligible appointees.

The terms mentioned herein are for reference only and are subject to revision by the University.

Application forms are obtainable (a) at http://-www.per.cuhk.edu.hk; or (b) in person/by mail with a stamped, self-addressed envelope from the Personnel Office, The Chinese University of Hong Kong, Shatin, Hong Kong; or (c) by fax polling at (852)3943 1461.

Please send the completed application form, full curriculum vitae, and a research plan (in .pdf format) by e-mail to laurenlee@cuhk.edu.hk (subject line: SEARCH2013MRN - name of the applicant), preferably by November 15, 2013. Please also arrange three letters of recommendation to be forwarded by referees directly to laurenlee@cuhk.edu.hk.

Please quote the reference number and mark 'Application - Confidential' on cover. The Personal Information Collection Statement < http://www.per.cuhk.edu.hk/-jvadm/include/res/pics.asp > will be provided upon request.

Jerome Hui <hui.jerome@gmail.com>

CastletonStateC PlantEvolution

Plant Science Tenure-Track Faculty Vacancy: August 2014

Castleton State College seeks applications for a tenure-track position in the Natural Sciences Department beginning August 2014. Applicants must have a Ph.D. (ABDs close to completion will be considered; postdoctoral scientists also encouraged) in plant biology (or related degree which utilized plants as model organism) and evidence of commitment to undergraduate education. The position includes teaching in our introductory biology sequence, and courses in cell and molecular biology and genetics, as well as courses in the candidate[1]s area of expertise.

Castleton places a special value on the teaching role of its faculty, and candidates for this position will be evaluated principally on the basis of their potential to be outstanding teachers. We are especially interested in candidates willing to engage in scholarly research by incorporating undergraduate students, particularly in one of the following areas of plant-related research: molecular biology/gene regulation, bioenergetics, cellular/structural biology, plant development, physiology, microbe-plant interactions or plant ecology. Strong interpersonal skills and the ability to work effectively with colleagues are also essential.

Castleton is a growing and vibrant liberal arts college of about 2,000 undergraduates located in the beautiful lakes region of western Vermont. Salary is dependent on qualifications and experience. Questions about the college, the Natural Sciences Department, or the position should be directed to the chair of the search, Dr. Preston P. Garcia (castletonbiology@castleton.edu). Review of applications will begin January 6th, 2014 and continue until the position is filled. To apply, please send (hard copies only, no electronic documents please) a CV, three letters of recommendation, a statement of teaching interests (including proposed courses), and a research statement (including how your scholarly work can be integrated into undergraduate research in Biology) to:

Dr. Tony Peffer, Academic Dean Castleton State College 62 Alumni Drive Castleton, Vermont 05735 USA

Castleton is an Equal Opportunity/Affirmative Action Employer.

"Garcia, Preston P." <Preston.Garcia@castleton.edu>

ClemsonU 2 Genomics

Genomics Faculty Positions at Clemson University. The Department of Biological Sciences in the College of Agriculture, Forestry, and Life Sciences at Clemson University invites applications for two full-time tenure-track faculty appointments to begin August 2014; one in Microbial Genomics and one in Eukaryotic Genomics. Clemson University is ranked 21st among national public universities by U.S. News & World Report and is located on Lake Hartwell near the Blue Ridge mountains in beautiful Upstate South Carolina.

The Department offers the opportunity to collaborate with other faculty with diverse research interests across the biological sciences. Bachelor's, Master's and PhD degrees are offered in microbiology, biological sciences, and environmental toxicology. The successful candidate's research is expected to support the emphasis areas of Sustainable Environment or Biotechnology and Biomedical Sciences at Clemson University (http://www.clemson.edu/research/-innovation/emphasis.html).

Applicants must have a PhD, postdoctoral experience, and a strong publication record. The successful applicant is expected to establish a nationally recognized, externally funded research program, and to contribute to the Department's undergraduate and graduate teaching missions. We offer very competitive salaries and start-up packages. We anticipate making the appointments at the Assistant Professor level.

Microbial Genomics: We seek colleagues using cutting-edge genomic or metagenomic techniques to address important questions in virology, microbial-host interactions, microbial ecology, or pathogenesis. Candidates working in the disciplinary areas of viral or microbial genomics as they apply to ecology or spread of infectious diseases are particularly encouraged to apply.

Eukaryotic Genomics: We seek colleagues who are applying genomic tools to address important biological

questions ranging from human health and disease to the origin and maintenance of organismal diversity and adaptation. All areas of genomics will be considered including, but not limited to functional, population, personal, translational, ecological, evolutionary, or epigenomics. Specific areas that complement the strengths of the department will be given special consideration.

Applications must include a CV, three reprints, a research plan, a statement of teaching interests and contact information for three references. Review of applications will begin December 1, 2013 and continue until the position is filled. Application materials should be sent by e-mail as one PDF file to: microsearch@clemson.edu for the Microbial position or to biosearch@clemson.edu for the Eukaryotic position. Further information about these positions and the department are available at: http://www.clemson.edu MPTACEK@clemson.edu

FloridaIntlU MarineEvolution

POSITION ANNOUNCEMENT

Department of Biological Sciences, Florida International University

TITLE: Tenure track (Assistant or Associate Professor) position in Marine Ecology (evolutionists included)

Florida International University is a comprehensive university offering 340 majors in 188 degree programs in 23 colleges and schools (http://main.fiu.edu/-academics/colleges-schools/index.html), with innovative bachelor???s, master???s and doctoral (http://main.fiu.edu/academics/degree-programs/-index.html) programs across all disciplines including medicine, public health, law, journalism, hospitality, and architecture. FIU is Carnegie-designated as both a research university with high research activity and a community-engaged university. Located in the heart of the dynamic south Florida urban region, our multiple campuses serve over 50,000 students, placing FIU among the ten largest universities in the nation. Our annual research expenditures in excess of $100 million and our deep commitment to engagement have made FIU the go-to solutions center for issues ranging from local to global. FIU leads the nation in granting bachelor???s degrees, including in the STEM fields, to minority students and is first in awarding STEM master???s degrees to Hispanics. Our students, faculty, and staff reflect Miami???s diverse population, earning FIU the designation of Hispanic-Serving Institution. At FIU, we are proud to be ???Worlds Ahead???! For more information about FIU, visit http://fiu.edu . The Department of Biological Sciences at Florida International University (http://biology.fiu.edu/) is seeking applicants for a tenure track (Assistant or Associate Professor) position in MARINE ECOLOGY.?? Applicants from all areas of Marine Ecology are welcome.?? The Department of Biological Sciences has 4,700 majors and 120 graduate students in fields ranging from cell and molecular biology to evolution and ecology. The successful candidate will participate in the Marine Science Program (http://casgroup.fiu.edu/marine/), a new and growing interdisciplinary initiative emphasizing research and teaching in coastal marine science. The Marine Science Program is housed in a recently completed building in FIU Biscayne Bay Campus in the city of North Miami, and currently is home to 12 research laboratories, 2 teaching laboratories, wet labs, a mesocosm facility, and running sea water systems. The successful candidate will be expected to maintain an externally funded research program, supervise graduate students in our Ph.D. program, as well as teach undergraduate courses including an Ecology course for Biology and Marine Biology majors and other courses in their areas of expertise. Position is contingent upon funding.

Qualified candidates are encouraged to apply to Job Opening ID 506780 at careers.fiu.edu and attach a cover letter, curriculum vitae, a summary of research interests and teaching goals in a single pdf file. In addition, applicants should arrange for three letters of reference to be sent directly to Valerie Hall at hallv@fiu.edu. To receive full consideration, applications and required materials should be received by December 1, 2013.?? Review will continue until position is filled.

FIU is a member of the State University System of Florida and is an Equal Opportunity, Equal Access Affirmative Action Employer. Rev. 12/13/2012

Jose M. Eirin-Lopez, Ph.D. Assistant Professor Department of Biological Sciences Florida International University, Biscayne Bay Campus 3000 NE 151 Street, suite MSB-360 North Miami, Florida 33181, USA

305 919-4000 (Office) 305 919-4226 (Lab, MSB-320) 305 919-4030 (Fax) jeirinlo@fiu.edu CHROMEVOL Research Group http://chromevol.com Jose Maria Eirin Lopez <jeirinlo@fiu.edu>

FraminghamStateU PlantSystematics

Assistant Professor V Botany/Plant Systematics Company Description: Framingham State University, located just 20 miles west of Boston, is a vibrant comprehensive liberal arts institution offering 26 undergraduate degree programs in arts, humanities, sciences, social sciences, and professional fields. Nearly 6,000 students attend Framingham State, including nearly 2,000 graduate students. Framingham State University offers graduate degrees in 25 fields, including an extensive graduate program for teachers in international schools. The University takes pride in its 30,000 alumni, most of whom live and work in Massachusetts. The University is just the right size - small enough for learning to be personal and collaborative, yet large and diverse enough to broaden students' understanding of their world. This broadening of perspectives and appreciation of diversity is one of the hallmarks of a first-rate undergraduate education.

Job Description: The Biology Department at Framingham State University invites applicants for a full-time, tenure-track position as Assistant Professor to begin September 1, 2014. The successful applicant will be a broadly trained plant sytematist. Teaching responsibilities will include an upper level course in plant taxonomy and participation in general biology classes for majors and non-majors. Additional ability to teach courses in field botany and plant/ecological physiology is desired. The successful candidate is expected to establish a research program involving undergraduates and participate in our Methods in Biological Research program. We seek an enthusiastic, committed teacher-scholar with demonstrated excellence in undergraduate teaching and a research program that will engage students in our liberal arts college setting.

Requirements: Minimum Qualifications: Applicants must have a Ph.D. in a relevant field of Biology, a strong commitment to undergraduate education, and be able to foster a collaborative atmosphere among students and faculty.

Additional Information: Framingham State University conducts Criminal Offender Record Information (CORI) checks relative to prior criminal convictions and pending cases, as well as Sex Offender Registry Information (SORI) checks relative to prior sexual offenses committed as an adult or juvenile on final candidates prior to an offer of employment for all positions. Framingham State University requires specific written authorization to conduct background checks. Failure to provide such authorization shall preclude your application from receiving further consideration. Framingham State University is an affirmative action/equal opportunity employer. Members of underrepresented groups and those committed to working in a diverse cultural environment are encouraged to apply.

Application Instructions: Please apply online (https://framingham.interviewexchange.com/static/clients/353FSM1/listJobs.jsp) by submitting (PDF format), a letter of application, a curriculum vita, a statement of teaching background that addresses teaching goals and other interests, a statement of research interests, unofficial undergraduate and graduate transcripts, and the names of three references (at least two of which speak directly to teaching ability). Address letter to: Dr. Margaret Carroll, Biology Department, Framingham State University, 100 State Street, Framingham, MA 01701-9101. For best consideration, please submit materials by December 1st. The position will remain open until filled.

Framingham State University understands that persons with specific disabilities may need assistance with the job application process and/or with the interview process. For confidential assistance with the job application process, please contact the Human Resources Office at (508) 626-4530.

Walter J. Lambert Dept of Biology Framingham State University Framingham, MA 01701 Tel: 508-626-4789 email: wlambert@framingham.edu

Walter Lambert <wlambert@framingham.edu>

GEOMAR UKiel EvolutGenetMarFishes

The Faculty of Mathematics and Sciences at Kiel University, Germany, and GEOMAR Helmholtz Centre for Ocean Research Kiel invite applications for a

Junior Professorship (W1) in Evolutionary Genetics of Marine Fishes

starting the earliest on April 1st, 2014. The position is located at the GEOMAR and embedded into the Research Division "Marine Ecology" within the Research Unit "Evolutionary Ecology of Marine Fishes". Ju-

nior Professors will initially be appointed for 3 years ("Beamtenverhältnis auf Zeit"); depending on a positive evaluation, the position can be extended for additional 3 years.

We are looking for applications by outstanding young scientist who can document their excellence by a very good Ph.D.-thesis and scientific publications in international, peer reviewed journals. The research area should be an innovative field within marine evolutionary biology and genetics. Currently, major topics within the research unit "Evolutionary Ecology of Marine Fishes" (http://www.geomar.de/en/research/-fb3/fb3-ev/research-topics/) are evolutionary adaptation to global change, host-parasite interactions, causes and consequences of sexual selection, and speciation and hybridization processes. One methodological focus is to analyze the genetic basis of rapid evolutionary change. The successful candidate should have profound knowledge in population genetics, molecular ecology, and ecological genomics. Collaboration with the focal research areas at Kiel University in Kiel Marine Science and/or Kiel Life Science is welcome.

Teaching (4 hrs/week) will take place within the international M.Sc. curriculum "Biological Oceanography". Cooperation with large, collaborative projects of Kiel University and of the GEOMAR is expected. Further information on hiring procedures for professors can be found at www.berufungen.uni-kiel.de. Further information on the position can be obtained from Prof. Thorsten Reusch (treusch@geomar.de).

The Kiel University seeks to increase the number of women in research and teaching, and expressively encourages qualified women to apply. Women will be treated with priority provided that their qualifications are equal to those of male applicants.

Applications from handicapped scientists will be treated with priority.

Applications with the usual documents, including a curriculum vitae, a list of publications, a short research perspective and copies of academic degrees should be sent until October 25th, 2013 to the following address:

Christian-Albrechts-Universität zu Kiel Dekan der Mathematisch-Naturwissenschaftlichen Fakultät 24098 Kiel Germany e-mail: dekanat@mnf.uni-kiel.de

treusch@geomar.de

HarvardU HumanEvolution

Title: Open-Rank Professorship in Human Biology and Physiology

School: Faculty of Arts and Sciences, Harvard University

The Department of Human Evolutionary Biology at Harvard University is seeking to make one or more full-time appointments at either the tenure-track or tenured level in human biology and physiology. This area includes any aspect of physiology such as energetics, nutrition, the microbiome, disease ecology, life history, and evolutionary medicine. Applicants' interests should be explicitly related to human evolution, and we encourage candidates whose research integrates laboratory and field components. The appointment could begin as early as July 1, 2014.

Basic Qualification: Doctorate in Anthropology, Biology or related discipline required by expected start date.

Additional Qualifications: The Department administers a large and successful undergraduate concentration in Human Evolutionary Biology, hence excellence in undergraduate teaching is a priority. A strong research program, including the ability to offer graduate courses, is also expected. Our Doctoral program stresses integration of laboratory and field research and the cooperative training and mentoring of PhD candidates.

Special Instructions: For tenure-track appointment, please go to http://academicpositions.harvard.edu/-postings/5052 to apply.

For tenured appointment, please go to http://-academicpositions.harvard.edu/postings/5055 to apply.

Review of applications will begin on November 15, 2013.

Harvard is an Equal Opportunity/Affirmative Action employer. Applications from women and minorities are strongly encouraged.

Letters of nomination from third parties are also welcome.

Contact Information: Address enquiries to Professor Peter Ellison, Search Committee Chair, Department of Human Evolutionary Biology, Harvard University, 11 Divinity Avenue, Cambridge, MA 02138 USA, or by

e-mail to Meg Lynch (mlynch@fas.harvard.edu)

(keywords: assistant professor, faculty, instructor, tenure track, Boston, Cambridge, Massachusetts, MA, Northeast, New England, physiology, nutrition, physiological ecology, life history, human biology, evolutionary medicine, microbiome)

"Lynch, Margaret" <mlynch@fas.harvard.edu>

HarvardU InvertEvolution

The Department of Organismic and Evolutionary Biology at Harvard University has a tenure-track faculty position and seeks applications from individuals whose work addresses any clade(s) of living or extinct invertebrates and emphasizes one or more of the following areas: evolution, systematics, ecology, behavior, physiology, development, genetics, genomics or environmental biology.

Position description: The Department of Organismic and Evolutionary Biology seeks to appoint a tenure-track professor in the field of invertebrate biology and/or invertebrate paleontology, whose research includes any clade(s) of living or extinct invertebrates and emphasizes one or more of the following areas: evolution, systematics, ecology, physiology, development, genetics, genomics or environmental biology. We seek an outstanding scientist who will establish an innovative research program, teach both undergraduate and graduate students, and interface with relevant programs throughout Harvard. The successful candidate will be appointed to one of two vacant curatorial positions in the Museum of Comparative Zoology (MCZ) and share oversight responsibilities for the museum's invertebrate collections. Additional faculty appointments in invertebrate biology and invertebrate paleontology are anticipated in future years to sustain Harvard's strength in these areas.

Basic qualifications: Doctorate required by expected start date. Additional qualifications: Demonstrated excellence in teaching and research is desired, as is postdoctoral experience.

Special instructions: Please submit the following materials through the ARIeS portal (http://-academicpositions.harvard.edu/postings/5045), no later than November 11th, 2013: 1. Cover letter 2. Curriculum vita 3. Teaching statement 4. Research statement 5. Names and contact information of 3-5 references 6. 3-5 representative publications

Harvard is an Equal Opportunity/Affirmative Action employer. Applications from women and minorities are strongly encouraged.

Contact information: Further information about OEB and MCZ are available at http://www.oeb.harvard.edu and http://www.mcz.harvard.edu. Contact email: facsearch@oeb.harvard.edu

Jonathan Losos <jlosos@oeb.harvard.edu>

ImmperialC London EvolutionWildlifeDiseases

Imperial College London

Research Associate

Reference number: SM243-13 closing date 24 November

Department of Infectious Disease Epidemiology; Imperial College London, School of Public Health

Salary Range: £28,770 - £34,500 per annum (Level B, Research Associate)

The Fisher Lab is seeking a computationally-minded molecular epidemiologist/ecologist to join a research group investigating the evolutionary ecology of chytrid fungi causing global amphibian extinctions. Continuously funded since 2003 by the UK Natural Environment Research Council (NERC), we are investigating the patterns and processes that are leading to disease-driven amphibian declines by utilising population genomics, experimental ecology and fieldwork. Our work has been key to identifying the fungal lineages and species that are emerging to cause amphibian declines, and the vectors that are leading to the spread of these invasive pathogens. The project will focus on the evolution of virulence in amphibian-infecting chytrids across long- and short-timescales, genomics of the different lineages, and will seek to identify the regions from which these infections originate.

The projects primary objective is to investigate the spatial epidemiology and molecular evolution of panzootic amphibian chytridiomycosis by:

Characterising ancient and modern amphibian-associated chytrids using population genomics of ancient and contemporary DNA, Linking patterns of host-specificity, competition and virulence to the spatial origins of infecting lineages. Determining

rapid genome-wide processes underpinning chytrid invasion dynamics with the aim of linking shorter-term evolutionary radiations that we see across local-scale invasions to longer-term evolutionary processes, seen across continents and species.

Our ultimate goal is to increase our awareness of evolutionary ecology of these pathogens, and the risk that they pose to species worldwide.

Applicants should have a PhD or equivalent in one of the following areas: epidemiology, bioinformatics, computational biology or a related quantitative discipline. You should also be able to demonstrate strong knowledge of, and interest in, pathogen epidemiology as well as having experience of working with large and complex databases. The position is supported by a full time research assistant (job to be posted soon).

This is a full time post for a fixed-term for three years

Application form is at:

https://www4.ad.ic.ac.uk/OA_HTML/-OA.jsp?page=3D/oracle/apps/irc/candidateSelf Service/webui/VisVacDispPG&akRegionApplicationId1&transactionid"886800 2&retainAM=Y&addBreadCrumb=S&p_svidB303&p_spid38998&oapc=8&oas=bQ5LEu1 Bpm5hBl8dQOhcwA..

For informal enquiries please contact Professor Matthew Fisher: matthew.fisher@imperial.ac.uk

matthew.fisher@imperial.ac.uk

KansasStateU EvolutionaryBiologist

Tenure Track Faculty Position in Evolutionary Biology Assistant Professor

The Division of Biology, Kansas State University invites applications for a tenure-track position in Evolutionary Biology at the Assistant Professor level beginning in the 2014-2015 academic year.

We seek candidates addressing fundamental, cutting-edge questions in Evolutionary Biology who will complement the existing strengths in the Division of Biology and across campus. The candidate's research program may focus on any taxon or study system using techniques, theory and analysis appropriate for successful resolution of the questions.

Minimum requirements include a Ph.D. and post-doctoral experience in evolutionary biology at the time of appointment and demonstrated research accomplishments. Successful candidates will be expected to demonstrate a strong commitment to excellence in scholarship, to develop an innovative and independent extramurally-funded research program, and to contribute collaboratively to interdisciplinary research. Expectations also include teaching and mentoring a diverse population of undergraduate and graduate students, and contributions to service and outreach efforts of the Division. The salary will be commensurate with experience.

The Division of Biology is a large, diverse and collegial faculty with an excellent record of research and teaching. Extramural research funding in the Division averages approximately $10M per year. We have a broad research program that includes numerous faculty scientists with research interests in evolutionary biology, cell biology, development, ecology, genetics/genomics, microbiology and related disciplines in multiple other KSU departments. Additional information about the Division of Biology programs at Kansas State University can be found at: http://www.ksu.edu/biology/ . TO APPLY, please email the following in a single PDF file: a cover letter, complete curriculum vitae, statements of research and teaching interests, and three representative publications. Please request that letters from 3 referees be sent to the Evolutionary Search Committee by email: biology@ksu.edu . Only applications submitted by email will be accepted. Inquiries only may be directed to the Search Committee Chair, Dr. Anthony Joern (ajoern@ksu.edu). Review of applications will begin November 15, 2013, and will continue until the position is filled.

Kansas State University is located in the city of Manhattan (www.ci.manhattan.ks.us), a dynamic college community of about 50,000 located in the scenic Flint Hills of northeastern Kansas. Local recreational opportunities include a large lake/park system, diverse outdoor activities, and a rich program in the performing arts. Manhattan also serves as the regional center for education, health care, commerce, entertainment and communications.

Kansas State University is an Equal Opportunity/Affirmative Action Employer, and actively seeks diversity among its employees. A background check will be required prior to appointment.

Anthony Joern <ajoern@k-state.edu>

LiverpoolSchoolTropicalMedicine GraduateAssistant

We are seeking to appoint a Research Assistant to work as part of a multidisciplinary team of scientists involved on an MRC funded project on Malaria elimination in sub-Saharan Africa. Working within an active evolutionary genetics group, key responsibilities will include investigating how heterogeneities in species composition and physiological insecticide resistance continue to heterogeneities in malaria transmission.

With a BSc/MSc in Biology or a related field, you will have a range of skills including field ecology, molecular biology laboratory techniques and analysis of genotypic data. Previous experience of working with insect vectors and/or in malaria endemic countries is desirable but not essential. The post will be based at the MRC Research Unit, The Gambia, for the full duration of the contract.

Full details of the position are available at http://www.lstmliverpool.ac.uk/working-with-us/human-resources/current-vacancies/ref-362 Martin James Donnelly

Professor of Evolutionary Genetics Department of Vector Biology Malaria Programme Liverpool School of Tropical Medicine & Wellcome Trust Sanger Institute Pembroke Place Hinxton Liverpool Cambridge L3 5QA CB10 1SJ Tel +44(0) 151 705 3296 Fax +44(0) 151 705 3369 Email m.j.donnelly@liv.ac.uk Web http://donnelly.openwetware.org/Home.html Skype martin-donnelly

"Donnelly, Martin" <M.J.Donnelly@liverpool.ac.uk>

LouisianaStateU ComputationalGenomics

ASSISTANT PROFESSOR (Computational Genomics/ Tenure-track) Department of Biological Sciences Louisiana State University

This is a tenured-track faculty position and the successful candidate will be expected to establish a vigorous, extramurally funded research program in Computational Genomics at LSU, and contribute to undergraduate and graduate teaching. The candidate will have an opportunity to interact with and participate in the Center for Computation & Technology (CCT). CCT offers an innovative and interdisciplinary research environment for advancing computational sciences. Required Qualifications: Ph.D. and a successful track record of independent research. An offer of employment is contingent on a satisfactory pre-employment background check. Application deadline is December 13, 2013 or until a candidate is selected. Apply online and view a more detailed ad at: www.lsusystemcareers.lsu.edu< http://www.lsusystemcareers.lsu.edu >. Position: 031162

Please contact Robb Brumfield (robb at lsu.edu< http://lsu.edu >) with any questions.

LSU IS AN EQUAL OPPORTUNITY/EQUAL ACCESS EMPLOYER

Quick link at ad URL: https://lsusystemcareers.lsu.edu/applicants/Central?quickFind=56690 Robb Brumfield <robb@lsu.edu>

MNH Geneva InvertSystematist

A position of *Chargé de Recherche* (≪Research Officer≫) has been opened in the Dpt of Invertebrates of the Museum of Natural History of Geneva (Switzerland).

The full announcement will be available shortly (probably early next week) on:

http://www.ville-geneve.ch/administration-municipale/offres-emploi/* *

(look for the offer for ≪Chargé de Recherche, Muséum d'histoire naturelle≫)

and a short English translation is provided below. Such positions are rather senior level and a PhD is needed to apply, they require both public and scientific activities.

Mission and Responsibilities:

Participate in the scientific administration of the department. Transmit knowledge to a diverse public. Develop an autonomous scientific research plan. Manage collections. Take part in the development of temporary and permanent exhibitions as well as in pedagogic activities.

Requirements:

PhD in the field of organismal biology. Excellent knowledge and strong publication record in the systematics of a non-arthropod invertebrate group (with a preference for Mollusca, parasitic Platyhelminthes or a non-marine group, although other groups will also be considered). Experience in collection management. Interest in scientific popularisation. Written and spoken French and English (other languages an asset). Availability for fieldwork.

Please note that, if selected, you will need to live in or around Geneva. Application deadline is *November 5*.

N.B.: The position is in principle open to any qualified person, but I should emphasize the fact that in practice, and for administrative reasons, it is very difficult to hire non-European candidates.

If interested, do not hesitate to contact me (Jean Mariaux, mariauxj@gmail.com) for further information although I will be in the field for most of the application period and might be slow to reply. Information can also be requested from Peter Schuchert (peter.schuchert@ville-ge.ch)

Prof Jean Mariaux Curator Dpt of Invertebrates Museum d'Histoire Naturelle CP6434 - CH-1211 Geneve 6 - Switzerland

Ph/fax: +41 22 418 6343/6301 ORCID: http://orcid.org/ 0000-0002-9601-855X mariauxj(at)gmail.com jean.mariaux(at)ville-ge.ch

mariauxj@gmail.com

ManchesterMetroU Conservation

Dear EvolDir

Please see the job announcement below for a permanent lectureship in molecular ecology and conservation at MMU. The online application deadline is 22 October 2013.

**** https://www.jobs.mmu.ac.uk/mmujobsite/-VacancyDetail.aspx?VacancyUID=3D000000008044 Lecturer: Molecular Ecology and Conservation (Full-time / Permanent)

The Biology and Conservation Ecology Division is responsible for delivering a wide range of biological and environmentally-related subjects at undergraduate and postgraduate levels. In addition to bachelor programmes in Biology, Wildlife Biology, Ecology and Conservation, Animal Behaviour and Microbiology and Molecular Biology, the area also runs a long-established and very successful suite of Masters programmes in Animal Behaviour, Conservation Biology, Conservation Genetics, Zoo Conservation Biology, Biological Recording and related areas. Current research in the area is concentrated in applications of ecological and behavioural techniques and theory to practical aspects of conservation and wildlife management. We also have strong external links with organisation such as the Kenyan Wildlife Service, Field Studies Council, RSPCA and Chester Zoo.

You will have a first degree in an appropriate biological discipline studied to a doctoral or postdoctoral level and a research record within an area of molecular biology as applied to conservation. The successful candidate will be a conservation biologist who uses molecular tools and should preferably show evidence of field-based skills and be able to contribute to undergraduate and postgraduate fieldwork in the UK and abroad. The preferred candidate should have interests in population genetics, evolution, landscape genetics or other applications of molecular techniques to conservation.

You will join a dedicated team teaching on a range of conservation; behaviour; biology and environmental based units at both undergraduate and postgraduate levels. You will supervise students in undergraduate and masters level research projects. The successful candidate will also have opportunities to develop undergraduate and postgraduate units for future delivery. You will also contribute, where appropriate, to commercial/research income generation activity, and will undertake research/scholarly activity and contribute to the development of new areas in your relevant subject field. Suitable research/enterprise areas will be aligned to the Conservation, Evolution and Behaviour Research Group.

For an informal discussion regarding the requirements of the role please contact Prof. Phil Wheater (p.wheater@mmu.ac.uk) or Dr. Neil Cresswell (n.cresswell@mmu.ac.uk).

For more information and to apply online, visit http:/-/www.mmu.ac.uk/jobs. If you do not have access to the internet, or require an application in an alternative format, please contact Human Resources on 0161 247 3502 quoting the reference number G2/3942. Closing date for receipt of applications is midnight on 22/10/13. ****

W. Edwin Harris Manchester Metropolitan University School of Science and the Environment Division of Biology and Conservation Ecology Manchester, M1 5GD

E.Harris@mmu.ac.uk

MercyhurstU EvolutionaryBiol

Tenure Track Faculty Position- Biology (2 positions)

The Department of Biology at Mercyhurst University seeks applications for two tenure-track faculty positions at the Assistant Professor level starting Fall 2014. Candidates must have a Ph.D. in the biological sciences or a related field, a strong commitment to teaching and maintaining an active research program involving undergraduates. Both positions involve teaching at least one of our freshman-level, introductory biology courses. The ideal candidates will also be prepared to teach courses in at least one of the following areas: Genetics, Molecular Biology, Botany, Microbial Ecology, Plant Physiology, Plant Science or a genomics-themed course. Candidates will also have the opportunity to develop specialty courses in their areas of expertise. Research equipment available for candidates include an Illumina MiSeq, Applied Biosystems Real-time PCR, LI-COR Odyssey, LI-COR LI6400 Portable Photosynthesis System, epifluorescent microscope, and plant tissue culture facility. The areas of research are open, but particular consideration will be given to candidates whose interests complement those of the existing faculty. Preference will be given to candidates with previous teaching experience and success in securing extramural funding to support research. Contractual responsibilities also include academic advising, and service to the university and department. To apply, please send a single pdf containing a cover letter, CV, statement of teaching philosophy, and research statement, and arrange for three letters of reference to be sent to Dr. Sara Turner at sturner@mercyhurst.edu. The initial review of complete applications will begin November 15, 2013 and will continue until the positions are filled.

Mercyhurst University is a fully accredited, four-year, liberal arts institution in Erie, Pennsylvania founded in 1926 by the Sisters of Mercy. Today, the university is home to more than 3,000 undergraduate and graduate students and >160 faculty in more than 50 undergraduate majors and eight graduate degree programs.

Mercyhurst University is an Equal Employment Opportunity Employer that encourages members of diverse groups to apply.

Sara M. Turner, Ph.D. Assistant Professor of Biology Mercyhurst University Zurn 110

sturner@mercyhurst.edu 814-824-3089

sturner@mercyhurst.edu

MichiganStateU QuantitativeEvolution

Faculty Position in Quantitative Evolution or Ecology

Michigan State University

The interdisciplinary graduate program in Ecology, Evolutionary Biology & Behavior < http://-eebb.msu.edu/ > (EEBB) at Michigan State University (MSU) is seeking applications for a tenure-system Assistant Professor faculty position in *evolution or ecology*. The successful applicant will be able to demonstrate expertise and leadership in the study of fundamental questions in ecology, evolutionary biology, and/or behavior, to establish an externally-funded research program that supports graduate training, and to make significant contributions to both graduate and undergraduate teaching. Special consideration will be given to applicants who integrate empirical study of biological systems with cutting edge computational and quantitative methods. A competitive start-up and compensation package will be offered according to the applicant's experience and qualifications.MSU has additional resources, as part of an Excellence Hiring Initiative, to recruit exceptional candidates at the Associate and Full Professor levels.

With 136 graduate students and over 100 participating faculty, EEBB at MSU is one of the most successful graduate training programs in the world. The EEBB core curriculum provides students with broad training encompassing experimental, field, and theoretical approaches to the study ofecology, evolutionary biology, and behavior, as well as the computational, mathematical, and statistical methods used in these fields. The successful applicant will contribute to teaching in the EEBB core curriculum, and in the graduate and undergraduate programs of his or her home department.Depending upon research interests and programmatic fit, the successful applicant will have a tenure home in one of the following academic departments: Plant Biology < http://www.plantbiology.msu.edu/ >, Microbiology and Molecular Genetics < http://www.mmg.msu.edu/- > and Zoology < http://www.zoology.msu.edu/ >.

This new faculty member will also have the opportunity to participate in the NSF-funded BEACON Center for the Study of Evolution in Action < http://beacon-center.org/ >.

MSU is an affirmative action, equal opportunity employer, committed to achieving excellence through a diverse workforce and an inclusive culture that encourages all people to reach their full potential. We actively encourage applications and/or nominations of women, persons of color, veterans, persons with disabilities and individuals who can contribute to the intellectual diversity and cultural richness at Michigan State University. MSU is committed to providing a work environment that supports employees' work and personal life, and offers employment assistance to the spouse or partner of candidates for faculty and academic staff positions.

Application materials should be submitted to the MSU Applicant Page (MAP) for faculty positions (online at https://jobs.msu.edu; posting number 8506) as a single, concatenated pdf document that includes: a letter of interest, CV, a statement of research accomplishments and goals, and a statement of teaching accomplishments and goals. The research and teaching statements should highlight the applicant's approach to achieving excellence through diversity. Applicants should also arrange for three letters of recommendation to be submitted to the MAP web site. A separate pdf file containing three representative publications should be sent directly to the Search Committee at eebbsrch@msu.edu.

Applications will be accepted until the position is filled.Review of applications will begin on November 8, 2013.

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Questions can be addressed to the Search Committee Chair (Fred Dyer) at eebbsrch@msu.edu.

EEBB Office <eebb@msu.edu>

MississippiStateU EvolutionaryMicrobiology

The Department of Biological Sciences at Mississippi State University invites applications for a 9-month tenure-track faculty position in Microbiology. We seek a candidate who will complement existing strengths and allow for new collaborations in the department and across Mississippi State University. Appointment will be at the rank of Assistant Professor, with a start date of August 16, 2014. Successful candidates are expected to develop an externally funded research program, direct graduate students, teach at the undergraduate and graduate levels, and contribute to the service mission of the department. Minimum requirements include a Ph.D. in a relevant area of Biology or Microbiology, post-doctoral experience, evidence of sustained scholarly productivity, and evidence of teaching competence. Candidates with expertise in microbial symbioses, microbiomes, or community structure and function are strongly encouraged to apply. Mississippi State University (http://www.msstate.edu/) is a comprehensive land-grant university that serves more than 20,000 students. The university is classified by the Carnegie Foundation for the Advancement of Teaching as a "very high research activity" university, placing it among the nation's leading major research universities. Faculty in the Department of Biological Sciences have diverse research interests in bioinformatics, cell biology, developmental biology, ecology, evolutionary biology, genetics, microbiology, physiology, and systematics and are funded by the NIH, NSF, USDA, and USGS, as well as numerous private foundations. The Biological Sciences department offers degrees at the B.S. (Biological Sciences, Medical Technology, and Microbiology), M.S. (Biological Sciences thesis and non-thesis) and Ph.D. (Biological Sciences) levels. Research space in Harned Hall was recently renovated providing modern facilities for cutting-edge research. Campus research infrastructure includes supercomputing resources, and proteomics and genomics instrumentation at the Institute for Genomics, Biocomputing & Biotechnology (http://www.igbb.msstate.edu/), computing resources and statistical expertise at the Center for Computational Sciences (http://www.ccs.msstate.edu/), microscopy and imaging through the Institute for Imaging and Analytical Technologies (http://www.i2at.msstate.edu/), and geospatial technology through the Geosystems Research Institute (http://www.gri.msstate.edu/). A Center of Biomedical Research Excellence (COBRE, NIH) was also recently established on campus. The Biological Sciences department offers degrees at the B.S. (Biological Sciences, Medical Technology, and Microbiology), M.S. (Biological Sciences thesis and non-thesis) and Ph.D. (Biological Sciences) levels. Research space in Harned Hall was recently renovated providing modern facilities for cutting-edge research. Additional details on research facilities, faculty expertise, and potential for collaborations across campus are available at http://www.biology.msstate.edu. To apply, submit a CV, statement of research expertise and goals (2-page maximum), a statement of teaching interests and competency (2-page max-

imum), three letters of reference, and reprints of up to 3 publications. These materials should be submitted to applicants@biology.msstate.edu. Applicants should also complete the Personal Data Information Form associated with this position at https://www.jobs.msstate.edu/ (PARF/position 7551). Screening of applications will begin December 1, 2013 and will continue until the position is filled. MSU is an AA/EOE.

Lisa Wallace, Ph.D. Associate Professor of Biological Sciences P.O. Box GY Mississippi State, MS 39762 Phone: 662.325.7575 Email: lisawallace@biology.msstate.edu web: http://-lw404.biology.msstate.edu Herbarium: http:/-/herbarium.biology.msstate.edu Lisa Wallace <LisaWallace@biology.msstate.edu>

NHM LosAngeles MarineMammalCurator

Curator, Marine Mammals

The Natural History Museum of Los Angeles County (NHM) seeks a Curator specializing in the study of Marine Mammals (living or fossil) to conduct collection-based research in evolutionary biology including taxonomy, systematics, biogeography, and biodiversity science. The NHM, the largest natural history museum in the western United States, has recently finished a dramatic transformation including new ground-breaking exhibitions and a 3 $\frac{1}{2}$ acre wildlife garden. The NHM's mission is to inspire wonder, discovery, and responsibility for our natural and cultural worlds. The NHM has recently developed a strategic intent-"Be the best at communicating how our planet and life on it changes over time and why this matters"-that will guide the museum's priorities during the next decade. The successful candidate will have a record of outstanding research and publications as well as excellent communication skills and an innate ability to engage and enthuse the public and stakeholders through his or her work.

