E v o l D i r

October 1, 2014

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

Foreword

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

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

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

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Conferences

Bayreuth Germany Biogeography Jan

The Early Registration deadline for the upcoming 7th Biennial Conference of the International Biogeography Society (Bayreuth, Germany - January 2015) has been extended to September 30th, 2014 so you can take advantage of lower registration rates.

Fieldtrips and workshops are on a first-come, first-served basis, so it is best to sign up soon before they fill up! Fieldtrips: http://www.bayceer.uni-bayreuth.de/-ibs2015/en/prog/gru/html.php?id_obj=3D11067 Workshops: http://www.bayceer.uni-bayreuth.de/-ibs2015/en/prog/gru/html.php?id_obj=3D11077 In addition to the regular IBS facebook and twitter venues, there is now a dedicated twitter and facebook page for the conference. Sign up/follow to keep current on the latest conference notifications like impending deadlines!

Web: http://www.biogeography.org/html/Meetings/-index.html Twitter: @ibs2015 (#ibs2015) Facebook: IBS Conference in Bayreuth 2015

Hope to see you in Bayreuth this coming January!

Michael N Dawson VP Public Affairs and Communications

International Biogeography Society http://-www.biogeography.org https://www.facebook.com/-groups/6908354463 @biogeography

Frontiers of Biogeography http://escholarship.org/uc/-fb @newbiogeo

dawson.mn@gmail.com

Granada Spain ClimateAdapation Feb22-27

Dear colleagues, dear friends,

How about discussing breakthrough science with a glass of excellent Spanish wine under the sun of Granada next February?

Piero Calosi (Université du Québec à Rimouski, Canada), Frank Melzner (IFM-GEOMAR, Germany), Pierre de Wit and myself (University of Gothenburg , Sweden) are organizing an exciting session at the 2015 Aquatic Sciences Meeting on 22-27 February 2015 at the Granada Congress and Exhibition Centre (Palacios

de Exposiciones y Congresos de Granada) in Granada, Spain (http://www.sgmeet.com/aslo/granada2015/-default.asp < http://sgmeet.com/jasm2014/ >)

We invite you to submit an abstract to be presented at the session:

068 - Trans-generational effects of climate change on marine species

Anthropogenic driven marine climate change is projected to occur for thousands of years to come, and to have significant effects on many marine systems. While significant evolutionary responses are expected to occur during such persistent environmental change, most experimental studies to date have considered only short term effects and single life- history stages. Little is known about the trans-generational effects and the relative contribution of plasticity, epigenetic and evolution. This session will gather experts from different disciplines (climate change, eco-physiology, evolution, -omics) and explore the state of the art of the field and theoretical and experimental challenges associated with the investigation of the critical role of trans-generational effects in species responses to marine climate change. Questions we will address include: - Can exposure in a specific life-history stage carry-over to another? - Can phenotypic plasticity be used to predict evolutionary response and potential for adaptation? - What is the relative contribution of plasticity and selection? - What are the cost and mechanisms associated with phenotypic plasticity? - What is the contribution and mechanisms of epigenetics to adaptive response?

Deadline for Submission of Abstracts is 10 Oct 2014 Registration: http://sgmeet.com/aslo/-granada2015/registration-fees.asp < http://-sgmeet.com/jasm2014/registration_fees.asp > Session page: http://www.sgmeet.com/aslo/granada2015/-sessionschedule.asp?SessionID=068 Let us know if you have any questions

Looking forward seeing you in Spain Sam Dupont

Sam Dupont <sam.dupont@bioenv.gu.se>

Granada Spain EvolutionaryAdaptaionsSeasonality Feb22-27

Dear colleagues,

If interested in phenology and evolutionary adaptations to seasonality, please consider the session we are organizing at the Aquatic Sciences Meeting in Granada 22-27 February 2015: "When, and why then? Phenology and evolutionary adaptations to seasonality in aquatic ecosystems" http://www.sgmeet.com/-aslo/granada2015/sessionschedule.asp?SessionID=029 We invite you to submit an abstract. Deadline for abstract submission is 10 October.

Best wishes, Øystein Varpe & Monika Winder

Øystein Varpe Associate professor University Centre in Svalbard (UNIS) www.unis.no +47 97762645 oystein.varpe@unis.no

Adjunct senior scientist Akvaplan-niva

Øystein Varpe <Oystein.Varpe@unis.no>

KansasCity EcologicalGenomics Oct31-Nov2

Travel Fellowships for the 12th Annual Ecological Genomics Symposium

The Ecological Genomics Institute (ecogen.ksu.edu) at Kansas State University has funds to support student and postdoc travel fellowships to attend the 12th Annual Ecological Genomics Symposium (ecogen.ksu.edu/symp2014) in Kansas City from October 31st to November 2nd 2014. International students are eligible for these fellowships.

The 12th Ecological Genomics Symposium will feature an outstanding lineup of speakers that will discuss their latest research results:

Zach Cheviron, University of Illinois, Evolutionary and functional genomics of high-altitude adaptation in deer mice

Casandra Extavour, Harvard University, Using Drosophilid flies to understand how the development of reproductive capacity may be influenced by ecological niche

Jack Gilbert, University of Chicago and Argonne. Mapping the Microbiome in Agricultural Ecology

Felicity Jones, Max Planck Institute, Tübingen, Germany, Molecular mechanisms of adaptive divergence and speciation in threespine sticklebacks.

Catherine Linnen, University of Kentucky, From mice to mutations: Genetic basis of adaptive coloration in Peromyscus

Michael Lynch, Indiana University, Moving population-genomics forward: 5000 Daphnia pulex genomes

Sean Place, Sonoma State University, Comparative transcriptomics: An alternative approach to conservation in the Southern Ocean

Jesse Poland, Kansas State University, High-throughput genotype and phenotype analysis of agriculture ecosystems

John Stinchcombe, University of Toronto, Ecology and genomics of life history adaptation in introduced Arabidopsis populations

Alex Wilson, University of Miami, Metabolic and developmental integration of the obligate intracellular symbionts of sap feeding insects

POSTER SESSIONS: A poster sessions will be held on Friday evening and Saturday afternoon. Poster topics should be related to the field of Ecological Genomics. A LIMITED NUMBER OF SUBMITTED POSTER ABSTRACTS WILL BE SELECTED FOR ORAL PRESENTATIONS.

TRAVEL FELLOWSHIPS. The fellowships are supported by the American Genetics Association with the goal of increasing the cultural and scientific diversity of the young scientists at the symposium. AGA-sponsored students and post-docs will receive a free 3-year student membership in the AGA. Membership provides eligibility to compete for awards and participate in Council elections, a Journal of Heredity subscription and access to the entire 100-year Journal archive.

Your application packet must include each of the following:

1. A statement that you are a United States citizen or permanent resident who is currently enrolled in a MS or PhD program or working as a postdoctoral researcher in the United States.

2. A title and abstract for a poster to be presented by the applicant.

3. A short CV/resume. Please include your gender and race and ethnicity for AGA reporting.

4. A paragraph on why you are interested in attending the symposium.

5. A brief letter of recommendation from your advisor submitted under separate cover. The letter should be sent to jenniferrhodes@ksu.edu by Monday, September 15, 2014.

Complete application (items 1 to 4) should be submitted as a single pdf document to jenniferrhodes@ksu.edu. The deadline for submission is Monday, September 15, 2014

For questions about the application contact Michael Herman at mherman@ksu.edu or 785-532-6741

johnson@ksu.edu

KansasCity EvolutionaryGenomics Oct31-Nov2 Deadline

5 DAYS TO REGISTER!!!

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

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

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

jenniferrhodes@ksu.edu

KansasCity Genomics Oct31-Nov2

Travel Fellowship Deadline FAST approaching!!

Travel Fellowships for the 12th Annual Ecological Genomics Symposium

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Jennifer Rhodes <jenniferrhodes@ksu.edu>

Lichtenfels CentralEuropeanIUSSI Mar26-29

REGISTRATION IS NOW OPEN FOR THE:

###IV Central European Meeting of IUSSI 2015 in Lichtenfels###

The next Central European Meeting of the International Union for the Study of Social Insects will be held on 26th to 29th March 2015 in Lichtenfels, Germany. We welcome presentations on any aspect of the evolution, ecology, and/or conservation of social insects.

OUR WEBSITE https://www.bayceer.uni-bayreuth.de/iussi2015/ ***INVITED SPEAKERS*** - Audrey Dussutour, University of Toulouse, France - Christoph Grüter, University of Lausanne, Switzerland.

IMPORTANT DATES Registration is open until 30th November 2014 The deadline for abstract submission of oral and poster presentations will be midnight (CET) of 31st December 2014.

HIGH COST EFFECTIVENESS Registration fees include accommodation in a double room and catering Non-member 320 EUR Full member 290 EUR Student member 260 EUR

Single rooms will be an extra 10 EUR per night!

VENUE We will discuss, eat and sleep at

"Schloss Schney", once a castle now a conference centre run by the Frankenakademie (http://www.franken-akademie.de). Lichtenfels (http://www.lichtenfels-city.de) is a picturesque town in the upper valley of the river Main with a convenient connection to the high-speed ICE train system of the Deutsche Bahn.

We are looking forward to seeing you in Lichtenfels!

Organizing Committee

Heike Feldhaar, University of Bayreuth Simon Tragust, University of Bayreuth Oliver Otti, University of Bayreuth

If you have any questions concerning the meeting please do not hesitate to e-mail us: iussi2015@bayceer.uni-bayreuth.de

Dr. Oliver Otti Animal Population Ecology Animal Ecology I University of Bayreuth Universitätsstrasse 30 95440 Bayreuth Germany

phone: +49921552646 e-mail: oliver.otti@uni-bayreuth.de

web: Otti's homepage

oliver.otti@uni-bayreuth.de

Marseilles 19thEvolBiology Sep15-18

The 19th evolutionary biology meeting at Marseilles will take place From september 15 to september 18

http://sites.univ-provence.fr/evol-cgr/ or http://-aeeb.fr/?page_id=333 Pierre Pontarotti

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

NHM London YoungSystematists Nov21 Corrected

Please note corrected date (1 week earlier)

16th YOUNG SYSTEMATISTS' FORUM

Friday, 21 November 2014, 9:30 am

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

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

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

Registration is FREE.

Send applications by e-mail to (YSF.SystematicsAssociation@gmail.com), supplying your name, contact address and stating whether or not you wish to give an oral or poster presentation. 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 24 October 2014. 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.

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

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

http://nhm.academia.edu/EllinorMichel=-0Awww.researchgate.net/profile/Ellinor_Michel
e.michel@nhm.ac.uk

NHM London YoungSystematists Nov28

16th YOUNG SYSTEMATISTS' FORUM

Friday, 28 November 2014, 9:30 am

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

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

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

Registration is FREE.

Send applications by e-mail to (YSF.SystematicsAssociation@gmail.com), supplying your name, contact address and stating whether or not you wish to give an oral or poster presentation. 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 31 October 2014. 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.

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

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

http://nhm.academia.edu/EllinorMichel=-0Awww.researchgate.net/profile/Ellinor_Michel
e.michel@nhm.ac.uk

PhnomPenh BiodiversityHealth Nov17-18 AbstractDeadline

Dear colleague,

This email is to remind you that the upcoming deadline for abstract submission and registration for the 'Biodiversity and Health' conference in Phnom Penh, Cambodia is October 15, 2014.

You can find details about the conference and the programme on the following website 'Biodiversity & Health Symposium < http://christopheboete.net/-science/biodivhealthPNH/index.html >' and updates are going to be posted on twitter @biodivhealth < https://twitter.com/BiodivHealth >

Feel free to contact us if you have any question and reserve those days! We are looking forward to meeting you in Cambodia.

Regards,

On behalf of the organizing committee,

Christophe Boëte

cboete@gmail.com

Portobello NZ Phylogenomics Feb2-6 registrationOpen

Registration for the 19th Annual NZ Phylogenomics Meeting is now open. This will be held at Portobello on the Otago Peninsula from Monday 2 February 2015 until midday Friday 6 February 2015, with a welcome gathering late afternoon on Sunday 1 February.

Information and links are provided on the webpage: http://www.math.canterbury.ac.nz/bio/events/-portobello2015/. As for previous meetings, registration will be managed on a first-come first-served basis.

Otago peninsula is a popular area for tourists so you are encouraged to book your accommodation early. Some suggestions are provided on the webpage.

We look forward to seeing many of you in Portobello in February.

Please feel free to forward this information to others you think might be interested in attending.

Regards David Bryant and Mike Hendy

(apologies for cross-postings)

Assoc. Prof. David Bryant Department of Mathematics and Statistics University of Otago Dunedin 9056 New Zealand http://www.maths.otago.ac.nz/~dbryant

ph: +64 3 4797889

David Bryant <david.bryant@otago.ac.nz>

Seville PhylogeneticComparativeMethods Nov11-15

Dear Colleagues,

We are pleased to inform you that the list of keynote speakers for the conference on "Modern Phylogenetic Comparative Methods and their Application in Evolutionary Biology" (11th-15th November 2014, Seville, Spain) is now complete.