The NHM holds one of the world's best collections of living and fossil marine mammals, with huge potential for a broad array of research and public programs. Through a network of partnerships with local universities, the NHM provides academic mentoring to a diverse community of undergraduate and graduate students. The successful candidate will be responsible for developing a dynamic, productive, and scientifically significant program of research to build a growing scientific and public profile, overseeing the development and curation of important collections, maintaining and strengthening the NHM's presence in key professional and governmental networks, and establishing active internal NHM collaborations, especially with the Education and Exhibits, the Marketing and Communications, and the Advancement Departments.

The successful candidate will have a strong track record of published research with strengths in the field of evolutionary biology, and will be expected to develop an active and publically engaging research program, develop working relationships with local universities, mentor students and postdoctoral fellows, and maintain research through obtaining competitive grants and/or funding from other external sources. The successful candidate will have a Ph.D., experience in generating funding to support research, and a demonstrated track-record of peer-reviewed papers; a record of successful public communications in some form would be an advantage. The candidate must have the vision and capability to build a research program that can be integrated within the NHM's ongoing efforts to understand the evolution of marine ecosystems and organismal adaptation to the ocean, and to shape the collections and research in ways that increase both its scientific and public appeal. Experience in collections management is desirable.

The ability to effectively communicate and engage with a wide variety of audiences, including the public and the NHM's various stakeholders is paramount. The successful candidate will be expected to oversee and supervise the NHM's marine mammal program including collections and collections managements staff, to participate actively in a broad range of museum activities, including exhibits, education, outreach and training of educators, public communications including, but not limited to, media interactions, and fundraising activities. More specifically, the successful candidate will be expected to play a key role in the development of content for a new permanent exhibition about the ocean. The Curator will also be responsible for building productive ties with local universities, professional associations, educators, and other relevant organizations within the scientific and general community.

This is a full-time position with a salary and title commensurate with experience, plus excellent benefits.

Application deadline is January 31st, 2014. The starting date is July 1st, 2014. Applicants should send a cover letter, curriculum vitae, salary history, and the full contact information of at least three professional references to lgranado@nhm.org - Lisa Granados, Re-

search & Collections, Natural History Museum of Los Angeles County, 900 Exposition Blvd., Los Angeles, CA 90007, USA.

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

Lisa Granados <lgranado@nhm.org>

NorthCarolinaStateU EvolutionEcol

Assistant Professor Global Environmental Change and Human Well-Being North Carolina State University

As one of the leading land-grant institutions in the nation, North Carolina State University is proud to announce the second phase of hiring in the Chancellor's Faculty Excellence Program, a cluster hire program spanning academic colleges and other partners to enhance interdisciplinary research strengths and the development of innovative curricula. To date, 24 of 38 faculty positions have been filled in 12 clusters of scholars. [see http://workthatmatters.ncsu.edu/] As part of this university-wide program, the Department of Biological Sciences, the Department of Applied Ecology, and the Department of Forestry and Environmental Resources have formed a cluster in "Global Environmental Change and Human Well-Being." We hired two senior faculty for this cluster last year. Building on this successful first round of hiring, we are currently hiring one Assistant Professor in the Department of Biological Sciences to complete this cluster of three faculty. We seek leaders in any area of evolutionary biology or ecology under this theme. Although we are targeting an Assistant Professor, exceptional applicants at the Associate or Full Professor rank will be considered. Successful applicants are expected to have a strong vision for their vibrant research program, a commitment to leadership in the area of Global Environmental Change, and commitment to excellence and innovation in graduate and/or undergraduate education.

This cluster will strengthen and bridge a broad range of emerging initiatives at NC State including: 1) the Southeast Climate Science Center; 2) the NC Museum of Natural Sciences; and 3) programs in Ecology and Evolutionary Biology (for information on the Global Environmental Change cluster and additional relevant cross-cutting programs see http://-www.theglobalchangeforum.org/clusterhire).

To apply for this position, go to https://jobs.ncsu.edu (position number 00102989) or follow this link to access the posting directly http://jobs.ncsu.edu/postings/-28236. Provide: a) cover letter; b) curriculum vitae (including contact information for 3 references and an appended list of courses you are willing to teach); c) two-page research statement incorporating a vision for how your research would build the programmatic theme in Global Environmental Change and Human Well-being at NC State. Confidential inquiries and nominations should be directed to Dr. L. Scott Mills, Search Chair, scott_mills@ncsu.edu (919-515-4585). Review of applications will begin 1 November 2013 and continue until the position is filled.

NCSU is an AA/EO employer. All qualified applicants will receive consideration for employment without regard to race, color, national origin, religion, sex, age, veteran status or disability. NC State welcomes all persons without regard to sexual orientation or genetic information. In its commitment to diversity and equity, NC State University seeks applications from women, minorities, veterans, and individuals with disabilities. ADA Accommodations: please call 919-515-3148.

langerhans@ncsu.edu

OhioU PlantOmics

Assistant Professor of Plant Omics Biology

The Department of Environmental and Plant Biology at Ohio University seeks an individual for a full-time, tenure-track, 9-month assistant professor position beginning August 25, 2014. The successful candidate will be expected to develop an outstanding, externally funded research program in any area of plant omics (e.g., plant genomics, transcriptomics, proteomics, metabolomics, ecological genomics, evolutionary genomics) that involves undergraduate and graduate students and complements ongoing research in the department. The ideal candidate should have considerable experience in plant omics, coupled with expertise in computational, bioinformatic, or statistical analyses. The successful candidate will have a strong relationship with the Ohio University Genomics Facility, which is housed in the department. Primary teaching responsibilities are anticipated to include courses in bioinformatics, statistics and an upper-level undergraduate/graduate course in their area of specialty. The department (http://www.plantbio.ohiou.edu/) consists of

12 full-time faculty, 30 graduate students, and 70 undergraduate majors. Further information about Ohio University can be found at: http://www.ohio.edu. Minimum Qualifications: PhD in plant molecular and cellular biology or a related field and postdoctoral work in plant omics. We seek a candidate with a commitment to working effectively with students, faculty, and staff from diverse backgrounds. Women and minorities are encouraged to apply. Ohio University is an EEO/AA Employer.

To apply, complete and submit an online application (www.ohiouniversityjobs.com) and attach required documents (CV, cover letter, statements of teaching philosophy and research interests/goals, 3 publications representative of your research, contact information for 3 references, and unofficial PhD transcripts).

Please direct questions to Dr. Morgan Vis, Department Chair, vis-chia@ohio.edu. The position remains open until filled. For full consideration, apply by November 17, 2013. Interviews tentatively scheduled for January 2014.

David M Rosenthal Assistant Professor Department of Environmental and Plant Biology 309 Porter Hall Ohio University Athens, OH, 45701 740 593 0792 http://www.plantbio.ohiou.edu/index.php/directory/-faculty_page/david_m_rosenthal/ David Rosenthal <rosentha@ohio.edu>

SaintAnselmC NH EvolutionaryBiol

Saint Anselm College Manchester, NH Assistant Professor of Biology

The Department of Biology invites applications for a tenure-track Assistant Professor position beginning August 2014. A Ph.D. and support of the Colleges mission are required. The successful candidate will teach Comparative Anatomy (with lab), Human Anatomy and Physiology (with lab) and a third course in their specific area of expertise. Continued research activities and mentoring of undergraduates are also integral to this position. Qualified individuals should submit a cover letter and curriculum vitae online at website: http://-www.anselm.edu/hr .Three letters of recommendation should be submitted to Dr. Donald Rhodes, email: drhodes@anselm.edu, no later than December 1, 2013.

Successful candidates will be able to assist the college to further its strategic goals for institution-wide diversity and inclusiveness

keywords: assistant professor, faculty, tenure track, Manchester, NH, Northeast, New England, anatomy, vertebrate evolution, comparative anatomy, physiology

Jay

Dr. Jay Pitocchelli Biology Department Saint Anselm College Manchester, NH 03102

Voice: 603 641 7397 Fax: 603 222 4012 Homepage: http://www.anselm.edu/homepage/jpitocch/-welcome.html Summer 2009 Blog: http://-mourningwarbler.blogspot.com/ Jay Pitocchelli <JPitocch@Anselm.Edu>

SanDiegoStateU EvolutionaryGenomics

FACULTY POSITION IN EVOLUTIONARY GENETICS/GENOMICS DEPARTMENT OF BIOLOGY, SAN DIEGO STATE UNIVERSITY The Department of Biology at San Diego State University invites applications for a tenure track Assistant Professor, beginning in Fall 2014. We seek a creative, productive evolutionary biologist with research strengths in eukaryotic genomics or genetics. We are especially interested in candidates who use innovative experimental, computational and/or comparative approaches. Research area is open to studies of all eukaryotic organisms. Areas of interests include, but are not limited to: comparative genomics, evolutionary genetics, genetic variation and natural selection in natural and model systems, experimental evolution, mechanisms of evolution, and quantitative genetics. Research area is open to studies of eukaryotic organisms either above or below the species level. Preference will be given to those candidates with a central focus in evolutionary biology who also clearly demonstrate cross-disciplinary research programs. The position is open at the Assistant Professor level. Candidates should have a strong record of research accomplishments and funding, postdoctoral experience, demonstrate the ability to establish an active research program that will attract funding from federal agencies such as NSF and NIH, and be committed to undergraduate as well as graduate teaching. Teaching will include participation in our undergraduate Genetics and Evolutionary Biology curriculum, and additional undergraduate and graduate courses in the candidate's areas of expertise. The successful candidate is expected to interact with a diverse

student body and an active group of biology faculty who have research programs in phylogenetic inference and biodiversity, population genetics, molecular evolution, genomics, metagenomics, bioinformatics, cell biology, physiology, developmental biology, microbiology, cardiovascular biology, marine ecology, conservation biology and ecosystem studies/global change. The Biology Department has MS and PhD programs in Evolutionary Biology, Cell and Molecular Biology, and Ecology. The candidate is expected to be a core member of the Evolutionary Biology graduate programs, but preference will be given to those that can also participate in additional programs. Applicants should submit electronically a single pdf comprising a cover letter, a curriculum vitae, statement of research, statement of teaching interest, and three representative publications to evgenomics@mail.sdsu.edu (Andrew Bohonak, Chair, c/o Medora Bratlien). Applicants must request that three letters of recommendation be sent directly to the search committee. Review of applications will begin 16 December 2013, and will continue until the position is filled. Incomplete applications are not guaranteed full consideration. Additional information about this position and three others currently advertised in the SDSU Department of Biology can be found at http://-/www.bio.sdsu.edu/jobs/ . SDSU is an equal opportunity employer and does not discriminate against persons on the basis of race, religion, national origin, sexual orientation, gender, gender identity and expression, marital status, age, disability, pregnancy, medical condition, or covered veteran status. The person holding this position is considered a "mandated reporter" under the California Child Abuse and Neglect Reporting Act and is required to comply with the requirements set forth in CSU Executive Order 1083 as a condition of employment.

Marshal Hedin, Ph.D.

Professor, Department of Biology San Diego State University San Diego, CA 92182-4614

Office: Life Sciences North, Room 204F TEL:619-594-6230 FAX:619-594-5676 Email: mhedin@mail.sdsu.edu Web: http://-marshalhedinlab.com/ mhedin@mail.sdsu.edu

SciLifeLab Sweden 5 Bioinformatics

5 bioinformatics positions at SciLifeLab, Sweden

The bioinformatics platform at SciLifeLab is expanding, now looking for 3 permanent and 2 temporary positions based in Stockholm/Uppsala (Sweden), to join the Wallenberg Advanced Bioinformatics Infrastructure! WABI provides advanced bioinformatics analyses to some of the most scientifically exciting projects across Sweden. Launched in the beginning of 2013, the WABI team currently holds 10 full-time senior bioinformaticians, and has quickly been established as one of the strongest units for analyses of large-scale genomic data in Sweden. WABI has personnel placed both in Stockholm and in Uppsala, and is a central part of the bioinformatics environment at SciLifeLab.

Note! You need to send in your application separately for each of the 3 advertisements below that you are interested in (application transfers are not possible for administrative reasons)!

2 permanent, Uppsala https://-uu.mynetworkglobal.com/en/what:job/jobID:26839/-loginblank:1/checklist:/where:4/XXX 1 permanent, Stockholm http://www.su.se/om-oss/lediga-anstallningar/teknisk-administrativ-personal/-bioinformatikspecialist-1.149825 2 temporary, Stockholm http://www.su.se/om-oss/lediga-anstallningar/teknisk-administrativ-personal/tva-bioinformatikspecialister-1.149861 More information about the positions are provided by the joint groupleaders

Björn Nystedt (Phd), Uppsala bjorn.nystedt@scilifelab.se

Thomas Svensson (PhD), Stockholm thomas.svensson@scilifelab.se

Kind regards Björn Nystedt, Thomas Svensson

Bjorn Nystedt, PhD Facility manager, bioinformatics support (WABI), SciLifeLab www.scilifelab.se www.scilifelab.uu.se Visting address: BMC C6:309a, entrance C5 Husargatan 3, SE-752 37 Uppsala

E-mail: bjorn.nystedt@scilifelab.se Phone: +46 (0)18 471 46 98

bjorn.nystedt@scilifelab.se

StonehillC EvolutionaryBiology

Assistant Professor of Evolutionary Biology

The Biology Department at Stonehill College invites applicants for an assistant professor, tenure-Â'âtrack

appointment in Evolutionary Biology to begin July 2014. This person would join a department of 10 full-Â'âtime faculty with a wide range of disciplinary expertise and a commitment to fostering diversity among faculty and students.

We seek applicants who are committed to excellence in teaching, advising, and mentoring undergraduates in research, and who have a demonstrated awareness of the importance of diversity in education. We are particularly interested in candidates who approach evolutionary questions with ecological and/or bioinformatics approaches. Candidates must hold a Ph.D. (or equivalent) and have postdoctoral research and undergraduate teaching experience. The position involves teaching, advising and directing a productive research program with undergraduates. Primary teaching duties include teaching organismal diversity to first-Â'âyear biology majors, evolution, and an upper-Â'âlevel course in the candidate's area of expertise. Dedicated research space and start-Â'âup funds for research are available.

Founded by the Congregation of Holy Cross in 1948, Stonehill is a private Catholic college located just 22-Â'âmiles from downtown Boston on a beautiful 384-Â'âacre campus in Easton, Massachusetts. With a student to faculty ratio of 13:1, the College engages its 2,500+ students in 80+ rigorous academic programs in the liberal arts, sciences, and pre-Â'âprofessional fields. Stonehill College's mission includes a commitment to fostering social justice.

Interested applicants should submit online a letter of application, curriculum vitae, a statement of teaching philosophy and experience, a brief description of the proposed research plan that includes undergraduates, and undergraduate and graduate transcripts. Three recommendation letters are also required and each should be submitted online by the reference. Submit required documentation via the URL link:

https://jobs.stonehill.edu/ The application deadline is November 1, 2013. Please email inquiries to our administrative assistant Romelle Berry at rberry@stonehill.edu or to Magdalena James-Â'Pederson, Biology Chairperson at mpederson@stonehill.edu

Applicants who will enrich the diversity of the campus community are strongly encouraged to apply. Stonehill College is an equal opportunity employer committed to diversity.

Bronwyn Heather Bleakley, PhD Assistant Professor Stonehill College Department of Biology New Science Center 320 Washington St. Easton, MA 02357 (508)565-1590

bbleakley@stonehill.edu

TexasTechU EvolutionaryEcology

Faculty Position: Assistant Professor of Ecology

Evolutionary Ecology and/or Physiological Ecology

Department of Biological Sciences, Texas Tech University Lubbock, Texas USA

The Department of Biological Sciences at Texas Tech University seeks applicants for a tenure-track Assistant Professorship in Ecology to complement our existing strengths in organismal biology, ecology, evolution, behavior, and systematics. We seek an outstanding ecologist with interests in physiological ecology (plant or animal), evolutionary ecology (including the relationship of genes to structure and/or function), or the integration of these fields within a broad ecological and evolutionary context. Candidates using experimental, comparative, and/or genome-wide approaches to address major questions in any biological system are encouraged to apply. The successful candidate will be expected to supervise an independent research program that will attract extramural funding, provide research training for graduate and undergraduate students, and teach at the undergraduate and graduate levels. Service to the department, college, and university is expected. A PhD in Biology or related field is required.

Application materials should include curriculum vitae, three representative publications, statements of research and teaching interests, and three letters of recommendation. To apply, please go to:

http://jobs.texastech.edu/postings/57894 Application review will begin on Nov 15, 2013 and continue until the position is filled. Questions can be addressed to dylan.schwilk@ttu.edu. For further information about the department and graduate programs, see http://-www.biol.ttu.edu/ . As an Equal Employment Opportunity/Affirmative Action employer, Texas Tech University is dedicated to the goal of building a culturally diverse faculty committed to teaching and working in a multicultural environment. We actively encourage applications from all those who can contribute, through their research, teaching, and/or service, to the diversity and excellence of the academic community at Texas Tech University. The university welcomes applications from minorities, women, veterans, persons with disabilities, and dual-career couples.

Keywords: evolutionary ecology, ecophysiology, animal ecology, plant ecology, physiological ecology, behavioral ecology

"Olson, Matt" <matt.olson@ttu.edu>

Trondheim PopulationGenetics

The Norwegian University of Science and Technology (NTNU) in Trondheim represents academic eminence in technology and the natural sciences as well as in other academic disciplines ranging from the social sciences, the arts, medicine, teacher education, architecture to fine art. Cross-disciplinary cooperation results in innovative breakthroughs and creative solutions with far-reaching social and economic impact.

Faculty of Natural Science and Technology Department of Biology ASSOCIATE PROFESSOR IN BIOLOGY (POPULATION GENETICS)

The Department of Biology, Faculty of Natural Sciences and Technology, at the Norwegian University of Science and Technology (NTNU) announces a vacant position as Associate Professor in population genetics. The Department has at present 21 professors, 7 associate professors, 3 adjunct professors, 18 research scientists, 22 research technicians, 8 administrative staff, 12 postdoc fellows, and approximately 40 research fellows.

Information about the department The main focus for the strategy of the Department of Biology is to understand biological processes of life to preserve the environment. The Department has an interdisciplinary approach to education and research that is deeply rooted in environmental biology, with evolutionary biology as an important link between the different sub-disciplines. The Department of Biology is the host of the Centre for Biodiversity Dynamics (CBD), which is a National Centre of Excellence funded by the Research Council of Norway and NTNU.

Job description One focus area within the Department is to develop integration among research groups within the fields of evolution and ecology. As the understanding of the genetics of populations and how this relates to phenotypic variation manifested in a population dynamics context is pivotal for sustainable resource use in a changing world, it defines an important research area for several prominent groups at the Department. This includes the interdisciplinary Centre for Biodiversity Dynamics, which was recently appointed as a Centre of Excellence (SFF-III) by the Norwegian Research council.

We are searching for candidates with strong theoretical and/or empirical competence in population genetics that can substantially strengthen our research in ecology and evolution. The successful candidate should be able to develop his/her own research program and collaborate with the different research groups at the Department. Preference will be given to conceptually oriented individuals who use theory and/or emerging technologies to quantify the mechanistic and causal connections between genes, function, fitness, population dynamics and evolution.

Qualifications The new faculty member will have responsibility for part of the teaching in population genetics, genetics and evolutionary biology. Teaching competence in these fields is therefore required. The teaching will be at bachelor, MSc and PhD levels, including supervision of MSc and PhD projects. Emphasis will also be placed on teaching and communication skills. Evaluation of the applicant will be based on documented material, including pedagogical training, presentation of academic work, experience from supervision and teaching of MSc and PhD candidates, as well as other related skills. Quality and scope will be evaluated.

Academic staff that is unable to document formal pedagogical qualifications in university-level teaching is required to successfully complete a recognized course that gives a pedagogical qualification in university-level teaching within two years of taking up the appointment. Courses are available at the University.

Applicants short-listed for the position will be invited for interview. A demonstration of teaching ability, usually in the form of a trial lecture, is also required.

The Associate Professor will be jointly responsible for the development of the discipline together with other scientific staff in the department and will also participate in teaching activities, in accordance with the relevant curriculum, and assist in developing the teaching program, including advanced and postgraduate courses. The Associate Professor will also be required to participate in administrative work.

The Associate Professor is required to comply with regulations concerning developments within the discipline and organizational changes at the University.

Newly employed academic staffs who do not already master a Scandinavian language are required to obtain knowledge of Norwegian or another Scandinavian language within three years of taking up the position. This must be of a standard equivalent to Level Three in the Norwegian for Foreigners courses provided by the De-

partment of Linguistics. Courses are available at the University.

Payment - and working conditions The Associate Professor will be required to take up residence in Trondheim or in the relative vicinity.

The appointment will be made in accordance with current regulations

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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

TulaneU TeachingEvolutionaryMarineBiol

Marine and Coastal Sciences*

The Department of Ecology and Evolutionary Biology at Tulane University seeks a full-time, non-tenure-track Professor of the Practice (PoP) beginning fall 2014. The PoP will administer marine biology minors and teach introductory marine biology and other courses in marine and coastal sciences. An earned doctorate in biological sciences or other appropriate field is required. We seek an exceptional individual with a commitment to excellence in undergraduate education. PoPs are appointed for initial three-year, renewable terms. More information about the position can be found at http://tulane.edu/sse/eebio/about/-pop.cfm. To apply, submit a curriculum vitae, statement of teaching philosophy and proposed classes, description of scholarly and teaching interests and experience, and the names and addresses of three references electronically to ecolevol@tulane.edu. Review of applications will begin *November 15, 2013*, and the position will remain open until filled. Tulane University is an Affirmative Action/ Equal Employment Opportunity/ADA Employer committed to excellence through diversity. All eligible candidates are encouraged to apply. This position is subject to final budgetary approval.

– Elizabeth Derryberry, Ph.D. Assistant Professor Department of Ecology & Evolutionary Biology Tulane University New Orleans, LA 70118 504-862-8285 (office) 504-862-8706 (fax) elizabethderryberry.tulane.edu

ederrybe@tulane.edu

UAlabama ComputationalBiol

Tenure-Track Position in Computational Biology Department of Biological Sciences The University of Alabama Tuscaloosa, AL

The Department of Biological Sciences at The University of Alabama is seeking a new tenure-track faculty members 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.

jeffrey.lozier@ua.edu

UAlaskaFairbanks IntegrativeEvolutionaryGeneticist

Faculty position in Integrative Evolutionary Genetics at the University of Alaska Fairbanks

The Institute of Arctic Biology and the Department of Biology and Wildlife at the University of Alaska Fairbanks seek applicants for a tenure-track *faculty position* in *integrative evolutionary genetics* at the Assistant Professor level. Applicants must possess a Ph.D. in the biological sciences or a related field. Postdoctoral and teaching experience, a record of extramural funding, and evidence of the ability to supervise graduate students and collaborate with fellow faculty are preferred.

Outstanding applicants conducting innovative research that integrates evolutionary studies of genotype and phenotype are encouraged to apply. Research areas of special interest include adaptation and natural selection in northern or extreme environments, the evolutionary genetics of development, genomics and bioinformatics, evolutionary theory and population genetics, statistical and quantitative genetics, and the application of next-generation sequencing technologies to research questions in these areas.

Responsibilities will include advising Ph.D. and M.S. students and teaching two semester-long courses at the graduate or undergraduate level per year in evolution or genetics. The successful candidate will have the opportunity to interact and collaborate with approximately 50 faculty studying a diverse array of topics. The Department of Biology and Wildlife has approximately 450 undergraduate and 110 graduate students, including over 50 Ph.D. students.

Numerous field stations, research centers, and laboratory facilities are available (www.iab.uaf.edu/-research/programs.php), including the Bonanza Creek LTER, Life Science Informatics, Core Facility for Nucleic Acid Analysis, R.G. White Large Animal Research Station, Center for Alaska Native Health Research, Animal Quarters, Toolik Field Station, Spatial Ecology Laboratory, Alaska Geobotany Center, University of Alaska Museum, and the Arctic Region Supercomputing Center. Additional details about our faculty and programs are available at the Institute of Arctic Biology website (www.iab.uaf.edu/).

Fairbanks has ready access to incredible outdoor opportunities, and as the second largest population center in Alaska, has unusual cultural, artistic, and recreational opportunities for a community of its size.

Applications must be completed online (at www.uakjobs.com; direct link to position: http:/-/bit.ly/GzwKuk) and should include a curriculum vitae, separate statements of research and teaching, and four letters of recommendation. The position is open until filled, but file reviews will begin 15 October 2013.

Questions can be addressed to Dr. Kevin Winker, kevin.winker@alaska.edu.

*The University of Alaska is an Affirmative Action/Equal Opportunity Employer. *

kswinker@alaska.edu

UArizona EvolutionaryAnthropology

The School of Anthropology (College of Social and Behavioral Sciences) at the University of Arizona invites applications for a tenure-track position at the assistant professor level in biological anthropology, to start August, 2014, contingent upon availability of funding. We seek an outstanding scholar conducting innovative research into questions of human evolutionary significance. Specializations can include, but are not limited to, behavioral ecology of humans and nonhuman primates, physiology, anatomy, life history, genetics/genomics, and evolutionary medicine. While the specific area of work is open, research interests that bridge current strengths in biological anthropology are highly desirable, and applicants should explicitly describe in their cover letter how they envision integrating with the current program in the University of Arizona School of Anthropology. Applicants should have Ph.D. in hand, a strong record of research and publications, and a commitment to teaching and mentoring at the

undergraduate and graduate levels. Evidence of success in generating external funding is desirable.

*The School is seeking an individual who is able to work with diverse students and colleagues, and who has experience with a variety of teaching methods and curricular perspectives. As an equal opportunity and affirmative action employer, the University of Arizona recognizes the power of a diverse community and encourages applications from individuals with varied experiences, perspectives, and backgrounds. *

Requested Documents (submitted via Career Tracks)

- Cover letter (including discussion of research and teaching interests) - Curriculum Vita - Up to three examples of publications - Names and contact information of three references

Duties and Responsibilities

- Maintain an active teaching and research career. - Mentor undergraduate and graduate students. - Teach four courses (undergraduate and graduate levels) per year.

Minimum Qualifications

- Ph.D. in Anthropology, or related field, in hand by August 1, 2014. - A strong record of research. - Prior publication. - Prior teaching experience.

Preferred Qualifications

- Evidence of success in generating external funding is desirable; or, evidence of fundable research. - A strong record of publications. - Evidence of teaching effectiveness and a commitment to mentoring students.

*Department Web: *http://-anthropology.arizona.edu/ *Apply at: *http:/-/www.UACareers.com/53656 < http://-www.UACareers.com/53656%0dhr.arizona.edu/-applicant_resources >

*Job Open Date: 10/09/2013 *

Job Close Date: 12/01/2013

Review Begins: 11/15/2013

Benefits Eligible: Yes

Dan Papaj <papaj@email.arizona.edu>

UCalgary ComputationalBiol

AIHS CAIP Translational Chair in Bio-informatics/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 | Alberta Innovates - Technology Futures New Faculty | Genomics for Ecology and Evolution Research Unit | Biological Sciences, University of Calgary, Alberta, Canada Office: BI379D | Phone: Lab 403.220.7907, Office 403.210.8573, Cell 403.473.3498 | Website: http://people.ucalgary.ca/~srogers/ srogers@ucalgary.ca

UCaliforniaDavis ComputationalPlantEvolution

POSITION ANNOUNCEMENT

Assistant Professor in Plant Sciences V Computational and Statistical Plant Biology Department of Plant Sciences, University of California, Davis

TITLE: Assistant Professor in Computational and Statistical Plant Biology

The Department of Plant Sciences in the College of Agricultural and Environmental Sciences at the University of California Davis invites applications for a 9-month tenure-track faculty appointment at the Assistant Professor level in Computational and Statistical Plant Biology. We seek candidates with a strong background in statistics and/or computational biology working in areas such as bioinformatics, quantitative genetics and genomic selection, systems biology, or ecological, evolutionary, functional, or comparative genomics. In particular we are interested in candidates whose research seeks to develop and apply quantitative methods to interrogate large data sets to improve our understanding of the connection between genotype, phenotype, and the environment. The successful candidate will have a PhD in a related discipline, preferably with postdoctoral experience. She or he will be expected to teach upper division undergraduate and graduate courses in the areas of bioinformatics, statistical analysis, and experimental design; to establish an extramurally funded research program; to mentor and train students and postdoctoral scholars; and to interact with a diverse faculty including plant geneticists, breeders, physiologists, and ecologists. This position will include an appointment in the Agricultural Experiment Station, which includes the responsibility to conduct research and outreach relevant to the mission of the California Agricultural Experiment Station.

QUALIFICATIONS: Ph.D. or equivalent level of experience in Bioinformatics, Computational Biology, Statistics, Quantitative or Populations Genetics or related fields.

SALARY: Commensurate with qualifications and experience.

TO APPLY: Candidates should begin the application process by registering online at http://recruitments.plantsciences.ucdavis.edu/. Please include statements of research and teaching interests, curriculum vitae, publication list, copies of 3 of your most important research publications, copies of undergraduate and graduate transcripts (if within 5 years of either degree), and the names, e-mail addresses, and telephone numbers of at least 4 professional references. For technical or administrative questions regarding the application process, please email bknijjar@ucdavis.edu. Review of the applications will begin December 15, 2013. The position will remain open until filled. Please direct inquiries to:

Dr. Jeffrey Ross-Ibarra, Chair, Search Committee Department of Plant Sciences University of California One Shields Avenue Davis, CA 95616-8515 Telephone: (530) 752-1152 E-mail: rossibarra@ucdavis.edu

The University of California, Davis, and the Department of Plant Sciences are interested in candidates who are committed to the highest standards of scholarship and professional activities, and to the development of a campus climate that supports equality and diversity. The University of California, Davis is an affirmative action/equal opportunity employer with a strong institutional commitment to the achievement of diversity among its faculty and staff. UC Davis is an NSF ADVANCE institution committed to equality and inclusion.

Jeffrey Ross-Ibarra

Dept. of Plant Sciences 262 Robbins Hall, Mail Stop 4 University of California One Shields Ave Davis, CA 95616

Web: www.rilab.org Twitter: @jrossibarra Tel: 530-752-1152 Fax: 530-752-4604

Jeffrey Ross-Ibarra <rossibarra@ucdavis.edu>

UCaliforniaMerced GlobalChangeSciences

The University of California, Merced invites qualified applications for three tenure-track positions as part of

a Global Change Sciences Cluster in the Environmental Systems Graduate Group. The ES Graduate Group brings together a diverse group of faculty, graduate students, and research scholars with a shared interest in interdisciplinary research of natural and human-impacted environmental systems. The ES faculty belong to all three schools of the campus, with representation from the faculty in Engineering (Environmental Engineering, Mechanical Engineering, and Material Science and Engineering), Natural Sciences (Life and Environmental Sciences), and Social Sciences, Humanities and the Arts (Geography/Cognitive and Information Sciences).

Positions include an Assistant Professor in Evolutionary Biology (School of Natural Sciences), an Assistant Professor in Ecological Theory/Modeling (School of Natural Sciences), and an Open Rank Professor in Environmental/Ecological Engineering (School of Engineering). Please consult the job ads for more information and contact information specific to each position.

Ecological Theory/Modeling: http://jobs.ucmerced.edu/n/academic/-position.jsf?positionId=4975 *Evolutionary Biology:* * http://jobs.ucmerced.edu/n/academic/-position.jsf?positionId=4977* *Environmental Engineering:* * http://jobs.ucmerced.edu/n/academic/-position.jsf?positionId=4971* jblois@ucmerced.edu

UCalifornia Merced ConservationBiol

For: University of California, Merced *Title: *Associate/Full Professor in Natural Resource Management of Public Lands and Protected Areas *Job Code:* ASENG4942A *Link:* http://jobs.ucmerced.edu/-n/academic/position.jsf?positionId=4942 *Description:*** The University of California, Merced invites applications for an Associate or Full Professor in Natural Resource Management of Public Lands and Protected Areas. We seek a distinguished scholar who will provide leadership in establishing a program of international stature within the interdisciplinary area of adaptive management of complex coupled human (legal, administrative, economic, cultural) and natural (ecological, climatic, geologic, hydrologic) systems to sustain native species, ecosystems, and landscapes, and to preserve cultural heritage. Appropriate candidates will have distinguished research, educational, and leadership experience that emphasizes science, conservation, social science, and/or management. The ideal candidate will bridge science and management, and will lead efforts to develop interdisciplinary research and education programs at UC Merced associated with science, management, and sustainability of public lands and protected areas. For more information or to apply, visit http://jobs.ucmerced.edu/n/academic/-position.jsf?positionId=4942 AA/EOE. *Requirements:* Ph.D. in a relevant field and exemplary research, publication, and teaching commensurate with a faculty appointment at the University of California at the appropriate level.

– Thank you,

Heather Jackson UC Merced School of Engineering

hjackson2@ucmerced.edu

UExeter MolEvol LabManager

University of Exeter College of Life and Environmental Sciences

Biosciences

Laboratory Manager

Ref. No - P45861

Salary: £24,766 up to £31,331 on Grade E depending on qualifications and experience.

The College of Life and Environmental Sciences is seeking to appoint a full-time Laboratory Manager. This post is available on a permanent basis from 01/12/2013 in the College of Life and Environmental Sciences.

The postholder will be responsible for the day-to-day running of research laboratory working on the genomics and evolution of eukaryotic microorganisms. This work will include supporting research projects, establishing and maintaining microbial cultures, preparing material for second generation sequencing and high-through-put complementation analyses and maintaining the laboratory environment.

Applicants will be educated to degree level (or equivalent experience) in a related field of study and have appropriate experience of working in a similar laboratory environments. Applicants will be able to be confident at a wide range of molecular and microbial laboratory methods, interested in a career in laboratory management and excited by the prospect of working closely with other scientists from postdoc-

toral researchers through to undergraduate project students. For an informal discussion about the post, please feel free to contact Thomas Richards, email t.a.richards@exeter.ac.uk.

The College is working towards department Silver Athena SWAN awards as a commitment to providing equality of opportunity and advancing the representation of women in STEM/M subjects: science, technology, engineering, mathematics and medicine.

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

The University of Exeter is an equal opportunity employer and promotes diversity in its workforce and, whilst all applicants will be judged on merit alone, is particularly keen to consider applications from groups currently underrepresented in the workforce.

The closing time for completed applications is 06/11/2013 and interviews are expected to be held soon after.

For full details see: https://-jobs.exeter.ac.uk/hrpr_webrecruitment/wrd/-run/ETREC107GF.open?VACANCY_ID=-9802078nqU&WVID=3817591jNg&LANG=USA

T.A.Richards@exeter.ac.uk

UGeorgia BioinformaticsCompBiol

Assistant Professor of Bioinformatics or Computational Biology Posted: October 3, 2013 - Closing Date: Until Filled

The Institute of Bioinformatics at the University of Georgia invites applications at the Assistant Professor level for a tenure-track faculty position in bioinformatics or computational biology. We welcome applications from candidates with experience in any area of bioinformatics or computational biology research. The candidate should have a Ph.D. or equivalent degree in the sciences and a strong research record at the interface of computing and life science. The successful candidate will join our highly-active interdisciplinary program in Bioinformatics (http://iob.uga.edu) with a tenure home in one of the following Franklin College Departments: Cell Biology, Computer Science, Genetics, Marine Sciences, Microbiology, Plant Biology, or Statistics (http://www.franklin.uga.edu/-academics/departments.php). The candidate will be expected to maintain a rigorous, externally funded research program and contribute to undergraduate and graduate teaching. To apply, candidates should submit a cover letter, curriculum vitae, copies of their three best publications, and statements of research interests and teaching philosophy (no more than 4 pages total) as a single PDF file to https://www.franklin.uga.edu/-jobs/. Three letters of recommendation should be uploaded separately to the same web site. The committee will begin reviewing applications on November 1, 2013, and continue until the position has been filled. The Franklin College of Arts and Sciences, its many units, and the University of Georgia are committed to increasing the diversity of its faculty and students, and sustaining a work and learning environment that is inclusive. Women, minorities and people with disabilities are strongly encouraged to apply. The University is an EEO/AA institution. Georgia is well known for its quality of life in regard to both outdoor and urban activities. The University of Georgia, the oldest state-chartered university in the United States, is a land/sea grant institution located in the city of Athens (http:/-/visitathensga.com/), 70 miles northeast of Atlanta.

jkissing@uga.edu

UGroningen SeychellesWarbler DatabaseCoordinator

Seychelles warbler database co-ordinator (1,0 fte)

Vacancy number T027213

Job description

The Seychelles warbler project was established in 1985 by Prof. Jan Komdeur to collect data on individual Seychelles warblers, over their entire lifetime. This has resulted in an extremely detailed individual-based dataset, which is stored in a professionally designed Microsoft Access database. The database is used by members of the Seychelles warbler group (Masters & PhD students, technicians, postdocs and PIs) who are based at the University of Groningen (The Netherlands), University of East Anglia (UK) and University of Sheffield (UK). The database co-ordinator will be responsible for maintaining this Access database. The co-ordinator will liaise with the database designer to implement database improvements. The co-ordinator will produce Access queries to error check the database, enter data into the database, and manage and curate the exist-

ing field data. The successful applicant will liaise with group members over database requirements and support their requests to build queries and extract data. The database co-ordinator will continuously monitor and check the progress of the database maintenance. The project is designed as a 1-year technician position. The close collaboration between researchers on the Seychelles warbler project provides a unique opportunity to gain detailed biological knowledge of a long-term cooperative breeding system.

Research group The database co-ordinator will be co-supervised by Prof. Jan Komdeur (University of Groningen), Dr David Richardson (University of East Anglia, UK), Dr Hannah Dugdale (University of Sheffield, UK) and Prof. Terry Burke (University of Sheffield).

Requirements

Qualifications and experience: - Bachelors degree biology - experience and working knowledge of Microsoft Access is essential - field experience of observing colour-ringed birds and mist-netting is desirable.

Management skills: - ability to organise, manage and analyse large datasets - proven ability to plan and prioritize work and to work to and meet deadlines - strong commitment to excellence in research.

Team working: - ability to work as part of a team and undertake instruction.

Communication skills: - effective communication skills; good command of the English language (oral and written) - excellent customer service skills, with experience of responding efficiently and effectively to enquiries.

Problem solving and decision making: - ability to develop creative approaches to problem solving; creativity, curiosity, and ambition - ability to implement new methods and ideas.

Project management: - proven ability to efficiently manage and deliver on multiple parallel projects.

Personal effectiveness: - excellent organisational and interpersonal skills; ability to work in a team consisting of scientists, students and technical assistants with different backgrounds.

Conditions of employment

The University of Groningen offers a gross salary depending on qualifications and experience, ranging between ? 2,026 (scale 7, number 0) gross per month, up to a maximum of ? 2,736 (scale 7, number 10) gross per month for a full-time database co-ordinator job. This position is defined according to the UFO function profile 'Onderwijs-onderzoeksmedewerker, met aanvullend profiel Ontwikkelaar ICT'. After the first six months there is an assessment interview; continuation of the project for the next six months is dependent on successful performance during the first six months.

Starting date: The preferred starting date is 1 January 2014. The position will be filled as soon as suitable candidates have been found.

This vacancy is opened up in the framework of the Projectenbank, one of the projects of Talent Travel. This means that internal candidates with permanent employment can apply and, in consultation with their supervisor can use the ability to fulfill this function temporarily from their current employment and thus to broaden and develop their talents. Read more about the conditions of participation.

Application You can apply for this job before 15 November 2013 Dutch local time by means of the application form (click on "Apply" below on the advertisement on the university website) including a letter of motivation outlining your fit for the post, a curriculum vitae, a list of examination marks, a publication list, and the names and addresses of three academic or relevant employer referees who are willing to provide letters of reference (upon request).

Acquisition is not appreciated.

Organisation

This research project is based at the Behavioural Ecology and Self-organization (BESO) Group, Centre for Ecological and Evolutionary Studies, University of Groningen (The Netherlands). The research is funded by a TopGrant (ALW-TOP/11.017) allocated to Prof. Jan Komdeur from the Netherlands Science Foundation (NWO).

Additional information

— / —

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

UIllinois GenomicsBioinformatics

Genomics and Bioinformatics University of Illinois at Urbana-Champaign

The School of Integrative Biology at the University of Illinois at Urbana-Champaign invites applications for a

full-time, nine-month, tenure-track assistant professor position in genomics and bioinformatics of eukaryotes. We are particularly interested in candidates with strong research programs in comparative genomics, population genomics, or gene networks. Candidates must have a PhD or equivalent in a relevant field, and postdoctoral experience is desirable. The successful candidate will be expected to develop an externally-funded research program, teach at undergraduate and graduate levels, and collaborate with other faculty both within SIB and elsewhere on campus to develop research initiatives in genomics and bioinformatics. The candidate will be housed in one or more of the departments of Animal Biology, Plant Biology, or Entomology. Target start date is August 16, 2014. Salary will be commensurate with experience.

The University of Illinois at Urbana-Champaign is a public land-grant university with more than 40,000 students and provides a highly collaborative and supportive academic environment. Opportunities for interactions exist with genomicists and bioinformaticians across campus including at the Institute for Genomic Biology, the National Center for Supercomputing Applications, and the Departments of Computer Science and Statistics, as well as our Masters in Bioinformatics graduate program. Support facilities include the KECK Center for Comparative and Functional Genomics and the High-Performance Biological Computing Center in the Roy Carver Biotechnology Center (http://www.biotech.uiuc.edu/).

To ensure full consideration, please create your candidate profile throughhttp://go.illinois.edu/-GenomicsBioinformatics and upload your application letter, curriculum vitae, summary of research and plans, teaching philosophy and experience, and contact information (including e-mail addresses) for three professional references by November 29, 2013. After a review of the candidate's record, the search committee may then contact the applicant about soliciting letters of reference.

Applicants may be interviewed before the closing date; however, no hiring decision will be made until after that date. For further information contact Genomics and Bioinformatics Search Chair, sib@life.illinois.edu.

Illinois is an Affirmative Action /Equal Opportunity Employer and welcomes individuals with diverse backgrounds, experiences, and ideas who embrace and value diversity and inclusivity. (www.inclusiveillinois.illinois.edu).

alisonmb@illinois.edu

UIllinois MathematicalBiol

It's not obvious from the job description, but the Department of Mathematics at the University of Illinois is looking to hire (among other things) mathematicians who study/think about biological phenomena. ?This is to go along with our newly developed BioMath program. ?Here's the ad below.

Position Description UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN DEPARTMENT OF MATHEMATICS ASSISTANT/ASSOCIATE PROFESSOR POSITIONS

Applications are invited for one or more full time faculty positions to commence approximately August 16, 2014 at the tenure-track (assistant professor) level and tenured (associate professor) level. In exceptional cases the department will consider a tenured appointment (associate professor) for those who have applied for only the tenure-track position. The department is interested in applicants in all areas of mathematics. Salary and teaching load are competitive.

Assistant position applicants must have a Ph.D. (or equivalent) at time of appointment, and are expected to present evidence of excellence in research and teaching. In exceptional cases the department will consider a tenured appointment (see associate professor ad at https://www.mathjobs.org/jobs/jobs/5068 for details). Applications should be submitted electronically through https://www.mathjobs.org/jobs/jobs/5069 A complete application must include the AMS Standard Cover Sheet for Academic Employment, curriculum vitae including email address, a publication list, a research statement, and the names and contact information for three professional references. An additional reference addressing teaching is strongly recommended. It is strongly suggested that reference letter writers upload their letters before the deadline.

Associate position applicants must have a Ph.D. (or equivalent) in hand and present documented evidence of leadership in research and excellence in teaching. Applications should be submitted electronically through https://www.mathjobs.org/jobs/jobs/5068 A complete application must include the AMS Standard Cover Sheet for Academic Employment, a curriculum vitae with a list of publications, and the names and contact information of three professional references. Candidates may include a research statement. It is strongly

suggested that reference letter writers upload their letters before the deadline. Applicants are requested not to provide more than three references at this time. The department will solicit additional letters of reference for the finalists for the tenured position following the University?s procedures for promotion and tenure. Reference letter writers should submit their letters online through http://mathjobs.org/ If they are unable to do so, they may send their letters to the following address: Search, Department of Mathematics, University of Illinois at Urbana-Champaign, 1409 West Green Street, Urbana, IL 61801, USA; tel: (217) 333-3351 search@math.uiuc.edu. Complete applications must be received by November 18, 2013. Late applications cannot be considered. Applicants may be interviewed before the closing date; however, no hiring decision will be made until after the closing date of November 18, 2013. Illinois is an Affirmative Action /Equal Opportunity Employer and welcomes individuals with diverse backgrounds, experiences, and ideas who embrace and value diversity and inclusivity. (inclusiveillinois.illinois.edu)

fuller@life.illinois.edu

ULausanne Bioinformatics

Full time Bioinformatician in the Department of Ecology and Evolution

The University of Lausanne is a place of teaching and research with around 12'000 students and almost 3'700 collaborators, professors and researchers. Ideally located on the shore of Lake Geneva and near Lausanne city center, its campus harbors 120 different nationalities.

To complete its bioinformatic resources, the Department of Ecology and Evolution, which includes more than 20 research groups (www.unil.ch/dee), is seeking a:

Full time Bioinformaticien

Start date: 01.12.2013 (open to discussion). Contract length: 1 year, with possibilities to be renewed

Your role This position will lead you to: - Develop and maintain the existing resources in bioinformatics - Manage programming of new algorithms used in genomics/proteomics - Advise the members of the Department in all aspects of bioinformatics - Follow the new developments in the fields of genomics and bioinformatics in general - Collaborate and maintain a close relationship with the Swiss Institute of Bioinformatics - Contribute to the bioinformatic analyzes done in the Department - Analyze requirements and propose pragmatic solutions - Be the link between bioinformatics with evolutionary biology in the Department - Implement the relevant databases for the analysis of genomic data

Your profile We want to hire someone with the following qualities: - Higher education in Bioinformatics (Master level) - Minimum 2 years experience in the above area - Proactivity and sense of initiative - Results orientation and solution with real requirement on the quality of work - Dynamic and self-develpment - Ability to work on different projects simultaneously - Capacity Analysis, modeling and synthesizing issues and solutions - Good communication skills and listening - Strong organizational and manage priorities

Your benefits - A pleasant working environment in a multicultural and diverse academic setting. - Opportunities for training. - Easy access to a sports center on the University campus. - A position in a dynamic environment at the forefront of the research in biology.

For more details, please contact Nicolas Salamin Department of Ecology and Evolution University of Lausanne Email: nicolas.salamin@unil.ch Tel: +41 21 692 4154

Deadline for applications: 27.10.2013

The full application (including a detailed CV, motivation letter, copies of diploma and work certificates in a single file) should be uploaded as a word or pdf document at the following site: https://recruitingapp-2644.umantis.com/Vacancies/612/Description/3 nicolas.salamin@unil.ch

UMaryland BaltimoreCounty TeachingEvolution

The Department of Biological Sciences at the University of Maryland, Baltimore County (UMBC) seeks to recruit two full-time lecturers, one of which will teach Introductory Biology including ecology and evolution.

General Biology: The successful candidate will teach introductory biology for majors, covering topics in basic cellular and molecular biology, genetics, physiology, ecology and evolution. The candidate will also teach a core laboratory course for biology majors that provides skills needed for upper division laboratory courses.

Physiology: The successful candidate will teach an upper division course and its companion upper level laboratory course in Animal Physiology. The candidate will also teach a required introductory course in general biology for allied health majors.

Successful candidates will have a Ph. D. in a relevant area (or areas) of biological sciences and experience in college-level teaching that includes both regular and laboratory courses. In addition, both candidates must have experience with current methods for encouraging student engagement and for the assessment of student learning outcomes.

UMBC is a medium-sized research university in the Baltimore-Washington D.C. area, whose combined excellence in research and outstanding educational programs have earned recognition by US News and World Report as the "#1 Up-and-Coming National University". The university has also been recognized for its strong commitment towards the inclusion of women and students from diverse ethnic backgrounds. For information about the Department of Biological Sciences and its education programs, visit http://biology.umbc.edu . Applicants should submit a cover letter indicating the position of interest, curriculum vitae, summary of current teaching philosophy and future teaching interests and at least three letters of reference. All materials should be sent, preferably in PDF format, to biosearch@umbc.edu. Review of applications will begin on November 15, 2013 and continue until the position is filled, with an expected start date of Aug. 1, 2014.

The University of Maryland Baltimore County is an Affirmative Action/Equal Opportunity Employer. UMBC values gender, ethnic, and racial diversity; women, members of ethnic minority groups, and individuals with disabilities are strongly encouraged to apply.

Tamra Mendelson Associate Professor Department of Biological Sciences University of Maryland Baltimore County tamram@umbc.edu - 410-455-2267 http://biology.umbc.edu/directory/faculty/mendelson/
Tamra Mendelson <tamram@umbc.edu>

UMelbourne InsectGenomicsBioinformatics

BIOINFORMATICIAN: INSECT COMPARATIVE GENOMICS

Department of Genetics Faculty of Science The University of Melbourne Australia

Salary: $61,138* - $82,963 p.a. (*PhD entry level: $77,290 p.a.) plus 9.25% superannuation

This two-year Postdoctoral Research Fellowship will employ a person to carry out comparative and evolutionary studies of insect genomes. The fellow will join a collaboration between Dr Charles Robin (CR: Department of Genetics, University of Melbourne) and Dr Lars S Jermiin (LSJ: CSIRO Ecosystem Sciences).

In this role you will be employed by the University of Melbourne but physically located at CSIRO Ecosystem Sciences (Black Mountain Laboratories, Canberra, ACT, Australia), where you will be a member of the Bioinformatics & Phylogenomics Team (led by LSJ). The position will report to both CR and LSJ.

The focus of your research will be to develop and use bioinformatics tools to compare insect genomic, transcriptomic, and proteomic data in an evolutionary context with the aim to strengthen our understanding of how insect genomes and the corresponding gene products (e.g., the enzymes, metabolic pathways, etc.) have evolved and adapted to changing climates and/or habitats.

Employment Type: Full time (fixed term) position available for two years

Enquiries only to: Charles Robin, Tel +61 3 8344 2349, crobin@unimelb.edu.au OR Lars Jermiin, Tel +61 2 6246 4043, lars.jermiin@csiro.au

Close date: 10 November 2013 For position information and to apply online go to http://hr.unimelb.edu.au/-careers/, click on 'Search for Jobs' and search under the job title or job number 0032208.

Angela Efremidis <angela.efremidis@unimelb.edu.au>

UMiami Bioinformatics

Bioinformatician/Molecular Core Facility Supervisor

The University of Miami seeks a Bioinformatician with expertise in computational biology and development and analysis of next-generation sequencing (NGS) datasets to join our integrative Biology Department, which pursues functional studies of genotype and phenotype, development and neuroscience, evolutionary population genomics and statistical and quantitative genetics (http://www.as.miami.edu/biology/).

Qualifications: Ph.D. degree in biological or computational sciences and three years relevant research experience. We seek a Bioinformatician with experience analyzing next-generation sequencing data (e.g., RNA-Seq, Sequence Capture, RAD-Seq, or de novo whole genome). Capability with UNIX and understanding of scripting languages such as Perl or Python and programming languages (e.g., C++, SQL, PHP) are required. Familiarity with bioinformatics workflows and pipeline development is essential. Experience in a molecular genetics lab and preparing customized Illumina or other types of next-generation sequencing libraries is highly desirable.

Duties: The individual will be responsible for oversight and development of the department's computational biology and genome analysis program in our Molecular Core Facility. In addition to independent research, duties include collaborative work with faculty including training and mentoring graduate and undergraduate students, developing NGS sequencing protocols and bioinformatics workshops, compiling and interpreting results and collaborating on proposals and publications. Additional duties include supervising equipment use in the facility.

This is a full-time, twelve-month research professional position. Salary is competitive and commensurate with qualifications. Send application materials, including letter of application, CV, and 3 letters of reference by email to bioinformatician@bio.miami.edu. Address questions to kmccrack@bio.miami.edu. Application review will begin January 2, 2014 and continue until position is filled.

The University of Miami is an affirmative action, equal opportunity employer committed to expanding the diversity of its faculty. Women, persons with disabilities, and members of other underrepresented groups are encouraged to apply.

Kevin G. McCracken Kushlan Chair in Waterbird Biology & Conservation Department of Biology & Rosenstiel School of Marine and Atmospheric Sciences University of Miami Coral Gables, FL 33146, U.S.A. Tel. +1 (305) 284-3973 email: kmccrack@bio.miami.edu

kmccrack@bio.miami.edu

UMichigan EvolutionaryEcology

Ecology or Evolutionary Ecology V University of Michigan Faculty Position

The Department of Ecology and Evolutionary Biology at the University of Michigan seeks applicants for an assistant professor (tenure-track) position in ecology or evolutionary ecology. This is a university-year appointment with an expected start date of September 1, 2014. We seek applicants with a strong field component in her or his research program. We welcome applicants who work in any of the planets major ecosystems but are especially interested in individuals who will leverage the facilities available at the University of Michigan, including world class biodiversity collections (e.g., birds, fishes, etc., at the Museum of Zoology), a local field research facility (the Edwin S. George Reserve), and a large educational and research facility in northern Michigan (the University of Michigan Biological Station). Museum curatorial activities may replace some teaching duties for appropriate candidates.

Applications should include a cover letter, CV, a concise statement describing your current and future plans for research, a statement of your teaching philosophy and experience, and evidence of teaching excellence (if any). Include names of three references.

To apply, please see www.resources-eeb.lsa.umich.edu/eebsearch13/application.php. Review of applications will begin on November 22, 2013 and continue until the position is filled. Women and minorities are encouraged to apply and the University is supportive of the needs of dual career couples. The University of Michigan is an equal opportunity/affirmative action employer.

Dan Rabosky <drabosky@umich.edu>

UMississippi EcolEvolutionaryPhysiology

Ecological and Evolutionary Physiology

The Department of Biology at The University of Mississippi invites applications for a tenure-track Assistant Professor position in ecological and evolutionary physiology from individuals whose research focuses on the evolution of physiological or morphological mechanisms and their relationships to the biotic or physiochemical environment. Areas of interest include, but are not limited to, life history, behavior, biomechanics, endocrinology, and molecular evolution. Applicants must have a PhD in a relevant field, postdoctoral experience and a

strong publication record. The successful candidate will be expected to establish an active, externally funded research program, and to teach courses that include physiology at the undergraduate and graduate level.

The Department of Biology consists of an engaging mix of faculty (19), instructors (11), postdoctoral researchers (3), and graduate students (42 M.S. and Ph.D.), and is one of the largest undergraduate majors (900 students) at the University. Our research interests span levels of biological organization from the gene to the ecosystem, and include plants, animals, protists, fungi, and bacteria as subjects of study. Additional information about the department is available at http://olemiss.edu/depts/biology. The University of Mississippi is located in Oxford, Mississippi, a vibrant community known for its small-town southern charm and outstanding educational and cultural opportunities.

To apply, visit jobs.olemiss.edu. Applications should include: (1) cover letter outlining your interest and suitability for the position, (2) curriculum vitae, (3) 1-2 page statement of research interests, (4) 1-2 page statement of teaching experience and interests, including a list of potential graduate and undergraduate courses, and (5) names and contact information for three references. Review of applications will begin immediately and continue until the position is filled or an adequate applicant pool is established. The anticipated starting date is August 16, 2014. Questions about the position may be addressed to Dr. Stephen Threlkeld, Chair, Ecological and Evolutionary Physiology Search Committee (stt@olemiss.edu, 662-915-7203). The University of Mississippi is an EEO/AA/TITLE IX/SECTION 504/ADA/ADEA EMPLOYER. Minorities, women, veterans, and persons with disabilities are encouraged to apply.

Ryan Garrick Department of Biology 508 Shoemaker Hall University of Mississippi University, MS 38677-1848, USA

webpage: http://www.rcgarrick.org< http://www.rcgarrick.org/ >

rgarrick@olemiss.edu

UNewMexico QuantitativeEvolEcol

Quantitative Ecologist The University of New Mexico Department of Biology

The Department of Biology at the University of New Mexico invites applications for a full-time, tenure-track probationary appointment in quantitative ecology at the Assistant Professor level, beginning in Fall 2014.

Minimum Qualifications include a Ph.D. and post-doctoral experience in ecology or a related discipline by the start of the position. For complete details or to apply, please visit: https://unmjobs.unm.edu/ and reference the posting number 0822368. Best consideration date is November 1, 2013. Review of applications will commence on November 2, 2013. The position will remain open until filled.

Preferred Qualifications: We are particularly interested in ecologists who use quantitative methods to develop ecological theory and address research questions at larger spatial or temporal scales in terrestrial or aquatic systems. The successful candidate will demonstrate excellence in research as evidenced by pre- and post-doctoral work; have a strong publication record in peer-reviewed journals; be committed to establishing an internationally recognized and externally funded research program in the general areas of theoretical, quantitative, or spatial ecology (e.g. Landscape Ecology, Ecological Modeling, Macroecology). Preference is given to candidates whose research and teaching areas complement existing strengths in the Department of Biology. The successful candidate will demonstrate a commitment to excellence in teaching at the undergraduate through graduate level in a minority majority institution and show enthusiasm for working in a broadly collaborative biology department with diverse research strengths.

To apply, applicants must submit a letter of interest, curriculum vitae, three recent publications, statements of research and teaching interests, and a list of names and contact information of five referees. All materials must be submitted directly to https://unmjobs.unm.edu/ by the best consideration date.

Questions can be directed to Dr. Scott Collins (scollins@sevilleta.unm.edu).

The University of New Mexico is an Equal Opportunity/Affirmative Action Employer and Educator. Women and underrepresented minorities are encouraged to apply.

Thomas Turner, Ph.D. Professor and Curator of Fishes Department of Biology and Museum of Southwestern Biology MSC03-2020 University of New Mexico Albuquerque, NM 87131 USA

Voice: 505.277.7541 FAX: 505.277.0304 Email: turnert@unm.edu

Thomas Turner <turnert@unm.edu>

UNotreDame EvolutionDiseases

The College of Science and Eck Institute for Global Health at the University of Notre Dame are seeking candidates for two tenure track Assistant/Associate Professors in Disease Epidemiology.We are particularly interested in candidates with research interests and a demonstrated record in investigating the epidemiology, population dynamics, and control of infectious diseases from a global perspective with focus in low and middle income countries. All areas of infectious disease will be considered, but preference will be given to specific research interests including: infectious disease modeling and surveillance that leverages large, heterogeneous data sets; epidemic modeling; genomic and evolutionary epidemiology; vector-borne and/or zoonotic diseases; neglected tropical diseases, risk factor investigation; environmental health; or modeling within-host immunity and pathogen/disease dynamics. Individuals with interest or experience in establishing a strong international research program are particularly encouraged to apply. The successful candidate will join a dynamic and exciting interdisciplinary campus-wide initiative in quantitative and computational biosciences, including the evolutionary genomics of pathogens and hosts.

Successful candidates will be appointed in either the Department of Biological Sciences (http://-biology.nd.edu) or the Department of Applied and Computational Mathematics and Statistics (http://-acms.nd.edu) in the College of Science, and will be expected to establish a vigorous extramurally supported research program, participate in collaborations within and across disciplines, and contribute to excellence in undergraduate and graduate education. Senior applicants should have a record of national and international distinction. Both positions will have access to state-of-the-art institutes and facilities to support research including the AAALAC-accredited Freimann Animal Facility, Notre Dame Integrated Imaging Facility, Center for Zebrafish Research, Harper Cancer Research Institute, Keck Center for Transgene Research, Center for Rare and Neglected Diseases, Lizzadro Magnetic Resonance Research Center, Center for Research Computing, Environmental Change Initiative, and core facilities for proteomics, genomics and bioinformatics. Additional information can be found at http://research.nd.edu/core-facilities/ . The positions include competitive salary, start-up funding, and research space. Applicants should upload a cover letter, curriculum vitae, a detailed research plan, and a statement of teaching interests directed to Dr. David Severson, Search Committee Chair and Director of the Eck Institute for Global Health (https:/-/academicjobsonline.org/ajo/jobs/3337). Candidates should arrange to have at least three letters of recommendation sent directly to the search committee via the application website. Review of applications will commence immediately and will continue until suitable candidates are identified.

/The University of Notre Dame is an equal opportunity employer with a strong institutional and academic commitment to diversity and endeavors to foster a vibrant learning community animated by the Catholic intellectual tradition./

Mike Ferdig Eck Institute for Global Health University of Notre Dame ferdig.1@nd.edu

Michael Ferdig <mferdig@nd.edu>

UOxford Modelling

Fellowship in Global Ecosystem Modelling Department of Computer Science, University of Oxford Fixed term contract for up to 2 years Grade 7: £29,541 - £36,298 p.a.

We are looking for a highly motivated researcher with a documented track record of successful research projects and a desire to do interdisciplinary research. This 2 year post-doctoral position will focus on global ecosystem modelling, and will specifically work with our collaborators at Microsoft Research to improve and extend the Madingley model (http:/-/www.madingleymodel.org/about.html) and begin to solidify a new collaboration with the Moorea Avatar Project, an effort to model an entire tropical island, from microbes to reef to humans. The research will be carried out under the supervision of Professors David Gavaghan and Dawn Field (OeRC).

Candidates who have a doctorate in a relevant discipline and experience in scientific computing, software development and ecology are particularly sought; however, exceptional candidates in all areas will be considered. Excellent programming and statistical skills are essential, as is experience of working with large-scale

data sets. You will be expected to produce leading scientific research, publish results in top scientific journals, and interact closely with other members of the group and group collaborators.

The post is available for up to 2 years, has a salary on the University grade 07S scale (currently £29,541 to £36,298), includes membership of the University pension scheme and has an annual leave entitlement of 38 days per year (inclusive of all public holidays and university closed periods). Requests to work on a part time or flexible basis will be considered.

Further details of the post, including the selection criteria and method of application are available from:

https://www.recruit.ox.ac.uk/pls/hrisliverecruit/-erq_jobspec_version_4.jobspec?p_id=110491 The closing date for applications is 12 noon on 21 November 2013.

Jennifer Wilkinson Project Manager

University of Oxford Department of Computer Science Wolfson Building Parks Road Oxford OX1 3QD

+44(0)1865 610782

*Please note, I am only in the office on Thursdays and Fridays.

http://www.2020science.net< http://www.2020science.net/ >

https://twitter.com/science2020 Jennifer Wilkinson <jennifer.wilkinson@cs.ox.ac.uk>

USalzburg PlantEvolution

The working group Ecology, Biodiversity and Evolution of Plants at the Department of Organismic Biology, University of Salzburg, Austria, invites applications for an Assistant Professor (tenure track) position available from March 1st 2014. The appointment will be made for six years with the possibility of promotion to a permanent position as Associate Professor. The position will focus on Plant Ecology, Biodiversity and Evolution using molecular, experimental, and / or biochemical approaches. The successful applicant should have an excellent research experience and publication record and also experience with teaching and grant acquisition.

The successful applicant is expected to have a PhD in Biology and experience in modern molecular methods (e.g., next generation sequencing technologies) applied to current questions in ecology and/or evolutionary biology. It would also be of advantage to have experience in field/glasshouse experiments in conjunction with genomics (functional adaptive) and / or chemical-ecological analyses. The successful candidate will teach courses (usually in German) in plant ecology, biodiversity and evolution (4 hrs per week and semester) and supervise undergraduate as well as graduate students. She/he is expected and will be assisted to develop new projects and secure funding as independent investigator. Commencing salary (before tax) will be in accordance with a qualification agreement and euro 4.004,70 per month (14 x per annum) [or euro 3.381,70 per month (14 x per annum) in case this agreement is not yet concluded at the time of appointment].

Applications (in German or English) should include a letter of motivation describing the qualifications and research interests, a CV, a list of publications, an overview of teaching experience, and a statement of future research and teaching activities. The documents should be sent to the president of the University of Salzburg, Univ.-Prof. Dr. Heinrich Schmidinger, Serviceeinrichtung Personal, Kapitelgasse 4, 5020 Salzburg, Austria. The closing date for applications is October 23, 2013. For additional information, see www.uni-salzburg.at, Karriere & Jobs, or contact Univ.-Prof. Dr. Hans Peter Comes (peter.comes@sbg.ac.at) or Univ.-Prof. Dr. Stefan Dötterl (stefan.doetterl@sbg.ac.at).

Prof. Dr. Hans Peter Comes Department of Organismic Biology Chair of Plant Evolution, Systematics, and Diversity University of Salzburg Hellbrunnerstrasse 34 A-5020 Salzburg Austria

Phone: ++43 (0)662 8044 5505 FAX: ++43 (0)662 8044 142 e-mail: peter.comes@sbg.ac.at

Comes Hans Peter <Hans-Peter.Comes@sbg.ac.at>

UWyoming CollectionsManager

Vertebrate Collections Manager - University of Wyoming

Essential Duties The University of Wyoming seeks a Collections Manager to oversee the Vertebrate Collections housed in the Robert and Carol Berry Biodiversity Conservation Center. Duties include, but are not limited to: coordinating activities for the center following all federal, state and center policies; collecting and

preparing specimens; obtaining and maintaining necessary collecting permits and filing permit reports; training and supervising students and temporary employees in specimen preparation and curatorial methods; overseeing data cataloging; processing specimen loans and exchanges; assisting in collection-related grant proposal preparation; contributing to Berry Center education and outreach programs. Opportunities are possible for research in collaboration with Berry Center staff.

Minimum Qualifications A Master's degree in biology or a related natural science field from an accredited university PLUS experience working with vertebrate collections OR an equivalent combination of education and experience is required.

Knowledgeable of and experienced in vertebrate curatorial techniques.

Strong organizational, interpersonal, written and verbal communication skills.

Preferred Qualifications A PhD in biology or a related natural science field from an accredited university.

Experience organizing and leading museum expeditions.

Experience with Arctos.

Required Materials Complete online application (visit https://jobs.uwyo.edu - search for job ID: 5973), resume/CV, a letter of application outlining vertebrate curatorial experience and contact information for three work-related references.

Deadline Review of applications will begin on 23 October 2013, which means that applications must be submitted by midnight on 22 October 2013.

Please contact Matt Carling, mcarling [at] uwyo.edu < http://uwyo.edu/ > with any questions.

Matt Carling Asst. Professor Department of Zoology & Physiology Berry Biodiversity Conservation Center University of Wyoming

www.carlinglab.com 307.766.6169

mcarling@uwyo.edu

VirginiaInstMarineSci FishEvolutionaryEcology

Position Announcement

Assistant Professor in Organismal Fish Evolutionary Ecology

The Virginia Institute of Marine Science (VIMS) has a three-part mission to conduct interdisciplinary research in coastal ocean and estuarine science, educate students and citizens, and provide advisory service to policy makers, industry, and the public. The School of Marine Science (SMS) at VIMS is the graduate school in marine science for the College of William & Mary. Chartered in 1940, VIMS is currently among the largest marine research and education centers in the United States. VIMS employs approximately 60 full-time faculty members, more than 250 staff, and enrolls approximately 100 graduate students in masters and doctoral programs. VIMS consists of four collaborative, interdisciplinary academic departments: Biological Sciences, Environmental and Aquatic Animal Health, Fisheries Science and Physical Sciences. Further information on VIMS and the SMS may be accessed online at: www.vims.edu Assistant Professor in Organismal Fish Ecology: We invite applications for a tenure-eligible Assistant Professor position in the Department of Fisheries Science. The position will begin in summer 2014.

Qualifications: The successful candidate will hold an earned doctorate (Ph.D.) or similar terminal degree at the time of the appointment in an area applicable to organismal fish ecology. Postdoctoral experience is preferred. Candidates must have a strong publication record commensurate with experience, the potential to maintain an active research program, and the ability to provide quality graduate student teaching and mentoring. Candidates with research interests in the broad area of organismal fish ecology, inclusive of behavioral, physiological, reproductive, and evolutionary ecology, as well as food web interactions and fish movements, are encouraged to apply. Preference will be given to candidates that employ field and/or laboratory approaches to the study of fish ecology.

Responsibilities: The successful candidate will develop and maintain an active research and publication program, advise graduate students and teach courses including but not limited to fish ecology and marine fisheries science. In addition, the candidate will be expected to participate in College and VIMS/SMS governance, and engage in advisory service activities in support of fisheries management at local regional, national, and/or international levels.

The Department of Fisheries Science includes faculty with diverse expertise in biology and status of fishes, molluscs, and crustaceans in both estuarine and marine environments. Areas of study include fisheries population dynamics, stock assessment, recruitment dynamics, evolution and systematics, food-web dynam-

ics, molecular biology, physiology, conservation ecology, deep-sea ecology, and fisheries policy. There is a high level of interdisciplinary synergy applied to resource management needs in the face of complex environmental issues and challenges.

Application materials: for the positions listed above should include: 1) a cover letter describing professional education, experience, and suitability for the position; 2) a full curriculum vitae; 3) research statement; 4) teaching statement; and 5) the names, addresses (including titles and institutions), email addresses, and telephone numbers of five references.

Application materials should be addressed to the Chair of the Organismal Fish Ecologist Search Committee, and will be accepted through our On-Line Application System at http://jobs.wm.edu. For full consideration, application materials are due December 1, 2013; however, applications will be accepted until the position is filled.

The College is an equal opportunity/affirmative action university and conducts background checks on applicants for employment. Applications by persons from under-represented groups are strongly encouraged.

WashingtonStateU ParttimeInstructor

Dear Colleagues

Washington State University's Vancouver campus is searching a part-time adjunct instructor to teach two sections of our upper level evolution course Spring semester 2014 (Jan. 13-May 13). We will provide a syllabus, though modifications that build on an individual's research strengths are welcome. Expected class size for each section is 40.

Biology 403: Evolutionary Biology. 3 credits. Course Prerequisite: Biology 301 (Introduction to Genetics). Survey of evidence for evolution and operation of evolutionary processes that influence adaptation, diversification and speciation in organisms.

Please inquire regarding class times and pay.

WSUV is located across the Columbia River from Portland, OR. For information about the campus see http://www.vancouver.wsu.edu/ Minimum qualification: MS in Biology or related field; Desired qualification: PhD in Biology or related field and experience teaching an evolutionary biology course.

Applicants: Please email a cover letter, CV highlighting relevant experience, and contact information for 3 references.

Review of applications will begin immediately.

Thanks, John

John Bishop Professor, School of Biological Sciences Program Leader, Vancouver Biology and Environmental Science Programs Washington State University 14204 NE Salmon Creek Ave. Vancouver, Washington 98686 360 546-9612 bishopj@vancouver.wsu.edu

Website: directory.vancouver.wsu.edu/people/john-bishop

bishopj@vancouver.wsu.edu

Other

Call for Bee TranscriptData

Dear Evoldir members,

Within the context of global pollinator decline, a recent focus has been the response of bees to pathogen infection. Several studies reporting the transcriptomic response of honey bees to pathogens and parasites have already been published, with considerable variability in expression patterns across studies. To reveal potential genes or gene networks consistently affected by pathogens, we are currently performing a meta-analysis of the transcriptome response of bees to pathogens.

In order to increase the power of our analysis, we are seeking for additional unpublished and/or non publicly available genome-wide gene expression data sets (microarray, next-gen sequencing). Although our project is currently focused on the Western honey bee, Apis mellifera, we also wish to broaden our remit by considering other bee species.

If you have unpublished or soon-to-be-published results addressing transcriptome response of bees to pathogens or parasites, we ask you to contact us so we can explore incorporating the data into our analyses. We seek the original data of expression levels of bees from a control group and from a (pathogen) treatment group, as well as a description of the experimental work. Of course, all contributions will be fully acknowledged.

For anyone who wants to participate, or wants further details, please contact either Prof. Robert Paxton (robert.paxton@zoologie.uni-halle.de), Prof. Christina Grozinger (cmgrozinger@psu.edu) or Dr. Vincent Doublet (vincent.doublet@zoologie.uni-halle.de).

Looking forward to hear from you,

Vincent Doublet

Dr. Vincent Doublet German Centre for Integrative Biodiversity Research (iDiv) Deutscher Platz 5e 04103 Leipzig Germany Phone: +49 341 9733135 vincent.doublet@zoologie.uni-halle.de

vincent.doublet@zoologie.uni-halle.de

DataRequest GeneticSimilarity

Dear colleagues,

Together with Aneta Arct we are conducting meta-analysis on the relationship between genetic similarity of social mates and incidence of extra-pair paternity in birds. If anyone has any relevant unpublished or in press data, we'would be grateful if you could send it to the email address below.

More specifically, we are looking for data pertaining to the following questions:

- Weather the genetic similarity between social mates predicts the occurrence of extra-pair paternity in birds (data needed: estimates of genetic similarity between parents and EPC status for each pair) - Weather the extra-pair young (EPY) to be more heterozygous than within-pair young (WPY) (data needed: heterozygosity of offspring and EPO status for each offspring) - Do offspring fitness (WPY vs. EPY) is predicted by relatedness of the social parents (genetic similarity of parents and proxies of offspring fitness (survival, fledging success, recruitment success, reproductive success)

If you have data could help in our analyses, we would be greatly thankful for making them available. We are particularly interested in unpublished studies, which are often lost to general public. Please contact us if you have any questions or would like to share your data: or Szymon Drobniak szymek.drobniak@uj.edu.pl or Aneta Arct: aneta.arct@ uj.edu.pl.

Cheers Aneta and Szymek

Population Ecology Group Institute of Environmental Sciences, Jagiellonian University ul. Gronostajowa 7, 30-387 Kraków, POLAND tel.: +48 12 664 51 79 fax: +48 12 664 69 12

Drosophila population samples

Dear all,

A bit of a long shot, but I was wondering if anyone has any Drosophila (melanogaster or other species) population samples in their freezer that were collected more than 10 years ago. The greater the number of flies the better and they could be stored dry or in ethanol at below -20C. I would also be interested in any room temp air dried "museum" population specimens of similar ages.

Thanks!

Ben

– Ben Longdon Department of Genetics University of Cambridge CB2 3EH b.longdon@gen.cam.ac.uk +44 (0)1223 333967 / +44 (0)1223 334979 http://benlongdon.wordpress.com http://-www.gen.cam.ac.uk/research/Jiggins/Ben.html bjl48@hermes.cam.ac.uk

ESEB GodfreyHewitt MobilityAward

Godfrey Hewitt Mobility Award V Call for Applications

Godfrey Hewitt (1940-2013) was President of the European Society for Evolutionary Biology (ESEB) from 1999-2001. He was exceptionally influential in evolutionary biology both through his research and through his mentoring of young scientists. He was also a great believer in seeing organisms in their environment first-hand and in exchanges of ideas between labs. Therefore, ESEB has decided to offer, annually, mobility grants for young scientists in his name.

Closing date: Friday 17 January 2014

Eligibility:

The award is open to PhD students or postdoctoral scientists who are, at the closing date for applications, both within 6 years of the start date of their PhD and ESEB members. The maximum single award will be 2000 Euros. It must be used to support fieldwork or a period of research at a lab that you have not previously visited. There is no restriction on the country of residence or nationality of the applicant but preference will be given to applicants who are unlikely to be able to fund the proposed work by other routes. A report will be required by 30 April 2015, by which time the funds must have been used.