Accordingly, the following experts confirmed to give plenary talks: Thomas F. Hansen (University of Oslo, Norway) Anthony R. Ives (University of Wisconsin-Madison, USA) Emília Martins (Indiana University, USA) Charles L. Nunn (Duke University, USA) Emmanuel Paradis (Institut de Recherche pour le Développement, France) Samantha Price (University of California, Davis, USA) Liam Revell (University of Massachusetts, USA)

The conference will focus on phylogenetic comparative methods that are now widely used in very diverse fields of evolutionary biology to make robust inferences from interspecific data and phylogenies. Currently, we witness a rapid flourishing of the phylogenetic toolbox allowing researchers to tackle diverse questions concerning the evolution of species and their traits. We aim at providing a bouquet of overviews on the most recent developments by the most prominent experts of the comparative methodology, and also at attracting an audience from different fields of evolutionary biology to demonstrate how the phylogenetic comparative approach can be used to address an ample array of biological questions in different taxa. We still welcome contributions to the main program (oral presentation or poster)

For more info on the scientific and social program as well as for the registration, please visit http://-www.mpcm-evolution.org/conference/ . Please, note that places are limited!

We look forward to seeing you in Seville!

the organising committee: László Zsolt Garamszegi (Estación Biológica de Doñana-CSIC, Spain) Alejandro Gonzalez Voyer (Estación Biológica de Doñana-CSIC, Spain) Carles Vilà (Estación Biológica de Doñana-CSIC, Spain) Juan Arroyo (University of Seville, Spain)

László Zsolt Garamszegi Department of Evolutionary Ecology Estación Biológica de Doñana-CSIC c/ Americo Vespucio, s/n 41092, Seville, Spain Tel: (+34) 954 232 340 - (+34) 954466700 ext. 1111 Fax: (+34) 954 621 125 E-mail: laszlo.garamszegi@ebd.csic.es

Laszlo Zsolt Garamszegi <laszlo.garamszegi@ebd.csic.es>

Smithsonian WebCast Phylogenetics Sept15

UPDATE The Frontiers in Phylogenetics Fourth Annual Symposium will be Webcast live >From the Warner Brothers Theatre, National Museum of American History on September 15, 2014, starting at 9 a.m. Watch it here http://www.ustream.tv/channel/-Smithsonian-On-UStream-TV "Genome-Scale Phylogenetics: Analysing the Data"

9:00 Introductions Michael Braun,National Museum of Natural History 9:05 Welcome to the Smithsonian John Kress, Interim Undersecretary for Science, Smithsonian Institution 9:15 Overview and Logistics Guillermo Ortí, George Washington University 9:25 Phylogenomics and Next-Generation Inferences: the Future of Phylogenetics in an Era of Big Data Lacey Knowles,University of Michigan 10:05 Break 10:30 Deep Metazoan Phylogeny and the Utility of Taxon-Specific Ortholog Sets Kevin Kocot,University of Queensland, Brisbane 11:10 A Phylogenomic View on the Early History of Gnasthostome Evolution: Is One Tree Enough? Ingo Ebersberger, Goethe University, Frankfurt 11:50 Lunch Break 1:30 Distinguishing Methodological and Biological Causes of Gene Tree Discordance in Phylogenomic Datasets Derrick Zwickl, University of Arizona 2:10 Filtering and Partitioning Strategies for Phylogenomic Analyses David Swofford, Duke University and National Evolutionary Synthesis Center 2:50 Break 3:10 Genome-scale Phylogenetics in the Presence of Hybridization and Incomplete Lineage Sorting Luay Nakhleh,Rice University 3:50 Joint Inference of Gene Trees and Species Trees at the Genomic Scale Bastien Boussau,University Claude Bernard, Lyon 4:30 Round Table Discussion With All Speakers

Sponsored by the National Museum of Natural History, Smithsonian Institution, and the Washington Area

Phylogenetics Consortium

Any questions or for more information contact Brian Coyle Coyleb@si.edu<mailto:Coyleb@si.edu>

National Museum of Natural History Smithsonian Institution Washington DC

"Coyle, Brian J." <CoyleB@si.edu>

Tempe Arizona IntlSocEvolMedPublicHealth Mar19-21

Registration is now open for the International Society for Evolution, Medicine, & Public Health Inaugural Meeting < http://evmedmeeting.org >, March 19-21 in Tempe Arizona.

The meeting is co-sponsored by the Foundation for Evolution, Medicine, & Public Health < http://-evolutionarymedicine.org/ > and the ASU Center for Evolution and Medicine < http://evmedcenter.org/ >. Charlie Nunn is the Chair of the Program Committee; Cynthia Beall and Randolph Nesse are working with him to create the program. Abstract submissions are welcome for talks, posters, discussions, and panel discussions.

Full information is available at http://-EvMedMeeting.org Register at http://-www.regonline.com/evmed Fees are substantially discounted for those who register early, and are refundable until February 15th.

It will be an exciting and memorable meeting.

Conference registration site < http://-www.regonline.com/evmed >

Conference website < http://http//evmedmeeting.org >

Plenary Speakers < https://sites.google.com/a/-asu.edu/cemph/cemph-events/emph-society-meeting/-plenary-speakers >

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Harvey Fineberg < http://en.wikipedia.org/wiki/-Harvey_V._Fineberg >, Institute of Medicine -

Stephen Stearns, < http://stearnslab.yale.edu/ > Yale University -

Barbara Natterson-Horowitz < http://-zoobiquity.com/authors/barbara-natterson-horowitz/ >, UCLA -

Sir Peter Gluckman < https://-unidirectory.auckland.ac.nz/profile/pd-gluckman >, University of Auckland -

Ann Demogines < https://sites.google.com/a/-asu.edu/cemph/cemph-events/goog_1080754583 >, < http://web.biosci.utexas.edu/sawyer/-Sawyer_Lab_Website/Ann.html > (Omenn Award Winner) BioFire Diagnostics -

Ruslan Medzhitov < http://immunobiology.yale.edu/-people/ruslan_medzhitov.profile >, Yale

rmnesse@gmail.com

Tempe Arizona SocEvolMedPublHealth Mar19-21

The Foundation for Evolution, Medicine, & Public Health (EMPH) is expanding its mission to sponsor a new Society for Evolution, Medicine, & Public Health.

The inaugural meeting for the Society will be March 19-21, 2015 in Tempe, Arizona, in collaboration with the Arizona State University Center for Evolution and Medicine (https://sites.google.com/a/-asu.edu/cemph/).

Plenary speakers will include: - Harvey Fineberg, Institute of Medicine - Stephen Stearns, Yale University - Barbara Natterson-Horowitz, UCLA - Sir Peter Gluckman, University of Auckland - Ann Demogines (Omenn Award Winner), BioFire Diagnostics - Ruslan Medzhitov, Yale University

Full information is available at http://-EvMedMeeting.org, including a list of other leaders in evolutionary medicine who have agreed to participate.

You can register and submit an abstract at http://-www.regonline.com/evmed .Space is limited, and fees are substantially discounted for those who register early.

We look forward to having many in the evolutionary biology community join us for this inaugural meeting!

charleslnunn@gmail.com

UFlorida EvolutionaryGenetics Oct29-30

Florida Genetics 2014 - Call for Abstracts October 29 & 30 UF Cancer & Genetics Research Complex

Including sessions on Genetics and Food Security; Genomes to Phenotypes; and Microbiomes Full details & info: http://ufgi.ufl.edu/FloridaGenetics2014 Faculty, students, post-docs and other researchers are invited to submit abstracts of their latest genetics research for poster sessions at the Florida Genetics 2014 Symposium.

Submit an Abstract: http://ufgi.ufl.edu/seminars-events/florida-genetics-symposium/ufgi-fgs-abstract-submission/ Complimentary on-line abstract submission and registration are now available at the UFGI website.

Abstract Deadline: October 3rd, 2014 The submitting author is automatically registered for the conference when they submit their abstract; however, all other authors on the poster must register individually if they wish to attend.

Accepted posters will be assigned to one of two sessions: Poster Session I: 2:45-4:45 p.m. on October 29th Poster Session II: 11:30 a.m.-1:30 p.m. on October 30th

Best Poster Awards: Awarded to post-docs and students, 4 p.m. on October 30th In order to be eligible for an award, the applicant must be both first author and presenter, and must check the appropriate box (post-doc or student) on the abstract submission form.

General Registration Deadline: October 24th, 2014

Keynote Speaker: Roger N. Beachy, PhD, The World Food Center, Davis, CA

Speakers

William (Brad) Barbazuk, PhD Associate Professor, Department of Biology University of Florida

Samantha Brooks, PhD Assistant Professor, Department of Animal Sciences University of Florida

Cameron Currie, PhD Professor, Bacteriology University of Wisconsin - Madison

Joerg Graf, PhD Associate Professor and Assoc. Dept. Head for Graduate Research and Education, Molecular and Cell Biology University of Connecticut

Graciela Lorca, PhD Associate Professor, Department of Microbiology & Cell Science University of Florida

Thomas Mitchell-Olds, PhD Professor, Biology Department Duke University

Elaine Ostrander, PhD Chief, Cancer Genetics Branch National Genome Research Institute (NIH) 2013 Genetics Society of America Medal recipient

Bill Petri, Jr., MD, PhD Wade Hampton Frost Professor of Medicine Chief, Division of Infectious Diseases and International Health University of Virginia

Gary P. Wang, M.D., Ph.D Assistant Professor, Medicine Division of Infectious Diseases and Global Medicine, College of Medicine University of Florida

Eve Wurtele, PhD Professor, Genetics, Development, and Cell Biology University of Iowa

Sponsors: Animal Molecular & Cellular Biology Graduate Program

College of Liberal Arts & Sciences (CLAS)

Department of Biology

College of Veterinary Medicine

Emerging Pathogens Institute

UF/IFAS Dean for Research Office

UF/IFAS Horticultural Sciences Department

ICBR - Interdisciplinary Center for Biotechnology Research

Plant Molecular & Cellular Biology Graduate Program 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://-mcdaniellab.biology.ufl.edu/ stuartmcdaniel@ufl.edu

UPuertoRico Mayaguez ConservationGenetics Jan12-22

Announcing "Recent Advances in Conservation Genetics" January, 12 - 22, 2015

The American Genetic Association together with the University of Puerto Rico at Mayaguez is presenting a 10-day intensive course in methods, interpretation, and applications of molecular genetic and genomic analyses for conservation of endangered species. For the

full information about the course, please visit http://congen2015.com/ Applicants should be conservation-minded scientists (advanced graduate students, post-docs, teachers, and researchers with advanced degrees) from academia, government, NGOs, or industry who are studying the genetics of endangered species and who will apply the knowledge gained from this course to the conservation of such species. The cost per participant will be $2,350 and will include your accommodation, all meals and travel from and to the airport. Partial or full scholarships may be awarded to registered students.

Topics to be covered include:

1. Phylogenetics (ML and Bayesian); divergence time estimation.

2. Population genetics/genomics: coalescence, estimation of Ne, demographic changes, gene flow (migration), structure/admixture, and kinship analysis

3. Analysis of SNPs: association mapping, signatures of selection

4. Current conservation genetics literature and personal experience stories by the faculty

Course Faculty

- Stephen J. O'Brien, St. Petersburg State University, RUSSIA

- Robert Wayne, University of California Los Angeles, CALIFORNIA, U.S.A.

- Scott Baker, Oregon State University, OREGON, U.S.A.

- Oliver Ryder, San Diego Zoo's Institute for Conservation Research, CA, U.S.A.

- Joan Pontius, SRA International, VIRGINIA

- Harris Lewin, University of California, Davis, USA.

- Warren Johnson, Smithsonian Institution, Washington D.C., U.S.A.

- Eduardo Eizirik, Pontifícia Universidade Católica do Rio Grande do Sul, BRAZIL

- Klaus-Peter Koepfli, Smithsonian Conservation Biology Inst., Washington, D.C., U.S.A.

- Rasmus Nielsen, University of California, Berkeley, CALIFORNIA, U.S.A.

- Bridgett vonHoldt, Princeton University, NEW JERSEY, U.S.A.

- Sher Hendrickson-Lambert, Shepherd University, WEST VIRGINIA, U.S.A.

- Agostinho Antunes, University of Porto, PORTUGAL

- Carlos Driscoll, National Institutes of Health, MARYLAND, U.S.A.

- Scott Citino, White Oak Conservation Center, FLORIDA, U.S.A.

- Jose Lopez, Nova Southeastern University Oceanographic Center, FLORIDA, U.S.A.

- Alfred Roca, University of Illinois at Urbana Champaign, ILLINOIS, U.S.A.

- Emma Teeling, University College Dublin, IRELAND

- Cindy Harper, University of Pretoria at Onderstepoor, SOUTH AFRICA

- Taras K. Oleksyk, University of Puerto Rico at Mayaguez, PUERTO RICO

Location:

Rincon, Puerto Rico is situated at the western-most coast of the island called Gates of the Sun (Porta del Sol), and famous for its sunsets. This little beach town is near of University of Puerto Rico at Mayagüez - a major research and educational center in the Caribbean. The course itself will take place at the Rincon of the Seas Grand Caribbean Hotel located close to the center of the town, within walking distance to the plaza, and many beach restaurants..

Application forms:

Please complete the application form and submit together with a CV at http://congen2015.com/. Payment must be made in full using the Regsitration link that will only be made available after successful applicants have been notified. Successful applicants will be notified via email and will be sent additional course information and they must ensure that they check the following list.

Dates:

12 to 22 January 2015

Application Deadline 15 September 2014

Acceptance/scholarship decision notification 5 October 2014

Deposit for Registration dues 12 November 2014

Taras K Oleksyk <taras.oleksyk@upr.edu>

WashingtonDC FernEvolution Jun1-5

NEXT GENERATION PTERIDOLOGY

An International Conference on Lycophyte & Fern Research

13th Smithsonian Botanical Symposium 12th Symposium of the International Organization of Plant Biosystematists

1-5 June 2015 in Washington D.C. National Museum of Natural History & United States Botanic Garden

http://botany.si.edu/sbs/ If you have questions, or would like to be added to the distribution list for conference-related announcements, please email: sbs@si.edu

CALL FOR COLLOQUIA

Each colloquium will consist of either six 30-minute or twelve 15-minute time slots and will likely include a combination of invited and contributed presentations. Topics centered on newly emerging fields, synthesizing existing areas of research, or otherwise being of broad interest will be most competitive. Colloquium organizers are expected to assemble a diverse (in terms of gender, seniority, nationality, etc.) lineup of speakers.

Colloquium proposals should include: (1) the colloquium title; (2) the names and institutional affiliations of the organizers; (3) a short abstract outlining the rationale and goals of the colloquium; (4) a preference for 30-minute or 15-minute time slots; and (5) a list of proposed speakers, with institutional affiliations and focal areas (please also indicate whether or not each speaker has been contacted and is planning to attend).

Proposals (PDF) should be emailed to Eric Schuettpelz (schuettpelze@si.edu), who will confirm receipt. The deadline for full consideration of colloquium proposals by the selection committee is 1 October 2014.

CALL FOR WORKSHOPS

Each workshop will focus on a specific topic and directly engage the participants in a particular activity. Possible formats or elements may include hands-on activities, demonstrations, tutorials, discussions. Workshops relevant to newly emerging fields, targeting understudied/neglected topics, or otherwise being of broad interest will be most competitive.

Workshop proposals should include: (1) the workshop title; (2) the names and institutional affiliations of the organizers; (3) a short abstract outlining the rationale and goals of the workshop; (4) the preferred duration of the workshop; and (5) the anticipated number of participants.

Proposals (PDF) should be emailed to Eric Schuettpelz (schuettpelze@si.edu), who will confirm receipt. The deadline for full consideration of workshops proposals by the selection committee is 15 October 2014.

SchuettpelzE@si.edu

GradStudentPositions

AberystwythU Wales EvolutionaryBiology

Funding is available for a PhD studentship at Aberystwyth University, Wales, UK. My lab uses aquatic ecosystems to address questions spanning the subdisciplines of ecology. Evolutionary topics include sexual selection, lek mating systems, adaptive radiation and sexual size dimorphism. Visit our lab website for information on current research topics: http://-www.kyleayoung.com/ You will be free to work the topic & system of your choice. Your research may extend or add to existing lab topics. The successful applicant will have an outstanding academic record, and demonstrated potential/ability to conduct creative/independent research.Â Â Aberystwyth is located on the beautiful and rural west coast of Wales. The Institute of Biological, Environmental & Rural Sciences (IBERS) is one of the largest and most diverse natural science departments in the UK. The Aquatic, Behavioural & Evolutionary Biology (ABEB) group works on topics ranging from river ecosystem restoration to molecular genetics.

IBERS: (http://www.aber.ac.uk/en/ibers/).Â ABEB: (http://www.aber.ac.uk/en/ibers/research/research-groups/abeb-new/)

For inquiries contact me by email: kyy@aber.ac.uk. Â

To apply send a single PDF document containing the following:â1. A cover letter describing your background and career goals (up to one page).â2. A brief description of the research you would like to conduct (up to one page).â3. Your CV with copies of academic transcripts and relevant test scores.â4. The names and contact information of two references who can speak to your promise as a researcher.

Applications will be considered until the position is filled.

Kyle A Young Institute of Biological, Environmental & Rural Sciences (IBERS) Aberystwyth University

Kyle A Young kyleayoung.com http://-www.aber.ac.uk/en/ibers/staff/kyy/ Phone: 01970 621633 Office: New IBERS Building 0.12

Institute of Biological, Environmental & Rural Sciences (IBERS) Aberystwyth University Penglais, Aberystwyth, Ceredigion SY23 3DA

“Kyle Young [kyy]” <kyy@aber.ac.uk>

BielefeldU Germany GalapagosSeaLions

A PhD position (E13/65%) to study the energetics of reproduction and the ensuing consequences at the population level in Galapagos sea lions (Zalophus wollebaeki) is available in the Department of Animal Behaviour at Bielefeld University, Germany, from January 1st 2015 or soon thereafter. The position is available for three years and is funded by the German Science Foundation (DFG).

We seek a bright and highly motivated student who has a proven record of field experience studying wild animals. A very good Master degree or equivalent in a relevant topic (e.g. animal behaviour, behavioural ecology, population ecology, evolutionary ecology) is expected. The ideal candidate will be able to work both independently and as part of a multidisciplinary team, will have experience with both statistics and genetic techniques and, in addition to excellent spoken and written English, will be able to speak Spanish.

The study will take place on Caamaño, a small islet in the Galapagos archipelago. We have studied Galapagos sea lions there since 2003 and most sea lions are individually marked (www.uni-bielefeld.de/biologie/-animalbehaviour/trillmich/sealions.html). Field seasons on Caamaño last from September-December and February-March each year. Caamaño is a small island

and there are no facilities at all, so an ability to work in truly primitive conditions is essential.

The successful candidate will be based at the Department of Animal Behaviour at Bielefeld University (www.uni-bielefeld.de/biologie/animalbehaviour/-home.html) and will be supervised by Oliver Krüger, Fritz Trillmich and Joe Hoffman. The department is the oldest of its kind in Germany and currently hosts six principal investigators, seven postdocs and fifteen PhD students. It offers a stimulating international environment and an excellent research infrastructure including a brand new molecular laboratory. The working language of the Department is English. Together with the Evolution and Animal Ecology research groups housed in the same building, there are some 50 scientists and PhD students from over ten different countries working on related topics in behaviour, ecology and evolution.

Bielefeld is a city of 325,000 inhabitants with all expected amenities and easy access to the Teutoburger Wald for hiking and other outdoor pursuits. It offers a high standard of living and is well connected to most major European cities.

To apply for the position, please provide: (i) a letter of motivation including a 1-2-page statement of your research experience; (ii) a CV including publication list; (iii) names and contact details of three referees willing to write confidential letters of recommendation. All materials should be emailed as a single PDF file to: oliver.krueger@uni-bielefeld.de.

The application deadline is October 15th 2014 and interviews will take place shortly thereafter. The preferred start date is January 1st 2015 but is flexible and will depend on the timeframe of the most qualified applicant. For further information, please see http://www.uni-bielefeld.de/biologie/-animalbehaviour/home.html or contact Oliver Krüger via email (oliver.krueger@uni-bielefeld.de) with any informal inquiries.

The University of Bielefeld is an equal opportunity employer. We particularly welcome applications from women and handicapped people. Given equal suitability, qualifications and professional achievement, women wand handicapped people will be given preference, unless particular circumstances apply.

Prof. Dr. Oliver Krüger Department of Animal Behaviour VHF Bielefeld University PO Box 10 01 31 33501 Bielefeld Germany Tel: +49-521-1062842 Fax: +49-521-1062998 oliver.krueger@uni-bielefeld.de www.uni-bielefeld.de/biologie/vhf/OK "Education is the most powerful weapon you can use to change the world"

Nelson Mandela

"\"Oliver Krüger\"" <oliver.krueger@uni-bielefeld.de>

BrighamYoungU 2 EvolutionPlantDevelopment

Two PhD graduate student positions in the evolution of plant development are available beginning Fall 2015 in the Whipple lab, Department of Biology, Brigham Young University. Research interests in the Whipple lab center on the genetic basis of morphological diversity in plants, with a focus on both model and non-model systems (see whipplelab.byu.edu). Students will employ molecular, morphological and genetic approaches to address basic questions in the evolution of plant development. Specific research projects include comparative flower and inflorescence development in both grasses (Poaceae) and Gilia (Polemoniaceae).

Successful applicants will be highly motivated with a strong interest in plant development, and demonstrated experience with basic molecular biology techniques (PCR, cloning, sequence analysis, etc.).

Funding for this position is guaranteed through a combination of Teaching Assistantships from the Department of Biology, and Research Assistantships from external NSF research funds and will cover tuition and benefits in addition to a yearly stipend. Especially competitive applicants will be eligible for a University Graduate Research Award, which provides an enhanced stipend of $30,000/year.

Interested applicants should send a CV, transcripts, GRE scores (if available) and a statement of research interests to Clinton Whipple (whipple@byu.edu). Applications will be screened starting immediately and continue until to Jan 1st 2015. International students with strong credentials are welcome and encouraged to apply.

All application materials and any questions should be directed to:

Clinton Whipple Assistant Professor Department of Biology Brigham Young University 4027 LSB Provo UT, 84602 USA

Email: whipple@byu.edu

Email correspondence is preferred.

Clinton Whipple <whipple@byu.edu>

BrighamYoungU PlantGenomeEvolution

One PhD graduate student position in the evolution of plant genomes is available beginning Fall 2015 in the Udall lab, Department of Plant and Wildlife Science, Brigham Young University. Research interests in the Udall lab center on genome evolution of polyploid plants, with a focus on cotton and other plants (see http://udall-lab.byu.edu). Students will employ molecular, structural, and genetic approaches to address basic questions in the evolution of plant development. Specific research projects include the evolution of genome structure as identified by optical mapping of species in the cotton genus.

Successful applicants will be highly motivated with a strong interest in bioinformatics, and demonstrated experience with basic molecular biology techniques (PCR, cloning, sequence analysis, etc.).

Funding for this position is guaranteed through a combination of Teaching Assistantships from the Department of Plant and Wildlife Science, and Research Assistantships from the National Science Foundation. Tuition and benefits will be included in the assistantships in addition to a yearly stipend. Especially competitive applicants will be eligible for a University Graduate Research Award, which provides an enhanced stipend of $30,000/year.

Interested applicants should send a CV, transcripts, GRE scores (if available) and a statement of research interests to Joshua Udall (jaudall@byu.edu). Applications will be screened starting immediately and continue until to Jan 1st 2015. International students with strong credentials are welcome and encouraged to apply.

Joshua Udall (5133 LSB) Brigham Young University 701 E. University Parkway Plant and Wildlife Science Depart. Provo, UT 84602

Office: 801-422-9307

jaudall1@gmail.com

DrexelU SymbiosisAndAntEvolution

Subject Header: Graduate Position: DrexelUniversity.SymbiosisAndAntEvolution

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 2015. The best applicants will have background experience in molecular ecology, microbiology, microscopy, or entomology. Students would work on a collaborative, NSF-funded project focused on symbiosis in Cephalotes ants (NSF Award ID 1442144; url: http://www.nsf.gov/-awardsearch/showAward?AWD_ID=1442144)

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:

What are the functions of symbiotic gut bacteria in herbivorous ants? How do the genomes of gut symbionts evolve and how do genome evolution and functional genomic signatures relate to symbiont roles in ant biology? What features correlate with the composition of symbiotic communities across the ants? 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.

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 ecology, 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/ Biology department website: http://-

www.drexel.edu/biology/ BEES department website: http://drexel.edu/bees/ Interested students SHOULD contact Jake Russell to discuss their background and aspiraitons 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

"Dr. Jacob Russell" <jar337@drexel.edu>

ETH Zurich Adaptation

A new initiative in Adaptation to Changing Environments (ACE) at ETH Zurich invites applicants for up to 4 PhD fellowships in the areas of ecology, evolution, and genomics. ACE has been established to connect the rapidly increasing availability of genomic information to ecological dynamics, as mediated by rapid evolutionary change. Postdocs, graduate students, and faculty will interact in a single center located on the ETH campus in Zurich. Those interested in applying their backgrounds in ecology, evolution, and genomics to the goals of the center are encouraged to apply.

The following topical areas are emphasized for this first round of applicants:

Genomics of ecologically relevant traits

Eco-evolutionary dynamics of species interactions

Evolutionary responses to changing environmental conditions

Projects will range from the theoretical to empirical, and will be conducted in collaboration with several ETH faculty participating in ACE (see website). PhD positions are for three years. Work-related interactions will be in English and salaries are adequate to take advantage of the high quality of life in Zurich. Requirements include a Master degree or equivalent in biology, environmental sciences or bioinformatics, fluency in English, and good communication skills.

Your application includes a research statement, including one to two paragraphs describing how your research interests relate to the center and associated faculty, a curriculum vitae, and the contact information for three references. Application review will begin October 15, 2014, and continue until the positions are filled.

More information at http://www.adaptation.ethz.ch Link to online application: https://pub.refline.ch/-845721/3380/++publications++/1/index.html leonie.suter@gmail.com

FloridaIntlU ChromatinEpigeneticsEvolution

Graduate position: Florida Intl Univ/Chromatin&Epigenetics Evolution

Graduate Student (PhD) positions are available in Dr. Eirin-Lopez's Chromatin Structure & Evolution Lab at the Department of Biological Sciences in Florida International University (biology.fiu.edu) starting in Fall 2015.