Application procedure:

Your application should be sent as a single PDF file to Ute Friedrich at the ESEB office, office@eseb.org. It should include your name, current status and institution, your PhD start date, a description of the work to be carried out (maximum 500 words), an outline budget with brief justification (maximum 100 words) and a signed statement from your PhD supervisor or postdoctoral adviser (maximum 100 words) explaining why the work cannot be funded from your institution.

Applications will be considered by a committee chaired by Roger Butlin. The aim will be to announce decisions before the end of March 2014.

Sincerely, Ute Friedrich ESEB Office Manager

– DEE, Biophore University of Lausanne CH-1015 Lausanne Switzerland Email:office@eseb.org

European Society of Evolutionary Biology - www.eseb.org ESEB <office@eseb.org>

ESEB JohnMaynardSmithPrize 2014

John Maynard Smith Prize 2014: Call for Nominations

Every year the European Society for Evolutionary Biology (ESEB) distinguishes an outstanding young evolutionary biologist with a prize named after John Maynard Smith (1920 - 2004), eminent scientist, great mentor, author of many books on evolution, and a former President of ESEB.

Nomination:

The prize is open to any field of evolutionary biology. The candidates for the 2014 prize must have begun their PhD study after January 1, 2007. The nomination of the candidate may be by a colleague or self-nominated. The nominations should be sent as a single PDF file to Ute Friedrich at the ESEB office <office@eseb.org>.

The nomination should include a brief justification, the candidate's CV and list of publications (indicating three most significant papers), a short description of future research plans, and a letter from the candidate approving the nomination. A letter of reference from another colleague (or two in case of self-nomination) should be sent directly to Ute Friedrich.

Nominations should arrive no later than January 15, 2014. Please take care to limit the size of attachments (total < 10 MB) in any one email.

The nomination committee, chaired by ESEB Vice President Dieter Ebert, will evaluate the nominations and inform the winner approximately by the end of February 2014.

The prize winner is expected to attend the ESEB congress in Lausanne, Switzerland (10-14 August, 2015), where he or she will deliver the John Maynard Smith Lecture. The Society will cover registration, accommodation, and travel expenses (economy fare). The JMS Prize comes with a monetary prize of 2500 Euro and the possibility of a Junior Fellowship of generally 3 months at the Institute of Advanced Study (Wissenschaftskolleg) in Berlin, Germany. For more information on the Wissenschaftskolleg see www.wiko-berlin.de/en/ . Previous winners of the JMS Prize are listed on the ESEB web site: www.eseb.org Sincerely, Ute Friedrich ESEB Office Manager

DEE, Biophore University of Lausanne CH-1015 Lausanne Switzerland Email:office@eseb.org

European Society of Evolutionary Biology - www.eseb.org office@eseb.org

Ecuador VolFieldAssit Parakeets

Field assistant position in a project about a cooperative breeding parakeet in Ecuador

We are looking for a highly motivated field assistant for our study on the cooperative breeding system of the El Oro parakeet (Pyrrhura orcesi). Our work focuses on the variability in cooperation among helpers and the factors shaping group size and the development of cooperative breeding in this species. In addition, we are involved in working for an ecological corridor. This corridor will connect several cloud forest patches to allow for more genetic exchange between parakeet populations.

The fieldwork will take place in the Buenaventura reserve (www.fjocotoco.org) near Pinas, southwest Ecuador. The parakeet occurs at an elevation of 800 to 1300 and most nesting sites are only accessible by foot. We monitor the nest boxes with video cameras that need 12V batteries with a weight of 8 kg as a power source. Therefore applicants should be willing and able to perform long and exhausting daily walks with heavy equipment across the foothills of the Andes. Further activities include capturing parakeets with mist nets and inside artificial nest boxes, taking morphometric measurements and blood samples, and field observation of parakeet flocks. The breeding activities of the El Oro Parakeet coincide with the rainy season, which means that we often have to work in the rain. Our normal work load is about six days per week, but we need to be flexible and adjust our work to the activities of the parakeets. The busiest time will be in February and March.

The costs of an international flight and accommodation at the reserve can be covered by the project; further payment is not included. If required, a letter of recommendation can be issued for the volunteer. Please apply only if you are able to participate in the project for at least three months in a row between December 2013 and April 2014. Applications for a shorter period of time may be considered only if the applicant does not require reimbursement of travel expenses.

To apply (CV & short application letter) or enquire further information please contact:

Michael Bauer University Freiburg, Biology I Hauptstrasse 1 D-79104 Freiburg

Michael-Bauer@gmx.net

http://www.biologie.uni-freiburg.de/data/bio1/-schaefer/michael-b.html Michael Bauer <Michael-Bauer@gmx.net>

GBIF what can it do

I've recently been appointed Chair of the Science Committee of the Global Biodiversity Information Facility (GBIF) http://www.gbif.org [1]. The committee is a small group of people with a range of backgrounds, and one of our roles is to advise GBIF on matters scientific (e.g., what kinds of data GBIF should collect?, what kinds of scientific questions should GBIF help answer?, etc.).

There have been formal surveys (see the papers in the journal "Biodiversity Informatics" https://journals.ku.edu/index.php/jbi/issue/view/370/showToc), meetings, and a "vision" statement (the "Global Biodiversity Informatics Outlook, http://www.biodiversityinformatics.org/). But there's always the chance that these fora may miss some points of view, so I'm keen to get feedback on what sort of things GBIF could do to improve the way it can help people tackle the scientific questions they are interested in.

For example, is there some fundamental limitation that GBIF has that prevents it being useful to you? Is there some feature/data type/geographic coverage/etc. that could be addressed that would make it more useful? Is there a role that GBIF should take on that it hasn't done so? A useful analogy might be to think of the central role GenBank plays in genomics, both as a place to archive your data (sequences), a repository of other people's data that you can access, and a research tool (e.g., BLAST searches to locate similar sequences). Is that the sort of thing you'd want from GBIF, or is it something entirely different?

I'd welcome any comments, suggestions, views, etc. You can reply to me directly, or to this email list (if it allows discussions). I've also posted this request on my blog, so you can comment there if you like.

I should stress that this is simply me trying to calibrate my perception of GBIF's role with what others think. Also, note if you have specific comments on things such as the GBIF web site please use the feedback tab on the site (that way it will reach the people who can do something about it).

[1] For those unfamiliar with GBIF, its mission "is to make the world's biodiversity data freely and openly available via the Internet". At present the bulk of the data are observations of organisms (mostly multicellular eukaryotes, i.e., animals, plants and fungi) based on either museum collections or observations of living organisms. You can get an idea of the kind of science that uses GBIF-hosted data from this list of papers on Mendeley http://www.mendeley.com/groups/1068301/gbif-public-library/ Roderic Page rdmpage@gmail.com

Skype: rdmpage Facebook: http://www.facebook.com/rdmpage LinkedIn: http://uk.linkedin.com/in/rdmpage Twitter: http://twitter.com/rdmpage Blog: http://iphylo.blogspot.com ORCID: http://orcid.org/0000-0002-7101-9767 Roderic Page <rdmpage@gmail.com>

Learning Python

Dear Members,

Please, can anyone recommend a textbook (or other media) for learning the basics of programming in Python that is relevant to bioinformatics.

Cheers, Michael McLeish

Xishuangbanna Tropical Botanical Gardens, CAS, Plant Geography Group, Yunnan, P.R. China.

mcleish.michael@gmail.com

Learning Python answers

Thank you to all that contributed to my request for Python resources. Here is a compilation of the responses.

Thank you once again, Michael.

I'm sure someone else will mention this, but:

http://rosalind.info/problems/locations/ "Rosalind is a platform for learning bioinformatics through problem solving."

Have fun!

Cheers, Anders

Dear Michael,

I suggest to start with codecademy: http://www.codecademy.com/ It's good to learn the basics, and then move to BioPython.

cheers, Andrea

This is goodâlearn through doing: http://rosalind.info/problems/locations/ Less directly relevant but might be of interest: https://www.coursera.org/course/bioinformatics https://beta.stepic.org/Bioinformatics-Algorithms-2/ Dear Michael

I recommend:

If you are in a hurry: http://www.amazon.co.uk/Python-Bioinformatics-Bartlett-Biomedical-

Informatics/dp/0763751863/ref=sr_1_2?ie=-UTF8&qid=1381273389&sr=8-2&keywords=-python+bioinformatics If you are NOT in a hurry, I have been reviewing a new book coming out in December that looks better: 'Managing Your Biological Data with Python' by Allegra Via et al. (CRC Press)

The Coursera MOOC course (not a book) is nice, and the Rosalind people wrote chapter 1 there https:/-/www.coursera.org/course/bioinformatics https://-beta.stepic.org/Where-Does-DNA-Replication-Begin-2/ Best of luck. Please let me know if thisis useful

Pedro Fernandes

Dear Michael,

I used Practical Computing for Biologists, by Haddock and Dunn, to introduce myself to Python programming (with no prior experience) and I highly recommend it.

Good luck in your search!

Best, Abby

Dear Micheal,

I am also interested in learning Python, and registered a course in COURSERA (but I was busy and couldn't make it). There is another course started this week on Python: https://www.coursera.org/course/-interactivepython, if you are interested in.

I attached some sources from the sources of the last course: Some in-depth free python 3 ebooks:

Dive Into Python 3

A Byte of Python

Think Python: How to Think Like a Computer Scientist

Think Complexity (possibly a bit too high-level for LTP class)

Invent Your Own Computer Games with Python 2nd Edition

Free Python Books

Free online courses to help you learn Python:

Google's Python Class

Learn Python the hard way (HTML Format)

Codecademy: Python

I hope these are of your interest.

Cheers,

Abdy

University of Helsinki

I learned a ton from Practical Computing for Biologists by Haddock & Dunn. Clear, logical, thorough. Also has shell scripting, using text editors effectively, relational databases and remote computing.

Cheers, Sara

A few years back I co-taught a course on Python for bioinformatics. We used _Learning Python_ by Lutz. I currently have the 3rd edition which is most up to date but has too much stuff in it and is not as beginner-friendly as the second edition.

The powerpoint for our class is at:

http://homes.cs.washington.edu/ ~ ruzzo/courses/-gs559/09wi/ (if you can see that from outside UW–I'm not certain, sorry).

Hope this helps.

I didn't speak Python before starting to teach this class and found it fairly easy to pick up (one step ahead of the students) but I'm an experienced programmer.

Mary Kuhner mkkuhner@uw.edu

Hi Micheal

Can you please post the responses you get? I have used a couple of online sources. I really liked CodeAcademy and there is also a great YouTube video if you are a complete beginner.

http://youtu.be/N-ae8Q_7iCA I also notice that google has some Python tutorial videos on YouTube but I haven't checked those out yet.

The book that was recommended to me is Practical Computing for Biologist by Haddock and Dunn.

Cheers, Rachel Closito, Ph.D.

Biology Department University of Louisiana at Lafayette

We have been using python for biologists: http://-pythonforbiologists.com/index.php/introduction-to-python-for-biologists/ Nicola Anthony Associate Professor Department of Biological Sciences University of New Orleans New Orleans LA 70148 USA

Hi Michael,

I used udacity to learn python.

— / —

OrthoMaM database update

Dear Evoldir members,

We are pleased to announce the release of OrthoMaM version 8: a major update of our database of mammalian orthologous single-copy nuclear markers (exons and CDS).

It can be browsed and queried at:

http://www.orthomam.univ-montp2.fr/ The new version 8 is based on EnsEMBL release v73 (September 2013) and now includes 6,953 exons and 13,404 CDS alignments for 40 mammalian species (including the new Mustela furo putorius).

The article describing the original database is freely available from BMC Evolutionary Biology: http://-/www.biomedcentral.com/1471-2148/7/241 Vincent Ranwez, Frederic Delsuc, Sylvie Ranwez, Khalid Belkhir, Marie-Ka Tilak and Emmanuel JP Douzery OrthoMaM: A database of orthologous genomic markers for placental mammal phylogenetics BMC Evolutionary Biology 2007, 7:241 (doi:10.1186/1471-2148-7-241)

We hope this will be of use to members of the evolutionary community.

Frederic Delsuc and co-authors

Frédéric DELSUC (Chargé de Recherche CNRS) Case Courier 64 Institut des Sciences de l'Evolution - UMR5554-CNRS-IRD Université Montpellier 2 Place Eugène Bataillon 34095 Montpellier Cedex 05 France Tel: (+33) 4 67 14 39 64 FAX: (+33) 4 67 14 36 10 Email: Frederic.Delsuc@univ-montp2.fr Webpage: http://fdelsuc.perso.neuf.fr Frederic.Delsuc@univ-montp2.fr

PopG SimulationTeachingProgram JavaVersion

A new 4.0 version of PopG, our lab's one-locus population genetics simulation program designed for teaching, has been released. Version 4.0 no longer uses the windowing systems of different operating systems directly. It is now written in Java, and can run identically on any system that has a reasonably recent version of Java installed.

Mac OS X and Linux systems usually come with a version of Java that can run PopG. Mac OS X versions 10.4 (Leopard) and earlier may not have a version of Java capable of running it. Windows systems do not come with Java installed, but Java can easily be installed on them by downloading it from Oracle at www.java.com at no cost.

PopG simulates multiple populations (up to 1,000 of them) each of up to 10,000 individuals. The program plots the gene frequency in each population at a two-allele locus. It also displays the number of populations in which the allele has been fixed, and the number in which it has been lost. A curve showing the expected gene frequency in an infinite population which has no genetic drift is also shown. The graph showing gene frequencies can be printed or saved as PNG or JPG file.

The user specifies the population size, the fitnesses of genotypes AA, Aa, and aa, the mutation rates from A to a and from a to A, the initial gene frequency of the A allele, and the migration rate between populations under an island-model scheme of migration in which migration is symmetric among all populations. The number of populations and the number of generations to simulate can also be specified, and the random number seed set if needed.

PopG can be downloaded from http://-evolution.gs.washington.edu/popgen/ Joe Felsenstein Department of Genome Sciences and Department of Biology, University of Washington, Box 355065, Seattle, WA 98195-5065 USA

Joe Felsenstein <joe@gs.washington.edu>

Pyralid moth stocks wanted

Dear Evoldir,

I am running a masters project looking at the evolution of the male apyrene sperm in the Lepidoptera (family Pyralidae) so i am in need of eggs from which to rear my own populations to study. I already have access to Plodia interpunctella but anything else would be much appreciated.

Thanks in advance,

Verity Woodham.

Univeristy of Liverpool.

hlvwoodh@liv.ac.uk

"Woodham, Verity" <V.Woodham@student.liverpool.ac.uk>

Software DAMBE update

Dear Colleagues,

I have just uploaded a new version of DAMBE. It added two functions requested by users and fixed a bug in using your own codon table of highly expressed genes for computing CAI.

1. Print big trees over many pages. Originally, DAMBE has a function to break a tree into grids with each grid corresponding to one regular page. It has two problems. First, it is quite difficult to trim the edges of each page and piece them together into a big tree. Second, it does not allow one to print to PDF format so that one can see what the individual pages look like before sending to printer. The new function will simply limit the tree width to one page so one only needs to stick the pages together vertically. Also, if the PDF driver is already available in your computer, you can choose to print to PDF. If you have produced a very big tree from other programs and want to print in DAMBE, simply copy the tree in Newick format and click 'Phylogenetics|Paste tree in tree panel'.

2. I have implemented the CVTree method by Prof. B. Hao and his colleagues in China (Nucl. Acids Res, 2009). I did this because the CVTree web server does not seem to take any user files to perform an analysis and because the link to the standalone program is broken, i.e.,I can't find any functional CVTree software available. The method is useful for species (especially for viruses) where a good set of aligned sequences is often difficult to obtain. The input is a set of fasta files each containing protein sequences of a species (e.g., the .faa files one can retrieve from GenBank), e.g., EcoliK12.faa, BacillusSubtilis.faa, MycoplasmaGenetalium.faa, etc. You put all these files in one directory and click 'Phylogenetics|CVTree' to browse to the directory containing these .faa files. Select them all and click 'Open'. A tree will be displayed (You may click 'Tree|Ignore branch lengths' to get a better view of the topology). It will take some time if you include more than one h undred bacterial species each with thousands of protein sequences. The simply way to start is to retrieve some viral .faa files from GenBank to try out the function.

The method works surprisingly well. I retrieved the .faa files from E. coli and a few related species, broke each .faa files into first half and the last half, named the resulting file Sp1A.faa and Sp1B.faa, Sp2A.faa, Sp2B.faa, and so on, and found the two halves got clustered together. The possible biological foundation for this is that each species contain some unique ancient peptides that are scattered throughout the protein sequences and serve as the proteomic fingerprint of the species. This is of course just my speculation. I will look into it when I have time (I am NOT trying to stake out a territory. Anyone is welcome to investigate the issue).

3. I have fixed a bug in the function that allows a user-generated codon usage table of highly expressed genes for computing CAI using DAMBE. You can use DAMBE or any other program to generate a codon usage table in text format that includes three essential columns: Codon, AA, and CodonFrequency. The columns should have either no column header (i.e., 64 rows of codon frequency data start at the first row) or have the column headers in the first row (i.e., 64 rows of codon frequency data starts in the second row). The simplest way to generate a codon usage table of highly expressed genes is to use coding sequences for ribosomal proteins (which are typically highly expressed.)

I have also fixed a number of minor bugs. Please download the new version at

http://dambe.bio.uottawa.ca/dambe.asp Best Xuhua

Xuhua Xia Professor Biology Department University of Ottawa Rm 278 Gendron 30 Marie Curie, Ottawa, Ontario Canada K1N 6N5 Tel: (613) 562-5800 ext 6886 http://dambe.bio.uottawa.ca http://www.biology.uottawa.ca/bio/-professor_details.html?en/31

Software Phylogenetic Likelihood Library

Dear Community,

We have made the phylogenetic likelihood library for rapid prototyping and development of phylogenetic analysis programs available today.

It is available under GNU GPL at: http://-www.libpll.org/ Among other things it has functions to calculate and optimize likelihoods and branch lengths,

parse alignments and trees as well as to conduct tree search operations (NNIs, SPRs) on trees.

It is highly optimized and supports SSE3 as well as AVX vector intrinsics. It can run in parallel using PThreads on multi-core systems and MPI on massively parallel systems.

For instance, we have already used the library, to accelerate DPPDIV (a Bayesian program to calculate divergence times) by over a factor of 100; see http://sco.h-its.org/exelixis/pubs/Exelixis-RRDR-2013-2.pdf for details.

All the best,

Alexis

Alexandros (Alexis) Stamatakis

Research Group Leader, Heidelberg Institute for Theoretical Studies Full Professor, Dept. of Informatics, Karlsruhe Institute of Technology Adjunct Professor, Dept. of Ecology and Evolutionary Biology, University of Arizona at Tucson

www.exelixis-lab.org alexandros.stamatakis@gmail.com

Survey TheoryEmpirical

Hi everyone. My coauthors and I are conducting a survey, and would greatly appreciate your participation:

https://docs.google.com/forms/d/-1GMvZP_Mkyq5QVHVy8tcU3ZwmXHR9liDo-3A16Tat3UU/viewform The survey is on the interaction between theoretical and empirical work. We are hoping to get responses from anyone and everyone who is working in evolutionary biology and/or ecology. This will be part of a paper we are working on. I'd prefer not to say much about it, so as not to bias the survey.

Also, I would greatly appreciate it if you would share this survey in whatever way you have available to you, including Facebook, Twitter, and blogs. You can forward this email, or just share the link.

Thanks!

Best regards,

Ben Haller McGill University

ben.haller@mail.mcgill.ca

WesternAustralia VolFieldAssist Finches

Field assistants: Australian grass finches East Kimberley, Western Australia February - May or March - June 2014

We are looking for 2-3 volunteer field assistants to help with various projects on Gouldian and Crimson finches. Field work will be conducted in the East Kimberley region of Western Australia between February and June 2013 (specific dates may vary). Volunteers are asked to commit for a minimum of 3-4 months. Much of the field work will be during the late wet season when temperatures are regularly above 40oC and humidity is extreme (80-90%).

Specific duties will vary depending on the project but include locating and monitoring nests, re-sighting colour bands, habitat assessment and data entry. Volunteers will need to be prepared for early mornings 6 days a week, long hours in tropical conditions (including wading through creeks and long walks over rocky and hilly terrain), sharing cooking duties, living and working in a small team and have a good work ethic. Volunteers will need to be physically fit and have a drivers licence. Desirable qualifications include experience with behavioural studies and re-sighting colour banded birds.

Accommodation and travel within Australia will be covered however the volunteer will provide their own food and international travel (the latter may be negotiable for the right candidate). To apply please contact Catherine at The Australian National University; catherine.young AT anu.edu.au with you cv and two references. Deadline: October 25th 2013

Catherine Young <catherine.young@anu.edu.au>

microMORPH grants 2

Reminder: microMORPH Training Grants

Dear Colleagues,

microMORPH is pleased to announce a funding oppor-

tunity for graduate students, postdoctorals, and assistant professors in plant development or plant evolution. $3,500 is available to support cross-disciplinary visits between labs or institutions for a period of a few weeks to an entire semester. We are particularly interested in proposals that will add a developmental perspective to a study of the evolution of populations or closely related species, or conversely, proposals to add a microevolutionary perspective to developmental studies. The deadline for proposals is November 1, 2013. More information about the training grants and the application process may be found on the microMORPH website:

http://www.colorado.edu/eeb/microMORPH/-grantsandfunding.html These internships are supported by a five-year grant from the National Science Foundation entitled microMORPH: Molecular and Organismic Research in Plant History. This grant is part of the Research Coordination Network (RCN) Program at NSF. The overarching goal of the microMORPH RCN is to study speciation and the diversification of plants by linking genes through development to morphology, and ultimately to adaptation and fitness, within the dynamic context of natural populations and closely related species.

If you would prefer not to receive any more emails from me about the microMORPH RCN, please email me back with the word $^3NO^2$ in the subject line and we will remove you from the mailing list. We will use this list for occasional updates on funding opportunities through the microMORPH RCN, and yearly workshops hosted by microMORPH.

Pamela K Diggle

Professor Department of Ecology and Evolutionary Biology University of Colorado

Pamela.Diggle@colorado.edu

mtDNA rarefaction method answers

Dear Evoldir members, a few days ago I have posted a question:

"Dear EvolDir members, I have a dataset consisting in COI sequences from several catshark populations with different sample size ($7 < N < 24$). In order to obtain comparable estimates of genetic diversity, I would like to employ a rarefaction algorithm. Can anyone suggest me a rarefaction method similar to those employed with microsatellites and if there is any software performing such analysis on mtDNA data? "

I would like to thank all the people who have answered me: you are great!! I have decided to use CONTRIB v. 1.02, theory is described in Petit et al., 1998.

Best regards, Michele Barbieri

here are the answers I have received:

#1 You can do it easily in R.

You just need to put your alignment into a DNAbin object. You can then use the following script to do, one population at a time. It would be easy to then implement something like the following script. I'll leave the transforming the sequence data into a DNAbin object as homework.

Good luck...

Anders.

#2 Hello,

I use HP-RARE by Kalinowski: http://-www.montana.edu/kalinowski/Software/HPRare.htm

I hope that helps,

Violeta

#3 Hi Michele,

You could consider haplotypes as species, and use EstimateS to do your rarefaction.

Cheers, eric

#4 Collaps your sequences into haplotypes and use the rarefaction calculator at http://www.biology.ualberta.ca/jbrzusto/-rarefact.php#Inputs Best, Patrick

#5 Hi Michele, I have used the software RAREFAC developed by Petit et al. Attached is the 'manual' with instructions on where to download it.

Good luck! Mariana

#6 Dear Dr Barbieri,

I don't know if it could help you but I recently developed a toolbox (SPADS 1.0, for "spatial and population analysis of DNA sequences") to perform several analysis on DNA sequence datasets. Among these analyses, there is the computation of the allelic richness (El Mousadik & Petit 1996).

The program note presenting this software is currently submitted to Molecular Ecology Resources but the software itself is fully available (along with a detailed manual) at this address: http://ebe.ulb.ac.be/ebe/-SPADS.html

Like I said, I don't know if this is exactly what you are

looking for, but do not hesitate if you have any question regarding the use of SPADS.

Best wishes,

Simon

#7 Dear Michele

This paper introduced a method Petit RJ, El Mousadik A, Pons O (1998) Identifying populations for conservation on the basis of genetic markers. Conservation Biology, 12, 844-855.

that is implemented with the application "Contrib"

I don't recall all the details right now but I've used it in the past, eg doi: 10.11186/1741-7007-8-60

good luck,

Kathryn

#8 A long time ago we used a rarefaction method to study coyote mtDNA genotype diversity, and this was published in Genetics in 1991, attached. It may be useful to your study.

Best wishes, Niles

OTHER ANSWERS FROM ResearchGate:

#9 You could try the rarefraction program by Steven Hollond, available from: http://www.uga.edu/strata/-software/ This software has been used for COI data before e.g.: Aguilar, Aquatic Sciences (2011) 73:153-20 Martin

#10 Our colleague Yi Zhang from Beijjing uses the Adze program for mtDNA allelic richness and said it was very easy Johannes

#11 Also see Rarefac at http://www.pierroton.inra.fr/-genetics/labo/Software/Rarefac/. It is designed specifically for use with mtDNA datasets but also can accommodate diploid ones (e.g., msats)

Evan –

Michele Barbieri Ph.D. Università di Pisa Dipartimento di Biologia Unità di Biologia Marina ed Ecologia Via Derna 1, 56126, Pisa - Italy (I) Tel: +39 050 2211447 Lab: +39 050 2211407 Fax: +39 050 2211410

mbarbieri@biologia.unipi.it

PostDocs

CSIRO Canberra ModellingAdaptation

Although at first glance it this position may look slightly distant from the main focus of EvolDir, we are very keen to get applicants with strong evolutionary background. This is a large multi-disciplinary project and the applicant will need to be able to incorporate a number of evolutionary processes into modelling, and so are keen to ensure we are advertising for people with understanding of evolutionary processes as well as ecological and spatial knowledge.

Postdoctoral Fellow V Factoring adaptive capacity into macroecological modelling under climate change

The Position: Efforts by conservation practitioners and natural resource managers to consider potential impacts of climate change in planning and management decisions are making growing use of spatially-explicit models of expected biological responses under future climate scenarios. Modelling of potential shifts in the distribution of individual species is increasingly being augmented by macroecological modelling of potential changes in the composition of whole communities and high-level analyses of the of climate change (VOCC) across entire regions and continents. One shortcoming shared by all of these approaches is that they rarely consider the extent to which potential climate impacts might be moderated by the capacity of different organisms for genetic or plastic adaptation.

A major collaboration between CSIRO, Melbourne University and Monash University V the Genomic Basis for Adaptation to Climate Change (GBACC) project, with funding from the Science and Industry Endowment Fund V is now shedding light on this problem by developing a whole new approach to estimating and inferring adaptive capacity through integration of state-of-the-art genomic analyses with a range of other ecological and evolutionary information.

This postdoctoral position will research and trial approaches to incorporating estimates and inferences of adaptive capacity developed by this work into macroecological modelling and VOCC analyses informing policy, planning and management responses to climate change across Australia. The position will be based in a leading biodiversity modelling team in CSIRO, and will contribute to delivering adaptation solutions to end users through CSIROs Climate Adaptation Flagship.

Location: Canberra, ACT, Australia Salary: $81K - $88K plus up to 15.4% superannuation Tenure: 2 year specified term Reference: ACT13/01832

To be successful in this position you will need:

- A PhD in a relevant field with not more than 3 years relevant postdoctoral working experience. - Capacity to design, develop and adapt innovative research approaches in a multidisciplinary environment. - Expertise in the application of quantitative spatial analysis and/or modelling techniques to complex problems in ecology or biodiversity science. - Ability to contribute successfully as part of a scientific team, and to collaborate with both internal and external stakeholders to achieve desired research goals. - Strong oral and written communication skills.

Who we are: The Commonwealth Scientific and Industrial Research Organisation (CSIRO) is one of the largest and most diverse scientific organisations in the world. By igniting the creative spirit of our people, we deliver great science and innovative solutions that

benefit industry, society and the environment.

This position is being re-advertised, previous applicants need not apply.

Position Details: http://csiro.nga.net.au/publicfiles/-csiro/jobs/d3fcadf6-d8c3-3057-5e26-76b1d568bfff/-ACT13-01832_-_Postdoc_Fellow_-_SIEF_GBACC_-_110213%5B1%5D.pdf If after reading the selection documentation you require further information please contact Simon Ferrier by email at simon.ferrier@csiro.au or by phone at 61-2-6246-4191

Renee.Catullo@csiro.au

CSIRO Canberra QuantGenet LinkageMapping

Applications are invited for a three-year OCE Postdoctoral Fellowship in quantitative genetics/genomics of fruit flies. The Tephritidae fruit fly family includes some of the major pests of cultivated fleshy fruits in tropical and temperate regions of the world. In Australia this includes Bactrocera tryoni, B. neohumeralis and B. jarvisi, three species that differ in their distribution, stress tolerance and host rank preference. Further, these species produce fertile hybrids in the laboratory, thereby offering unique experimental strategies. The successful candidate will pursue a genetic dissection of fruit fly natural history traits as part of a research team working more broadly on the molecular biology of Bactrocera species, including full genome sequencing, comparative genomics, RNAi, and gene expression.

Therefore, we are looking for a high-calibre, creative researcher who, under the supervision of more senior scientists, will build and lead the quantitative genetics component of the project. Strong candidates will be those who can complement the team with strong statistical skills and genetic analysis experience, preferably also with molecular biology experience.

The Postdoctoral Fellow will be responsible for:

* Designing and conducting laboratory bioassays and common garden experiments to determine whether introgression can change reproductive performance under conditions favouring traits from one species over another.

* Guided by full-genome sequence, identifying regions of recombination that are preferentially introgressed in hybrid lines under different conditions.

* Undertaking molecular characterisation of the most promising candidate loci using RNAi.

* Working with other team members and providing support and/or supervision of junior staff or students, etc.

* Producing high quality scientific and technical outputs including journal articles, conference papers and presentations, patents and technical reports.

* Developing innovative concepts and ideas for further research.

* Regularly reviewing relevant literature and patents.

* Contributing to the effective functioning of the research team and helping to deliver on CSIRO's organisational objectives.

Details at

* http://csiro.nga.net.au/publicfiles/csiro/-jobs/aad71a86-6513-685d-9bbf-77110e93a2bc/-Position%20Details%20-%20ACT13%2703745.docx * Please apply via http://www.csiro.au/people/-Careers Dr. Alexie Papanicolaou CSIRO Ecosystem Sciences Phone: +61(0) 2 6246 4511| Mobile: +61 (0) 46 85 81 247 CSIRO profile < http://-www.csiro.au/Organisation-Structure/Divisions/-Ecosystem-Sciences/AlexiePapanicolaou.aspx > | http://www.csiro.au < http://www.csiro.au/-people/Alexie.Papanicolaou.html > Address: CSIRO Ecosystem Sciences, Clunies Ross St. Canberra, ACT 2601, Australia GPO Box 1700 – http://-www.researcherid.com/rid/A-1618-2011 – Bioinformatics is also an experimental science

Alexie.Papanicolaou@csiro.au

CharlesU Prague CrustaceanEvolutionaryBiol

Postdoc position starting in January or February 2014 (guaranteed for one year, prolongation possible depending on performance) is available at the Department of Ecology, Charles University in Prague (workgroup of Adam Petrusek).

The postdoc (who must have been defended PhD after March 28, 2008) will join a group studying ecology and evolutionary biology of crustaceans (using mainly - but not only - Daphnia and freshwater crayfish as models). The focus of the postdoc's activities may be tailored depending of his/her expertise and interests but should

involve either crustaceans or their parasites/pathogens.

The gross salary of the postdoc will be 40.000 Czk (ca 1600 EUR)/month. If interested, contact Adam Petrusek (petrusek@natur.cuni.cz) for more information (send your CV and list of publications). Suitable candidates will be asked to submit their applications through a formal university selection procedure. Deadline for applications: November 30, 2013.

Adam Petrusek Department of Ecology Charles University in Prague Vinicna 7 CZ-12844 Prague 2 Czech Republic

e-mail: petrusek@natur.cuni.cz

petrusek@cesnet.cz

ChicagoBotanicGarden PopGenomics

Postdoc: ChicagoBotanicGarden.PlantInsectInteractions.PopGen.Genomics.

We are hiring 2 postdoctoral research associates for 4 - 4.5 years to assist with an NSF-funded Dimensions of Biodiversity grant titled "Landscapesof linalool: scent-mediated diversification of flowers and moths across western North America". This NSF-funded project integrates chemical ecology, plant reproduction, pollination, population genetics and comparative genomics to explore the impact of past selective pressures on current patterns of diversity in non-model organisms: evening primroses (Onagraceae), hawkmoths (Sphingidae), bees (Halictidae), and micromoths (Mompha).

This project is a collaborative NSF research project between Krissa Skogen (Chicago Botanic Garden), Jeremie Fant (CBG), Norm Wickett (CBG), Robert Raguso (Cornell University), Rachel Levin (Amherst College), Sylvia Kelso (Colorado College), Terry Harrison (University of Illinois at Urbana-Champaign), Jean-Francois Landry (Agriculture & Agri-Food Canada, Eastern Cereal and Oilseed Research Centre), Kathleen Kay (University of California, Santa Cruz), Mike Moore (Oberlin College) and Warren Wagner (Smithsonian Institution).

The postdocs will be based at the Chicago Botanic Garden and will conduct fieldwork across the western United States. The Chicago Botanic Garden is situated in Glencoe, IL, just 16 miles north of downtown Chicago, from which it is accessible by a commuter train, buses and highway. Scientists at the Gardenlive near the Garden, in Evanston, and in Chicago. The department of Plant Biology and Conservation is located in the Rice Plant Science Center, a 4 year-old LEED certified gold building with modern laboratories, office space and museum display space allowing scientists to communicate their findings directly with Garden visitors. The Plant Biology and Conservation Department has active collaborations with Northwestern University, The Field Museum, The University of Chicago, The University of Illinois at Chicago, Morton Arboretum and other area institutions.

START DATE Jan. 1 - March 1, 2014 APPLICATION REVIEW Begins Nov. 1, 2013 APPLICATION DEADLINE Nov. 11, 2013 STARTING SALARY $43,000/year

DUTIES AND RESPONSIBLITIES Postdocs will be responsible for coordinating and conducting field and lab-based data collection, and managing and analyzing large datasets. Postdocs will lead field teams comprised of research assistants, graduate and undergraduate students and will be responsible for coordination among field teams. Expectations are that postdocs will contribute to the preparation of numerous publications, many of which will be first-authored. Teaching and curriculum development opportunities will be provided through the graduate program in Plant Biology and Conservation, a joint program between the Chicago Botanic Garden and Northwestern University. Postdocs will also be involved in various outreachprograms coordinated by the research team and the Chicago Botanic Garden.

POSITION REQUIREMENTS Ph.D. in ecology and evolutionary biology, biology, botany or a related field. Applicants who expect to have completed their PhD by the start date will be preferred. Potential areas of expertise we are considering include (but this is not exclusive): - Fieldwork- this project will have a large fieldwork component, with 3-4 months in the field each year (for ˜6-8 weeks at a time; twice during each year); Years 1 and 2 will focus on broad-scale sampling of plants, pollinators and moths throughout the western US. Years 3 and 4 willfocus on detailed field experiments, locations dependent on results from years 1 and 2. - Plant reproductive biology / pollination ecology - Population genetics / landscape genetics / population-level genomics - Ecological genomics / bioinformatics - Coevolution - trait evolution - Host-parasite evolution - Plant-pollinator interactions - Chemical ecology - Lepidopteran ecology (moths; micromoths)

TO APPLY Please submit a cover letter, resume, employment forms (http://www.chicagobotanic.org/-

jobs/apply) and request 3 letters of recommendation be sent on your behalf to: Attn:Human Resources. Chicago Botanic Garden. 1000 Lake Cook Road Glencoe, IL 60022

QUESTIONS? Please contact Krissa Skogen kskogen@chicagobotanic.org

kskogen@chicagobotanic.org

ColoradoStateU EvolutionaryGenomics

Postdoctoral Associate in Evolutionary Genomics, Fort Collins, Colorado

A postdoctoral position is available at Colorado State University. The successful applicant will work in the Plant Evolutionary Genomics Lab of Dr. John McKay. We are looking for a highly motivated individual with a PhD in Evolution, Comparative Genomics or Bioinformatics. The successful candidate will have a strong publication record that demonstrates their ability to lead the analysis and evolutionary interpretation of whole genome and next-gen sequencing data. Candidates with training and experience in Quantitative Genetics and Statistics are encouraged to apply. No prior experience with Plants is required.

This focus of this Postdoctoral position is to study the evolution of genes and gene function across the Brassicaceae family of plants. The McKay lab and collaborators have worked to extend the functional knowledge beyond the Columbia reference strain of Arabidopsis thaliana, in order to understand the loci that contribute to adaptation. We are now extending this evolutionary analysis of within species polymorphism across the Brassicaceae family, which includes agriculturally important species as well as allopolyploidy, other whole genome duplication events and lineages with rapid reductions in genome size. The position is available immediately, but the start is flexible to some degree. Salary and benefits are competitive, and CSU is an excellent academic environment for the study of evolution and plant biology. Our lab group has excellent interactions with colleagues in bioinformatics, plant physiology, ecology, evolutionary genetics and molecular biology. Fort Collins is located on the Front Range of the Rockies and is ranked highly among great places to live.

Interested applicants should submit a letter of interest, statement research interest and experience, curriculum vita, and contact information of three professional references.

Applications should be sent as a single pdf to Joanna Holliday, Director of HR, College of Agricultural Sciences, at cas_pool@mail.colostate.edu with Subject: Postdoctoral Fellow Pool.