We are looking for enthusiastic, dynamic and independent students broadly interested in studying the interface between evolution, epigenetics and adaptation. Students would ideally have a B.S. degree in Biology or related discipline (academic training in biology, statistics, genetics and evolution) and must be proficient in English (both spoken and written). Candidates with additional knowledge on computer science and/or bioinformatics are encouraged to apply. Our research addresses the study of chromatin and epigenetics from different perspectives, most notably evolution, development and adaptation. To this end we use marine invertebrates as model systems in the lab, as well as a wide range of eukaryote groups in molecular evolutionary analyses. Our current projects combine elements from molecular biology, biochemistry, next generation sequencing, bioinformatics and molecular evolution to address environmental problems in the oceans. Our work requires good organizational and computational skills and the ability to work collaboratively as part of a team. More information on our research is available at our website: chromevol.com

Potential research topics include (but are not limited to): 1) Epigenetic basis of adaptive responses; 2) Chromatin structure & specialization in marine invertebrates, 3) Molecular evolution of genes and genomes; 4) Bioinformatics analyses of next generation sequencing "-omic" data. Related research topics are also encouraged to apply. Interested students will be required to apply to the Graduate Program in the Department of Biological Sciences at FIU (biology.fiu.edu/academics/graduate-programs). Acceptance in the lab will be subject to successful competition for Teaching Assistantships (TAs). Interested students are also strongly encouraged to apply for grad-

uate research fellowships, such as the National Science Foundation Graduate Research Fellowship. Qualified candidates are encouraged to submit a statement of interest, curriculum vitae, unofficial transcripts (GPA scores), GRE scores, TOEFL scores (if applicable) and summary of research interests in a single PDF file to Dr. Eirin-Lopez (jeirinlo@fiu.edu). To receive full consideration, applications and required materials should be received as soon as possible, and not later than November 30th.

Successful candidates will be based at FIU's Biscayne Bay Campus in North Miami, home of the Marine Science Program (marine.fiu.edu). With unique access to diverse coastal ecosystems in South Florida and the Caribbean, this Program strives for excellence in research, teaching, and public outreach. Such a privileged location offers unique access to state of the art molecular, bioinformatics and marine biology resources, including a well-developed American Advancement for Underwater Science (AAUS) certified dive program and several research vessels and boating facilities.

Florida International University (fiu.edu) 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 more than 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 academic institution for issues ranging from local to global. FIU is a member of the State University System of Florida and is an Equal Opportunity, Equal Access Affirmative Action Employer.

Dr. Jose M. Eirin-Lopez 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 9Warning: base64 decoder saw premature EOF! 19-4226 (Lab, MSB-320) 305 919-4030 (Fax) jeirinlo@fiu.edu CHROMEVOL Research Group http://chromevol.com http://facebook.com/-chromevol

jeirinlo@fiu.edu

IBE Barcelona PopulationGenomics

Ph. D. Scholarship

An FPI Ph. D. scholarship is available within the 'Genome-wide analysis of the human biodiversity in the Mediterranean: the population crossroads of three continental areas' project, in the Population Genetics Program, Institute of Evolutionary Biology (CSIC-UPF), Barcelona. Candidates should have a strong background in population genetics and bioinformatics. Familiarity with the Linux environment, one or more programming languages, and R are desirable. Candidates must be organized, level-headed, focused team players.

To learn more about the IBE and the research groups were the successful candidate will integrate, please visit http://www.ibe.upf-csic.es/, http://biologiaevolutiva.org/dcomas/, and http://-biologiaevolutiva.org/fcalafell/, and feel free to contact David Comas (david.comas@upf.edu) or Francesc Calafell (francesc.calafell@upf.edu) for further details.

Candidates should send a CV and the contact details for two references to David Comas (david.comas@upf.edu) or Francesc Calafell (francesc.calafell@upf.edu) before September 19, 2014.

Francesc Calafell <francesc.calafell@upf.edu>

MaxPlanckInst Leipzig HumanOrigins

PhD positions in Human Origins

We invite applications for the Leipzig School of Human Origins, an international PhD program of the Max Planck Institute for Evolutionary Anthropology and the University of Leipzig.

This program provides interdisciplinary training and research opportunities for university graduates who wish to work towards a PhD in anthropology, archaeology, biology, biochemistry, bioinformatics, evolutionary genetics, paleoanthropology, primatology, psychology, and related fields. Candidates apply for one of the following disciplines of the program:

1) Comparative and Molecular Primatology - focusing on the evolution of social and cultural systems in the great apes, as well as other relevant mammals.

2) Evolutionary and Functional Genomics, Ancient DNA, Molecular Anthropology and Genome Bioinformatics

a. Evolutionary Genomics, Ancient DNA - focusing on the evolutionary and functional genomics of humans and the great apes, as well as the retrieval of DNA from palaeontological remains.

b. Molecular Anthropology - focusing on the origin, relationships, history, and migration patterns of human populations.

c. Genome Bioinformatics - focusing on computational approaches to the management and analysis of gene expression data.

3) Human Paleontology, Prehistoric Archaeology and Archaeological Science - focusing on the study of hominid fossils and archaeological sites. This includes comparative morphological as well as chemical (isotopic) analyses.

Graduate students will be accepted to only one of these areas but will have the opportunity to take part in courses and seminars in all of them. Our PhD program is open for international students and is designed as a 3-year-program.

We invite applications from all countries. Applicants hold a Masters degree, a Diploma or equivalent in one of the above, or related, fields. It is not necessary to hold the degree at the point of application. However, you must have been awarded your degree prior to the start of the program in September 2015.

Candidates have to be fluent in written and spoken English. German is not required but international students will be offered opportunities to take German language courses.

PhD students are supported by fellowships which are provided either by the Max Planck Institute for Evolutionary Anthropology or the University of Leipzig; or have been obtained by the student.

Term of Appointment: Fall 2015 Application Deadline: December 1, 2014

Visit www.leipzig.de for information on living in Leipzig, Germany, in the center of Europe.

Contact Information:

Sandra Jacob Deutscher Platz 6 Leipzig, 04103, Germany Telephone Number: ++493413550122 Fax Number: ++493413550119 Website: www.leipzig-school.eva.mpg.de E-mail Address: leipzig-school@eva.mpg.de

Sandra Jacob Max Planck Institute for Evolutionary Anthropology / The Leipzig School of Human Origins (Ph.D. Programme) Deutscher Platz 6, 04103 Leipzig, GERMANY phone: ++49 (0) 341 3550-122; fax: ++49 (0) 341 3550-119 http://www.eva.mpg.de/

http://www.leipzig-school.eva.mpg.de/

Sandra Jacob <jacob@eva.mpg.de>

Minnesota PopulationGenetics

The McGaugh lab in the Department of Ecology, Evolution, and Behavior at The University of Minnesota-Twin Cities will have openings for 1-2 graduate students starting in Fall 2015. 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 strives to provide five years of stipend support. Applications should be submitted by December 1, 2014 for Fall 2015 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
Please include a CV, a brief outline of your research interests and career goals, and contact information for references. smcgaugh@umn.edu

suzanne.mcgaugh@gmail.com

MonashU QuantitativeEvolutionaryBiology

An opportunity is available for a PhD student to join Tim Connallons research group in the School of Biological Sciences at Monash University, in Melbourne, Australia. I am seeking creative and motivated students who wish to carry out original research in the general area of evolutionary theory. The specific project will be developed in collaboration with the successful candidate, and tailored to match their individual interests and strengths. Projects can potentially involve a combination of new theory development, and data analysis/experiments as a means to test predictions of theoretical models.

Areas of interest in the lab largely fall within the realm of evolutionary genetics. Some recent and ongoing work focuses on the following areas: sexual dimorphism, the population genetics of adaptation, the maintenance of genetic variation, sex chromosome evolution, gene duplication and gene expression evolution, and coadaptation between cytoplasmic and nuclear genomes. Well-motivated projects that fall outside of these areas will also be encouraged.

A keen interest in evolutionary biology is essential. Individuals with strong quantitative skills, and those with backgrounds in biology or another relevant field (e.g., mathematics, physics, computer science), are encouraged to apply. Successful candidates will be fully funded for 3.5 years, for full time research, with no teaching requirements. The annual stipend is approximately $25,000 AUD, tax-free, and additional expenses for research, coursework, and conference attendance will also be covered. Individuals of all nationalities are eligible. Domestic Australian and New Zealand candidates will be invited to apply for an Australian Postgraduate Award (approximately $25,000 AUD), with the additional potential for a competitive top-up scholarship (additional $5,000).

Monash University is a member of Australias Group of Eight coalition, and is internationally recognized for excellence in research and teaching. The School of Biological Sciences (http://monash.edu/science/about/-schools/biological-sciences/) is home to a collegial and interdisciplinary research environment, with strengths in ecology, genetics and evolutionary biology. Monash is located in Melbourne, one of the most liveable cities in the world and a cultural and recreational hub.

To apply, please send a CV, academic transcript, contact details for two academic references, and a brief outline of research interests to tim.connallon@monash.edu. Informal inquiries are welcome. Applicants must hold a Bachelors degree with first-class honours, or a masters degree. Review of applications will begin immediately, and short-listed candidates will be contacted to set up phone/Skype interviews.

tim.connallon@monash.edu

NIOO Wageningen EvolutionaryPhysiology

The department of Animal Ecology at the Netherlands Institute of Ecology (NIOO-KNAW) offers two positions for a PhD-student (m/f) on the evolutionary ecology and physiology of avian seasonal timing of breeding.

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.

Project description The overall aim of the project is to estimate the adaptive potential of seasonal timing, an important life-history trait, in natural populations by studying the genetic basis of the underlying physiological mechanisms and to study natural selection on this trait, using great tits (Parus major) as a study organism. We will create selection lines for seasonal timing of reproduction using genomic selection, and validate the response to this artificial selection in climate controlled aviaries and in the wild. We will measure changes in the physiology underlying timing of reproduction caused by artificial selection and thus identify the components of the physiology which can be affected by natural selection. Furthermore, we will estimate selection on timing of reproduction by introducing selection-line individuals with extreme phenotypes into the wild and measuring their fitness.

PhD student #1 (Vacancy number: AnE-014032) The PhD student will measure a number of components of the physiological mechanism underlying the timing of reproduction in the selection lines to determine which components can be altered by artificial selection and

hence show genetic variation. The key question that will be addressed is whether these changes occur upstream of the neuroendocrine system (i.e. brain, pituitary), more downstream (gonads, liver) or only at the final stages of egg production. These physiological parameters will be measured in climate controlled aviaries (photoperiod and temperature) to determine physiological differences between the birds of the selection lines. In addition differences in energetic profiles between the selection line birds will be assessed by measuring BMR.

PhD student #2 (Vacancy number: AnE-014033) The PhD student will study the causal relationship between timing of reproduction and fitness in the wild by making use of the more-extreme-than-normal phenotypes produced in the selection lines. Eggs from selection line birds will be brought to the wild and offspring recruiting from these eggs will be studied in the following years. Timing of reproduction, reproductive success and subsequent survival of these offspring will be studied in a wild nest-box breeding population. Additionally, detailed measurements will be done on these selection line offspring in the wild, including Daily Energy Expenditure during the egg-laying period and feeding frequencies as well as prey choice during chick feeding period.

These PhD positions form part of a larger project funded by an ERC Advanced grant.

Requirements AnE-014032: We are looking for a highly motivated and enthusiastic person with an MSc in Ecology or Animal Physiology. Experience with physiological research with birds and licence to carry out animal experiments are of added value. AnE-014033: We are looking for a highly motivated and enthusiastic person with an MSc in Ecology or Evolutionary Biology. Experience with fieldwork with birds and licence to carry out animal experiments are of added value.

Appointment These are temporary appointments, initially for one year and upon satisfactory to be prolonged for a maximum of four years total. The starting date is 1 January 2015.

Salary The gross salary starts at euro 2.083, - per month in the 1st year, and will gradually increase to a maximum of euro 2.664, - per month in the 4th year, scale P, 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.

Information Additional information is available upon request from Prof. Dr Marcel E. Visser (+31 (0)317-47 34 39, e-mail: m.visser@nioo.knaw.nl or Dr Phillip Gienapp (+31 (0)6-2034 6271, e-mail: p.gienapp@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. Clearly indicate which position(s) your apply for. The closing date for the application is 23 October 2014; interviews are scheduled for 11 & 12 November 2014.

p.gienapp@nioo.knaw.nl

NIOZ Netherlands ClimateAdaptation

Vacancy: PhD position

Arctic meltdown affects tropical seagrass meadows via migrant shorebird

Global warming is most pronounced in the Arctic. Hence, Arctic-breeding migrants might carry over the ecological effects of climate change to their tropical wintering grounds. Although recently discovered, reductions in body size are already considered a universal response to climate change. Red knots (Calidris canutus), medium-sized shorebirds breeding as High Arctic as possible, are no exception to this rule. Over the past 30 years, their bodies have been shrinking, notably with respect to body mass and bill length. Preliminary analyses revealed that at their main wintering site (Banc d'Arguin, Mauritania, West-Africa), small individuals with a short bill are now shifting niche by consuming readily accessible seagrass rhizomes instead of deeper buried shellfish. Here we will (A) experimentally unravel the coupling between body size and diet; (B) link survival rate to body size and diet; and (C) quantify the top-down effects of rhizome-grazing on seagrass.

Whilst the field work will be carried in Mauritania, the laboratory and desk work will mainly be carried out at the Department of Marine Ecology, NIOZ Royal Netherlands Institute for Sea Research (Texel, the Netherlands; http://www.nioz.nl). However, in this MARES-EU funded project, regular visits will be made to the two partner universities, University of Aveiro (Portugal) and the University of GdaÅsk (Poland).

Profile The subject is open to highly motivated students that have a background in (marine) ecology, preferably with affinities to birds. The proposed fieldwork in

Banc d'Arguin will be embedded in large expeditions in which a consortium of international researchers is involved. Henceforth, the candidate should be a team player, but, at the same time, should be able to work independently under seemingly pleasant, but sometimes tough, field circumstances. Because this project involves Dutch, Portuguese and Polish partners, the regulations set by MARES-EU demand that candidates should have obtained their master degree outside the Netherlands, Portugal and Poland.

Employment details The candidate will be employed by NIOZ for a period of three years, under the collective agreement of Dutch universities and research institutions. This includes a gross monthly salary of $\hat{a}\neg 2,800 including an 8\% - vacation bonus and end - of - year payment$.

To apply: http://www.mares-eu.org/index.asp?p=-1846&a=1846 For more information: http:/-/www.mares-eu.org/index.asp?p=2174&a=-1853&mod=phd&id=207 E-mail Jan.van.Gils@nioz.nl for remaining questions

Jan van Gils <Jan.van.Gils@nioz.nl>

NorthernIllinoisU EvolutionaryBiology

Graduate Opportunities at Northern Illinois University

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 2015-2016 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, community ecology, and restoration 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/lab/index.html -Bethia H. King, insect behavioral ecology, http:/-/www.bios.niu.edu/bking/bking.shtml -Richard B. King, evolutionary biology, herpetology, 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.edu Details of the graduate program and application process are available at http://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 January 1, 2015. 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 20,000-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, TNCs Nachusa Grasslands, Morton Arboretum, Fermilab, Argonne National Laboratory, NIUs Lorado Taft campus, and numerous local county forest preserves and state parks.

Wesley Swingley Dept. of Biological Sciences Northern Illinois University Montgomery 333 DeKalb, IL 60115 Office: 815-753-7835 Lab: 815-753-7812 wswingley@niu.edu

wesley.swingley@gmail.com

RuhrU EvolutionSeaSpiders

PhD position in marine molecular evolutionary biology, Ruhr-University Bochum & Bavarian State Collection Munich.

Topic: "Speciation and adaptation in Southern Ocean sea spiders"

The Department of Animal Ecology, Evolution and Biodiversity at Ruhr University Bochum (working group Dr. Florian Leese) in collaboration with the Bavarian State Collection of Zoology (working group Prof. Dr. Roland Melzer) offers 1 PhD position (67% TvL E13)

in the field of marine molecular evolutionary biology.

The candidate will work in the project "Speciation and adaptation in Antarctic sea spiders" as part of the DFG Priority Programme 1158 ("Antarctic Research", www.spp-antarktisforschung.de/). The project seeks to extend our knowledge of speciation in the Southern Ocean benthos. In the past years, population genetic studies have shown that many species have radiated in the Antarctic probably in ice-free refugia on the Antarctic shelf during the last glacial maxima. In the studies, speciation is often seen as a result of random genetic drift / lineage sorting in geographic isolation (allopatric speciation). The importance of selection in this context has been largely neglected. In the project, we apply next-generation sequencing techniques to study patterns of genetic variation in the genomes/transcriptomes of two "cryptic" Antarctic sea spider flocks (Colossendeis megalonyx and Pallenopsis patagonica) inside and outside the Antarctic to compare neutral and non-neutral variation in the species groups. In addition, modern morphological techniques will be used to screen for adaptive morphological traits in co-existing species on the shelf.

The candidate will be based primarily in Bochum but will also conduct analyses at the Bavarian State Collection in Munich as well as in the labs of international collaboration partners.

Applicants should hold a degree (M.Sc, Diploma) in a relevant field (e.g., Biology, Ecology, Biodiversity, Marine Biology, Molecular Genetics). We expect a solid knowledge of population genetic and molecular evolutionary concepts. The candidate should have acquired expertise in the preparation of next-generation sequencing libraries (e.g. transcriptome, genome, RAD) and respective bioinformatic analyses. Knowledge of sea spiders (Pycnogonida) as well as of morphological and morphometric analysis techniques will be of advantage. She/he is fluent in English language, very motivated and able to work independently in different working groups.

Please contact Dr. Florian Leese (florian.leese@rub.de) for further information.

Applications should be send as a single pdf file not later than the 26th of September 2014 to florian.leese@rub.de. They should include a letter of motivation, a complete curriculum vitae with university certificates as well as names and contact details of two academic referees. Candidates will be invited for interviews by the end of September 2014 and interviews for the position will take place in the second week of October 2014. The candidate should start on December 1st in Bochum.

Ruhr University Bochum is committed to promoting the careers of women and therefore actively welcomes applications from female candidates. As an equal opportunities employer, we also encourage applications from suitably qualified disabled candidates and other groups.

florian.leese@rub.de

Seville AmphibianEvolutionaryGenomics

A PhD position is available in the Conservation and Evolutionary Genetics Group at Estación Biológica de Doñana, Seville (Spain) on Amphibian Evolutionary Genomics

The PhD position is part of the project: A stroll with amphibians along the path of speciation: from micro to macro evolutionary processes funded by the Spanish Government ("Procesos micro y macro evolutivos en la diversificación de anfibios", CGL2013-47547-P).

Recent years have seen an increase in the knowledge of the amphibian diversity in the Neotropics. Many new species are being described every year at the same time that many others become part of the lists of endangered species. However, little is known about the patterns and processes that explain this diversity. In this proposal we join the efforts of research groups in four countries (Spain, Sweden, Mexico, USA and Brazil) to study the origin of the diversity of amphibians at very different spatial and temporal scales and using diverse analytical approaches. We will assemble one transcriptome and use genomic approaches to study the demographic and evolutionary history of a genus of Neotropical frogs in the absence of a genome sequence of a closely related species that could be used as a reference. This genus includes species adapted to highland and lowland environments. We will investigate the phylogentic relationships between species, we will track demographic changes through time and their correspondence with habitat changes, and we will identify portions of the genome that are differentiated between populations with different degrees of isolation and that could indicate incipient speciation.

Methods: -Transcriptome assembly, mapping sequences obtained with Next Generation Sequencing approaches, demographic inference. -Analysis of population structure using genotyping-by-sequencing approaches.

Candidates: -The candidate should have a masters degree or equivalent degree in Biology, Evolutionary Biology, Biotechnology or Bioinformatics -Previous experience working with next-generation-sequencing data and bioinformatic analyses is highly desirable -Analytically inclined, familiarity with work in a Linux/Unix environment is highly desirable. The project will require programming in Perl or Python and the analysis of large genomic databases -Proficient in both written and spoken English -Willing to work abroad (we expect that part of the work will be carried out in close collaboration with our Swedish colleagues) -Dynamic, eager to learn and willing to participate in all the activities run by the research group (weekly meetings, seminars, discussions â)

The project does not include field work. Samples are already available in scientific collections.

For more information about the research group lines of work, please check: http://www.consevol.org/ Evaluation of applicants will be initially carried out by government agencies. All applications should be submitted via (instructions in Spanish): webpage <Evaluation%20of%20applicants%20will%20be%20initially%20carried%20out%20by%20government%20agencies.,All%20applic /www.idi.mineco.gob.es/portal/site/MICINN/-menuitem.dbc68b34d11ccbd5d52ffeb801432ea0/-?vgnextoid=186f39d05c7d6410VgnVCM1000001d04140aRCRD&vgnextchannel=11f35656ecfee310VgnVCM1000001d04140aRCRD,,Candidates+must+also+send+documentation+to+Carles+Vil%C3%A0.> Candidates must also send documentation to Carles Vilà (before September 22nd).

For further information please contact Prof. Carles Vilà (e-mail: carles.vila@ebd.csic.es)

Carles Vila <carles.vila@ebd.csic.es>

SoutheasternLouisianaU FishEvolution

MS position: A graduate research assistantship position (NSF funded) is available in the lab of Dr. Kyle Piller in the Department of Biological Sciences at Southeastern Louisiana University. The student will develop a MS project focusing on molecular systematics and evolution of the freshwater fish family Goodeidae (Teleostomi). The applicant should have previous lab experience, including DNA extraction and PCR amplification, though training in these areas can be provided. There will likely be opportunities for international travel. The student will be part of a dynamic and active lab that addresses general questions in fish biodiversity. Ideally, the applicant should be able to begin the position in January 2015, but a later start date could be considered. Please send inquiries to Kyle Piller (kyle.piller@selu.edu).

Kyle R. Piller, PhD Professor, Curator of Vertebrates, and Graduate Coordinator Southeastern Louisiana University, Dept. of Biological Sciences Hammond, LA 70402 Kyle.Piller@selu.edu 985-549-2191 www.kylepiller.com Kyle Piller <kyle.piller@selu.edu>

StockholmU EpigeneticsAnimalEvolution

PhD student position in Animal Ecology

PhD student position in Animal Ecology at the Department of Zoology. Reference number SU FV-2470-14. Deadline for applications: October 1, 2014.

Project: Evolutionary relevance of non-genetic inheritance We are seeking a highly motivated PhD student with an interest in evolutionary ecology to take part of the research project "Epigenetic inheritance and its evolutionary consequences on the genetic architecture of complex traits", with financial support from the Swedish Research Council. The project aims to investigate central biological questions on how non-genetic (e.g. "epigenetic") parental effects influence the expression of complex traits. Such epigenetic effects may be induced by, for example, environmental conditions or the interactions between the nuclear DNA and the cytoplasmic DNA. Understanding epigenetic effects has implications for core evolutionary processes such as heritability, maintenance of genetic variation and speciation. Still, we have only a rudimentary understanding of how evolutionary processes are affected by these epigenetic effects. Using two study systems (Drosophila and Poeciliid fishes) and combining experimental manipulations with molecular methods the project will explore how non-genetic parental effects can be caused by either the cytoplasmic DNA or environmental conditions. The project also aims at investigating the inheritance of these epigenetic effects, and how they affect evolutionary processes - an important and exciting field in biology. The PhD project involves experiments, molecular lab-work and statistical analysis.

Qualifications To be qualified for research studies in animal ecology the applicant must have completed a research degree (e.g. Master's), or have passed at least

120 hp (2 years) of biological studies, including an approved independent project of at least 30 hp at advanced level ("examensarbete") within ecology, evolutionary biology or related subjects. Applicants, who have in principle acquired the corresponding competence in Sweden, or abroad, are also qualified.

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

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

Information Contact for further details Dr. Bjorn Rogell, bjorn.rogell@zoologi.su.se, at the Department of Zoology.

Union representatives Anqi Lindblom-Ahlm (Saco-S) and Lisbeth Häggberg (Fackförbundet ST), telephone: +46-(0)8-16 20 00 (switchboard), and Gunnar Stenberg (SEKO), telephone: +46-(0)70-316 43 41.

Application The application should contain:

maximum one A4-page of personal presentation and letter of intent/motivation CV (including methodological skills) copy of independent project thesis copies of degree certificates and transcripts of academic records (attested) contact details for two academic referees.

In order to apply for this position, please use the Stockholm University web-based application form (where it is possible to select language).

Link: http://www.su.se/english/about/vacancies/-phd-studies/phd-student-position-in-animal-ecology-1.201806 Welcome with your application no later than October 1, 2014.

Björn Rogell <bjorn.rogell@zoologi.su.se>

TuftsU EvolutionaryBiology

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

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

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

Relevant papers include:

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

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

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

Dopman, E. B., S. M. Bogdanowicz and R. G. Harrison. 2004. Genetic mapping of sexual isolation between E and Z pheromone strains of the European corn borer. Genetics 167:301-309.

The Dopman Lab (http://ase.tufts.edu/biology/labs/-dopman/Default.htm) is in the Department of Biology and is a member of Tufts' Collaborative Cluster in Genome Structure and Developmental Patterning.

The Cluster focuses on genome to organism research and is located at a new Tufts facility on the main campus in Medford, MA. With two additional Tufts campuses (in Boston and Grafton), other research universities (Harvard, MIT, BU), and the vibrant city of Boston all within reach, Medford and Tufts are ideal places to live and work (http://ase.tufts.edu/biology/).

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

Erik.Dopman@tufts.edu

TuftsU FoodMicrobialEcolEvolution

PhD Positions in the Wolfe lab @ Tufts University, Medford, MA (Boston Area), USA Ecology and evolution of microbes in food systems

The Wolfe lab in the Department of Biology at Tufts University is seeking several Ph.D. students to join the lab in the Fall of 2015. Our lab studies the ecology and evolution of microbial communities, using tractable microbial communities isolated from food (cheese, salami, and other fermented foods) as model systems. Our work spans taxonomic boundaries (we study both prokaryotes and eukaryotes) and integrates a wide variety of techniques including experimental evolution, metagenomics, comparative genomics/transcriptomics, genome engineering, and in situ community reconstructions. Our research questions are strongly anchored in basic biology, but our work will help address emerging issues in human health and food security.

Current research in the lab is aimed at linking ecological and evolutionary patterns in microbial communities with the molecular mechanisms that generate these patterns. What are the molecular mechanisms that govern species distributions or community-level traits? How do these mechanisms evolve within a community and what are the consequences of trait evolution within microbial communities? We are particularly interested in exploring these questions with a focus on bacterial-fungal interactions.