Review of applications will begin on 1 November 2013 and continue until the position is filled. Questions regarding the research can be sent to Dr. John McKay.

http://www.mckaylab.colostate.edu jkmckay@colostate.edu

CornellU RiceAdaptations

We are interested in posting a postdoctoral position on the Evolution Directory. It is not strictly speaking an evolutionary study, but we are looking for a person with a strong background in population genetics, coupled with informatics and molecular biology.

Postdoctoral Position in Rice Aluminum Tolerance at Cornell University

Job description

A three-year postdoctoral position is available immediately at Cornell University in the labs of Leon Kochian (USDA-ARS Robert W. Holley Center for Agriculture and Health) and Susan McCouch (Dept. Plant Breeding & Genetics and Plant Biology), as part of a USDA-AFRI grant entitled 'Dissecting the Genetic, Molecular and Physiological Basis of Aluminum Tolerance in Rice: Implications for Cereal Improvement'.

The Postdoctoral Fellow on this project will join a group of researchers across the two laboratories to investigate the genetics and molecular physiology of aluminum (Al) tolerance in rice and other crops. Primary responsibilities will involve: characterization of natural genetic variation in key rice Al tolerance loci at a population level; validation of results obtained from genome-wide association studies (GWAS), including the identification of genes and functional nucleotide polymorphisms underlying GWAS-QTLs, and application of biparental or multi-parent crosses and populations, mutant analysis, and molecular tools to validate gene function; and the functional characterization of alleles of interest, with a focus on cell wall-related genes. S/he will be responsible for planning and performing experi-

ments, data collection and proper record keeping, data analysis and interpretation, updating and troubleshooting of new protocols and techniques, and regular reporting of research progress to ensure timely deliverables on the grant.

Requirements

Applicants must have a PhD in Plant Genetics, Plant Molecular Biology, or related field, and a strong publication record. The successful candidate should work well in a team and interact efficiently with scientists across different disciplines. Excellent written English and communication skills are required. Familiarity with population genetics and bioinformatics/computational biology are highly desirable.

To apply

To apply or for more information, please contact Lyza Maron, Department of Plant Breeding & Genetics, Cornell University, Ithaca, NY 14853. Applications should include a brief cover letter, a curriculum vitae, and names of at least two references. Email applications in PDF format to lyza.maron@cornell.edu

Susan McCouch <srm4@cornell.edu>

DurhamU AncientChickenGenetics

3-year PDRA in Modern & Ancient Chicken Genetics

Salary: £30,424 - 36,298 Closing Date: 4 November 2013 Start date: 6 January 2013

To apply, click on the link at the bottom of this page: https://ig5.i-grasp.com/fe/tpl_durham01.asp?newms=3Djj&id=3D83476 Job Description This 3-year PDRA position starting January 6, 2014 is one of five research posts linked to the recently awarded AHRC project entitled: Cultural and Scientific Perceptions of Human-Chicken Interactions funded by the Arts and Humanities Research Council (AHRC) Science and Culture Large Grant Scheme.

This collaborative project between eight researchers at the Universities of Bournemouth, Leicester, Nottingham, York, Roehampton and Durham, will explore the natural and cultural history of chickens, the most globally ubiquitous domestic animal.

To elucidate the circumstances and meaning of the westward spread of chickens from their origins in Southeast Asia to Europe and the Americas (from the late prehistoric period to the present), our multidisciplinary team of archaeologists, anthropologists, geneticists, and zooarchaeologists will integrate the evidence from across their fields to address the following questions:

1) When, how and why did domestication and the early husbandry of chicken take place? 2) How rapidly did chickens spread into different parts of Europe and how was this diffusion linked to population movements, trade or cultural changes? 3) When did poultry and egg production emerge and how intensively were chickens exploited for these products in different regions and periods? 4) When and where did modern chicken breeds develop? 5) How have chickens changed society and culture in antiquity and in modern times? 6) Can evidence from the past be used to transform modern practices of chicken management?

The Durham-based genetics PDRA will focus primarily on the extraction and amplification of DNA from modern and ancient chickens from a wide range of geographical and temporal contexts. The genetic sampling and results will be informed by, and interpreted within the context of the linked PDRA and PhD projects associated with the overall project. Although training and hands-on supervision will be provided, it is essential that the candidate can operate independently and take initiative to direct the research. The PDRA will be supervised by Dr. Greger Larson and will work alongside other members of the Durham Evolution and Ancient DNA (DEAD) lab in the Department of Archaeology at Durham University.

The starting salary will be £30,424 and will increase annually over the three-year duration of the project. The successful applicant will be provided with office space and computing resources and funds are available for laboratory consumables and travel for conferences and sample procurement.

Requirements Applicants are expected to hold a PhD in Bioarchaeology, Anatomy, Biological Anthropology, Zoology or other relevant subject. The PDRA will need to demonstrate a record of both independent and collaborative research alongside evidence that they can develop and produce their own publications and research papers. Responsibilities

- Work in consultation with the PI and the project team to plan and manage the programme of genetic analysis and take a lead role in the sampling strategy - Ascertain the presence of endogenous DNA in ancient chicken remains (including bones and eggshell) using a variety of extraction and sequencing techniques - Research and design baits to capture both mitochondrial and nuclear targets - Analyse and interpret the genetic results using appropriate phylogenetic and sta-

tistical software packages - Work alongside members of the Durham Evolution and Ancient DNA (DEAD) lab and liaise with colleagues on the wider AHRC project to develop and share best practice and future research collaborations - Take a leading role in bringing research results to publication - Participate in project administration, and in the organization of workshops associated with the project - Assist in the development and maintenance of the project website - Present research results in both academic conferences, to the public at outreach events, and to the Project Team at meetings held every 4 months for the duration of the grant

Person Specification Essential - PhD in Bioarchaeology, Anatomy, Biological Anthropology, Zoology or other relevant subject. - Research in the extraction and sequencing of ancient DNA - Ability to present research at seminars & conferences - Ability to produce research publications - Good organisational skills - Initiative and creativity in problem solving - Familiarity with relevant software packages

Desirable - Experience in population genetics, bioinformatics, next generation sequencing, and bait capture techniques

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ETH Zurich ModellingVirology

Postdoc position in mathematical immunology and virology at the ETH Zurich, Switzerland:

A postdoctoral position is available in the group of Roland Regoes at the ETH Zurich (see www.tb.ethz.ch/research/Regoes). In our group we study quantitative aspects of infectious diseases within their hosts.

We are looking for a postdoc interested in studying the within host dynamics of viruses and their interaction with the immune system. Applicants for the positions should have strong quantitative skills. We therefore encourage people with a background in mathematics, biostatistics, bioinformatics or physics to apply. The starting date can be as soon as possible, but we are fairly flexible what that is concerned.

The specific questions, which we would like to address over the next years, revolve around infering the population dynamics of the virus from high-throughput genetic data. We would like to find out what the viral sequence data, collected in infected hosts over time, tells us about the replication and spread of the virus within its host. We also plan to investigate the population dynamics of B-cells using detailed genetic data on antibody responses.

Experience of phylogenetic and phylogeographic methods would be extremely advantageous. The research in our group is conducted in close collaboration with experimental groups in Switzerland and oversees.

Our group is strongly linked with the theoretical biology group of Sebastian Bonhoeffer (http://www.tb.ethz.ch/research/Bonhoeffer) who works on the emergence and dynamics of drug resistance. This means that we have common group meetings, and the PhD student and the postdoc will be exposed to a wide range of interesting research on infectious disease dynamics.

Zurich is a great place to live and to do research. It is the home of two big universties (the University of Zurich and the ETH), and is an attractive city in beautiful surroundings with a multinational population and many educational and recreational opportunities.

To apply please send a letter describing your interest in this position, a CV and the names and contact addresses of two referees to me by email: roland.regoes@env.ethz.ch. Please apply until December 20, 2013. Informal enquires are also welcome.

Roland Regoes Institute of Integrative Biology, ETH Zurich ETH Zentrum, CHN H76.1 Universitaetsstr. 16 CH-8092 Zurich, Switzerland

tel: +41-44-632-6935 fax: +41-44-632-1271 email: roland.regoes@env.ethz.ch www.tb.ethz.ch/people/regoes/ roland.regoes@env.ethz.ch

Europe 2PDF 13PhD PlantPhylogenetics

The following positions all have phylogenetic exploration of medicinal plant diversity as an overall theme and approach.

MedPlant announces openings for 13 PhD (early stage researchers, ESRs) and 2 Postdoc (experiences re-

searchers, ERs) positions across Europe. MedPlant is a Marie Curie Initial Training Network (ITN) supporting a new generation of science researchers in Phylogenetic Exploration of Medicinal Plant Diversity. The successful candidates will participate in the MedPlant Marie Curie international training network and will work in a highly interactive international environment with other Marie-Curie PhD students, researchers, authorities, NGOs and industry.

All positions are fully funded by the European Commission under the FP7 People program. Candidates of any nationality can apply. Deadlines November 15th or November 30th, 2013. Candidates must be able to start March 1st, 2014 at the latest. Mobility and other eligibility criteria apply. See details at www.MedPlant.eu . PhD positions: ESR1. Correlating evolutionary and chemical space using ChemGPS-NP. Uppsala University. ESR2. Phylogeny and phytochemistry of Icelandic lichens and club mosses. University of Iceland. ESR3. Domesticating deadly carrots. Predicting the biosynthetic pathway of Thapsigargins for the treatment of solid tumours. University of Copenhagen. ESR4. Plantago major L. Travel tales of a worldwide weed. Predicting chemotypes from migration routes and habitats. University of Copenhagen. ESR5. Phylogenetic exploration of antitumor compounds in the giant genusEuphorbia L. University of Copenhagen. ESR6. Transmission of knowledge: a Nepalese case study. University of Reading. ESR7. Ethnobotany with the Chimalapas Zoque (Oaxaca, Mexico). Reconstructing pre-Columbian Macro-Mayan medicine. University of Cagliari. ESR8. History of medicinal plant use in Europe: A phylogenetic and organoleptic approach. University of Cagliari. ESR9. Phytochemistry and phylogeny of incense plants. University of Zürich. ESR10. Cultural consensus and bioprospecting for anti-Chagas medicinal plants in Bolivia. University of Bern. ESR11. Tools for identification in support of legal and safe use of medicinal plants. University of Reading. ESR12. EDGE-MED. Identification of evolutionarily distinct, globally endangered and potentially valuable medicinal plant species. University of Reading. ESR13. Substitution and adulteration of complexes of medicinal roots. University of Oslo. Postdoc positions (2 years): ER1. Correlating evolutionary and chemical space usingChemGPS-NP. AstraZeneca AB ER2. Predicting in vivo CNS activity. High content evaluation of physiological network-effects of complex plant extracts using Caenorhabditis elegansas model organism. Dr. Wilmar Schwabe Pharmaceuticals.

Nina Rønsted, Msc. PhD. Science Coordinator of MedPlant ITN Network www.MedPlant.eu Associate Professor Natural History Museum of Denmark Sølvgade 83, Opg. S. DK-1307 Copenhagen Phone: +45 35 32 22 48 nronsted@snm.ku.dk http://snm.ku.dk/-english/forskning/projects/phylogenetic_prediction/ Nina Rønsted <NRonsted@snm.ku.dk>

France SturgeonConservation

Post doctoral proposal on genetic monitoring of stocked European sturgeon in the Garonne and Dordogne Rivers (south west of France) Expected duration of the contract: 18 months (subject to the funding acceptance)

The European sturgeon Acipenser sturio is a species that collapsed in the 20th century. Formerly abundant all around Europe from the Baltic Sea to the Black Sea, there is currently still a genetically impoverished population in the Gironde. This species is the subject of a restoration program (captive stock and production of juveniles for restocking). Since more than 20 years, IRSTEA (National research institute of science and technology for environment and agriculture, near Bordeaux) has conducted basic and applied research to preserve the species. In particular, the experimental station at Saint Seurin Sur Isle can produce tens of thousands of juveniles dedicated mainly for stocking to restore the population in the wild.

It is necessary to evaluate the effectiveness of this method of management. In particular, the differential survival of juveniles should be tested according to several parameters: the stocked fry's family, the release sites and other parameters to be discussed. To provide some answers, a research subject trying to connect parent's origin to the survival of juvenile sturgeon released is developed. This work requires a microsatellite genotyping approach and the control of parentage softwares.

This program briefly presented will be proposed for funding by IRSTEA.

We are looking for an applicant who holds a PhD in biology (genetics or molecular biology specialties). The successful candidate will develop the methods of molecular biology and chose the appropriate parentage software amont several available ones, according to their characteristics and applications. The primary goal is to determine the parents of young sturgeon released into rivers and recaptured.

Expected skills - Good practice of traditional methods of molecular biology; - An understanding of population

genetics and molecular genealogy concepts; - An ease to explore (operating principle, scope ...) and use several statistical softwares; - Flexibility to work in multiple teams, in a molecular biology laboratory, with a computer, in the field; - The ability to write scientific articles in international journals.

Project preparation will follow the following steps: - Current October 2013: publication of the call for applications in various media - Early December ranking of the top 3 candidates - During December: funding demand to IRSTEA - If funding is granted, contract will start in March 2014 - contract period 18 months (10 months + additional 8 months conditional on the submission of a publication after 10 months)

Environment of the postdoctoral contract can be described as follows: Workplace: Research Unit 'Estuarine ecosystem and diadromous fish ' IRSTEA Cestas, main contact: Marie-Laure Acolas, researcher, marie-laure.acolas@irstea.fr, and Eric Rochard, unit director, eric.rochard@irstea.fr) Collaboration with 'Fish evolution ' team at ISEM (Montpellier University), contact and team director: Patrick Berrebi Patrick.Berrebi@univ-montp2.fr, Montpellier stays are planned.

To apply, please send simultaneously to the three addresses above your CV and a covering letter outlining how your skills coincide with the qualifications for this position and your research motivation. Thank you to specify your commitment to this project knowing that we can not guarantee that the project will be funded before February 2014 (cancellations during the process is equivalent to failure because the evaluation for funding is based on the couple research subject/candidate).

Deadline for applications: December 2, 2013

Proposition de contrat de post-doctorat Post-doc conditionnel de 18 mois sur le suivi génétique des repeuplements en esturgeons dans la Garonne-Dordogne.

L'esturgeon européen Acipenser sturio est une espèce qui a périclité au cours du 20ième siècle. Jadis abondante tout autour de l'Europe, de la mer Baltique à la mer Noire, il ne reste actuellement qu'une population génétiquement très appauvrie en Gironde. Cette espèce fait l 'objet d 'un programme de restauration (stock captif et production de juvéniles pour le repeuplement). L'IRSTEA (Institut national de recherche en sciences et technologies pour l 'environnement et l 'agriculture, près de Bordeaux) mène depuis plus de 20 ans des recherches fondamentales et appliquées pour conserver cette espèce. En particulier, la station d 'expérimentation de Saint Seurin Sur Isle permet de produire des dizaines de milliers de juvéniles dont la majeure partie est destinée au repeuplement du milieu naturel.

Il est nécessaire d 'évaluer l'efficacité de cette méthode de gestion. En particulier, la survie différentielle des juvéniles doit être testée en

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GeorgetownU PopGenetics

Postdoc in Population Genetics and Molecular Evolution

A postdoctoral position is available in the fields of population genetics and molecular evolution in the Hamilton Laboratory in the Department of Biology at Georgetown University. The position is for one year beginning 01 January, 2014 or thereabouts, with the possibility to extend the length of the appointment.

We seek a collegial and highly motivated individual with a PhD in ecology and evolution, genetics, genomics, computer science or a related field. Experience in evolutionary genetics, computational biology, careful attention to detail, and rigorous data organization are essential. Strong written and oral communication skills are also important qualifications.

The postdoctoral associate position requires background in evolutionary genetics, DNA sequence analyses, computer scripting, familiarity with next-generation DNA sequence data, and the ability to work independently and be highly organized.

The postdoctoral associate will be responsible for two primary projects. The first project is a study comparing nucleotide substitution rates in annual and perennial plants in the Carnation family (Caryophyllaceae) using transcriptome DNA sequence data. The postdoctoral associate will work collaboratively with researchers at multiple institutions to estimate and compare substitution rates using a range of software and scripts to make multiple sequence alignments, estimate substitution rates, and carry out statistical tests. The second project seeks to identify microsatellite genetic markers in two species using primary next-generation

DNA sequence data. This will require assembly of next-generation DNA sequence reads, searching these assembled sequences for repeats, designing PCR primers that flank repeat regions, and empirical testing of the PCR primers to determine if the loci are polymorphic. The postdoctoral associate is also expected to develop an additional research project in an area of mutual interest and apply for funding for that project.

The position requires familiarity with computer scripting and programming, knowledge of methods to work with large amounts of DNA sequence data, the use of computer programs for tasks such as estimating phylogenetic trees, the ability to organize and tabulate results, as well as the ability to contribute to the writing of manuscripts describing the results.

The postdoctoral associate is expected to participate in the management of the laboratory, contributing to the education and supervision of undergraduate and graduate students.

The Department of Biology at Georgetown University is a collegial and interactive environment. Washington D.C. provides an exceptionally rich cultural and research environment, with opportunities to interact with researchers at the National Institutes of Health, the Smithsonian Institution, the USDA and various other local universities and research institutions.

Applications should be sent to Dr. Matthew Hamilton (hamiltm1@georgetown.edu) with the subject line 'Hamilton Lab Postdoc' and include the following: (1) a cover letter describing research interests and qualifications (no more than 1 page), (2) a CV, (3) contact information for three references, and (4) up to three representative publications. Review of applications will start November 01, 2013 and continue until the position is filled.

Georgetown University is an Equal Opportunity, Affirmative Action employer fully dedicated to achieving a diverse faculty and staff. All qualified candidates are encouraged to apply and will receive consideration for employment without regard to race, sex, sexual orientation, age, religion, national origin, marital status, veteran status, disability or other categories protected by law.

Thank you,

Rachel A. Yancey, MPP Program Coordinator Environment Initiative Georgetown University 37th and O Streets NW Reiss 209 Washington, DC 20057 202-687-4429 (office) 202-436-0444 (cell) environment.georgetown.edu

Rachel Yancey <ray6@georgetown.edu>

GeorgiaInstTech Biodiversity

A postdoctoral fellow position is available in the lab of < http://www.biology.gatech.edu/people/lin-jiang > Lin Jiang at the School of Biology, Georgia Institute of Technology. The successful candidate will be involved in a NSF-funded Dimensions of Biodiversity project investigating multiple dimensions of biodiversity (species, functional, phylogenetic, and genetic) of plant and insect assemblages on the Thousand-Island-Lake islands in China. He/she will collaborate with an international research team (the project is jointly funded by the National Science Foundation of China) in activities including island surveys, field experimentation, and genetic and functional data collection and analyses. Applicants interested in these aspects of work in forest settings will be considered. Those with expertise in next-generation sequencing analysis, phylogenetic community ecology, and/or biodiversity and ecosystem functioning are especially encouraged to apply. The initial appointment will be for one year, but can be extended to multiple years pending satisfactory performance. The successful candidate will also have opportunities to develop independent lines of research. To apply, please email one pdf file containing the cover letter, CV, and the names and contact information of three references to Lin Jiang (lin.jiang@biology.gatech.edu). Review of applications will begin Nov 15 and continue until the position is filled. Start date can be as early as Jan 1 2004, but flexible otherwise.

Lin Jiang Associate Professor School of Biology Georgia Institute of Technology 310 Ferst Drive, Cherry Emerson Room A112 Atlanta, GA 30332 Phone: 404-385-2514 Fax: 404-894-0519 Email: lin.jiang@biology.gatech.edu Web: < http://www.biology.gatech.edu/faculty/lin-jiang/ > http://www.biology.gatech.edu/faculty/lin-jiang/

lin.jiang@biology.gatech.edu

INRA Bordeaux PopulationGenomics

"INRA Bordeaux PopulationGenomics"

Job description:

The general goal of the project is to study incipient ecological speciation in European oaks using genome scan approaches. The canditate will test a recent model of speciation with gene flow, reconciling "divergence hitchhiking" and "genomic hitchhiking" hypotheses. To this end a reference genome of oak is available and the genome of four sister species have been resequenced (pools of 15-20 genotypes) to a 250x coverage. The position will run for one year beginning 01 February 2014 or thereabouts, with opportunities to extend the length of the position within national or UE projects.

Scientific environment:

The candidate will reinforce a network of INRA scientists working in the frame of the GENOAK project (https://w3.pierroton.inra.fr/QuercusPortal/-index.php?p=OAK_GENOME_SEQUENCING).This ANR funded project aims at sequencing the pedunculate oak genome and identifying genes that matter for forest tree adaptation. The working location will be at the BioGeCo research unit (20 km south-west of Bordeaux, France: https://www4.bordeaux-aquitaine.inra.fr/biogeco_eng/).

Expected profile:

We seek for a scientist with an PhD degree and experience in the field of population genomics. Apart from sound expertise in population genetics and bioinformatics (the position requires knowledge of methods to work with large amounts of DNA sequence data), an excellent team spirit is required. Candidates should be fluent in English and have experience in paper writing. No prior experience with Plants is required.

Application:

Application with CV, a brief statement of research interests, contact information for two professional references and publication list should be submitted in an electronic form to Dr. Antoine Kremer (kremer@pierroton.inra.fr) and Christophe Plomion plomion@pierroton.inra.fr). Review of applications will begin on 1 November 2013 and continue until the position is filled. Do not hesitate to e-mail us for further details or questions.

Salary:

The monthly salary is ~ 2000EUROS net and include social security.

Christophe Plomion <plomion@pierroton.inra.fr>

INRA Nancy France StatisticalGenetics

Post-Doctoral Position Theoretical population genetics of clonal dispersal (INRA, Nancy, France)

A post-doctoral research position is available to assist with research developed during the CLONIX project supported by the French National Research Agency (ANR) http://www.agence-nationale-recherche.fr/en/-anr-funded-project/?tx_lwmsuivibilan_pi2[CODE]=-ANR-11-BSV7-0007 DESCRIPTION The aim of the Clonix project is to provide the scientific community with an in-depth revision of the population genetics and genomics of clonal organisms. The ground of the project is to assess, mostly from modelling approaches, the consequences of clonal reproduction on the genetic characteristics and structure of populations under a variety of evolutionary scenarios. One of the aim of this project is the study of the genetic consequences of dispersal for clonal organisms.

We are seeking candidates for a post-doctoral position in the field of theoretical population genetics and/or statistical inferences.

The successful candidate will assist in the modelling of clonal genetic structure generated by dispersal. The scientific objectives will be determined jointly with the applicant and can include: 1) analysis of genetic data collected after an invasion gradient in a clonal organism; 2) simulation of population genetic data according to various demographic scenarios of invasion; 3) development of simulation algorithms (coalescent or individual based modelling) 4) development of a statistical inferential framework to estimate dispersal and growth parameters.

He/She will benefit by working as a member of the IAM team within a network of young and enthusiastic collaborators interested in clonal population genetics, coalescent theory, evolutionary biology, plant pathology, mathematical modelling and statistics.

QUALIFICATIONS Candidates with a PhD in population genetics and interest in modelling (skills in mathematics, statistics and/or computer sciences) are encouraged to apply. Previous experience in clonal population genetics is appreciated but not required. Skills in statistical inference are a plus. Facility in academic writing will be appreciated.

PLACE OF WORK The position is available at Nancy (INRA campus at Champenoux), France. The successful candidate will join the "ecology team" of the "tree-microbe interaction" unit http://mycor.nancy.inra.fr/-IAM/ EMPLOYMENT PERIOD Applications will be examined upon receipt.

Application dead line is 22 November 2013.

Stating date, not later than 10 January 2014

COMPENSATION Salary will be from 23 000euro up to 40 000euro /year depending on experience. Appointment is for one year with renewal subjected to satisfactory work.

APPLICATION MATERIALS Applicants should submit 1) a cover letter including a statement of research interests, 2) a curriculum vitae, and 3) one to three letters of reference. Application documents can be written in French.

For further information, please contact Fabien Halkett: halkett@nancy.inra.fr Stéphane De Mita: sdemita@nancy.inra.fr

halkett@nancy.inra.fr

Jyvaskyla Finland WithinSpeciesVariationDefence

Post doctoral researcher (1+2 years) or PhD student (1+3 years): Within-species variation in chemical defence: trade-offs, noise or alternative strategies?

The Centre of Excellence in Biological Interactions< https://www.jyu.fi/bioenv/en/divisions/coe-interactions/ > funded by the Academy of Finland calls for applications for a post doc position or a PhD position focusing on within-species variation in chemical defence.

Defensive toxins are widely used by animals, plants and micro-organisms to deter natural enemies. The maintenance of toxin diversity both in quality and quantity is an important ecological question that requires consideration from an evolutionary perspective. The post doc or PhD student will seek alternative evolutionary explanations for the persistence of variation, and will study toxin diversity by focusing on

* why some individuals lack defence in an otherwise toxic prey population (cheating by automimicry), * why the toxin content of individuals varies within a population and * why the chemical constituents of defence vary.

The wood tiger moth Parasemia plantaginis will be used as study species. A successful candidate will have a PhD (post doc position) or masters (PhD position) in evolutionary biology, ecology, entomology or related discipline. She/he is motivated, enjoys problem solving, has a strong background in designing and conducting experiments, and has a record of successful publications. Experience in chemical ecology or chemistry is a bonus but ability to work together with chemists is essential; therefore, excellent communication skills are required.

We offer a stimulating, creative and international working environment, modern facilities, reliable funding, excellent career prospects and nice colleagues.

Please contact johanna.mappes('at')jyu.fi for informal inquiries and further particulars.

* Application deadline: 22 November 2013 * Applications should be addressed to Johanna Mappes and emailed to johanna.mappes('at')jyu.fi quoting "Post-doc/PhD" in the subject field. Applications should include a brief letter of motivation, CV, publication list and contact details of two references. * Starting date: immediately but negotiable * Salary: post doc 3000-3600 (gross pcm) depending on experience, PhD starting salary 2100 pcm. Health insurance and other benefits are included

Mappes Johanna <johanna.r.mappes@jyu.fi>

LehighUniversity ExperimentalEvolution

Postdoctoral Position in Experimental Evolution, Lehigh University

A postdoctoral position is available in Greg Lang's lab in the Department of Biological Sciences at Lehigh University. The Lang Lab uses experimental evolution and genomics to study the molecular basis of evolution in yeast; see our recent Nature paper (Aug 29;500(7464):571-4) or visit our lab website (www.glanglab.com) for examples of our work.

Applicants must have a PhD, or equivalent degree in molecular biology, genetics/genomics, systems biology, evolutionary biology, or related field. Candidates with degrees in physics, math, chemistry, computer science,

and engineering will be considered provided they have experience in a molecular biology laboratory.

Lehigh University is located in the Lehigh Valley region of Pennsylvania, which encompasses three metropolitan areas: Allentown, Bethlehem, and Easton. We are about an hour outside of Philadelphia and an hour-and-a-half from New York City.

The position will run for at least two years, with opportunities to extend the position depending on funding availability. Salary will be based on the NIH scale. To apply, please email your CV, a description of your research interests, and contact information for three references to Greg Lang (glang@lehigh.edu). Applications will be considered as they are received.

glang@lehigh.edu

Liverpool EvolutionInsecticideResistance

We are seeking to appoint a Post Doctoral Research Assistant to work as part of an LSTM based multidisciplinary team of scientists involved on an NIAID-funded project on the evolutionary genetics of insecticide resistance in the malaria vector Anopheles gambiae. The project focuses on the use of genomic and transcriptomic approaches to identify and validate genes associated with insecticide resistance.

Working within an active molecular biology group, you will undertake research work on insecticide resistance associated mutations as well as working collaboratively with project partners at the International Centre of Excellence in Malaria Research (ICEMR), Uganda and with the Malaria Programme of the Wellcome Trust Sanger Institute. The post will therefore require you to have strong molecular biology and genetic analytical skills along with experience in the design and execution of genomic and transcriptomic studies.

Full details may be found at: http://-www.lstmliverpool.ac.uk/working-with-us/human-resources/current-vacancies/ref-346 Martin James Donnelly

Professor of Evolutionary Genetics Department of Vector Biology Malaria Programme Liverpool School of Tropical Medicine & Wellcome Trust Sanger Institute Pembroke Place Hinxton Liverpool Cambridge L3 5QA CB10 1SJ Tel +44(0) 151 705 3296 Fax +44(0) 151 705 3369 Email m.j.donnelly@liv.ac.uk Web http:/-/donnelly.openwetware.org/Home.html Skype martin-donnelly

"Donnelly, Martin" <M.J.Donnelly@liverpool.ac.uk>

London EvolutionMolecularSystems

A postdoc position, supported by a generous career development fellowship, is available in my lab (see below). I'm happy to informally discuss alternative projects (within my areas of interest and expertise) with strong candidates - just drop me an email.

Tobias Warnecke

Postdoctoral Research Fellow (3 Year fixed term)

>From £31,686 - £37,040 pa inclusive London, UK

A 3 year postdoctoral position is available at the MRC Clinical Sciences Centre and Imperial College London to work in the Evolution of Molecular Systems group headed by Dr Tobias Warnecke. The group focuses on the evolutionary analysis of genome-scale biological sequence data to understand how various aspects of cellular biology affect evolutionary processes (for further information please visit http://www.csc.mrc.ac.uk/-Research/Groups/IB/MolecularSystems/ or contact Dr Warnecke for an informal discussion about the post).

We are looking for an enthusiastic, creative postdoctoral scientist, preferably with a background in functional or evolutionary computational genomics and experience in analyzing genome-wide data, particularly of the kind generated by next generation sequencing experiments (e.g. ChIP-Seq, RNA-Seq). The candidate should have a strong publication record in the field, excellent verbal and written communication skills, and a track record of addressing scientific problems in a innovative, thorough and efficient manner. The candidate should be proficient in at least one programming/scripting language (perl, python, etc.) and familiar with applying multivariate statistical analysis to complex data sets (ideally in the framework of the R programming language). A keen interest in evolutionary problems is highly desirable.

The project focuses on understanding the evolution of cryptic processing sites (splice sites, polyadenylation sites, etc.) in a variety of model genomes through integrating evolutionary and protein-RNA/DNA interaction data. In addition to the main project, the candidate will be able to develop and carry out his/her own

line of research within the group's areas of interest and expertise. Strong candidates will enjoy a large degree of independence in determining the direction of their own research. We are not tied to a particular model system and candidates from both eukaryotic and prokaryotic backgrounds are equally encouraged to apply.

The Clinical Sciences Centre is an Institute funded by the MRC and is a Division of the Faculty of Medicine, Imperial College. Based on the Hammersmith Hospital Campus in West London (W12), the CSC has first class facilities and provides investigators from clinical and basic science backgrounds with the opportunity to pursue innovative, multidisciplinary research within the established clinical base of Imperial College. For more information, visit www.csc.mrc.ac.uk . This post is a Career Development Fellowship to support post-doctoral scientists in early or changed career training and help establish them as successful research scientists in their chosen field. The Clinical Sciences Centre (CSC) is an institute funded by the Medical Research Council (MRC) and is a division of the Faculty of Medicine at Imperial College London, a thriving research environment with state-of-the-art facilities and equipment, including micro MRI and PET imaging.

Applications are handled by the UK Shared Business Services; to apply please visit our job board at http://www.topcareer.jobs/Vacancy/irc113153_3696.aspx to submit a cover letter and CV. Applicants who would like to receive this advert in an alternative format (e.g. large print, Braille, audio or hard copy), or who are unable to apply online should contact us by telephone on 01793 867003, Please quote reference number IRC113153.

Closing date for all completed applications is 25th October 2013.

'The Medical Research Council is an Equal Opportunities Employer' Final appointment will be subject to pre-employment screening. Tobias Warnecke INTERPOD Fellow Kondrashov lab Centre de Regulació Genòmica Barcelona tobias.warnecke@crg.eu http://big.crg.cat/people/twarnecke Tobias.Warnecke@crg.eu

LouisianaStateU VertebrateMolecularSystematics

Postdoctoral Position in Vertebrate Molecular Systematics and Population Genetics

The Museum of Natural Science at Louisiana State University is seeking an enthusiastic and highly motivated Postdoctoral Researcher to join our multidisciplinary research team working on various aspects of vertebrate systematics and population genetics using massively parallel sequencing.

The successful candidate will conduct research in coordination with one of the Curators. The candidate will also be responsible for helping with the laboratory supervision of graduate and undergraduate research assistants and management of the Museum molecular genetics core facility. Ongoing projects in the lab include systematics and population genetics studies of birds, fish, mammals, reptiles and amphibians.

Minimum qualification requirements are: 1) Ph.D. or equivalent degree in biology or related discipline; 2) experience in molecular methods, evolutionary biology, and computational biology; 3) strong publication record; 4) and an ability to manage an active laboratory used by a diverse population of researchers (undergraduates, graduate students, postdoctoral researchers, and Curators). Experience with next-generation (massively parallel) sequencing techniques (e.g., target capture, ddRad) will be seen as a plus. Annual salary is $38,354 plus health and retirement benefits. This is a full-time, one-year (renewable up to three years) position. Baton Rouge is a vibrant and culturally diverse city with a low cost of living.

Review of applications will begin November 1, 2013, and the position will have a desired start date in January 2014. To apply go to https://lsusystemcareers.lsu.edu/applicants/Central?quickFind=56816 If you have questions about applying please contact Tammie Jackson (tjacks9@lsu.edu): CV, statement of research interests, and three letters of reference. For questions about the position contact Robb Brumfield (robb at lsu.edu). LSU is an Equal Opportunity-Affirmative Action employer.

Robb Brumfield <robb@lsu.edu>

MNS NorthCarolina MicrobialOutreach

Subject: Post-doc position blending microbial ecology and science education/outreach

The Genomics & Microbiology Laboratory at the NC

Museum of Natural Sciences is seeking a post-doc excited about the prospect of bringing real science to middle school classrooms. The post doc will be part of a collaborative team of scientists and educators from the Museum and NC State University that has been recently assembled for the NSF-sponsored Students Discover project.

The position will involve conducting original research relevant to the ecology of soil microbes and integrating findings and methods into middle school curricula. Potential research foci include, but are not limited to, investigation of decomposition or nitrogen fixation capabilities of soil microbial communities, fungal and/or bacterial symbionts of plants, identification of novel compounds produced by soil microbes, and response of soil microbial communities to urban and global warming.

Position appointment will last for 3 years, with annual reviews, with the possibility of extension to 5 years. Ideal start date is January 2014, but is flexible; work location (Raleigh, NC) is not flexible.

Please see full job description and instructions for application here: http://www.yourwildlife.org/2013/10/-post-docs-wanted/ Review of applications will begin Nov. 1 and will continue until a suitable candidate is found.

Please direct questions to Julie Urban(julie.urban@naturalsciences.org)

Thanks!

Julie Urban, Ph.D. Assistant Director, Genomics & Microbiology Laboratory Nature Research Center, NC Museum of Natural Sciences 11 West Jones St. Raleigh, NC 27601

"Urban, Julie M" <julie.urban@naturalsciences.org>

MaxPlanckInst Ploen HybridSpeciation

Postdoc in evolutionary genetics of hybrids:

Max Planck Institute for Evolutionary Biology, Plön, Germany Postdoc position in evolutionary genetics of hybrid fish Application deadline: October 30th 2013

The group "evolutionary genetics of fishes" lead by Dr. Arne W. Nolte at the Max Planck Institute for Evolutionary Biology in Plön, Germany, is offering a 3 year postdoc position in evolutionary genomics of hybrid fish. This project is financed for five years and there is a possibility for an extension of up to two years. Project start is February 2014 and the postdoc should ideally begin work in spring 2014. The salary of the postdoc will be according to the standard German pay scale including all social benefits (TVöD E13 salary).

The postdoc will assume a central position in our project "EVOLMAPPING" that is funded through an ERC starting grant. The goal of this project is to analyze evolutionary genetic processes in invasive Cottus, a lineage of fish that represents an example for the early steps of hybrid speciation. We will perform an exhaustive search of the Cottus genome to identify genes involved in evolutionary change induced through natural hybridization. The strategy is to integrate analyses of gene expression, genetic mapping and screens for genotypic selection in laboratory populations and wild fish to identify the links between genotypic and phenotypic evolution. Note that we are offering PhD positions in the framework of the EVOLMAPPING project and that the postdoc can interact with students and and contribute to the development of their projects.

We are seeking a postdoc with skills in programming (scripts and analysis pipelines), genetic mapping, next generation sequence analysis and genome evolution. The postdoc is expected to actively contribute in our ongoing collaborations with colleagues studying population genomics and whole genome re-sequencing of Gasterosteus and mice and who develop programs for mapping new genome sequences to distantly related reference genomes. The core dataset that will be generated includes Illumina sequencing of more than 20 Cottus genomes for population genomics, some of which will be used for de novo genome assembly. The latter will be supported by up to date approaches to facilitate genome assembly as for example sequencing of large insert libraries and RAD tag mapping of laboratory F2 crosses and natural hybrids to aid genome assembly. The expected output of the postdoc is to contribute to the genome assembly and to compare the genomic makeup of invasive Cottus with their parental species. The postdoc will be involved in fundamental research questions on comparative genomics relating to adaptive evolution and speciation and in comparisons between Cottus and distant reference genomes and we highly appreciate a creative postdoc who contributes to and extends our research agenda to learn about evolutionary change in hybrid fish.

We offer an English speaking and ambitious working environment at the Max Planck Institute for Evolutionary Biology in Plön, Germany. The Institutes main fields of work include evolutionary ecology (Prof. Dr. M.

Milinski), evolutionary genetics (Prof. Dr. D. Tautz) and evolutionary theory (Prof. Dr. Arne Traulsen) and experimental evolution (Prof. Dr. P. Rainey) and hosts a number of research groups. The MPI in Plön collaborates with the nearby Christian Albrechts University of Kiel, Germany in a joint International Max Planck Research School that attracts PhD students from abroad which contributes to a multicultural working atmosphere.

The Max Planck Society is committed to employing more handicapped individuals and especially encourages them to apply. The Max Planck Society seeks to increase the number of women in those areas where they are underrepresented and therefore explicitly encourages women to apply.

Please apply by email to Arne Nolte (nolte@evolbio.mpg.de) until October the 30th 2013 and include a letter describing your motivation and scientific credentials, a scientific CV and pdf files of two relevant publications.

Arne Nolte

Department for Evolutionary Genetics

Dr. Arne W. Nolte

Group Leader

Max Planck Institute for Evolutionary Biology August Thienemann Strasse 2 24306 Plön, GERMANY

Phone: +49 4522 763-372

Email: nolte@evolbio.mpg.de www.evolbio.mpg.de/~nolte nolte@evolbio.mpg.de

NIOO Wageningen EvolutionaryGenomics

The department of Animal Ecology at NIOO-KNAW offers a position for a

Molecular Geneticist post-doc Vacancy number AnE-013086

Project description To understand the causes and consequences of genetic variation in seasonal timing of reproduction in great tits (Parus major) we will create selection lines of early and late reproducing birds using genomic selection. For this, we will genotype (using a 650k SNP chip) a large base population of wild birds and use this to calculate genomic breeding values for the birds in the selection experiment. The phenotypic response to selection will be assessed both in birds housed in controlled environment aviaries and in selection line birds introduced to the wild, to record phenotypic responses under natural conditions. Furthermore, we aim to identify those parts of the genome which will change in response to selection to explore underlying functional changes. Detailed molecular analysis will be based on an annotation and analysis of the great tit genome assembly during the initial phase of the project. The project is funded by an Advanced Grant of the European Research Council (ERC) and will be carried out in close collaboration with the Animal Breeding and Genomics Centre of Wageningen University. The successful applicant will form part of a research team consisting of a quantitative geneticist and two PhD students who will be appointed for this project. Requirements We are looking for a highly motivated and enthusiastic person with a PhD in molecular genetics, molecular ecology or equivalent and with ample experience in working with large high-throughput sequence datasets, preferably with data from wild organisms. Experience with bioinformatics and genomic selection would be desirable. Affinity with ecological research is a pre-requisite, as well as the ability to work in a team.

Appointment This is a temporary appointment, initially for one year and upon satisfactory to be prolonged for a maximum of five years total. Starting date is 1 January 2014.

Salary Salary depends on training and work experience, the maximum gross monthly salary of a full-time appointment is euro 3.831,00 scale 10, Collective Agreement for Dutch Universities (CAO-Nederlandse Universiteiten), excluding 8% holiday pay and a year-end bonus. We offer an extensive package of fringe benefits.

Location The Netherlands Institute of Ecology, NIOO-KNAW in Wageningen, The Netherlands. The Netherlands Institute of Ecology (NIOO) is a top research institute of the Royal Netherlands Academy of Arts and Sciences (KNAW). NIOO-KNAW focuses on fundamental and strategic research into individual organisms, populations, ecological communities, and ecosystems. The mission is to carry out excellent research in ecology.

Information Additional information is available upon request from Prof. dr Marcel E. Visser (tel. 0317-47 34 39, e-mail: m.visser@nioo.knaw.nl). Information on the Netherlands Institute of Ecology can be found at http://www.nioo.knaw.nl Applications Please send your application including complete curriculum vitae and names of three referees and vacancy number to vacature@nioo.knaw.nl. The closing date for the applica-

tion is 1 November 2013; interviews are scheduled for 14 & 15 November 2013.

p.gienapp@nioo.knaw.nl

NUI Galway Bioinforatics

The post will be based at NUI Galway Ireland for 14 months with the possibility of extension. The post will begin as soon as possible after November 2013.

We are interested in the proteins that enable barnacles to stick underwater. The project involves isolating candidate adhesive genes in stalked barnacle Lepas anatifera using a transcriptome experiment to narrow-down candidate adhesive genes by subtraction. We already possess cement peptides sequenced de novo from Mass Spectroscopy and the transcriptome will give us a comprehensive species-specific database to search for the target genes. Candidate adhesion genes identified using these steps will be subjected to confirmation studies to check the gene expression patterns are in the adhesive tissues. Basic bioinformatic analyses will be carried out to examine homology of adhesive domains across species and work out which molecular tricks are conserved to enable adhesion. Perhaps the most important outcome would be the ability to use adhesive genes to clone quantities of protein for application and testing on surfaces (e.g. titanium, gold or bone). Providing adhesive protein material for testing would be a major advance in developing novel wet adhesives. Future grant submissions would be strengthened by this research and the transcriptome will boost future funding applications in a variety of areas. We hope to do this is collaboration with the candidate.

The salary range for this post 37,750 - 41,918 per annum. All candidates must have earned a PhD in molecular biology. Preference will be given to scholars with demonstrated excellence and creativity in research involving genome or transcriptome databases. Laboratory skills including working with RNA, cDNA library creation and qPCR are essential. Experience of cloning in yeast and E. coli and with in situ probe development and marine animal culture are desirable. Interested candidates should send a letter of application addressing the essential and desirable requirements with curriculum vitae to Dr Anne Marie Power, NUI Galway, Ireland annemarie.power@nuigalway.ie Review of applications will commence at the end of October, 2013 and will continue until the position is filled.

"Power, Annemarie" <annemarie.power@nuigalway.ie>

NewMexicoStateU EvolutionaryBiolBioinformatics

Focus: Evolutionary Biology and/or Bioinformatics Location: Dept of Biology, New Mexico State University, Las Cruces, New Mexico NMSU job posting number 1300022S (http://jobs.nmsu.edu/postings/16451)

The Bailey lab (http://biology-web.nmsu.edu/~bailey/) in the Dept of Biology (NMSU) has an opening for a postdoctoral fellow with interest in evolutionary biology and bioinformatics. This position is in association with an NSF funded research project on genome and transcriptome evolution in the genus Leucaena (Leguminosae) and includes a competitive salary ($50,000) plus benefits. Prior research on plant groups is not required. The successful applicant will be involved with experimental design, genome and transcriptome sequencing, and comparative bioinformatics. Those with strong interests and a record of successful research in any of these areas are especially encouraged to apply. The initial appointment will be for two years with the potential for extension. The postdoctoral fellow will also have extensive opportunities to travel for workshops, meetings, and additional training opportunities. Those wishing to gain additional teaching experience or related career advancement opportunities can take advantage of NMSUs Teaching Academy (http://teaching.nmsu.edu/) and HHMI Scientific Teaching Fellowships programs (http://hhmi.nmsu.edu/stf-details/).

NMSU is in Las Cruces New Mexico, at 4000 in the Northern Chihuahuan Desert, offering exceptional outdoor recreational opportunities and relatively low cost of housing. NMSU is a public, land grant, minority-serving institution recognized by the Carnegie Foundation as RU/H (research university with high research activity). The Department of Biology is a thriving community of 21 faculty members supporting undergraduate majors in Biology, Microbiology, Genetics and Conservation Ecology. More than 70 graduate students are currently enrolled in MS and PhD programs within the department. The department supports core facilities for microscopy, isotope chemistry, tissue culture, next-generation sequencing, and natural history collections. For more information see: http://bio.nmsu.edu/-. Applications should be submitted online (http:/-

/jobs.nmsu.edu/postings/16451) and include a statement of interest, unofficial grad transcripts, and CV. Three letters of reference will be automatically requested from the online application system. For questions, or to discuss your interest in the position, please feel free to contact Donovan Bailey via e-mail (dbailey@nmsu.edu). Review of applications will begin on November 12, 2013 and continue until filled. The successful candidate can start in the position as early as January 1, 2014.

Donovan Bailey Associate Professor of Biology New Mexico State University Las Cruces, NM 88003 (575)571-2591

Donovan Bailey <dbailey@nmsu.edu>

OxfordU EvolutionaryGenetics

Postdoctoral Research Assistant - Animal Genetics. Vacancy ID - 107494

Research Laboratory for Archaeology and the History of Art, Little Clarendon Street, Oxford. OX1 2HU Grade 7: Â£29,541 per annum

Applications are invited for a postdoctoral candidate to join a multidisciplinary team under the supervision of Prof Michael Petraglia on a project funded by the European Research Council investigating past environmental change and demographic history in the Arabian Peninsula.

The Postdoctoral Research Assistant will provide essential and specialist experience in animal genetics. The overall objective is to understand animal history in the Pleistocene and Holocene of Arabia, and to ultimately relate this information to how human populations in the region adapted to fluctuating environments over time. The candidate will possess an excellent academic track record along with a degree in a relevant area as well as having completed a PhD in a relevant discipline. They must be self-motivated, have excellent organisational skills, demonstrate a willingness to share results with other team members and co-author research findings, and have previous experience of laboratory studies in animal genetics.

Informal enquiries are encouraged and can be made to Prof. Michael Petraglia (email: michael.petraglia@rlaha.ox.ac.uk).

This post is for 24 months, part of which will be spent in the Arabian Peninsula. Only applications received before midday on Friday 11 October 2013 will be considered. You will be required to complete an application form and submit a covering letter with a CV. Interviews will be held in mid-November, with a proposed start date of mid-January.

Applications for this vacancy are to be made online:

https://www.recruit.ox.ac.uk/pls/hrisliverecruit/-erq_search_package.search_form?p_company=-10&p_internal_external=E Administrative Assistant Research Laboratory for Archaeology, University of Oxford New Barnett House, Level 1, 28 Little Clarendon Street, Oxford. OX1 2HU

+44 (0) 1865 611741

Hours of work: Mon - Thurs

http://www.arch.ox.ac.uk/PALD.html Elaine Russell-Wilks <elaine.russell-wilks@rlaha.ox.ac.uk>

ParisGrenoble QuantGenetBirds

We are looking to hire a postdoc to work on G matrices and evolutionary potential in wild populations. This work will be a part of a project dedicated to investigate evolutionary potential in wild populations, in collaboration between the Museum of Natural history in Paris, and the Center for Alpine Ecology in Grenoble.

Impact of climate change on biodiversity will greatly depends on populations abilities to adapt to environmental changes. While biodiversity is being increasingly affected by global changes, there is an urgent need to assess which species are more at risk of extinction. This renews interest for a long lasting question on whether patterns of genetic variance and covariances between life history traits (so called G matrix) can be considered labile or constrained by species niches or evolutionary history. The post-doc will work on an important database of 17 species, combine these data to phylogenetic data, to investigate the macroevolutionary stability/lability of G matrices in birds, and how the structure (variance, integration, lines of least resistance) evolves in relation to life-history traits, different niches aspects (diet, habitat).

Analyses will be based on data from long term pedigree populations and we expect a candidate with strong skills in coding, data analyses, quantitative genetics, as

well as a strong interest in linking micro and macro evolutionary patterns and bridging their methods together.

This is a two years post doc and the successful applicant should spend time in Paris and Grenoble. French is not mandatory as in English will be the working language. The monthly salary is ~ 2000EUR and include social security.

We would like this post doc to start as soon as possible, but there is no specific deadline, the position is open until we find the suitable applicant. Don't hesitate to e-mail us for further details or questions,

Céline Teplitsky & Sébastien Lavergne

teplitsky@mnhn.fr sebastien.lavergne@ujf-grenoble.fr

Celine Teplitsky Département Ecologie et Gestion de la Biodiversité UMR 7204 Unité Conservation des Espèces, Restauration et Suivi des Populations Case Postale 51 55 rue Buffon 75005 Paris

Webpage :http://www2.mnhn.fr/cersp/-spip.php?rubrique96 Fax : (33-1)-4079-3835 Phone: (33-1)-4079-3443

Celine Teplitsky <teplitsky@mnhn.fr>

SainsburyLab England Bioinformatics

Bioinformatics Post-doctoral Researcher

We are looking to recruit a dynamic and highly motivated candidate to drive an exciting high-risk, high-reward project studying the evolution of pathogen genomes using population genetic/genomics and mathematical modelling approaches. Minimum qualifications include a Ph.D. and post-doctoral experience in population genetics/genomics or biomathematics. The project, which will begin from a theoretical and computational standpoint and include later experimental verification steps will have scope for much creativity from the eventual appointee. Success will require the development of novel agent-based models of genome evolution and expansion in silico thus proven experience with population genetic/genomic analysis and experience with software development and a record of addressing scientific problems in a innovative, thorough and efficient manner will be essential.

The post is a Sainsbury Laboratory core-funded position available for a minimum of two years in the first instance with the possibility of extension.

To apply, please submit a letter of interest, curriculum vitae, up to three recent and relevant publications, statements of research interests, and a list of names and contact information of up to three referees.

Questions can be directed to Dr. Daniel MacLean dan.maclean@tsl.ac.uk

Many thanks

Kim Blanchflower HR Manager The Sainsbury Laboratory

+ 44 (0)1603 450466 phone www.tsl.ac.uk www.tsl.ac.uk/tslplus.htm The Sainsbury Laboratory is a not for profit charity, number 1065510, and a company limited by guarantee, registered number 3346853 in England and Wales. Registered office: John Innes Centre, Norwich Research Park, Norwich NR4 7UH, UK

"Kim Blanchflower (TSL)" <kim.blanchflower@sainsbury-laboratory.ac.uk>

TulaneU FishConservation

A postdoctoral position is available in the Blum Lab (www.tulane.edu/~mjblum) in the Department of Ecology & Evolutionary Biology at Tulane University. The incumbent will engage in collaborative research on the conservation, landscape genetics, macroecology and/or biogeography of stream fishes in eastern North America and diadromous fishes in the Hawaiian Islands. The incumbent will be expected to contribute to studies on one or more of the following topics (1) genetic analysis of native species responses to environmental stressors in eastern North American and Pacific island stream ecosystems; (2) genetic, field, and otolith-based assays of metapopulation dynamics of diadromous fishes across the Hawaiian archipelago; (3) the evolutionary origins of freshwater fish diversity across eastern North America; and (4) island biogeography of amphidromous and secondary freshwater fishes. The incumbent will be encouraged to pursue other research areas that complement these topics.

Preference will be given to candidates possessing in-depth knowledge of molecular techniques, analysis of population genetic and phylogenetic data, and field based studies of stream fishes. However, candidates

who are carrying out innovative research and who have the desire to develop new skills and training are encouraged to apply. An initial appointment will be for two years, with continuation dependent upon performance. A start date in late 2013 or a mutually agreeable date in early 2014 is strongly preferred. Salary will be commensurate with experience and qualifications. Send via email attachment a letter of application, curriculum vitae, statement of research interests, and names and addresses of three references to Dr. Michael Blum at mjblum@tulane.edu . For earliest consideration, apply by 1 November 2013. Applications will be accepted until the position is filled.

Tulane University is an Affirmative Action/Equal Employment Opportunity/ADA Employer. Women and minorities are encouraged to apply.

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 cbr.tulane.edu

< http://www.tulane.edu/%7Emjblum >

"Blum, Michael J" <mjblum@tulane.edu>

UBritishColumbia PopGenomics

A postdoctoral research position is available in the laboratory of Dr. Michael Russello at The University of British Columbia (Okanagan Campus) in the area of population and conservation genomics starting Early 2014 (Jan./Feb.). I am looking for a highly motivated individual to join our group studying fine-scale and range-wide drivers of neutral and adaptive population divergence in kokanee, the freshwater obligate form of sockeye salmon. Individuals with strong bioinformatic and analytical skills are especially encouraged to apply. Prior experience constructing RAD libraries and processing/mining Illumina short read sequence data is highly desirable.

To apply, e-mail your CV and contact information for three references to michael.russello@ubc.ca. Materials must be received by Nov. 4 for full consideration, but late applications will be accepted until the position is filled. You can visit the lab website (http://-people.ok.ubc.ca/mirussel/) for more information. The position is subject to final confirmation of funding.

Michael Russello Associate Professor Department of Biology University of British Columbia Okanagan Campus Kelowna, British Columbia Canada

michael.russello@ubc.ca http://people.ok.ubc.ca/-mirussel/ michael.russello@ubc.ca

UCLondon SexCooperationCheatingEvolution

Postdoctoral Research Fellowship Sex, Cooperation and Cheating in the Evolution of Complex Life

University College London

A 2-year postdoctoral research fellowship funded by the EPSRC is available in the Department of Genetics, Evolution and Environment, UCL. We seek an enthusiastic and highly motivated postdoc, with experience in population genetics, game theory, mathematical modelling and computer simulation. The post holder will join the research groups of Professor Andrew Pomiankowski and Dr Nick Lane. They will also be a member of CoMPLEX and the 2020 Science Programme, a collaboration between UCL, Oxford University and Microsoft Research Cambridge. They will join six other fellows appointed on this programme at UCL.

www.ucl.ac.uk/gee/staff www.ucl.ac.uk/complex www.2020science.net Complex eukaryotes originated from the symbiotic union of independent bacterial and archeal cells and the development of obligate organelles (mitochondria and chloroplasts). This project will extend existing theoretical work to consider the origins and consequences of this evolutionary transition. A number of separate projects are envisaged including: evolution of sexual reproduction via a two-step meiosis involving chromosome doubling, cell fusion and reduced chromosomal content; the role of mitochondria in the regulation of cooperation and cheating in multicellularity; the use of toxins and reactive oxygen species as signals within and between cells in the origins of apoptosis (perhaps understandable in terms of the handicap principle) and its co-option into multicellular organisms; the importance of mitochondrial and nuclear mutation rates in relation to mitonuclear coadaptation and evolutionary constraints on asexual reproduction; evolution of the network of gene and prot ein interactions between mitochondria and nucleus in controlling their social interaction (regulation,

adaptation, suppression of noise) and evolvability.

Suitable candidates will be highly motivated researchers with a PhD in a relevant area of science, such as: mathematical or computational biology, computer science or biology. Research experience of mathematical or computational modelling is essential. The postholder is expected to be exceptional early-stage scientists who will apply for further research fellowship funding during the period of the award.

Closing Date: 25 November 2013 (5pm UK time) A job description and person specification, and information on how to apply, can be accessed via http://www.2020science.net/about/opportunities or at www.jobs.ac.uk (search term "complex"). If you have any queries regarding the application process, please contact Dr Hugh Martin, h.s.martin@ucl.ac.uk, (Tel: +44 20 7679 4802). Please send expressions of interest & CV to ucbhpom@ucl.ac.uk and nick.lane@ucl.ac.uk

Andrew Pomiankowski Professor of Genetics UCL ucbhpom@ucl.ac.uk

a.pomiankowski@ucl.ac.uk

UCalifornia Berkeley EvolutionSocialInsects

POSTDOCTORAL SCHOLAR: Behavioral Ecology of Social Insects

The UC Berkeley Natural History Museums and Department of Environmental Science, Policy, and Management at UC-Berkeley are currently seeking a Postdoctoral Scholar in the laboratory of Dr. Neil Tsutsui.

We are seeking a Postdoctoral Scholar to study the behavior, genetics and chemical ecology of social insects. Previous work has focused on the genetics, behavior, and chemical ecology of the invasive, Argentine ant (*Linepithema humile*). In this species, genetic changes during introduction have altered individual behavior and, in turn, the social organization of introduced populations. These changes have contributed to the Argentine ant's invasive success by promoting the formation of massive "supercolonies" in the introduced range.

The central focus of the Postdoctoral Scholar's research will be production and perception of chemical signals that Argentine ants use to regulate fundamental behaviors, including foraging, queen production, and colony-mate recognition. The Scholar will perform manipulative laboratory experiments and local field studies. The Postdoctoral Scholar will also have an opportunity to contribute to an ongoing collaborative study of honey bee and bumble bee genetics and history in California, through the Berkeley Initiative for Global Change Biology (http://globalchange.berkeley.edu).

Publications from previous research can be downloaded from: http://nature.berkeley.edu/tsutsuilab. The salary range is between $39,264 - $46,092 commensurate with experience; generous benefits are included (http://vspa.berkeley.edu/postdocs). The initial appointment will be for one year, with an opportunity for renewal.

Minimum/Basic Qualifications Required:

The minimum qualifications required to be an applicant is the completion of all degree requirements except dissertation or equivalent by time of application.

Additional Qualifications:

Ph.D. or equivalent completed before the appointment and a strong background in one or more of the following areas: behavioral ecology, chemical ecology, population genetics, genomics, and functional genetics. Previous experience in insect biology is desirable, but not required.

Applicants must have less than five years of prior postdoctoral service.

Applicants should submit to https://aprecruit.berkeley.edu/apply/JPF00253, by November 7, 2013, a CV, a brief statement of research interests, copies of relevant publications and/or manuscripts, and contact information for two references. Applicants

All letters will be treated as confidential per University of California policy and California state law. Please refer potential referees, including when letters are provided via a third party (i.e., dossier service or career center), to the UC Berkeley statement of confidentiality (http://apo.chance.berkeley.edu/evalltr.html) prior to submitting their letters.

Questions regarding this recruitment can be directed to CNRHRASST@berkeley.edu

The University of California, Berkeley is an equal opportunity employer committed to excellence through diversity. Applicants should ask referees to review the UC Berkeley Statement of Confidentially found at: http://apo.chance.berkeley.edu/evalltr.html Neil Tsutsui <ntsutsui@berkeley.edu>

UCalifornia Berkeley InsectHerbivoreHostSpecialization

The Fine lab in the Department of Integrative Biology at UC Berkeley is seeking a Postdoctoral scholar to participate in a multi-year NSF-sponsored project that is investigating natural enemies, chemical defenses, and the diversity of Protium (Burseraceae) trees in Amazonian rain forests (see abstract below). The postdoctoral scholar will direct research to categorize the diversity and degree of host specialization of insect herbivores feeding on Protium trees, and integrate data on insect herbivore assemblages with datasets on plant defensive chemistry and an existing host-plant phylogeny. Position will be based in Berkeley but will involve significant travel and field time in Iquitos, Peru, Manaus, Brazil and/or French Guiana. Applicant should have significant tropical field experience, be familiar with molecular phylogenetic lab techniques, comparative methods, have significant analytical skills including proficiency in R and be fluent in Spanish and/or Portuguese.

The start date will be January/February 2014. Funding is available for two years, subject to review after one year.

Applicants should submit a CV, a brief statement of research interests, copies of relevant publications and/or manuscripts, and contact information for three references by email to Paul Fine at paulfine@berkeley.edu by November 11, 2013.

The University of California, Berkeley is an equal opportunity employer committed to excellence through diversity. Women and underrepresented minorities are especially encouraged to apply.

Abstract of NSF Grant:

Biologists have long hypothesized that insects and pathogens are directly involved in the origin and maintenance of plant diversity, especially in the extraordinarily diverse tropical rainforests. The evolution of novel chemical defenses that deter insects and pathogens has been thought to allow plants to expand their geographic ranges, thereby promoting the formation of new species. Very little is known about the identity or distribution of the enemies that attack tropical plants or how host-specific they are. In this research, populations of 45 species from a common, diverse genus of tropical rainforest trees (Protium) in Peru, Brazil and French Guiana will be studied to learn about which insects and pathogens attack the plants and how the plants defend themselves. By simultaneously studying natural enemies, plant defenses, and the evolutionary history of plants, insects, and soil pathogens the investigators will gain new insights on the processes that generate high biodive rsity in the Amazon basin. ââ

This project will train scientists both in Peru and the United States, with a focus on promoting opportunities for students from underrepresented socioeconomic groups. A summer field course in Peru will be developed for Peruvian and US students at the University of California at Berkeley, that will teach ecology, evolutionary biology, taxonomy of plants and insects, experimental design and research methods. This project will integrate research and education with international field biology and involve minority and socioeconomically disadvantaged students. Students will be recruited from an existing program at Berkeley that mentors first-generation college students, providing critical field biology opportunities for students who are generally offered only lab-based research positions.

paulfine@berkeley.edu

UCalifornia Davis EvolutionaryBiol

NEW BIOLOGY POSTDOCTORAL FELLOWSHIP– The College of Biological Sciences at UC Davis invites applications for the New Biology Postdoctoral Fellowship program that will bring outstanding young researchers to campus to conduct highly integrative research addressing major societal challenges. Fellows will have a home in a sponsoring college laboratory and will conduct research that leverages the tools and approaches represented by at least one additional laboratory at UC Davis.

The position is for TWO YEARS, subject to review after one year, and can begin as early as 1 July 2014. This position is covered by a collective bargaining unit. It has an annual salary of $50,000 plus benefits (health, dental and vision insurance), and $10,000 per annum in research and travel support. The Fellow will be expected to participate in graduate training activities in the area of interest and in the second year of the fellowship to present a workshop aimed at graduate students involving the transferal of new methods, tools, techniques or concepts to the UC Davis community. Interested early career individuals should estab-

lish communications with at least one host laboratory in the UC Davis College of Biological Sciences (http://biosci.ucdavis.edu/the_college/index.html) and a second bridge laboratory that can be from the CBS or any other UC Davis department. Associate Dean for Research, Peter Wainwright (pcwainwright@ucdavis.edu), can provide additional input on the fellowship.

ONLINE APPLICATION: Interested candidates should submit a cover letter, CV, a short (1-2 page) description of research accomplishments, a short (3-4 page) description of proposed research including names of both proposed faculty mentors, and copies of two publications, all in PDF format at: https://recruit.ucdavis.edu/apply/JPF00168 We require 3 letters of recommendation. The referees you list in the online application will receive an automatic notification from our system instructing them how to directly upload letters to our website. Refer to the on-line instructions for further information. For full consideration, applications (including letters of reference) must be submitted by 5:00 p.m., January 6, 2014. The University of California is an affirmative action/equal opportunity employer with a strong institutional commitment to the development of a climate that supports equality of opportunity and respect for differences. E-mail questions to Sally DiVecchia (svdivecchia@ucdavis.edu).

pcwainwright@ucdavis.edu

UCalifornia Davis PopulationBiol

EFFECTIVE: October 18, 2013

DEADLINE: December 16, 2013

POSTDOCTORAL FELLOW IN POPULATION BIOLOGY–The Center for Population Biology at UC Davis invites applications for a Postdoctoral Fellowship in Population Biology, broadly defined to include ecology, phylogenetics, comparative biology, population genetics, and evolution. We particularly encourage applications from candidates that have recently completed, or will soon complete, their PhD.

The position is for TWO YEARS, subject to review after one year, and can begin as early as 1 July 2014. This position is covered by a collective bargaining unit. It has a starting annual starting salary of $39,264 plus benefits, and $6,000 per annum in research support. The Fellow will be a fully participating member in the Center for Population Biology and will be expected to have an independent research program that bridges the interests of two or more CPB faculty research groups. We strongly encourage candidates to contact appropriate faculty sponsors before applying. We also ask that each Fellow propose a workshop, discussion or lecture series that they could offer to the community of population biologists at UC Davis; faculty sponsors or the Director of CPB, Jay Stachowicz, can provide additional input on this aspect of the fellowship. For samples of past workshop abstracts and more information about UC Davis programs in population biology, see http://cpb.ucdavis.edu/CPB%20Postdoc%20Fellowship.html . ONLINE APPLICATION: Interested candidates should submit a cover letter, CV, a short (1-2 page) description of research accomplishments, a short (1-2 page) description of proposed research including potential faculty mentors, a brief (1 page or less) description of their proposed workshop, and copies of two publications, all in PDF format at: https://recruit.ucdavis.edu/apply/JPF00177. Applicants should also provide the information requested for three referees. Once entered, applicants will electronically request letters from referees who will then be prompted by email with upload instructions. Refer to the on-line instructions for further information. For full consideration, applications (including letters of reference) should be submitted by December 16, 2013. The University of California is an affirmative action/equal opportunity employer with a strong institutional commitment to the development of a climate that supports equality of opportunity and respect for differences. E-mail questions to smmann@ucdavis.edu.

Jay Stachowicz <jjstachowicz@ucdavis.edu>

UCalifornia SanFrancisco StatisticalGenetics

Open Postdoctoral or Staff Position at UCSF

We are seeking a highly motivated individual with a background in Bioinformatics, Population Genetics, and/or Statistical Genetics for a post-doctoral or staff position within the Burchard laboratory in the Lung Biology Center at UCSF. Research in the Burchard lab is highly collaborative, with a focus on identifying genetic and environmental contributions to asthma and asthma-related traits in diverse human populations, in-

cluding pharmacogenetics. This position will involve advanced bioinformatic and statistical analysis of next-generation sequencing data, including whole-genome and exome sequences, RNA-seq, ChIP-seq, and targeted sequencing of the MHC and GWAS/admixture mapping peaks in Latinos and African Americans. The successful applicant will be responsible for developing and implementing bioinformatics pipelines, and performing statistical analysis of next-generation sequencing data. They will also be expected to provide general computational support to ongoing studies in the Burchard lab, including epigenetic, microbiome, and gene expression studies. The successful applicant will have the opportunity to advance their existing analytical skills as required by ongoing and future research projects, and to participate in the preparation and writing of manuscripts and grants. Applications from individuals with a background in studying organisms other than humans are equally encouraged.

Job Requirements:

- Ph.D. or Master's Degree in the area of Bioinformatics, Population Genetics, and/or Statistical Genetics - Experience in the analysis of next-generation sequencing data - Experience in manipulating large-scale genomic data and efficient utilization of computer clusters - Demonstrated knowledge and programming experience in UNIX, R, PYTHON and/or PERL - Familiarity and working knowledge of standard bioinformatics tools, packages, algorithms, and databases for the analysis of genetics data - Excellent written and verbal communication skills, and the ability to manage multiple projects - Highly motivated and committed to biomedical research

Please send resumes to Esteban Burchard, M.D., M.P.H for more information: Esteban.Burchard@ucsf.edu

Esteban Gonzalez Burchard, M.D., M.P.H. Harry Wm. and Diana V. Hind Distinguished Professor in Pharmaceutical Sciences Professor and Vice Chair, Departments of Bioengineering & Therapeutic Sciences and Medicine Director, Center for Genes, Environments & Health University of California, San Francisco Phone: 415-514-9677 Email: Esteban.Burchard@ucsf.edu Web: http://bts.ucsf.edu/-burchard/ Mailing Address: UCSF/Lung Biology Center Box 2911 San Francisco, California, 94143-2911

Shipping Address: UCSF MC 2911 Rock Hall Room 584 D 1550 4th Street San Francisco, California, 94158-2324

"Burchard, Esteban" <Esteban.Burchard@ucsf.edu>

UCambridge PathogenEvolution

A postdoc position is now available in my lab in the Department of Genetics, University of Cambridge. Applications would be welcome from candidates with a wide range of quantitiative backgrounds.

Chris Illingworth

For more details, see:

http://www.jobs.cam.ac.uk/job/2219/ Group website:

http://www.gen.cam.ac.uk/research-groups/-illingworth Brief project overview:

Pathogen evolution presents a severe threat to human health. Through rapid adaptation, viruses such as HIV evade immune responses and become resistant to drug therapy. Bacterial resistance to antibiotics has the potential to reverse much of the progress made by modern medicine.

Recent advances in sequencing technology provide the ability to study the genetic diversity of pathogen populations at a previously unprecedented resolution. Sequencing a population at multiple points through time, the response of a population to selection can be understood and measured. However, new techniques are required in order to best exploit such data.

The successful applicant will develop new computational and statistical methods for the analysis of genome sequence data, in order to better understand the dynamics of rapidly evolving pathogen populations.

– The Wellcome Trust Sanger Institute is operated by Genome Research Limited, a charity registered in England with number 1021457 and a company registered in England with number 2742969, whose registered office is 215 Euston Road, London, NW1 2BE.

Christopher Illingworth <ci3@sanger.ac.uk>

UChicago DevoEvo

A Postdoctoral Scholar position is available immediately in the Lynch lab, in the Department of Human Genetics at The University of Chicago. Research in the

Lynch lab is focused on identifying and characterizing the molecular genetic causes of morphological evolution, including evolutionary novelties like mammalian pregnancy.

The goal of this research project is to identify and functionally characterize genes that evolved to be expressed in endometrial stromal cells in Eutherian ('placental') mammals that likely mediate maternal recognition of pregnancy and maternal-fetal immunotolerance using high-throughput RNAi screens and a suite of biochemical, molecular and cell biological techniques in mammalian cell culture systems. The major aims of this project are to: 1) identify genes expressed in endometrial stromal cells that mediate migration of immune and trophoblast cells into the endometrium during pregnancy; 2) characterize the molecular functions of those genes; and 3) identify/characterize the mechanisms that direct their expression in the endometrium and reconstruct their evolutionary history.

Required Qualifications: Applicants must have an MD, PhD, or equivalent degree in genetics/genomics, evolutionary biology, molecular or cell biology as well as demonstrated experience in mammalian tissue culture and RNAi-mediated gene knockdowns, and standard methods in molecular biology such as PCR, cloning, qPCR, enhancer-promoter reporter systems (Luciferase assays), western blotting, and coimmunoprecipitation.

Additional Qualifications: Experience with next-generation sequencing techniques, data, and data analyses, particularly RNA-Seq and related functional genomics techniques are preferred. Previous experience with

Application Information: Informal inquiries and application materials (CV, statement of research interests, and contact information for 3 references) should be emailed to lynchlabpositions@gmail.com. Review of applications will begin immediately and continue until the position is filled.

vjlynch@uchicago.edu

UCollegeLondon 2 PopulationGenetics

Dear Friends and Colleagues

I have 2 post-doc positions available, one in Evolutionary / population genetics, and one in Molecular / evolutionary genetics, see:

http://www.ucl.ac.uk/mace-lab/opportunities These positions will also be advertised on the Nature Jobs website.

If you know of any promising candidates please could you forward this message to them?

Best wishes

Mark

Professor of Evolutionary Genetics Research Department of Genetics, Evolution and Environment University College London Gower Street London WC1E 6BT Tel: +44 (0) 207 679 2286 (int. 3-2286) Fax: +44 (0) 207 679 7193 Mobile: +44 (0) 7973 725955 Skype: markthomasskype Email: m.thomas@ucl.ac.uk Web: www.ucl.ac.uk/mace-lab/ "Thomas, Mark" <m.thomas@ucl.ac.uk>

UExeter UnculturableProtistFungi SingleCellGenomics

Two postdoctoral research positions are available in the laboratory of Dr. Thomas Richards at the University of Exeter, UK.

The project focuses on using environmental sequence data, including meta- genomics and transcriptomics, combined with single cell genomic data to investigate the biology and evolutionary significance of unculturable protist and fungal microbes from marine environments including deep-sea sediments.

One post is focused entirely on bioinformatic based analysis while the second post can include both bioinformatic and laboratory work. However, both applicants should be interested in working with second-generation sequence datasets and feel confident with post genomic analysis including for example: phylogenetic tree reconstruction and metabolic pathway reconstruction.

For more details please see:

https://jobs.exeter.ac.uk/hrpr_webrecruitment/wrd/run/ETREC107GF.open?VACANCY_ID=7490968mXd&WVID=3817591jNg&LANG=USA

https://jobs.exeter.ac.uk/hrpr_webrecruitment/wrd/run/ETREC107GF.open?VACANCY_ID=7733318mXd&WVID=3817591jNg&LANG=USA

This is a Gordon and Betty Moore Foundation funded project and is part of an international collaboration including associated laboratories at the University

of British Colombia, University of Maryland Center for Environmental Science, Monterey Bay Aquarium Research Institute and the Department of Energy Joint Genome Institute and should include the opportunity for travel

To ask questions or apply please e-mail your CV and contact information for three referees to t.a.richards@exeter.ac.uk . Materials must be received by the 13th November but late applications will be considered until the position is filled.

Thomas Richards Geoffrey Pope Building University of Exeter Exeter UK EX4 4QD

T.A.Richards@exeter.ac.uk

UFribourg Switzerland EvolutionaryGenomics

PostDoc position in ecological & evolutionary genomics

Coupling genomics with experiments to study divergence-with-gene-flow in trees

A postdoctoral position is available in the lab of Christian Lexer at University of Fribourg, Switzerland. We are looking for a highly motivated candidate with a keen interest in evolutionary and speciation genomics and prior experience with / exposure to key methodologies relevant to this field. The post is funded by a 3-year project grant from the Swiss National Science Foundation.

The research project will address key questions related to the ecological & evolutionary genomics of 'divergence-with-gene-flow' in Populus alba and P. tremula, two wide-spread Eurasian tree species related to Populus trichocarpa, the first completely sequenced forest tree. The chosen candidate will take the lead role in laboratory and in silico research to address this topic by applying high-throughput 'genotyping-by- sequencing' and whole genome resequencing approaches to natural and experimental populations. He/she will also function as focal point for updates of bioinformatic data analysis pipelines and management of the genomic data. University of Fribourg has recently hired two faculty in bioinformatics and computational biology and is associated with the Swiss Institute of Bioinformatics (SIB), thus considerable local expertise is available to provide initial training where necessary. Participation in fieldwork in Europe and/or Asia is possible, depending on interests. The chosen candidate will participate in the supervision of one PhD student active on the same project, and he/she will interact with collaborating labs in Europe, Asia, and the USA. Prior experience with the use of DNA-based genetic markers to answer evolutionary questions is essential for this project. Prior experience with the analysis of data from (ultra-) high throughput DNA sequencing is particularly desirable.

The starting date is negotiable (from March 2014 onwards). Funding is available for three years. Knowledge of French or German is helpful in every day life, but the working language in the group is English. A doctoral degree in biology or related subject is required. Fribourg is a lively town with pleasant surroundings and an excellent quality of life. It is located ca. 30 minutes from the Alps, close to other cities such as Berne and Lausanne and just a little over an hour from Geneva and Zürich.

To apply, please send an e-mail with the application materials in a single pdf file to Christian Lexer (christian.lexer@unifr.ch). Application materials should include a CV, a list of publications, and a short (less than one page) statement of research interests. Please give names and email addresses of two persons who are willing to write a letter of recommendation. Applications will be screened from 28 November 2013 onwards until the position is filled.