The Wolfe lab is based in a brand new open lab space associated with the Tufts University Medford Campus. In addition to diverse research being conducted in the Department of Biology that spans the entire breadth of biology (http://ase.tufts.edu/biology/), the Sackler School of Graduate Biomedical Sciences at the Tufts Medical School has an outstanding group of microbiologists (http://bit.ly/WDvgqA). There are also numerous potential collaborators and resources at the Tufts Friedman School of Nutrition and the Cummings School of Vet Medicine. A new university-wide initiative, the Tufts Institute for Innovation, is providing resources to support interdisciplinary research projects that explore how microbes can improve the environment and the human condition (http://bit.ly/1niy6Ix). The academic community in the Greater Boston Area has an unprecedented collective wealth of resources in microbiology, ecology, and evolution.

Applicants should have a background in ecology, evolution, molecular biology, mycology, and/or microbiology. Ideal candidates would also have a strong interest in the biology of food systems. Our work has incredible potential for science outreach and education, and members of my lab will be encouraged to communicate their science through social media, writing, and public outreach events. Students will be provided ample training for postgraduate work in academia, but I will strongly support professional development to help graduate students become leaders in industry, agriculture, and other non-academic career paths.

A formal lab website is in production. In the meantime, candidates should check out my personal website (www.benjaminewolfe.com) for an overview of my past and current research and teaching activities.

Interested candidates should contact Benjamin Wolfe via email (benjamin.wolfe@tufts.edu) to explain their past research experience/interests and why they might be a good fit for the lab. Information on the Tufts Department of Biology Graduate Program, including graduate admissions deadlines, can be found here: http://ase.tufts.edu/biology/graduate/ bewolfe@gmail.com

UAlaskaFairbanks EvolutionaryBiology

SEEKING GRADUATE STUDENTS IN EVOLUTIONARY BIOLOGY to join the newly formed lab of Devin Drown in the Institute of Arctic Biology and the Department of Biology and Wildlife at the University of Alaska Fairbanks. My lab's research focuses on understanding coevolutionary interactions with the overall goal to develop a mechanistic understanding by which abiotic and biotic forces drive the direction and rate of evolutionary change. Current research topics address: 1) conflict and cooperation in the cotransmission of genomes, 2) coevolution in spatially structured populations, and 3) adaptation to abiotic vs. genetic, heritable environments. We use a combination of mathematical modeling and molecular analysis in both field and laboratory settings. I am interested in building current study systems as well as developing new systems.

More information on current projects can be found on the lab website: http://www.devindrown.com/ Financial support for students accepted into the department and this research group will be through a combination of Research Assistantships (RAs) and Teaching Assistantships (TAs). Interested students are also encouraged to apply for research fellowships, such as the National Science Foundation Graduate Research Fellowship.

The University of Alaska Fairbanks is renowned for its strengths in wildlife, ecology, and evolutionary biology research. Fairbanks itself is a great place to live. Find more info online about the University (http://-www.uaf.edu/), the Institute of Arctic Biology (http:/-/www.iab.uaf.edu/), and the Department of Biology and Wildlife (http://www.bw.uaf.edu/).

Students with demonstrated lab (wet or dry) abilities, and capable of data analysis and writing are encouraged to apply. Interested students should contact Devin by email (dmdrown@alaska.edu) with: letter of interest, curriculum vitae including summaries of grades, and the names of at least two references.

Devin M. Drown, Ph.D. Institute of Arctic Biology, Department of Biology and Wildlife University of Alaska Fairbanks http://www.devindrown.com/ dmdrown@alaska.edu

UAlaskaFairbanks MarineMicrobialEvol

Responsibilities: A graduate student assistantship (M.S. or Ph.D.) is available at the University of Alaska Fairbanks for a student to develop a thesis project investigating the diversity, distribution, and evolution of polar marine microorganisms. This is an interdisciplinary project and the student will engage with a team of researchers at UAF and other institutions on broader questions of Arctic ecosystem functioning via interactions with oceanographic conditions and higher trophic levels. Field work for the project is based primarily in the Chukchi Sea, with the potential for additional field work conducted on the R/V Sikuliaq (http://www.sfos.uaf.edu/sikuliaq). As part of the degree, the student will complete course work within the Graduate Program in Marine Science and Limnology at UAF.

Qualifications: Competitive applicants will have a strong academic background in the natural sciences, prior field or research experience, and an interest in microbial ecology and evolution. Prior experience with bioinformatics or computer programming is desirable. Members of traditionally under-represented groups are especially encouraged to apply. UAF is an affirmative action/equal opportunity employer and educational institution. The University of Alaska Fairbanks is accredited by the Northwest Commission on Colleges and Universities.

Closing Date: Applications will be accepted through 14 November 2014, or until the position is filled, with an expected start date in January 2015, or latest in May 2015.

Applications: Please send a statement of interest, CV, and names of three professional references to Dr. Eric Collins (recollins@alaska.edu). More information can be found at http://cryomics.org rec3141@gmail.com

UAntwerp EvolutionParentalCare

The Faculty of Sciences, Department Biology-Ethology of the University of Antwerp and the Terrestrial Ecology Unit of the University of Ghent are seeking to fill the following vacancy (m/f):

Ph.D. student in Behavioural Ecology

Job description: Raising offspring requires a substantial amount of parental care and it may be necessary that both parents contribute. While parents both benefit from the overall level of parental care, they only pay a cost for their own contribution. As such, sexual

conflict arises because of different fitness optima for a given behaviour. Consequently, parents will negotiate how much to invest, which will depend on how well they are informed about offspring need and about the contribution of their partner. In the proposed project we will make use novel GPS tracking devices to investigate parental decision rules, along with their consequences for offspring development in great detail. We will apply sophisticated cross-fostering experiments in a wild population of individually marked Lesser black-backed gulls, a long-lived migratory species breeding in a heterogeneous environment. We combine large scale behavioral observations, physiological measures and state-of-the-art tracking approaches. The latter will also enable us to track carry-over effects of the rate of parental care throughout the annual cycle.

Profile and requirements: * you have a Master degree in Biology or an equivalent degree in life sciences. * you are an enthusiastic and motivated student with a strong interest in Behavioral and Evolutionary Ecology, who likes working in the field under at times harsh conditions. Preferentially you have already experience in fieldwork, but this is not essential. * you have good organizational, writing and presentation skills and should be able to work well both independently and in a team environment.

We offer: * a Ph.D. scholarship for one year, and extension for another three years after positive evaluation. * the project will be carried out in close collaboration with Ghent University (joint FWO funded project). * during fieldwork, you will form part of a small research team (1-2 PhD students, 2 field assistants) studying different aspects of gull ecology. * based at the University of Antwerp, the successful applicant will join a young, dynamic and stimulating group of researchers working on all 4 major aspects of animal behaviour (causation, development, function, evolution), with particular emphasis on bird family life (maternal effects, phenotypic plasticity, parent-offspring conflict & co- adaptation) (see https://www.uantwerpen.be/en/staff/wendt-mueller/- and http://www.ecology.ugent.be/terec/) * the preferred starting date is 1 January 2015

Interested?

* Please send all application material including 1) your curriculum vitae 2) a brief (250 words) summary of your reasons for applying and 3) contact information of max. 2 referees) as single PDF-file to: Wendt.Mueller@uantwerpen.be. Review of the applications will start on 31 October 2014 and continue until the position is filled, interviews of short-listed candidates will be held early November.

* For more information, contact Prof. Wendt Müller (Wendt.Mueller@uantwerpen.be) or Prof. Luc Lens (Luc.Lens@ugent.be)

Wendt Müller University of Antwerp Department of Biology-Ethology NEW: Campus Drie Eiken C 1.11 Universiteitsplein 1 2610 Antwerp (Wilrijk), Belgium

NEW: e-mail: Wendt.Muller@uantwerpen.be NEW: web: https://www.uantwerpen.be/en/staff/wendt-mueller/ NEW: tel +32 32652288 fax +32 32652271 mobile:+32 473567276

Müller Wendt <Wendt.Mueller@uantwerpen.be>

UBritishColumbia ConservGenomics

A PhD graduate assistantship 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 Spring/Fall 2015. I am looking for a highly motivated graduate student to join our group studying fine-scale and range-wide drivers of neutral and adaptive population divergence in a number of systems centering on vertebrate species of conservation concern. There are opportunities for both laboratory and field-based research, although all projects involve the use of high-throughout DNA-based methodologies. Individuals with a population genetics background, bioinformatics experience and strong analytical skills are especially encouraged to apply. Prior experience with molecular laboratory techniques and working in a field setting are desirable.

To apply, e-mail a CV, cover letter and contact information for three references to Michael Russello (michael.russello@ubc.ca). Visit the lab website (http://people.ok.ubc.ca/mirussel/) for more information on current research directions. Additional information about our Biology graduate program at UBC can be found at the following website: http://biol.ok.ubc.ca/graduate.html Michael Russello PhD Associate Professor | Department of Biology The University of British Columbia | Okanagan Campus 3247 University Way | FIP346 | Kelowna, BC Canada V1V 1V7 Phone 250 807 8762 | Fax 250 807 8005 michael.russello@ubc.ca | http://-people.ok.ubc.ca/mirussel michael.russello@ubc.ca

UCalgary LimbEvolution

Graduate Student Opportunity

The Rolian lab at the University of Calgary is looking to recruit highly qualified and motivated graduate students at the Masters and Doctoral levels, to begin in May or September 2015, or 2016. Our lab studies the limb musculoskeletal system in mammals. Through artificial selection, we have created a line of mice in which the limb bones have become elongated relative to body mass. This unique resource is being used to understand how the limb skeleton evolves, from genomic and developmental perspectives, and how limb bone length influences musculoskeletal function in health and disease. Students joining the lab will have the opportunity to develop their own projects in consultation with Dr. Rolian, with topics ranging from genetic, developmental, evolutionary and/or biomechanics aspects of this vertebrate model, to its relevance to musculoskeletal health in humans.

The ideal candidate will have an outstanding record and background in biology or life sciences, with a focus on evolutionary biology. Basic knowledge of vertebrate comparative anatomy is desirable. The student should be competitive for external and/or internal funding (e.g., NSERC, CIHR). The University of Calgary is a young and vibrant research intensive university in Calgary, Alberta, Canada, recently voted one of the world's top livable cities. The university emphasizes cross-disciplinary work, and the Rolian lab is well integrated with the faculties of Veterinary Medicine, Medicine and Science, and with the McCaig Institute for Bone and Joint Health. Interested candidates should send Dr. Rolian a CV and a short description outlining their interests in graduate work in our research group.

Campbell Rolian, PhD Assistant Professor Dept. of Comparative Biology and Experimental Medicine Faculty of Veterinary Medicine University of Calgary 3330 Hospital Dr NW T2N0L8 Calgary AB Canada Phone: 403-210-3888 Email: cprolian@ucalgary.ca Web: http://homepages.ucalgary.ca/~cprolian Campbell Rolian <cprolian@ucalgary.ca>

UCopenhagen HumanGenomics

PhD fellow in the field of ancient and modern human genomics

Centre of Excellence in GeoGenetics, Faculty of Science at University of Copenhagen is offering a PhD scholarship in retrieval, sequencing and /or analyses of ancient and modern human genomes commencing December 1st 2014 or as soon as possible thereafter.

*Project description *The project will concern retrieval, sequencing and/or analyses of ancient human genomes for addressing questions related to dispersal and admixture of human populations through time.

*Principal supervisor *is* Professor DSc Eske Willerslev, Director of Centre for GeoGenetics, University of Copenhagen, **ewilerslev@snm.ku.dk* +45 28751308

Job description Your key tasks as a PhD student at Science are:

- Manage and carry through your research project - Take PhD courses - Write scientific articles and your PhD thesis - Participate in scientific meetings - Stay at an external research institution for a few months, preferably abroad - Teach and disseminate your research

Key criteria for the assessment of candidates

- A masters degree related to the subject area of the project. Applicants with a strong record in experimental genetics and/or bioinformatics are preferred. - The grade point average achieved - Professional qualifications relevant to the PhD programme - Previous publications - Relevant work experience - Other professional activities - Language skills

Terms of employment The position is covered by the Memorandum on Job Structure for Academic Staff.

Terms of appointment and payment accord to the agreement between the Ministry of Finance and The Danish Confederation of Professional Associations on Academics in the State.

The starting salary is currently at a minimum DKK 305,291 including annual supplement (+ pension up to DKK 42,171). Negotiation for salary supplement is possible.

The position is available for a 3-year period.

Application Procedure The application, in English, must be submitted electronically via http://-employment.ku.dk/ *Please include *

- Cover Letter, stating which PhD project you are applying for and detailing your motivation and background for applying for the specific PhD project. - CV - Diploma and transcripts of records (BSc and MSc) - Other information for consideration, e.g. list of publications (if any), - References - Documentation of English language qualifications, cf. general rules and guidelines, p. 5

The applicant will be assessed according to the Ministry of Science Technology and Innovation Executive Order no. 1039 of 27 August 2013PhD Order < http://www.science.ku.dk/english/research/phd/-student/filer/Engelsk_-_ph.d.-bekendtg_relse.pdf/ > *. *

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

The deadline for applications is September 22nd 2014. Applications received later than this date will not be considered.

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

General information about PhD programmes at SCIENCE is available at PhD Regulations < http:/-/www.science.ku.dk/english/research/phd/student/-filer/Faculty_PhD_Rules_12-12-17.pdf/ > .

Med venlig hilsen/ Kind regards

Alan Wervick

+3318 7204

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Alan Wervick <awe@signatur.dk>

UKiel EvolutionAntibioticsResistance

The Department of Evolutionary Ecology and Genetics at the Zoological Institute of the University of Kiel is seeking to fill a position within the research project âEvolution of antibiotic resistance“ for a

PhD student (m/f)

The position will be for three years. The salary will be according to the German TV-L-13 pay scale.