Further information and address for application: Dr. Christian Lexer, Associate Professor of Evolutionary Biology E-mail: christian.lexer@unifr.ch, Tel: +41 26 300 88 68 Web: http://www.unifr.ch/biol/ecology/-lexer/index.html christian.lexer@unifr.ch

UGraz Kew LichenEvolution

A fully-funded 3-year postdoctoral research position is available in the Institut für Pflanzenwissenschaften at the Karl-Franzens-Universität Graz, Austria.

Role Description

We seek a highly motivated postdoctoral researcher to work on an interdisciplinary project funded by FWF. This project takes a comprehensive approach that combines phylogenetics and population genetics tools to study evolutionary processes in a lichen species complex (Pyrenodesmia). Previous work has uncovered high levels of diversity in Pyrenodesmia in the European Mediterranean region, whose heterogeneous land-

scape of complex geological and climatic history represents a globally significant hot spot of biodiversity. Yet, little is known about the influence of local ecological heterogeneity and environmental changes on the diversity of fungi, including lichens. In this project we will explore which processes have driven the extensive diversification of lichens, as a model for extremotolerant eukaryotic microorganisms.

Applicants should have a PhD in biology or closely related field and a strong interest in biology and evolution. Applicants shall have basic knowledge in lichen and fungal systematics. Experience in molecular techniques and phylogenetics and/or population genetics is required. Culturing skills are advantageous, but not essential. The post-doctoral researcher will be responsible for this study on a day-to-day basis and will participate in most aspects of the project (i.e., taxon sampling, data recording, photobiont culturing, molecular work, data analyses, paper writing).

This is a FWF funded project and it is part of an international collaboration including associated groups at the Institut für Pflanzenwissenschaften at the Karl-Franzens-Universität Graz, Austria and the Royal Botanic Gardens, Kew, Richmond, UK. The candidate will join the research group of Martin Grube and Helmut Mayrhofer in Graz with periodic visits to Ester Gaya at RBG, Kew.

To ask questions or apply please e-mail to: e.gaya@kew.org or martin.grube@uni-graz.at or helmut.mayrhofer@uni-graz.at.

Materials must be received by 1st of December 2013, but late applications will be considered until the position is filled.

This post is available from 1st February 2014, for a period of 36 months, full-time.

*Applications should include:*1) letter of interest / background (2 pages max); 2) complete CV; 3) the names and e-mail addresses of three referees.

Karl-Franzens-Universität Graz is committed to promoting equality and diversity.

Ester Gaya, Ph.D. Senior Researcher in Mycology Jodrell Laboratory Royal Botanic Gardens, Kew Richmond Surrey TW9 3DS U.K. tel: (44) 020 8332 5381

Email: E.Gaya@kew.org / ester.gaya@gmail.com

Ester Gaya <e.gaya@kew.org>

UHull CichlidHybridizationGenomics

A Postdoctoral Research Assistant (PDRA) is sought to work on a NERC-funded genomics project with Dr Domino Joyce.

The successful candidate will analyse a large RAD-tag sequence data set to investigate the importance of hybridization for the evolution of Lake Malawi cichlids. Hybridization is increasingly recognised as playing a role in the evolution of biodiversity, and although genetic contributions from divergent lineages are often detected in adaptive radiations, we currently lack evidence that these contributions have been preferentially retained through natural selection. This project aims to reveal that functionally important genomic regions from divergent lineages comprise the Lake Malawi cichlid radiation, establishing the significant consequence of hybridization in the adaptive change leading to speciation

This will be an exciting career opportunity for a recent PhD graduate, who will begin once the data has already been collected, and benefit initially from bioinformatics training at The Genepool facility in Edinburgh. The post holder will work with Dr Domino Joyce in the Evolutionary Biology Group at Hull University. Expertise within the Evolutionary Biology Group encompasses phylogenetics, bioinformatics, behavioural ecology, molecular evolution and population genetics. The successful candidate will also be able to take advantage of the University's comprehensive Staff Development Programme.

The post holder will be responsible for the analysis of RADseq data from a large number of haplochromine cichlid fish, aiming to i) identify SNPs within and between species groups ii) use genome scans to identify genomic regions under selection and iii) test for a hybrid origin of genomic regions. The successful applicant will write and publish high quality peer-reviewed scientific papers and will be encouraged and supported to build on this large dataset to develop their own lines of enquiry.

This is a fixed term position for one year from the start date.

To discuss this role informally, please contact Domino Joyce, T: 01482 466586, E: d.joyce@hull.ac.uk For

information about the Evolutionary Biology Group visit www.hull.ac.uk/evolution and follow us on twitter @EvoHull

Please apply using this website: https://-jobs.hull.ac.uk/Vacancy.aspx?ref=FS0056 Reference: FS0056 Campus: Hull Faculty/Area: Faculty of Science and Engineering Department: School of Biological, Biomedical and Environmental Sciences Salary: Â£25,504 to Â£30,424 per annum, 0.8 FTE Closing Date: Thursday 31 October 2013

Dr Domino Joyce Evolutionary Biology Group School of Biological, Biomedical and Environmental Sciences, University of Hull, Cottingham Rd, Hull HU6 7RX

T: +44 (0)1482 466856 F: +44 (0)1482 465458 E-mail: D.Joyce@hull.ac.uk

My web page: http://tiny.cc/5x3hjw Evolutionary Biology Group: http://www.hull.ac.uk/evolution Twitter: @EvoHull

Domino A Joyce <D.Joyce@hull.ac.uk>

UInnsbruck NextGenerationSequencing

EVOLUTIONARY SYSTEMATICS, INSTITUTE OF BOTANY, UNIVERSITY OF INNSBRUCK PostDoc position

The Evolutionary Systematics group of the Institute of Botany seeks to hire a PostDoc with experience in practical field work (collection of samples mostly in Europe) and Next Generation Sequencing (wetlab and bioinformatic analysis of restriction site associated DNA [RAD] sequencing data). The position starts either March 1st 2014 (32 hrs/week employment for 36 months) or October 1st 2014 (40 hrs/week employment for ca. 29 months; see below under "Salary"). Centering on the Alpine Space, the group's mission is interdisciplinary research, embedded in international collaboration networks. A list of research topics can be found at: http://www.uibk.ac.at/botany/research/-biodiversity/vascular_plants/index.html.en . The successful candidate will conduct NGS-based phylogeographic studies of a range of steppe organisms, including both plants and animals. The project consortium is international and includes members of the Universities of Innsbruck and Vienna (Austria), Lausanne (Switzerland) and the Real Jardín Botánico in Madrid (Spain). The project addresses the following issues: (1) Did the steppe biota colonize each Alpine dry valley independently or is there evidence for genetic exchange among the insular steppe habitats of different valleys? (2) What are the biogeographic connections of steppe biota from the Alpine dry valleys with other areas of steppe vegetation in Eurasia? (3) Are phylogeographic patterns seen in steppe plants and animals congruent, implying range shifts of entire communities or rather idiosyncratic suggesting individualistic responses to climatic oscillations? (4) Our phylogeographic approach will unravel intraspecific patterns of spatial differentiation and temporal diversification across steppe plant and animal lineages. These will then not only be compared to each other, but also to independent data sources. Changes of distribution ranges of our study taxa through time will be hindcasted using environmental niche modeling. A description of the project can be found at http://www.uibk.ac.at/botany/research/-biodiversity/vascular_plants/steppe-flora.html.en).

Responsibilities 1. collection of samples of steppe species in Europe (Alps, Eastern Europe) and Asia 2. optimization of a double digest RAD sequencing protocol for the study species, barcoding of individuals for pooled analyses 3. processing raw Illumina data and filtering of SNPs 4. phylogeographic and phylogenetic (BEAST, ABC-approaches, etc.) data analyses 5. species distribution modeling with Maxent 6. leading role in manuscript writing 7. contact and collaboration with scientists and laboratory technicians at the Molecular Ecology group, Institute of Ecology, Innsbruck University, as well as at other Austrian research facilities, and internationally

Selection criteria A. PhD degree in life sciences B. published research experience in molecular systematics / evolution / biogeography, especially using high-throughput sequencing data C. proficiency in maintenance of Linux systems for bioinformatic purposes, Biopython, mysql, scripting languages (e.g. awk, Perl, R) D. experience in the use of relevant software packages for phylogeographic / phylogenetic analyses E. ability to conduct field work for several consecutive weeks F. ability to work as part of a multi-disciplinary team G. ability to work independently H. very good knowledge of English

Salary The annual gross salary is Euro 48,968 for a three-year 32 hrs/week employment or Euro 61,220 for a 40 hrs/week employment of ca. 29 months. The contract includes health insurance and 5 weeks of holidays annually.

How to apply To apply, please submit by E-mail to <peter.schoenswetter@uibk.ac.at>: a cover letter, systematic point-by-point replies as to your readiness

for the responsibilities and how you meet the selection criteria, brief statement of research interests, curriculum vitae, and complete list of publications. Provide contact details of two referees.

Applications must be written in English. The deadline for receipt of all applications is 17 November 2013. Our final decision will be announced to all applicants on 22 November 2013 the latest.

The University of Innsbruck is striving to increase the percentage of female employees and therefore invites qualified women to apply. In the case of equivalent qualifications, women will be given preference. An offer of employment is contingent on a satisfactory pre-employment background check.

The research institution and its environment Detailed information about the Evolutionary Systematics group can be found at

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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

UIowa Bioinformatics Genomics

Postdoctoral Fellow - Bioinformatics/Genomics

A postdoctoral position is available for a computational biologist to join a multidisciplinary team of scientists from the Departments of Biology and Microbiology at the University of Iowa. Our team designs and applies new molecular and computational tools to study the evolution of human immunodeficiency virus type 1 (HIV-1).

The specific goals of this position are to participate in the design of computational tools necessary for identification of genotype-phenotype associations in large datasets we generate from patient clinical samples. Through these studies we aim to better understand the relationship between different structural and functional properties of the virus and the immune response of the host. The position is an opportunity to acquire the tools and knowledge necessary for integrating between structural, functional and biophysical data and genomic data of different types using cutting-edge molecular and computational tools. The postdoctoral scientist will work between the Comeron group and the Haim group and will interact with other scientists in collaborating laboratories.

The successful candidate should hold a PhD in genetics, bioinformatics, computer science, statistics or related field. A strong background in genomics/microbial evolution is required and proven experience in programming/scripting languages and statistical computing and machine learning techniques is highly desirable. As a member of a highly collaborative and energetic team, s/he will present research results at laboratory meetings, institutional seminars and national conferences. Proficiency in academic writing and excellent communication skills are required.

To learn more about the positions, review the duties and qualifications, and to apply, please go to http://jobs.uiowa.edu, click on the Postdoctoral Scholar link and enter requisition number 2063.

The University of Iowa is an Equal Opportunity Affirmative Action Employer. Women and minorities are strongly encouraged to apply.

Josep M Comeron Department of Biology Graduate Program in Genetics Graduate Program In Bioinformatics University of Iowa josep-comeron@uiowa.edu

http://www.biology.uiowa.edu/labs/comeron Hillel Haim

Department of Microbiology University of Iowa Carver College of Medicine hillel-haim@uiowa.edu http://www.medicine.uiowa.edu/dept_primary_apr.aspx?appointment=-3DMicrobiology&id=hhaim josep-comeron@uiowa.edu

UMaryland EvolGenomics

Postdoctoral researcher in Ecological Genomics

University of Maryland Center for Environmental Science Appalachian Laboratory, Frostburg, MD

Applications are invited for a postdoctoral researcher at the University of Maryland Center for Environmental Science (UMCES). We are seeking an energetic individual interested in using next-generation sequencing to identify genomic signatures of local adaptation and conduct spatial analyses of selection at the landscape scale.

The postdoc will join an interdisciplinary team of population geneticists, ecologists, and environmental sci-

entists studying adaptive responses of forest trees to climate change. The main project for the postdoc will be to use genotype-by-sequencing (GBS) SNP data to identify genomic regions involved in climate adaptation of balsam poplar populations at their southern range limit. Within this framework, there are numerous opportunities for the postdoc to extend the broader project objectives. This is an ideal project for an individual interested in ecological/population genomics, next-generation sequencing, local adaptation, and the genetic and evolutionary effects of range limits.

A PhD in evolution, population genetics, bioinformatics, genomics, plant biology, or a similar field is required, as are excellent writing skills and experience scripting computer code in one of the following: UNIX shell, Perl, or R. Two years of funding are available, and the position comes with a competitive salary and benefits package. There are also opportunities to develop the postdoc's skills in teaching and scientific outreach.

The position is based in Steve Keller's lab (http://-/skeller.al.umces.edu/) at the UMCES-Appalachian Laboratory in Frostburg, Maryland. Frostburg is a small college town in the mountains of western Maryland. The area provides a great quality of life with abundant outdoor recreation opportunities. The major metro areas of Washington D.C., Baltimore, and Pittsburgh are all within a 2.5 hour drive.

To apply, send an email to Steve Keller (skeller@umces.edu) containing as a single pdf document: (1) a statement of interest, (2) a CV, and (3) contact information for three references. Please indicate in your subject line "poplar postdoc". Informal inquiries are also welcome.

Review of applications will begin immediately and continue until qualified candidates are found. Start date is negotiable, but preferably by January 2014.

This ad is also posted at http://www.umces.edu/al/-employment UMCES is an AA/EEO.

Stephen R. Keller Assistant Professor Appalachian Laboratory University of Maryland Center for Environmental Science 301 Braddock Rd. Frostburg, MD 21532 301-689-7203 http://skeller.al.umces.edu/ skeller@al.umces.edu

UMinnesota EvolutionaryQuantGenetics

An energetic postdoctoral researcher is sought as a colleague in a newly NSF-funded project in the field of evolutionary quantitative genetics. The goal of the research plan is to evaluate the immediate capacity for ongoing adaptation, as well the extent to which that capacity is realized, within natural plant populations. The study focuses on *Chamaecrista fasciculata*, an annual plant with a native distribution spanning eastern North America, and involves formal genetic crosses in greenhouses and field experiments in Minnesota and Iowa. Qualifications for this position include: Ph.D. in evolutionary biology or related field; strong background in statistics, including experimental design and analysis of data, especially with R; experience with sizable experiments in the field; evidence of success in completing research through publication. The position is available as early as Jan 15, 2014 and has a duration of 2 years with the possibility of extension. Applications will be reviewed until a suitable candidate is found. Interested individuals may contact Ruth Shaw (shawx016@umn.edu) for further information. Applications including C.V., statement of research interests, and names and email addresses of 3 references may be submitted to: https://employment.umn.edu/-applicants/jsp/shared/search/SearchResults_css.jsp As an institution committed to demonstrating excellence through diversity, the College of Biological Sciences of the University of Minnesota is committed to hiring diverse faculty and staff, and actively encourages candidates from historically underrepresented groups to apply.

Ruth G. Shaw

Professor and Editor in Chief, *Evolution* Dept of Ecology, Evolution and Behavior 100 Ecology 1987 Upper Buford Circle University of Minnesota St. Paul MN 55108

Ruth Shaw <shawx016@umn.edu>

UMissouri StLouis PlantSpeciationPollination

Postdoctoral Researcher Position in Pollination & Plant Speciation

I am looking for a postdoctoral researcher to join my lab at the University of Missouri - St. Louis.Â The position will involve research on the relative roles of pollinator-mediated reproductive isolation and gametic

isolation (post-pollination yet prezygotic) in the diversification of the Neotropical genus Burmeistera (Campanulaceae).Â Candidates should have fieldwork experience, preferably in Latin American countries, and an interest in plant speciation and/or pollination biology.Â Additional desirable qualifications include experience in molecular systematics (especially next-gen approaches) and fluency in Spanish.Â The successful applicant will also be encouraged to carry out his or her own research projects related to work done in the Muchhala Lab (see www.umsl.edu/muchhalan˜). ÂThe start date for the position is flexible; preferably January of 2014, although the beginning of the summer or fall semester would also be possible. ÂÂFunding is available for one year with the possibility of renewal given satisfactory progress. St. Louis is a vibrant Midwestern city that boasts an exceptional quality of life, combining a low cost of living with a variety of cultural attractions including parks, museums, and lively music and art scenes.Â The University of Missouri - St. Louis has strong local ties with the Missouri Botanical Garden, the Saint Louis Zoo, Washington University, St. Louis University, and the Donald Danforth Plant Science Center, and annual retreats (sleec.weebly.com) bring together ecologists and evolutionary biologists from these and other local institutions. ÂThe Department also houses the Whitney R. Harris World Ecology Center, established to promote international research, particularly in tropical regions.Â To apply, please provide 1) a short statement (one to two pages) on previous experience, research interests, and motivation for applying, 2) three recommendation letters, and 3) your curriculum vitae.Â I will begin reviewing applications on November 15th.ÂÂ Informal inquiries, as well as the application and letters, should be emailed to muchhalan@umsl.edu.Â The University of Missouri - St. Louis is an affirmative action, equal opportunity employer committed to excellence through diversity.

Nathan Muchhala, Ph.D. Assistant Professor Department of Biology University of Missouri -St Louis One University Blvd, R428 Research Hall St Louis, Missouri 63121 (314) 516-6672 http://www.umsl.edu/ ˜ muchhalan/ Nathan Muchhala <n_muchhala@yahoo.com>

UNorthCarolina ChapelHill ModelsSpeciation

Postdoctoral Position at the University of North Carolina, Chapel Hill

A position is available for a Postdoctoral Research Associate in the lab of Maria Servedio at the University of North Carolina, Chapel Hill, to work on an NSF funded project that involves the development of theoretical models of speciation. Prior experience with theoretical modeling techniques (especially population genetic modeling), a strong mathematical background, and programming skills is preferred. A Ph.D. and a strong background in evolution is required.

Research in the Servedio lab (http://labs.bio.unc.edu/Servedio/Home.html) concentrates on developing mathematical models of speciation and mate choice. Please contact Maria Servedio (servedio@email.unc.edu) for more information on the project involved in this position and other projects ongoing in the lab.

The appointment is for 1-2 years with a flexible start date. Submit applications including a cover letter, CV, description of research experience and interests, brief description of background in theory and related skills, and names and addresses of three references to http://unc.peopleadmin.com/postings/33747, and please also send a copy of the cover letter and CV directly to Maria Servedio at servedio@email.unc.edu

The University of North Carolina at Chapel Hill hosts an active group in speciation, and more generally in Evolution and Ecology. UNC is part of North Carolina's Research Triangle, home also to Duke University, North Carolina State University, and the National Evolutionary Synthesis Center (NESCent). Chapel Hill has reasonable living expenses, many outdoor activities, and a warm climate.

Informal inquiries are welcome. Review of applications will begin on November 7 and continue until the position is filled.

Dr. Maria Servedio Department of Biology University of North Carolina CB# 3280, Coker Hall Chapel Hill, NC 27599 Phone: 919-843-2692 Fax: 919-962-1625 e-mail: servedio@email.unc.edu http://labs.bio.unc.edu/Servedio/Home.html servedio@email.unc.edu

UOxford AdaptiveRadiations

Postdoc position in Oxford, UK: Evolutionary genetics of adaptive radiations

This NERC-funded project is devoted to the analysis of evolutionary genetic processes during speciation, with the focus on rapid recent adaptive radiations. Such 'explosive' radiations (e.g. undergone by many genera on Hawaii or in the Andes) can help to understand evolutionary processes that were at work during the major adaptive radiations in the history of our planet. The conditions under which adaptive radiations occur are not well understood and generally it is not clear why some groups of organisms are very species-rich, while others consist of only few species despite similar age. This project will focus on (but not limited to) multiple recent radiations in a plant genus Lupinus (Leguminosae), which exhibits some of the highest known rates of net diversification in plants. Such replicate radiations provide powerful comparative systems to address questions about the evolutionary forces driving episodes of diversification.

The successful candidate will have strong interest in speciation and adaptation processes, and significant experience in population genetic and phylogenetic data analysis. Previous experience with high-throughput sequence data analysis, programming/scripting and unix environment will be a significant advantage. For further details please contact Dmitry.Filatov@plants.ox.ac.uk

Dmitry Filatov <dmitry.filatov@plants.ox.ac.uk>

UOxford DrosophilaSexSelection

A BBSRC-funded postdoc position is available for 5 years from 31 March 2014 to investigate the effects of ageing on male seminal proteins using quantitative proteomics, and the consequences for sexual selection in Drosophila melanogaster. The post will be based in the Wigby lab in the Department of Zoology, University of Oxford.

Candidates should have, or be about to submit, a PhD in evolutionary biology, molecular biology or a related subject, particularly as applied to the study of reproduction, behaviour and life-history. The successful candidate will have proven skills in molecular biology, ideally quantitative proteomics, planning and conducting lab experiments, data analysis, and writing and publishing in leading journals in the field. The postholder will work closely with the PI, other lab members, and with collaborators in Oxford and the US, and will require excellent communication, teamwork and organisational skills. See:

http://www.zoo.ox.ac.uk/jobs/list#job_110091 Only applications made online before 12.00 midday on 6 December 2013 will be considered. You will be required to upload a CV and personal statement.

Salary: Grade 7: £29,541 to £36,298

Informal inquiries (with CV) to Stuart Wigby, email: stuart.wigby@zoo.ox.ac.uk.

Dr. Stuart Wigby Edward Grey Institute Department of Zoology University of Oxford Twitter @StuartWigby Web wigbylab.com Tel +44 (0)1865 271161

s.wigby@gmail.com

USaoPaulo PhylogeneticDiversityOpiliones

Postdoctoral Position at the University of Sao Paulo (USP)

A 3-year post-doctoral fellowship is available as part of a FAPESP (www.fapesp.br) project entitled "Dimensions US-BIOTA-Sao Paulo: A multidisciplinary framework for biodiversity prediction in the Brazilian Atlantic forest hotspot" (FAPESP number process - 2013/50297-0; project website - http://www.bv.fapesp.br/pt/auxilios/82209/dimensions-us-biota-sao-paulo-integrando-disciplinas-para-a-predicao-da-biodiversidade-da-floresta-a/).

The specific post-doctoral project of this announcement refers to the subprojec "Alpha, beta, phylogenetic and functional diversity of harvestmen (Arachnida-Opiliones) of the Atlantic Forest". The goal of this subproject is to inventory several aspects of the diversity of harvestmen communities of the Atlantic Forest, and to relate those patterns with environmental and historical factors.

The candidate is expected to organize and perform field expeditions to collect arachnids, to manage and analyze large datasets, and to work in group and supervise graduate and undergraduate students. Familiarity with the taxonomy of Atlantic Forest Opiliones is also encouraged. Fluency in Portuguese is required to elaborate permit requests to national (ICMBIO) and regional environmental institutions, and applicants must have a driver's license valid in Brazil.

In addition to the tasks inherent to this subproject, applicants will also have to develop activities related to the Dimensions US-BIOTA project, as preparing field

expeditions and organizes and store biological material for DNA extraction.

Applicants must possess the following qualifications

- A Ph.D. (concluded in the previous three years) in Zoology or Ecology; - Published works in the fields of community ecology and/or arachnid communities; - Applicants should not have other employment or income source.

To apply, candidates must provide: 1 - their curriculum vitae; 2 - two recommendations letters; 3 - a short statement (up to three pages) about their previous experience and works on the field, research interest and motivation for working in the present project.

Fellowship: R$ 70,905.60 per year (aprox. US$ 31,950.00); FAPESP fellowships are tax free (see details at http://www.fapesp.br/en/5427 . Application starts October, 1st, 2013 and ends November, 1st,, 2013. Documents must be sent by email to the coordinator of the project - Dr. Cristina Yumi Miyaki, Dep. of Biology - Institute of Bioscience - University of Sao Paulo. For further information please contact Dr. Miyaki at cymiyaki@usp.br.

Ricardo Pinto da Rocha <ricrocha@ib.usp.br>

USheffield RuffGenomics

Please see below an advert for a postdoctoral position at the University of Sheffield, Dept of Animal & Plant Sciences.

Overview: The post-holder will undertake genome assembly and assist with the discovery of genes controlling mating behaviour and morphology (including plumage) in the ruff. The ruff provides a unique, classical example of sexual selection with males competing at leks for females. Male mating behaviour is genetically determined and three distinct reproductive strategies coexist in a single population. The project will make use of a well characterised captive population founded in 1985. The study is a collaboration between the University of Sheffield, University of Edinburgh and Simon Fraser University, and will include sequencing of the ruff genome, RAD sequencing and gene expression studies. Applicants should have a PhD or equivalent, ideally with a strong background in bioinformatic and statistical analyses. Analytical work will involve genome mapping, genome-wide association analysis, linkage mapping and the analysis of new-generation sequencing data, including the use of appropriate population genomic analytical tools. The post is available immediately and the initial appointment will be for two years.

This post will report to Terry Burke, Professor of Molecular Ecology

Terms and conditions of employment: Will be those for Grade 7 staff.

Salary for this grade: £28,685 to £29,541

How to apply:

The position can be applied for on the University's current vacancies on the Jobs page:

http://www.sheffield.ac.uk/jobs The position reference is UOS007225.

Closing date is 24th October 2013.

"Terry Burke (via Celine Pagnier)" <t.a.burke@sheffield.ac.uk>

USouthFlorida GenomeRearrangement

Postdoc Opportunity:

Computational Analysis of Genome Rearrangement

University of South Florida (USF), joint with Princeton University

Postdoctoral Research Associate position is available immediately in the Department of Mathematics and Statistics at USF with focus on mathematical models and computational studies of DNA recombination, rearrangement, epigenetics, and non-coding RNA. This position will hold a joint appointment in the Department of Ecology & Evolutionary Biology at Princeton University.

Professors Natasha Jonoska, Laura Landweber and Masahico Saito seek a joint postdoctoral research associate to model and analyze scrambled gene and genome rearrangements, using and developing novel computational and bioinformatic research tools.

Minimum Requirements: Ph.D. in mathematical sciences/computational biology or a relevant field; strong training, research experience, and publications from the Ph.D.; ability to work independently and creatively, and strong written/oral communication skills are necessary.

The candidate is expected to spend time at both institutions, with a schedule to be worked out with the leading professors. For more information about our labs, see http://knot.math.usf.edu/ and http://-www.princeton.edu/ ˜ lfl. The appointment will be based at USF in Tampa in the first year, with travel between the institutions.

This is a one-year initial appointment with possibility of renewal. Funding is expected to be available for additional years. Apply online at http://www.usf.edu/about-usf/work-at-usf.aspx (https://gems.fastmail.usf.edu:4440/-psp/gemspro-tam/EMPLOYEE/HRMS/-c/HRS_HRAM.HRS_CE.GBL?Page=-HRS_CE_JOB_DTL&Action=A&JobOpeningId=-2682&SiteId=1&PostingSeq=1). Please include a cover letter, CV, statement of research interests, and names and e-mail addresses of at least three references. Application review will begin immediately; the start date is flexible.

For information regarding the USF System, please visit http://system.usf.edu/ . According to Florida Law, applications and meetings regarding them are open to the public. USF and Princeton University are Equal Opportunity Institutions.

Laura Landweber <lfl@princeton.edu>

UTexas EvolutionaryGenomicsOf-SexChromosomes

Several postdoc, bioinformatician and PhD positions are available in a collaborative project on the evolution of sex chromosomes in plants and animals. The project is a funded by a Sinergia grant from the Swiss National Science Foundation and brings together the labs of Mark Kirkpatrick (Austin, Texas), Nicolas Perrin, and John Pannell (Lausanne, Switzerland). We are studying the evolutionary genomics in plant and animal systems that have largely recombining sex chromosomes. In contrast to model systems such as mammals and flies, these sex chromosomes are highly dynamic parts of the genome. Our project will address questions such as: how does recombination evolve, what drives the rapid turnover in genetic sex determining systems, and what role does sex-antagonistic selection play in genome evolution?

We are looking for researchers with strong backgrounds in evolutionary genetics and/or bioinformatics. The project will involve tight collaboration between theory and modeling (conducted principally in the Kirkpatrick lab in Austin) and testing of the models using amphibian (Perrin lab in Lausanne) and plant models (Pannell lab in Lausanne). The collaboration will involve travel between labs, and the empirical work in Lausanne will be conducted by researchers working side-by-side in groups interested broadly in the evolution of sexual systems, sex allocation, sexual dimorphism and sex chromosomes. The theoretical component will involve both modeling and statistical analyses. The empirical components will involve field work, crosses, the building of genetic linkage maps, and the analysis of molecular and genomic variation produced by NextGen sequencing of multiple genomes and transcriptomes.

The project is funded for three years. We hope to start empirical work by January, 2014. Informal enquiries about empirical parts of the project can be directed to Nicolas Perrin (nicolas.perrin@unil.ch) and John Pannell (john.pannell@unil.ch), and about modeling and statistical aspects to Mark Kirkpatrick (kirkp@mail.utexas.edu). Applications can be sent by email to one of the principal investigators and should include a detailed motivation letter, a curriculum vitae, and the names and addresses of two referees.

Full consideration will be given to applications received by the 31st October.

Mark Kirkpatrick <kirkp@austin.utexas.edu>

UTexas Austin EvolutionAssortativeMating

Postdoc: Evolution of assortative mating within populations

A postdoctoral position is available in the laboratory of Dr. Daniel Bolnick, in the Department of Integrative Biology at the University of Texas at Austin. The postdoctoral researcher will be responsible for overseeing field and laboratory research, data analysis and manuscript preparation as part of an NSF-funded project on the mechanisms and evolution of within-population assortative mating, using the threespine stickleback as a model organism. Applicants must have (or expect to soon complete) a PhD in evolutionary biology or animal behavior. The ideal applicant will also have experience with some or all of the following: logistics and operations of field research, be-

havioral assays of mating preference, molecular genetics for parentage analysis, geometric morphometrics, or isotopic analyses of feeding ecology. Candidates should have a proven record of successful publishing in scientific journals. Excellent analytical and communication skills are essential. Please contact Dr. Daniel Bolnick (danbolnick@austin.utexas.edu) for inquiries.

The Bolnick labs research focuses on evolutionary ecology of trait variation within populations, including variation in diet, courtship traits, and immune function. More information on research in the lab can be found at http://web.biosci.utexas.edu/-bolnick_lab/home.html More information on the Section of Integrative Biology can be found at http://-www.biosci.utexas.edu/ib/ .

To apply for the postdoctoral position, please send a cv, two letters of recommendation, and pdfs of at least 2 relevant papers, to Dr. Bolnick (contact information below), along with a coverletter succinctly summarizing your qualifications. The position will remain open until filled by a suitable candidate, review of applications will begin on November 25, 2013.

The successful candidate will have to be available to begin no later than May 2014. The position will run for one year and six months, with opportunities to extend depending on funding availability. The salary will be competitive, and depend on qualifications. The University of Texas is an Affirmative Action/Equal Opportunity Employer

Dr. Daniel Bolnick Department of Integrative Biology University of Texas at Austin Austin, TX 78712 USA danbolnick@austin.utexas.edu 512-471-2824 (work) 512-471-3878 (fax)

Dr. Daniel I. Bolnick

Early Career Scientist Howard Hughes Medical Institute

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://webspace.utexas.edu/-dib73/TheBolnickLab/Home.html "Bolnick, Daniel I" <danbolnick@austin.utexas.edu>

UToronto
EcologyEvolutionaryBiology

The Department of Ecology and Evolutionary Biology at the University of Toronto invites applications for Departmental Postdoctoral Fellowships in the areas of Ecology and Evolutionary Biology, broadly defined. The position may continue for two years, subject to review after one year, and can begin as early as July 1, 2014. The salary starts at $40,000 Canadian per year, with research expenses covered by the Post-Doctoral Advisor.

The Fellow will be a fully participating member in the Department. Candidates must identify and communicate with a potential advisor (or advisors) in advance of the application process. All full-time faculty members at the St. George (downtown) campus of the University of Toronto are eligible to serve as advisors (see below for a list of potential supervisors). Opportunities for teaching in an upper level course may be available, if the candidate wishes to teach.

To apply, applicants should first contact and obtain the agreement of a faculty advisor (or co-advisors)on this list: http://www.eeb.utoronto.ca/about-us/-employment/postdocs/2014eebpostdoc.htm Afterwards, applicants should submit a cover letter clearly indicating the proposed faculty advisor(s), a curriculum vitae, copies of 2 publications, and a short (1-3 pages) description of past research accomplishments and future research plans. Applicants should include names and e-mail addresses of two potential referees. Applicants should also indicate the date they will be available to begin the position. All application materials must be submitted as PDF?s in a single email to: Elizabeth Rentzelos <chairsec.eeb@utoronto.ca>.

Review of applications will begin on November 25, 2013.

The University of Toronto is a leading academic institution in Canada with over 60 faculty members specializing in ecology and evolution. Strong links exist between the Department of Ecology and Evolutionary Biology and the Royal Ontario Museum, the Centre for Global Change, the Centre for Environment, and the Faculty of Forestry. The University owns a nearby field station dedicated to ecological research (the Koffler Scientific Reserve, www.ksr.utoronto.ca). The department also has a partnership with the Ontario Ministry of Natural Resources that helps provide access to infrastructure, including lab facilities in Algonquin Provincial Park (www.harkness.ca), funding, and long-term data sets. Genomic analyses are supported by the Centre for the Analysis of Genome Evolution and Function (www.cagef.utoronto.ca).

helen.rodd@utoronto.ca

UYork SymbiosisExperimentalEvolution

Postdoctoral Research Associate in Experimental Evolutionary Biology

Department of Biology, University of York - Heslington Campus Hours of work - Full-time Contract status - 36 months fixed term Starting salary will be £29,541 a year Apply by 12/11/2013

Role Description

We seek a highly motivated postdoctoral researcher to work on an interdisciplinary project investigating the evolution of symbiosis. This project "Ecological drivers of evolutionary transitions in mutualistic symbioses" is funded by NERC to understand the ecological conditions that drive the evolutionary emergence and maintenance of new symbioses. Mutualistic symbioses underpin ecosystem functioning yet it is unclear how or why facultative associations between previously free-living species make major evolutionary transitions to stable symbiosis.

The project takes an experimental evolution approach using a synthetic photosymbiosis between a single-celled eukaryote host and a cyanobacterium endosymbiont. This will be combined with metabolomics, genomics and mathematical modelling to gain a holistic understanding of both the evolutionary dynamics and the underlying physiological mechanisms of symbiosis.

This project is an interdisciplinary collaboration between two research labs at University of York and one at University of Sheffield. You will lead the experimental evolution and genomics components of the project in York and collaborate closely with two other postdoctoral researchers on the project to ensure successful integration of the mathematical modelling and metabolomics components. You will be responsible for the project on a day-to-day basis and there will an opportunity to supervise undergraduate project students working in the same area. You should hold a PhD in evolutionary biology or a closely related field. Experience of microbial experimental evolution and / or laboratory experimentation with single-celled eukaryotes would be advantageous but not essential.

This post is available from 1st January 2014, for a period of 36 months.

Informal enquiries can be made directly to Prof. Michael Brockhurst (email: michael.brockhurst@york.ac.uk).

The University of York is committed to promoting equality and diversity.

For further information and to make an application: https://jobs.york.ac.uk/wd/-plsql/wd_portal.show_job?p_web_site_id=-3D3885&p_web_page_id=170341
michael.brockhurst@york.ac.uk

UmeaU ModellingEcologicalSpeciation

Postdoctoral Scholarship (2 years) for Modelling of Ecological Speciation - Umeå University

The Department of Ecology and Environmental Science (EMG) www.emg.umu.se and Integrated science Lab (Icelab) www.org.umu.se/icelab is offering a postdoctoral scholarship within the project 'Speciation in action'.

Project description This project is focused on the interplay between ecology and evolution. The goal of the project is to understand the flip side of ecological speciation. As speciation is occurring in the focal species, the food web can be modified as the focal species changes its mechanisms of predator avoidance or its diet. The postdoc will be involved in building a general theoretical model that includes the within-species diversification, the impacts on the food web, and the feedback between the two. Collaboration with the empirically oriented research group of Professor Göran Englund is possible if the successful candidate is interested to model diversification in Scandinavian whitefish populations.

Requirements To qualify for the scholarship you should have a PhD degree in evolutionary biology, or equivalent, not more than 3 years old. Knowledge of population genetics and modelling of ecological and evolutionary dynamics is highly desirable. In-depth knowledge of an empirical system fitting the project description would also be an asset. >From the successful candidate, we expect a documented capability of cooperative scientific research work and skills in writing scientific publications in English. International applicants are encouraged to apply.

The fellow will be based at Icelab and the Department of Ecology and Environmental Science in Umeå, and is financed through a personal scholarship from the Kempe Foundations.

Application The application should include a short description of your research interests and why you are interested in the scholarship, a CV, a publication list, copies of exam certificates (official copies are not necessary for the application, but may be required at the time of hire), and contact information of 3 reference persons. The application should be written in Swedish or English and can be submitted either electronically (MS Word or PDF format) or in hard-copy (2 copies) form.

For more information, please contact Dr Xavier Thibert-Plante, e-mail xavier.thibert.plante@emg.umu.se.

Union information is available from SACO, +46-(0)90-786 53 65, SEKO civil, +46-(0)90-786 52 96 and ST, +46-(0)90-786 54 31.

Your complete application marked with reference number 223-1628-13, should be sent to medel@diarie.umu.se (with reference number on the subject line) or to the Registrar, Umeå University, SE-901 87 Umeå, Sweden to arrive November 4, 2013 at the latest.

Umeå University is dedicated to providing creative environments for learning and work. We offer a wide variety of courses and programmes, world leading research, and excellent innovation and collaboration opportunities. More than 4 400 employees and 34 000 students have already chosen Umeå University. We welcome your application!

http://xavier.thibert-plante.com
xavier.thibert.plante@emg.umu.se

WashingtonStateU EvolutionaryGenomics

A postdoctoral position is available in the laboratory of Dr. Joanna Kelley, in the School of Biological Sciences at Washington State University in Pullman, WA (wsu.edu/~KelleyLab). The research goals of the laboratory are to use genomic and computational methods to understand the genomic basis of adaptation to extreme environments. We are interested in understanding how genetic and environmental variation interact to drive population differentiation and adaptive evolution. We welcome applications from candidates with diverse educational backgrounds. The ideal candidates will have recently completed or be completing a PhD degree in Genetics, Genomics, Computational Biology (bioinformatics, systems biology), Statistics, Computer Science, or related disciplines. Applicants must have a strong publication record. A computing background is desired, especially experience with Linux, and knowledge in one or several programming languages (Perl, Python, C/C++, R/BioConductor, etc). Experience with high-throughput sequencing data would be an advantage. Salary will be based on the NIH scale. Applicants will be expected to develop and lead projects. Please email a cover letter, CV including a list of publications and names of two references to joanna.l.kelley@wsu.edu . Informal inquiries are also welcome.

Joanna L. Kelley, PhD Assistant Professor, School of Biological Sciences Member, Center for Reproductive Biology Washington State University

joanna.l.kelley@wsu.edu

WashingtonU StLouis EvolutionOfCooperation

One or more postdoctoral positions for 2-3 years are available in the Queller-Strassmann lab for work on several aspects of the evolution of cooperation and conflict at Washington University in St Louis.

1. 1. Experimental evolution of microbes, especially in population structures relevant to “higher” organisms (Queller et al. 2013 Biology Letters doi: 10.1098/rsbl.2012.0636; Kuzdzal-Fick et al. 2011. Science 334: 1548-1551)

2. 2. Testing the kinship theory of genomic imprinting in social insects using RNAseq (Queller 2003 BMC Evolutionary Biology 3:15).

3. 3. The farming and defensive symbioses of Dictyostelium discoideum amoebas and bacteria (Brock et al. 2011 Nature 469:393- 396; Brock et al 2013 Nature Communications 4:2385; Stallforth et al. 2013PNAS 110:14528-14533)

David Queller and Joan Strassmann lead a friendly and interactive team of highly motivated, creative, and smart investigators. We are seeking energetic postdocs with strong backgrounds in evolutionary biology, social behavior, microbial evolution, genomics, or

molecular biology, as appropriate. Check out our website, (http://strassmannandquellerlab.wordpress.com/) for more information on our lab, or Strassmann's blog (http://sociobiology.wordpress.com). If you are interested in joining our group, please send an email David Queller (queller@wustl.edu) with a single file including CV, statement of research interests, and the names, phone numbers, and email addresses of three references. Please specify which of the three research areas appeals to you. Women and underrepresented minorities are particularly encouraged to apply. Funding is from the John Templeton Foundation. We will begin reviewing applications by 15 November 2013 and will continue to accept them until the positions are filled. Postdocs may start immediately but date is negotiable.

queller@biology2.wustl.edu

WillametteU EvolutionaryGenomics YuccaMoths

As part of a project funded through the NSF CAREER program, the Smith Lab at Willamette University is seeking a highly talented individual to participate in a unique post-doctoral training program that will prepare scientists for careers that integrate teaching and research.

The position is part of a multi-year study of coevolution in yuccas and yucca moths that will involve field and laboratory components including high-throughput SNP genotyping, association mapping, and pollination experiments to estimate the strength and form of selection acting on plant and pollinator phenotypes. Concurrent with the research, the postdoctoral scholar will mentor undergraduate scientists and will receive training in SNP genotyping and analyses of population genomic data through a rotation in Matt Streisfelds lab at the University of Oregon.

The position will culminate in a temporary appointment as a visiting assistant professor at Willamette, during which time the postdoctoral scholar will teach a course that brings research into the classroom. Other training opportunities will include the option to participate in the Project Kaleidoscope (PKAL) and Council on Undergraduate Research (CUR) national leadership retreats.

A PhD in evolutionary biology or a related field and an enthusiastic interest in teaching and mentoring undergraduates are required. (ABD candidates will be considered, but must complete their degree before the position start date). In addition, preference will be given to applicants with one or more of the following qualifications: 1) expertise in bioinformatics, particularly SNP genotyping and next-generation sequencing techniques, 2) an interest in plant / insect interactions, particularly pollination biology, 3) experience with field research, especially experience working under challenging field conditions, 4) expertise in population genetics, especially approaches to detecting selection, 5) expertise in quantitative genetics, especially association mapping, 6) experience with undergraduate teaching and mentoring undergraduate researchers.

Willamette University is a small, residential, liberal arts college that is dedicated to excellence in teaching and research. Recognized by US News as among the best liberal arts colleges in the country, Willamette is located in the heart of Salem, Oregon, across the street from the State Capitol. Salem is a diverse, multicultural city of 156,000 people, less than an hour's drive from Portland, Eugene, the Cascade Mountains, and the spectacular Oregon Coast. The Streisfeld Lab (www.uoregon.edu/˜mstreis) in the Institute of Ecology and Evolution (IEE) at the University of Oregon in Eugene offers a broad and interactive environment for research in plant evolutionary biology. Home to leading innovators in RAD seq and SNP genotyping, IEE offers unparalleled opportunities to gain expertise and training in cutting-edge genomic technologies. Salem and Eugene are both nestled in Oregon's Willamette Valley, a nexus for both urban culture and outdoor recreation. The region boasts opportunities for skiing, whitewater kayaking, and mountaineering, alongside one of the best wine-growing regions in the world, a vibrant arts and music scene, and internationally-recognized centers for biotechnology and research medicine.

The position is available for one year with the possibility of renewal depending on research progress. The anticipated start date of March, 2013 can be adjusted based on the needs of the candidate. To ensure full consideration, please submit a cover-letter describing research and teaching interests/experience, a CV, and three letters of recommendation (to be uploaded by referees) by November 30, 2013. The position will remain open until filled.

To apply online, visit: https://jobs.willamette.edu/-postings/940 Questions about the research and the position may be directed to Chris Smith: csmith@willamette.edu

If you need assistance with the application process, please contact Linda Flamenco, lflamenc@willamette.edu or 503.370.6210.

Believing that diversity contributes to academic excellence and to rich and rewarding communities, Willamette is committed to recruiting and retaining a diverse faculty, staff and student body. We seek candidates, particularly those from historically under represented groups, whose work furthers diversity and who bring to campus varied experiences, perspectives and backgrounds.

Christopher Irwin Smith Assistant Professor Department of Biology Willamette University Salem, OR 97301 ph: 503-370-6181 fax: 503-375-5425

Google Calendar

Lab Website: http://www.willamette.edu/~csmith/ChrisSmith.htm Christopher Smith <csmith@willamette.edu>

Yale EvolGeneticsCancer

A position is available as a Postdoctoral Associate or Associate Research Scientist (Research Faculty) associated with the Yale Center for Analytical Sciences and the Townsend Lab in the Department of Biostatistics at the Yale School of Public Health. Our group uses high-throughput sequencing and bioinformatic technologies to investigate genetics and gene expression variation. We are particularly interested in candidates with strong quantitative skills, preferably including a background in bioinformatics, statistics and programming. Research topics of special interest include the evolutionary genetics of cancer and cancer systems biology. This hire is part of an initiative to build strength in bioinformatics at Yale within the Yale Center for Analytical Sciences, a growing and dynamic Center at Yale featuring postdoctoral scientists, research faculty and traditional-track faculty with diverse statistical and bioinformatic knowledge.

Yale University is a highly collaborative and engaging institution with great resources and many benefits, and New Haven is a walkable city with great restaurants and cultural attractions as well as excellent public transportation access to Boston, New York City, and the rest of the East Coast corridor.

To apply for this position, email

1. A brief cover letter or email text discussing research interests, qualifications and experience. 2. A curriculum vitae, including a list of scientific publications. 3. The names and contact details of three referees willing to provide a confidential letter of recommendation upon request.

to Jeffrey.Townsend@Yale.edu

Applications are requested by Oct. 30th, 2013, but will be considered until the position is filled.

Jeffrey.Townsend@Yale.edu

WorkshopsCourses

Barcelona EvolutionOntogeny May26-28

Dear colleagues,

This course could be of interest for some of the list members:

- STUDYING ONTOGENY AT DIFFERENT LEVELS USING GEOMETRIC MORPHOMETRICS - Second edition; May 26-28, 2014. Instructor: Dr. Kieran McNulty ((University of Minnesota, USA). Website: http://www.transmittingscience.org/-courses/gm/ontogeny-and-gm/ This course will give emphasis on using Geometric Morphometrics to address questions related to growth, development, and evolution. Simple characterizations of multivariate ontogeny will give way to more complicated methods for visualizing and comparing different patterns of growth and development. From here, we will take up the idea of changes in ontogeny as a mechanism for producing evolutionary change. We will end by discussing the difficulties and misconceptions in interpreting morphometric analyses of ontogeny, and introduce some of the advanced topics in ontogeny that morphometricians are beginning to address.

This course will be held in Els Hostalets de Pierola, Barcelona (Spain) and is co-organized by Transmitting Science, the Institut Catalá de Paleontologia Miquel Crusafont and de Centre de Restauració i Interpretació Paleontologica de Els Hostalets de Pierola. For more information you can write to-courses@transmittingscience.org.

With best regards

Soledad De Esteban Trivigno Transmitting Science www.transmittingscience.org

soledad.esteban@transmittingscience.org

Barcelona ModellingDynamics Feb4-7 Deadline

Dear Colleagues,

This is the last call for the course "MODELLING DYNAMICS IN BIOLOGY. FROM HISTORY TO PRACTICAL EXAMPLES", February 4-7, 2014.

Instructors: Dr. Andreea Munteanu (CGR, Spain) and Dr. Carlos Rodrguez-Caso (Universidad Pompeu Fabra, Spain)

Place: Premises of Sabadell of the Institut Catal de Paleontologia Miquel Crusafont, C/ de lEscola Industrial, 23, 08201 Sabadell, Barcelona (Spain).

The current course will present an overview of systems biology with emphasis on the necessity, uses and pitfalls of dynamical modelling in biology. It introduces the required language and philosophy for a smooth and fruitful collaboration between life scientists and theoreticians (i.e. mathematicians, physicists, computer scientists). The main goal of the course is not a detailed description of the modelling tools in systems biology, but a thorough overview of the terminology and applicability range of these methodologies. The time dedication throughout the course will be one third for theoretical introduction, and two thirds for modelling applications for very diverse biological systems. The participants will acquire the necessary skills to understand and interpret models and modelling results from scientific articles, and will take the first steps into building their own mathematical models.

Organized by: Transmitting Science and the Institut Catal de Paleontologia

More info: http://www.transmittingscience.org/-courses/syst-bio/intro-system-bio/ or writing to courses@transmittingscience.org

With best regards

Soledad De Esteban Trivigno, PhD. C Course Director Transmitting Science www.transmittingscience.org Soledad De Esteban Trivigno <soledad.esteban@transmittingscience.org>

Bertinoro Italy LandscapeGenetics Nov3-9

WHERE: Bertinoro, Italy WHAT: Autumn school "Landscape genetics in transition to landscape genomics" WHEN: 3 - 9 November 2013

Landscape genomics is an exciting and rapidly growing discipline that combines genome-wide patterns of genetic variation, large environmental data sets and spatial statistical methods, to improve our understanding of both species ecology and ecological adaptation. This autumn school aims to provide an updated dis-

cussion of landscape genetics analysis in the new genomic era, guided by experts in genomics, spatial statistical analyses, and population genetics. It will include an assortment of conceptual, methodological and applied contributions, followed by hands-on training in order to provide an overview of novel approaches for analysing the environmental context of genomic variation. The autumn school is aimed at early-career researchers (PhD students, postdoctoral researchers, and faculty who wish to gain training in this area) who have some background knowledge in population genetics and landscape genetics but who have an interest in improving their skills with regards to the analysis of the environmental context of genome-wide genetic variation obtained from novel NGS data. The autumn school will have a limited number of participants (30) and lectures (ca. 5).

Aim and Objectives This autumn school will provide an excellent opportunity to introduce young scientists (PhD students and postdocs) to the complex field of landscape genomics and familiarise them with the application of novel analyses from different disciplines that merge within this novel field. The specific objectives of this workshop are: 1) Promote better understanding links between the novel genomic information and spatially explicit analysis, in order to facilitate interdisciplinary communication and education in the new emerging field of landscape genomics 2) Provide an update of the current state of the landscape genetics field and the major challenges and opportunities by the incorporation NGS data. 3) Explore recent analytical advances in NGS of non-model species and gain experience about data collection, production and analysis strategies in population genomics. 4) Provide hands-on training for analysing the environmental context of genetic (neutral and adaptive) variation through spatial statistic and simulation modelling using the most recent methods on landscape genetics/genomics. 5) Address current research challenges and explore new opportunities to improve future landscape genomics applications, and positively contribute to the future growth of this promising field.

AUTUMN SCHOOL VENUE The school will be held at The University Residential Centre of Bertinoro (Ce.U.B.), Italy. This centre is active since 1994 in the field of vocational training, conferences, congresses and lectures. Ce.U.B. is a professional training centre of the University of Bologna and it is located in the ancient town of Bertinoro (Forlg-Cesena). http://-/www.ceub.it/ . REGISTRATION The workshop is supported by the European Science Foundation (ESF). Registration is free and accommodation and meals during the workshop are paid for by the ESF. Travel costs will be reimbursed (after the autumn school) up to a maximum of 100 for Italian participants and up to a maximum of 200 for non-Italian participants. Thirty (30) participants will be selected based on CV, motivation and date of registration. Only those who are registered for the autumn school are eligible to participate. Participants will be prioritized according to the following order: 1) Participants from contributing member countries (Belgium, Denmark, Finland, Germany, Greece, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland) of this ESF network program, 2) Participants from non-contributing ESF member countries in Europe, 3) Participants from the remaining countries.

You can download the registration form at http://-/www.ru.nl/congenomics/activities/autumn-school-2013/ Registration deadline: October 9th, 2013 // Notification of acceptance: October 12th, 2013

"Vergeer, Philippine" <philippine.vergeer@wur.nl>

CostaRica ConservationGenetics May24-Jun8

Hello everyone, I apologize for the cross-posting. However I wanted to share the following information:

OTS is offering a graduate level field course for 2014 in conservation genetics. The course will be taught by Jim Hamrick of the University of Georgia. The course will take place at Las Cruces Biological Station, Costa Rica. The course is accredited, meaning students that participate will receive 2.0 academic credits. For more information about the course visit http://bit.ly/13AeiZC

Conservation Genetics (http://bit.ly/13AeiZC)

-Coordinator: Jim Hamrick (< http://-www.plantbio.uga.edu/ ~ hamrick/hamrick.html > Lab website) -Course duration: 2 weeks (May 24 to June 8, 2014)

-Course Credits: 2.0 -Application Deadline: February 3, 2014 for priority consideration, followed by rolling admission until fully enrolled.

OTS is a consortium of over 50 universities worldwide so credits from our courses are recognized by all the member institutions (http://bit.ly/1078fLg).

Andres Santana

Graduate Education Department Organization for

Tropical Studies San Pedro, Costa Rica. 676-2050

(506) 2524-0607 ext. 1511

www.ots.ac.cr

Andrés Santana <andres.santana@ots.ac.cr>

Crete ComputationalMolEvol May5-14

Dear Community,

The 6th summer school on computational molecular evolution that I am organizing with Ziheng Yang, Nick Goldman, and Aidan Budd will take place from May 5 - 14 2014 in Crete, Greece again.

The application deadline is in one week from now, on October 31st.

Please visit the course web-site for further details:

http://events.embo.org/14-computational-evolution/-index.html Alexis

Alexandros (Alexis) Stamatakis

Research Group Leader, Heidelberg Institute for Theoretical Studies Full Professor, Dept. of Informatics, Karlsruhe Institute of Technology Adjunct Professor, Dept. of Ecology and Evolutionary Biology, University of Arizona at Tucson

www.exelixis-lab.org alexandros.stamatakis@gmail.com

Finland InfectiousDiseases Aug17-24

Summer school: Dynamics of Infectious Diseases (17-24 August 2014, Finland)

Dear Colleagues,

We are pleased to invite students and young researchers to the 2014 edition of The Helsinki Summer School on Mathematical Ecology and Evolution, an EMS-ESMTB School in Applied Mathematics, which will focus on the dynamics of infectious diseases. The school will be held between 17 and 24 August 2014 in Turku, Finland. The core program consists of five series of lectures,

Odo Diekmann: Population dynamics of infectious diseases Frank Ball: Stochastic models of epidemics Thomas House: Networks and epidemics Michel Langlais: Spatial dynamics of infectious diseases Troy Day: Evolution of hosts and pathogens

All young researchers working in mathematical epidemiology, ecology or evolution can apply from all countries, especially from Europe and the Mediterranean. The school is aimed at graduate students of mathematics, but we also welcome students of biology with sufficient background in mathematics, as well as advanced undergraduates and postdocs.

The deadline for applications is 15 April 2014. There is no registration fee. For more details and application, see http://mathstat.helsinki.fi/research/-biomath/summerschool2014/ . Eva Kisdi, Mats Gyllenberg and Elina Numminen

Gothenburg Sweden PopulationGenomic DataAnalysis

An introduction to bioinformatic tools for metagenetic and population genomic data analysis 4-8 November 2013

This course aims at detailed understanding and hands-on experience of using state of the art bioinformatics pipelines for one's own biological research questions. An important aspect of the course is to show how genomic data can be applied to address and answer research questions in the fields of genetics, ecology, population biology, biodiversity monitoring and conservation. The students will be trained in the latest bioinformatic methods to analyze high throughput sequencing data, which is present in many research projects. The course will cover basic computing tools required to run command line applications, processing high throughput sequencing data of the CO1 gene from environmental samples to reveal biodiversity and analysis of sequencing data from whole genome scans for population genomic studies.

The first part of the course introduces general computing tools for beginners such as the UNIX command line environment, bash commands, data formatting using regular expressions and basic scripting in the unix shell with a series of examples and exercises. The course introduces bioinformatics software for analysis of sequence data from metagenetics (The

high-throughput sequencing of a molecular marker from an ecosystem or a community of organisms, used for large-scale analyses of biodiversity), through a series of live demonstrations (AmpliconNoise, TaxAssign, QIIME). The course also introduces basic and advanced concepts of population genomics data analysis such as genome/transcriptome assembly, annotation (BLAST), alignment/mapping, differential Gene expression, functional enrichment tests, SNP genotyping, PCA, outlier tests. The course corresponds to 1 week of full time studies and and is composed of lectures, demonstrations and computer labs.

The course is limited to 12 graduate students or postdocs. There is no course fee, but students will have to fund their own travel and lodging in Gothenburg. All course sections take place on Medicinareberget, Gothenburg, Sweden.

For registration, please contact Sarah Bourlat (sarah.bourlat@gu.se) or Pierre De Wit (pierre.de_wit@gu.se)

Pierre De Wit, Ph.D. University of Gothenburg, Department of Biology and Environmental Sciences Sven Lovén Centre for Marine Sciences Kristineberg 566 451 78 Fiskebäckskil Sweden

Phone: +46 31 786 9550 http://-www.bioenv.gu.se/english/staff/pierre-de-wit/ pierre.de_wit@bioenv.gu.se

Maldives CoralReefs Apr11-20 Aug22-Sep1

Although not exactly focused on evolution, participants will learn the basics on general ecology which will hopefully open up their minds to evolutionary and genetics based research in and around reefs and their organisms. I feel the EvolDir would be useful in getting this course out to those who may be interested

Regards

Mike Sweet

We are pleased to announce dates for the 2014, 10 day field course based at the new marine research station in the Maldives - Korallion Laboratory (www.korallionlab.com).

Based on Vavvaru Island, Lhaviyani Atoll, in the Indian Ocean, Korallionlab offers many different reef habitats for potential research projects: from tracts of reef with ~100% coral cover, patch reefs within the sandy lagoon and large coral bommies, which are often frequented by manta rays and whale sharks. There is a purpose built wet lab on sight for tank based experiments which has sea water flow through and a dry lab adjacent, kitted out with state of the art research equipment. The main reef can be easily reached by snorkeling and diving is not essential for your work during the course and therefore not offered as part of this course. Next year we will be running two courses the first of which runs between April 11th-20th 2014 and the second August 22rd-1st September 2014. This course is designed to provide students of any level with a sound foundation in ecological concepts, survey techniques and experimental design in field research applied to coral reef ecosystems. The Maldives, an atoll country has been described as one of the most interesting and diverse reef formations in all of the Indian Ocean. During the course we will provide a brief introduction on coral ecology, focusing on corals, sponges, echinoderms, reef fish and other organisms. We will cover lecturers on coral anatomy, physiology and ecological requirements. We will also assess the roles off these organisms on the reef and cover ways the reefs are being impacted by both antrophogenic and natural factors. Reef health sampling techniques will be discussed and practiced in the field and we will go over numerous experimental designs and sampling schemes aimed at describing the reef community and reef health status as a whole. During the latter end of the week, each student will be expected to prepare a brief, original project in consultation with instructors. Projects may be suggested by observations made during group exercises or from the class lectures, and will be evaluated on the basis of feasibility in the available time, experimental design and concept. During the final two days of the course, data analysis will be carried out and students will present their results orally in an end-of-course symposium. The course costs $1500 which covers all food and accommodation, however flights (both international and internal) are not included but we can assist with booking. For more information please don't hesitate to contact Dr Michael Sweet, the course instructor at m.sweet@derby.ac.uk

Michael Sweet <M.Sweet@derby.ac.uk>

Manchester Biodiversity Dec5-6

BioVeL, a virtual laboratory for biodiversity research data, is offering two training workshops

≪Introduction to workflows for taxonomic refinement, biogeographic analysis, and species distribution modelling≫ November 26-27, 2013, Cardiff University, UK Description of the workshop and registration

≪Building workflows with Taverna workbench≫ December 5-6, 2013, Manchester, UK Description of the workshop and registration

Note that these training workshops are free to attend but registration is required. The number of participants is limited. For further information, please write contact@biovel.eu.

More information on BioVeL: www.biovel.eu BioVeL is funded by the European Commission 7th Framework Programme (FP7) as part of its e-Infrastructures activity (Grant no. 283359).

Elisabeth PAYMAL BioVeL Communication Officer www.biovel.eu Responsable du Pôle communication et partenariats Fondation pour la Recherche sur la Biodiversité (FRB)

www.fondationbiodiversite.fr elisabeth.paymal@fondationbiodiversite.fr +33 1 80 05 89 21

195 rue Saint Jacques 75005 Paris France

Elisabeth Paymal <elisabeth.paymal@fondationbiodiversite.fr>

NonModel genomics videos

Dear Colleagues,

Videos < https://sites.google.com/site/nonmodelws/-course-content > and other materials are now available for all topics covered at the Nonmodel Genomics Workshop held July 23-24 2013 at Cornell University. This workshop was sponsored by the American Genetics Association with additional assistance from the Cornell Center for Comparative and Population Genomics. Lectures/topics included:

Introductory lectures

* Andy Clark, Signals of adaptation in genomes - where are they and how do we identify them? * Matt Hare, Genomic sampling overview - reduced representation strategies * Nancy Chen, RAD/GBS clustering strategies * Alex Buerkle, Applications of low coverage sequence data to genomics of species barriers and trait variation * Pierre De Wit, Transcriptomes for population genomics and expression analysis

Lectures and exercises Nancy Chen - Genetic map-assisted analyses, Mendelian filtering Alex Buerkle - Probability basics for models of SNPs and genotypes - Hierarchical models for allele frequencies - F-models for population differentiation - Models for ancestry and introgression in hybrid zones (Admixture questions) - Bayesian modeling exercises in JAGS Pierre De Wit - Transcriptome de novo assembly - algorithms and pipelines - Exercise: SNP/genotype calling & filtering

Find links to videos and other workshop materials at the workshop website < https://sites.google.com/site/-nonmodelws/course-content >.

Videos are also available here < http://-www.cornell.edu/video/playlist/next-generation-population-genomics-for-nonmodel-taxa >.

Thank you to our sponsors, to the instructors for the generous time they devoted to this workshop, to the teaching assistants that made the workshop a success for 70 students (!! - Surya Saha, Suzy Strickler, Margarita Lopez-Uribe, Anthony Geneva, Katie Wagner, Chaz Hyseni, Scott Taylor, Nick Mason, Laura Eierman and Nick Fletcher), and to Melanie Moss for administrative assistance.

Enjoy!

Matt

Matthew Hare Associate Professor 205 Fernow Hall Department of Natural Resources Cornell University Ithaca, NY 14853 mph75@cornell.edu 607-255-5685 http://www2.dnr.cornell.edu/HareLab/harelab.html "Matthew P. Hare" <mph75@cornell.edu>

Oeiras Portugal Bioinformatics Nov27-29

Course Announcement

Applications are open for:

CSDM13 "Chromosome structure determination using modeling and Hi-C data" with Davide Baù and François Serra (CNAG and CRG, Barcelona)

IMPORTANT DATES for this Course Deadline for applications: November 20th 2013 Notification of acceptance within 72 hours of application Course date: November 27th to November 29th 2013

More details at the course website http://-gtpb.igc.gulbenkian.pt/bicourses/CSDM13/ *Course

description* The sequence of a genome alone does not carry enough information to fully understand how genomic processes are carried out in the cell nucleus; to achieve this, the knowledge of the three-dimensional (3D) architecture of a genome is necessary. Advances in genomic technologies and the development of new analytical methods, such as 3C-based methods, have allowed getting insights at unprecedented resolution into how the genome is organized. Recently, it has been shown that chromatin is organized in Topologically Associating Domains (TADs), large interaction domains that appear to be conserved among different cell types. In this course, participants will learn to use TADBit, a software for the analysis and 3D modeling of Topologically Associated Domains (TADs) and genomes. TADBit is based on a computational module of the Integrative Modeling Platform (IMP, http://www.integrativemodeling.org) that uses chromosome conformation capture data to determine the 3D architecture of genomic domains and entire genomes at unprecedented resolutions. Participants can bring-in specific biological questions and/or their on data to work on during the course.

Target Audience The course is oriented to experimental researchers with minimal computational skills, at the graduate and post-graduate levels. It is also suitable for bioinformatics developers at all levels. We anticipate that this course is attended by people with several types of interests in genome organization. It is likely that they may also aim at getting involved in generating Hi-C data for chromosome structure determination and that they want to model its 3D representation, but that does not need to be the case for all the participants: they may, for example, just want to explore publicly available data.

Pedro Fernandes GTPB Organiser

PS. You may be interested in a recent review on the subject of this course,

"Exploring the three-dimensional organization of genomes: interpreting chromatin interaction data" Job Dekker, Marc A. Marti-Renom & Leonid A. Mirny Nature Reviews Genetics, 14, 390-403 (2013) doi:10.1038/nrg3454

http://sgt.cnag.cat/services/BBibTeX/pdfs/-20130509_DekkerMarti-RenomMirny_NRG2013.pdf

Pedro Fernandes Instituto Gulbenkian de Ciência Apartado 14 2781-901 OEIRAS PORTUGAL Tel +351 21 4407912 http://gtpb.igc.gulbenkian.pt Pedro Fernandes <pfern@igc.gulbenkian.pt>

OxfordBrookesU EvoDevo Aug3-9

Dear Colleagues,

We are delighted to offer our 2nd Eco-Evo-Devo Summer School from August 3rd to 9th 2014 at Oxford Brookes University. For full details please see the Summer School website:

http://bms.brookes.ac.uk/ceec/eco-evo-devo-summer-2014 We would very much appreciate it if you could encourage your post-graduate students and postdocs to apply.

Apologies for multiple postings.

Thanks and best wishes,

Alistair and Casper.

Dr. Alistair P. McGregor

Reader in Biology Evolution of Animal Development and Morphology Department of Biological and Medical Sciences Oxford Brookes University Gipsy Lane Oxford OX3 0BP United Kingdom

Tel: +44 (0)1865484191 Fax: +44 (0)1865483242

www.mcgregor-evo-devo-lab.net Dr Casper J. Breuker Senior Lecturer in Biology Evolutionary Developmental Biology Research Group

Dpt of Biological and Medical Sciences, Faculty of Health and Life Sciences Oxford Brookes University Gipsy Lane, Headington,Oxford, OX3 0BP, UK

ROOM NR: GIP-S3.08b (Sinclair Building) tel: +44(0)1865483244; fax: +44(0)1865483242

Alistair McGregor <amcgregor@brookes.ac.uk>

SanDiego PAG2014PopulationGenomics Jan11-15 3

Population and Conservation Genomics Workshop

Plant and Animal Genome XXII International Conference http://www.intlpag.org/ January 11-15, 2014 Town and Country Convention Centre, San Diego, Cal-

ifornia

Population and Conservation Genomics workshop will be held at the Plant and Animal Genome XXII International conference. The workshop is scheduled on Saturday, January 11, 2014. You are invited to attend this Workshop and submit abstracts for oral presentations on any population and conservation genomics aspect of both plants and animals. The topics may include: population genomic diversity and structure; molecular evolution; adaptive molecular genetic variation; natural selection and local adaptation; candidate-gene and genome-wide association studies; application of genomics in conservation and management of genetic resources; genomic effects of domestication, management practices, fragmentation, bottlenecks, climate and environment change, and transgenic deployment; and gene conservation; etc.

The workshop has a slot for six invited speakers. A number of invited presentations will be selected from the submitted abstracts. Please send your abstract of no more than 250 words by e-mail to Om Rajora (Om.Rajora@unb.ca) as an attached Word file no later than October 18, 2013. You will be notified by October 23nd whether your abstract has been selected for an oral presentation. Thereafter, the selected presenters will submit their abstract to the PAG website. Authors whose abstracts are not selected for oral presentations are highly encouraged to present a poster at the conference.

Inquiries and Abstract Submission

For information and questions regarding the Population and Conservation Genomics workshop, please contact Om Rajora at the following coordinates.

Dr. Om P. Rajora, Faculty of Forestry and Environmental Management, University of New Brunswick, Fredericton, NB E3B 6C2, Canada.

E-mail: Om.Rajora@unb.ca

Tel: (506) 458-7477 Fax: (506) 453-3538

Om Rajora <om.rajora@unb.ca>

SmithsonianInst MarineInverts Jun17-Jul23

The Bocas Research Station in Panama will have two annual courses of marine invertebrates. This is something of interest to other evolutionary biologists below and we would like to share at EvolDir.

Tropical Polyclad and Flatworm course:

The Smithsonian Tropical Research Institute's, Bocas Research Station welcomes applications for:

A short-course in Taxonomy and Systematics of Tropical Polyclad Flatworms, July 09-23, 2014

The registration fee is $800 (includes room and board and STRI registration fee) Deadline: February 1st, 2014 Instructors: Dr. Marcela Bolaños (Universidad de Cartagena) and Dr. Sigmer Quiroga (Universidad de Magdalena) Organizer: Dr. Rachel Collin (Smithsonian Tropical Research Institute) For application information visit: http://www.stri.si.edu/-sites/taxonomy_training/future_courses/2014/-2014_Taxonomy_Systematics_Tropical_Polyclad_F.html Tunicates and Flatworm course:

The Smithsonian Tropical Research Institute's, Bocas Research Station welcomes applications for

A short-course in Taxonomy and Biology of Tunicates the next June 17 - July 1, 2014

The registration fee is $800 (includes room and board and STRI registration fee) Deadline: February 1st, 2014 Instructors: Dr. Rosana Rocha (Universidades Federal do Paraná) and Dr. Gretchen Lambert (University of Washington) Organizer: Dr. Rachel Collin (Smithsonian Tropical Research Institute) For application information visit: http://www.stri.si.edu/-sites/taxonomy_training/future_courses/2014/-2014_Taxonomy_Biology_Tunicates.html Regards,

JOSE GUILLERMO SANCHEZ PAREDES, BS Digital Journalism Master student at University of Panama, Republic of Panama Smithsonian Institution Research Assistant Naturalist Guide at Barro Colorado island Official email: sanchezjg@si.edu Office phone: (507)-212-8088 Smithsonian Tropical Research Institute Panama, Republic of Panama Mobile: (507)-69807399 Twitter: @Paraponera21

"Sanchez, Jose Guillermo" <SanchezJG@si.edu>

Texel Netherlands EvolutionMarineParasites Mar10-14

Dear colleagues,

We are pleased to announce the International Symposium 'Ecology & Evolution of Marine Parasites and Dis-

eases' which will take place at the NIOZ Royal Netherlands Institute for Sea Research on Texel in the Netherlands from 10-14 March 2014.

The budding fields of marine ecological and evolutionary parasitology lack a platform that fosters the exchange among the divergent questions and approaches taken to understand the role of parasitism and disease in marine ecosystems. This symposium intends to fill this void with the aim to:

- collect and synthesise our current knowledge on marine parasites and diseases. - facilitate the exchange of ideas and collaborations among researchers from different fields. - identify important future research avenues.

We are delighted to announce that the following invited speakers have confirmed to join the symposium: Robert Poulin (University of Otago, NZ), Mark Bertness (Brown University, USA), Kevin Lafferty (USGS & UC Santa Barbara, USA), Corina Brussard (NIOZ & University of Amsterdam, NL), Carolyn Friedman (University of Washington, USA), David Marcogliese (Environment Canada, CA).

Themes of the symposium:

- Biogeography and macroecology - Phylogeography and population genetics - Local adaptation and coevolutionary dynamics - Direct and indirect effects of diseases on marine populations and communities - Parasites in marine food webs and effects on ecosystem functioning - Drivers of epidemics and emerging diseases - Diseases in marine reserves and in marine conservation efforts

Please find a pdf flyer of the symposium attached to this E-mail which you are kindly asked to distribute to others who might interested in the symposium. For further information and registration got to:www.marineparasites2014.org . Kind regards David Thieltges & Mathias Wegner

Mathias Wegner

AWI Waddenseastation Sylt Hafenstrasse 43 25992 List/Sylt +49 4651 9564-205 +49 4651 9564-200

Mathias.Wegner@awi.de http://www.awi.de/People/-show.php?mwegner Mathias.Wegner@awi.de

UCalifornia Merced ESLwriting

Writing workshops for beginning writers and writers who speak English as a second language (ESL) at University of California, Merced.

In the summer of 2014, Dr. Miriam Barlow will be teaching online and on site week long academic writing workshops focused on helping beginning writers and ESL students prepare scientific results for publication in a peer reviewed journal. This workshop will be particularly useful for evolutionary biologists particularly those who are writing about phylogenetics, and population genetics, but other topics are welcome.

Dr. Barlow, has hosted numerous ESL students (including undergraduates) in her laboratory and has taught them how to prepare their work for publication. She has successfully worked with ESL lab personnel (including undergraduates) to prepare and publish numerous manuscripts, written primarily by the non-native speaker.

Merced is located in the heart of California's Central Valley Region. The students at the University of California, Merced are 90% first generation college attendees, many of whom come from bilingual homes or who speak English as a second language.

For more information, please use the following link, and scroll down, and look to the right: http://igg.me/at/-ProjectProtect/x/4247985 and contact Miriam Barlow at miriam.barlow@gmail.com

miriam.barlow@gmail.com

URegensburg EvolutionaryqPCR Dec5-6

2-day qPCR course 5th-6th December 2013, University of Regensburg, Germany.

COURSE CONTENTS: . Entire qPCR workflow covered in two days . Focus on gene expression (including microRNA) . Theoretical background and practical hands-on data-analysis . Complemented with training on Biogazelles qbase+ software . Focus on experiment design and data-analysis . Attention for validation and quality control

FIVE GOOD REASONS TO ATTEND: 1- Throughout the course the trainers explain how quality control at each step in the qPCR workflow ensures accurate results.

2- A reliable qPCR study begins with good experiment design. On the first day of the course the principles

of experiment design are complemented with practical exercises.

3- Normalization using a non-validated housekeeping gene may lead to errors more than 3-fold in 25% of the experiments. To avoid such errors, the students learn how to determine which and how many reference genes to use.

4- Statistical analysis of qPCR results remains a bottleneck for many researchers. The course covers descriptive statistics to summarize qPCR results; key guidelines are provided to facilitate the selection of appropriate statistical tests.

5- Biogazelles qPCR course allows the students to master the MIQE guidelines and publish their qPCR results accordingly.

WHAT YOU GET: Interactive training by Biogazelles qPCR experts with proven track record, a 2-month premium qbase+ license and a package of references and course notes on qPCR design and analysis.

TARGET AUDIENCE: The course is intended for all qPCR users with a basic level of experience.

COST: 300 EUR for 2 days. 20 places are available.

FURTHER INFORMATION AND ENROLLMENT: mariana.mondragon@biologie.uni-regensburg.de

More information of qbase+ software and Biogazelle: http://www.biogazelle.com Mariana Mondragon <Mariana.Mondragon@biologie.uni-regensburg.de>

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 notifcation of the availability of a monthly review pdf file.

To be removed from the EvolDir mailing list please send an email message to Golding@McMaster.CA. Note that 'on vacation', etc, style messages are automatically filtered and should not be transmitted to the list (I hope), but should you wish to avoid the e-mail's your code can be temporarily changed to 000000.

To send messages to the EvolDir direct them to the email evoldir@evol.biology.McMaster.CA. Do not include encoded attachments and do not send it as Word files, as HTML files, as LaTeX 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 formated) the message will be send to me at Golding@McMaster.CA and processed later. In either case, please do not expect an instant response.

Afterword

This program is an attempt to automatically process a broad variety of e-mail messages. Most preformating is collapsed to save space. At the current time, many features may be incorrectly handled and some email messages may be positively mauled. Although

this is being produced by LaTeX do not try to embed LaTeX or TeX in your message (or other formats) since my program will strip these from the message.