Description:

The alarming spread of resistant bacteria is complicating even the most routine clinical interventions. Case in point are highly resistant Pseudomonas aeruginosa, which cause almost untreatable respiratory and wound infections in the hospital, and play a driving role in cystic fibrosis.

The discovery of new antibiotics may offer temporary relief from resistance, but it is slow and costly, and does not address the heart of the matter: resistance is an evolutionary response to the use of antibiotics. Our research program is aimed at investigating the evolutionary dynamics underlying antibiotic resistance evolution during in vitro antibiotic therapies. The purpose is to devise ways in which existing antibiotics can be intelligently used to prevent or at least slow down the evolution of resistance. The project will involve experimental evolution using Pseudomonas aeruginosa and subsequent phenotypic, genomic and functional-genetic analyses of resistant strains.

The project is funded by the German Science Foundation (DFG) and will be based in the Department of Evolutionary Ecology and Genetics at the University of Kiel, Northern Germany, under the supervision of Dr. Gunther Jansen and Prof. Hinrich Schulenburg (www.uni-kiel.de/zoologie/evoecogen). The department provides an international and interactive atmosphere, while Kiel University and connected institutes (e.g., Max Planck Institute in Ploen) offer a stimulating research environment with a particular focus on evolutionary biology. The city of Kiel is a medium-sized pleasant town located at the coast of the Baltic Sea. It is the capital of the most Northern state of Germany, Schleswig-Holstein. It offers many opportunities for leisure activities, including theatres, an opera, the Schleswig-Holstein classical music festival, the world's largest metal festival in Wacken, sailing, surfing, cycling, and the famous festivities of the âKieler Woche“ – one of the major sailing events in Europe.

Requirements for the position:

Master in biology, genetics, microbiology, or related topic; excellent background in evolution and microbiology are a must, further required are experience with genetics, statistics and dealing with complex experimental designs; high motivation; a collaborative spirit; fluency in English.

The University of Kiel strives to increase the propor-

tion of women in research and education. It therefore encourages qualified women to apply. Women will be preferred in cases of comparable qualifications. It also explicitly welcomes applications from people with a migratory background. The University further makes an effort to employ disabled people and will prefer such candidates in case of equal qualification.

Please send applications with CV, one-page statement of research interests, and two references, as a pdf-file by email to gjansen@zoologie.uni-kiel.de. For further details and questions, you are welcome to contact me at gjansen@zoologie.uni-kiel.de.

–

Dr. Gunther Jansen Fellow at Wissenschaftskolleg zu Berlin Wallotstraße 19 14193 Berlin Germany Tel.: +49 30 89001 192 gunther.jansen@wiko-berlin.de

and

Department of Evolutionary Ecology and Genetics Zoological Institute Christian-Albrechts-Universitaet zu Kiel Am Botanischen Garten 1-9 24118 Kiel Germany Tel.: +49 431 880 4148 Fax: +49 431 880 2403 Email: gjansen@zoologie.uni-kiel.de URL: http://www.uni-kiel.de/zoologie/evoecogen/jansen/ http://www.uni-kiel.de/zoologie/evoecogen/evolreservoirs/ Gunther Jansen <gunther.jansen@gmail.com>

ULausanne EvolutionaryEntomology

A fully-funded PhD position is available at the Department of Ecology and Evolution (U Lausanne) and the Museum of Zoology in Lausanne to work on the evolutionary ecology of reproductive modes in mayflies, co-supervised by Michel Sartori and Tanja Schwander.

Start in January 2015 or soon thereafter.

The evolution and maintenance of sexual reproduction has been one of the major questions in evolutionary biology for the last decades: although biparental sex entails many costs, asexuality is rare among metazoans. The PhD candidate will assess the contribution of various factors to the maintenance of sex and parthenogenesis in natural populations of mayflies (Ephemeroptera). Facultative parthenogenesis is known to occur in many species, with a high level of variation: some species are characterized by very efficient parthenogenesis with high egg hatching success whereas virgin females in other species produce hardly any offspring. Such variation allows testing various costs and benefits of sexual reproduction and parthenogenesis, depending on different ecological contexts in a comparative framework.

We are looking for outstanding candidates with a background in ecology, evolutionary biology or equivalent (note that a master degree is required by the doctoral school to enter the PhD program). In addition to academic qualifications, a certain practical flair is necessary for surveying natural populations (field work) and possibly optimize/ develop rearing conditions.

Interested candidates should send a motivation letter, cv (including contacts for references) and diplomas as a single pdf file to tanja.schwander@unil.ch no later than October 10. For additional information about the topic, contact michel.sartori@vd.ch or tanja.schwander@unil.ch.

Tanja Schwander Department of Ecology and Evolution University of Lausanne Le Biophore CH-1015 Lausanne Switzerland Office: +41 (0)21 692 4151 Secretary: +41 (0)21 692 4160 Fax: +41 (0)21 692 4165

lab website: http://www.unil.ch/dee/en/home/menuinst/research/group-schwander.html theme issue on reproductive system evolution: http://onlinelibrary.wiley.com/doi/10.1111/jeb.2014.27.issue-7/issuetoc tanja.schwander@unil.ch

ULondon BatMolecularEvolution

suggested header - U.London.BatMolecularEcology

ERC-funded PhD project in the United Kingdom open for competitive applications Eligibility: UK and EU nationals Deadline for formal applications: 14 September 2014 Start date: January 2015 (earlier start date is possible)

Project: *The genetic basis of mate choice in bats* Supervisor: Stephen Rossiter (Queen Mary University of London) We are looking to recruit a PhD student for an ERC-funded project on mate choice in wild horseshoe bats. The student will study a UK population, in which parental combinations are known to be non-random and male paternity success is skewed. Mate decisions might be based on overall relatedness between partners, or on specific genetic profiles. For example, data from other taxa indicate MHC loci are important, although currently little is known about MHC diversity in bats.

For this project the student will combine parentage and pedigree analyses based on neutral and functional genetic markers. This project will also involve collaboration with colleagues from the University of Bristol and Queen Mary University of London. Training will be provided in molecular methods (DNA isolation, PCR, sequencing, microsatellite genotyping, genome data assembly) and statistical analyses (pedigree construction, population genetics analyses). The student will also assist with some fieldwork.

Potential applicants are encouraged to submit an informal application (CV and covering letter outlining your suitability for the position) to Stephen Rossiter (s.j.rossiter@qmul.ac.uk) before the formal deadline. For further details, with instructions on how to make a formal application, see: http://evolve.sbcs.qmul.ac.uk/rossiter/ *Essential skills, qualities and knowledge:** - A First Class or Upper Second Class degree (or equivalent) in a relevant biological discipline (biology, zoology, genetics, bioinformatics), and preferably also a Master's degree - Strong background in evolutionary biology - Experience of performing evolutionary analyses - Experience of handling large DNA sequence datasets - Strong work ethic and a positive attitude - Self-motivated, well-organized and willingness to respond to constructive criticism - Ability to work closely with others, and participate in the life and research activities of the School of Biological and Chemical Sciences at QMUL

Stephen Rossiter <s.j.rossiter@qmul.ac.uk>

UMinnesota EvolutionaryBiology

The Brandvain lab at the University of Minnesota " Twin Cities is recruiting graduate students. We are particularly interested in students who hope to blend theory and data and to bridge micro and macroevolutionary scales in aims of understanding plant diversity, and who thrive on stretching their mathematical, statistical, and computational skills to conduct creative and rigorous approaches to evolutionary questions.

Students can expect to generate and analyze population genomic and phylogenomic data sets, develop novel theoretical approaches, and interact with a strong and diverse community of evolutionary geneticists at the University of Minnesota, while developing an independent research program. The University of Minnesota is an excellent place to conduct research in plant evolutionary genetics and genomics, with numerous groups adjacent in idea-space (Goldberg, Cavender-Bares, Tiffin, Moeller, McGaugh, Springer, R. Shaw, Weiblen, May, Snell-Rood, Morrell, Hirsch) to provide a strong, supportive, and integrative training environment. See https://www.cbs.umn.edu/explore/departments/-plantbio/faculty-research/faculty-directory and https://www.cbs.umn.edu/explore/departments/eeb/-faculty-research/directory for faculty in Minnesota's plant bio and eeb programs, respectively).

The University of Minneapolis is located in the Twin Cities, providing opportunities of BOTH the big city (sports [GO LYNX!!!!!], music, culture, food), and the outdoors (we're surrounded by lakes, rivers, and wildness).

Interested students should contact Yaniv (ybrandvain At gmail DOT com) with a CV (including research experience and outcomes, as well as a description of relevant coursework in biology and math / stats / computation, and gpa) and a short description of their interests and why UMN would be a good fit for them. Yaniv will support enthusiastic students in developing their ideas for an NSF GRFP, and in preparing their application to the department of plant biology or ecology and evolution at the University of Minnesota. The Brandvain lab is committed to increasing diversity in our scientific community and therefore encourages applications from diverse students with related scientific interests.

for more information visit "

the brandvain lab website – http://-brandvainlab.wordpress.com/ the UMN-pBio grad group site https://www.cbs.umn.edu/explore/-departments/plantbio/gradprog & the UMN-eeb grad group site https://www.cbs.umn.edu/explore/-departments/eeb/graduate/future-eeb-graduate-students or contact Yaniv

ybrandvain@gmail.com

UMontreal SpruceBudwormMicrobialEvolution

Graduate student positions (M.Sc. or Ph.D.) available: Montreal QC,Canada.

*Understanding the importance of insect and plant mi-

crobiomes during spruce budworm outbreaks*

Fully-funded graduate student positions (M.Sc. or Ph.D.) are available for motivated students interested in studying the ecology of microbial communities (microbiomes) associated with spruce budworm and their host trees during the current outbreak that is having major impacts on Quebec forests.

The objectives of the project are to use field surveys and experimental manipulations of spruce budworm and host tree microbiomes, in order to understand the processes responsible for variation in microbial community structure in the budworm gut at multiple scales, and to quantify the effect of gut microbes on budworm growth, survival, and ecological interactions.

Students will be co-supervised by Dr. Steven Kembel (UQAM) and Dr. Patrick James (UdeM), and/or Dr. Daniel Kneeshaw (UQAM). The students will also work closely with a multidisciplinary team carrying out research on spruce budworm outbreak dynamics and forest ecology, including Dr. Louis DeGrandpré, and Dr. Deepa Pureswaran (Canadian Forest Service, NRCan). Students will have the opportunity to develop projects and receive training in diverse areas including field ecology, laboratory and greenhouse experiments, high-throughput environmental sequencing, biostatistics, and bioinformatics for the quantification of microbiome structure.

The ideal candidate will have a strong academic record and an interest in ecology (insect, plant, or microbial) and quantitative methods in community ecology or bioinformatics.

Review of applications will begin immediately and continue until the positions have been filled. To apply, please submit a cover letter stating your research interests, CV, unofficial transcripts, and contact information for three references to:

Dr. Steven Kembel (kembel.steven_w@uqam.ca) Dr. Patrick James (patrick.ma.james@umontreal.ca) Dr. Daniel Kneeshaw (kneeshaw.daniel@uqam.ca)

patrick.ma.james@gmail.com

UStAndrews SocialEvolutionTheory

School of Biology University of St Andrews St Andrews, UK

PhD studentship: Theory of social adaptation

Natural selection explains the appearance of design in the living world. But at what level is this design expected to manifest - gene, individual, society - and what is its function? Social evolution provides a window on this problem, by pitting the interests of genes, individuals and societies against each other.

I invite applications for a PhD studentship in my research group at the School of Biology, University of St Andrews, UK. I'm looking for a biology graduate who has a strong interest in social evolution theory, or an economics / mathematics / philosophy / physics graduate with a strong interest in social behaviour.

Current research in my lab involves development of general theory - using kin selection, multilevel selection, game theory and theoretical population genetics approaches - and application of mathematical and simulation models that are tailored to the biology of real organisms, from microbes to insects to humans (see www.andygardner.org for more details). To this end, I strongly encourage interactions within the wider grouping of theoretical and empirical biologists in St Andrews, as well as with collaborators further afield.

If social evolution really fascinates you, and you are a careful thinker, then you will flourish in the type of project that I enjoy supervising. Theoretical projects suit people of either sex, from any background, regardless of physical abilities.

Please direct informal enquiries to Dr Andy Gardner (andy.gardner@st-andrews.ac.uk).

Some examples of my research: 1. Úbeda F, Ohtsuki H & Gardner A (2014) Ecology drives intragenomic conflict over menopause. Ecology Letters 17, 165-174. 2. Gardner A, Alpedrinha J & West SA (2012) Haplodiploidy and the evolution of eusociality: split sex ratios. American Naturalist 179, 240-256. 3. Gardner A & Smiseth PT (2011) Evolution of parental care driven by mutual reinforcement of parental food provisioning and sibling competition. Proceedings of the Royal Society of London B 278, 196-203.

More information here: http://www.findaphd.com/-search/ProjectDetails.aspx?PJID=56711 Andy Gardner Andy Gardner

UTasmania ParentalEffects

Potential PhD project at the University of Tasmania, Australia Applications are currently being received for

a 2015 commencement (deadline Oct 20th 2014). For more information please contact Prof Elissa Cameron (Elissa.Cameron@utas.edu.au) &/or Assoc Prof Erik Wapstra (Erik.Wapstra@utas.edu.au) at the School of Biological Sciences, University of Tasmania.

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

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

UWageningen EvolutionarySongbirdGenomics

Within the "European Graduate School in Animal Breeding and Genetics" (EGS-ABG) a 4-year PhD position on "Genetics of seasonal timing in the great tit (Parus major)" is available, see below for a project summary. This project is jointly hosted by Wageningen University (the Netherlands) and the Swedish University of Agricultural Sciences (Sweden), in close collaboration with the Department of Animal Ecology of the Netherlands Institute of Ecology (NIOO-KNAW). Please see http://www.egsabg.eu/ for further information on the graduate school and online application procedure (deadline 30.11. 2014). Please note that applicants who obtained their MSc in one of the countries hosting the project (the Netherlands, Sweden) are not eligible . For further information on the project please contact Prof. Martien Groenen (martien.groenen@wur.nl).

Project summary:

The rate at which organisms can adapt to climate change is one of the key factors determining the degree of biodiversity loss. One of the key ecological impacts of global climate change is that it has led to clear shifts in seasonal timing, a prime example of a phenotypically plastic trait in which environmental variables, in interaction with the genetic background, determine the trait value. The focus of this project will be phenotypic plasticity in the passerine bird the great tit (Parus major). The aim is to identify genomic regions involved in a number of traits including egg laying date, clutch size, weight at 15 days, tarsus and hatchability of eggs using an association study on a population of 2500 female birds measured for these traits and genotyped with 675,000 SNPs distributed evenly across the genome. Because genetic correlations between traits under selection could constrain evolutionary change, genetic correlations will be estimated between the traits measured in these birds, using actual relatedness instead of pedigree-based relatedness. Within the project you will also analyse the 4th generation of the two selection lines, currently being produced, to identify the regions under selection. The complete genome sequence of the founder animals of the selection lines will be available, which allows a detailed analysis of the underlying genes and genetic variants under selection. The project requires excellent skills in quantitative genetics and bioinformatics.

p.gienapp@nioo.knaw.nl

UWashington ShellfishEvolution

Graduate Position in Marine Shellfish Genetics

School of Aquatic and Fishery Sciences, University of Washington, Seattle, USA

A PhD (or MS) position is available in the School of Aquatic and Fishery Sciences (SAFS) at the University of Washington (http://fish.washington.edu/) to study local adaptation of rock scallops, Crassadoma gigantea, to ocean acidification by reciprocal transplant and common garden experiments combined with next generation sequencing techniques. The project is funded by the NOAA Sea Grant Aquaculture Research Program, and represents a close collaboration between the shellfish industry, state and tribal resource management, and academia. We are now looking for an enthusiastic individual to help with captive larval rearing experiments, carry out next generation sequencing, and develop computer models aiming to evaluate molecular signals of selection in wild populations and the hatchery. The successful candidate should work well as part of a team, be responsible and reliable, and be able to effectively communicate science in oral and written presentations. He/She should have worked with molecu-

lar genetic approaches and preferentially have bioinformatics experience, though training in these areas can be provided. The student will be part of MerLab, an active research group consisting of four faculty, three postdocs, four PhD students and two Master's students, who are all applying modern genetic techniques to answer questions in ecology, evolution and natural resource management. The position is initially funded for two years and will start as soon as possible, ideally in spring 2015. Additional opportunities for scholarships from SAFS, the NSF and other bodies also exist, and prospective candidates are encouraged to discuss these opportunities and other aspects of the project with the PIs Dr Lorenz Hauser (lhauser@uw.edu, http://fish.washington.edu/people/hauser/) and Dr Brent Vadopalas (brentv@uw.edu). Please see http://fish.washington.edu/graduates/admissions.html for application details and timelines.

Dr Lorenz Hauser Associate Professor School of Aquatic and Fishery Sciences, University of Washington 1122 NE Boat St, Box 355020, Seattle WA 98195-5020 Phone 206 685 3270, Fax 206-543-5728

http://fish.washington.edu/people/hauser/

Lorenz Hauser <lhauser@uw.edu>

UZurich PlantGenomics

A PhD position is available at the Institute of Plant Biology (University of Zurich, Switzerland) to work on the impact of transposable elements on local adaptation.

Starting date: ˜ March 2015 (negotiable)

Project summary: The primary objective of the project is to better understand the genetic basis of local adaptation. We aim to study the impact of transposable elements on genetic diversity, gene expression and potential adaptation in populations from different locations using the grass, Brachypodium distachyon, as a model. The project will combine whole genome (re)sequencing, comparative genomics and transcriptomics. The position is funded by the Swiss National Science Foundation for 3 years (Ambizione Fellowship) and will be based at the Institute of Plant Biology (University of Zurich) in collaboration with the Genomic Diversity Center (ETH-Zurich). The successful candidate will be supervised by Dr. Anne Roulin and be part of Dr. Thomas Wicker's group.

Candidate requirements: We are looking for a highly motivated candidate with interest in evolution, ecology and genomics. Applicants are required to have completed a Master degree in Biology. The successful candidate should be interested in molecular lab work and comfortable handling large datasets. Experience in molecular biology or/and programming skills are a plus but not required. Working language is English, and applicants should have a good level of written and spoken English.

How to apply: Interested? Please send your application as a single pdf file containing: (1) a cover letter describing your motivation and research interests (2) a CV (3) copy of degree to Anne Roulin (anne.roulin@unibas.ch). Contact information for at least one academic reference should be also provided. Reviewing starts in November but applications are welcome until the position is filled. For further information or questions, please do not hesitate to contact Anne Roulin. We are looking forward to receiving your application!

Anne Roulin

For further information - on the institute: http://www.botinst.uzh.ch/index.htm - on the model : http://www.phytozome.net/brachy.php Anne Roulin <anne.roulin@unibas.ch>

VirginiaTech 2 AvianEvolution

PhD Student, Avian Behavioral Neurobiology, Biological Sciences, Virginia Tech

The Sewall lab in the Department of Biological Sciences at Virginia Tech is recruiting up to 2 PhD students. Research in the lab examines the effects of the ecological and social environment on neural plasticity, communication and social behavior in songbirds. The successful applicant(s) will conduct field and captive research on songbird communication and cognition, as well as histology, immunohistochemistry and molecular assays to examine makers of neural plasticity and brain function. Being accepted into the PhD program at Virginia Tech and Dr. Sewalls lab will provide extensive training in animal behavior, neurobiology and ecology by the PI, lab members, and a group of exceptional researchers in organismal biology, including Drs. Joel McGlothlin, Ignacio Moore, Dana Hawley and Bill Hopkins. Graduate students at Virginia Tech are provided a stipend and tuition coverage in exchange for service as a teaching or research assistant.

To Apply: Send a cover letter summarizing your prior experience, professional goals, and research interests, as well as a CV and contact information for at least three academic references to Kendra Sewall (ksewall@vt.edu). The application deadline funding through the graduate program is December 31st.

For more information see links below. the Sewall lab: http://vtsewall.weebly.com/index.html Virginia Tech Biological Sciences: http://www.biol.vt.edu/-index.html Kendra Sewall, PhD Assistant Professor Biological Sciences 3024/3026 Derring Hall Virginia Tech 1405 Perry St Mail Code 0406 Blacksburg, VA 24061 540.231.5617 http://vtsewall.weebly.com/ Kendra Sewall <ksewall@vt.edu>

WakeForestU Evolution

Several PhD positions available in the Biological Sciences Wake Forest University

The Department of Biology at Wake Forest University currently has several positions available for graduate students seeking MS or PhD degrees starting in Fall 2015. Positions are available in the following core areas: Ecology and Evolution, Cell and Molecular Biology, Physiology, Integrative Plant Biology, and Neuroscience and Behavior. Our department offers a research-focused experience for students who want to perform integrative research and interact with faculty spanning multiple fields of biology. Faculty maintain internationally-recognized research programs both locally and abroad.

Interested applicants should contact their potential advisor before applying. Applicants are expected to have demonstrated academic success and competitive resumes. Apply by January 10, 2015 for full consideration. More information can be found on our website at http://college.wfu.edu/biology/ Faculty currently accepting graduate students include but are not limited to:

Dr. Katie Lotterhos: Landscape Genomics, Marine Biology, and Evolution Dr. Bill Conner: Bat-insect Behavior and Ecology Dr. Matthew Fuxjager: Hormones and Behavior, Vertebrate Physiology Dr. Cliff Zeyl: Ecological and Evolutionary Genetics Dr. Miles Silman: Amazonian and Andean Forest Ecology and Conservation Dr. Ke Zhang: Epigenetics, Molecular Biology and Biochemistry Dr. Michael Anderson: Savannah Ecology Dr. Gloria Muday: Hormone Signalling and Development

For a full list of faculty, see http://college.wfu.edu/-biology/people/faculty/ Wake Forest University is centrally located in North Carolina, and offers ample opportunities to enjoy the outdoors and the arts.

lotterke@wfu.edu

Jobs

AustinPeayStateU MammalEvolution

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

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

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

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

Please refer all questions to facultyapplications@apsu.edu

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

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

CaliforniaStateU Fresno PopulationGenetics

California State University, Fresno is an engaged University. We focus on broadening students' intellectual horizons, fostering lifelong learning skills, developing the leaders of tomorrow, promoting community involvement, and instilling an appreciation of world cultures. We nurture cultural competence by celebrating the rich diversity of the campus community and welcoming the participation of all. Members of the University community are expected to work effectively with faculty, staff and students from diverse ethnic, cultural and socioeconomic backgrounds. For information on the University's commitment and dedication to creating a university known for its integrity, civility, equity, respect and ethical behavior, please visit: www.fresnostate.edu/academics/diversity Available for Academic Year: 2015/2016.

Fresno State has been recognized as an Hispanic-Serving Institution (HSI); an Asian American/Native American/Pacific Islander-Serving Institution (AANAPISI); and has been designated to the Community Engagement Classification by the Carnegie Foundation for the Advancement of Teaching. Faculty members gain a clear path to tenure through the University's Probationary Plan Process. Salary placement depends upon academic preparation and professional experience.

Position Summary The successful candidate will be broadly trained with expertise in population genetics. Specific teaching assignments will include genetics and other courses dependent on the candidate's expertise and departmental needs. The successful candidate is expected to develop a research program that involves both undergraduate and graduate students and pursue the external funding necessary to maintain a successful research effort. Learning outcomes assessment and service learning are important components of the university curriculum. Faculty members are also expected to engage in service activities at all levels of the university and provide academic and professional advice to students. The successful candidate will have access to NSF and NIH funded instrumentation and the forthcoming Jordan Research Center.

Overview The Department of Biology consists of excellent teachers with active, externally-funded research programs. They are dedicated to providing students with cutting-edge experiences in their areas of expertise. The department includes 16 full-time faculty with research strengths in physiology, ecology and evolutionary biology, molecular genetics, cellular and developmental biology, and microbiology, with whom the successful candidate may collaborate. In addition, a population geneticist could develop interdisciplinary collaborations with mathematics and computer science faculty within the college or faculty in other colleges, such as the Jordan College of Agricultural Sciences and Technology.

Required Education An earned doctorate (Ph.D.) in Genetics, Population Genetics or a related discipline from an accredited institution (or equivalent).

Required Experience 1) Evidence of publications in scholarly journals; 2) Demonstration of grant writing and/or scholarly activity at the university level, and; 3) Ability to demonstrate a commitment to working effectively with faculty, staff, and students from diverse ethnic, cultural, and socioeconomic backgrounds.

Preferred Qualifications 1) Successful teaching experience at the undergraduate level; 2) Productive postdoctoral research or experience; 3) A publication record that is commensurate with the candidate's experience, and; 4) Experience obtaining extramural grants and contracts for research.

Application Procedures Review of applications will begin on October 25, 2014 and continue until the position is filled. To apply, applicants must complete an on-line application at jobs.fresnostate.edu and attach the following: 1) a cover letter specifically addressing required experience and preferred qualifications; 2) a curriculum vitae; 3) a statement of current and future research; 4) a statement of teaching philosophy, and; 5) a list of three professional references. Finalists will be required to submit 1) three current letters of recommendation and 2) official transcripts. For inquiries contact Dr. Paul R. Crosbie, Search Committee Chair; California State University, Fresno; College of Science and Mathematics; Department of Biology; 2555 E San Ramon Ave, SB73; Fresno, CA 93740-8034; email: pcrosbie@csufresno.edu Phone: (559) 278-2074; fax: (559) 278-3963.

Other Requirements A link to the Annual Safety and Security/Fire Safety Report is provided in compliance with the 1998 Jeanne Clery Disclosure Act, and California Education Code section 67380. The report includes three calendar years of select campus crime statistics and it includes security policies and procedures for the campus. Applicants, students, and employees can obtain a copy of this report from the web site:

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CaliforniaStateU LongBeach PlantEvolution

Link to job ad online: http://www.csulb.edu/divisions/aa/personnel/jobs/posting/2179/index.html CALIFORNIA STATE UNIVERSITY, LONG BEACH College of Natural Sciences and Mathematics Department of Biological Sciences Tenure-Track Position Opening

RECRUITMENT NUMBER: 2179 POSITION: Assistant Professor of Biological Sciences (Plant Evolutionary Biologist) EFFECTIVE DATE: August 17, 2015 (Fall Semester) SALARY RANGE: Commensurate with qualifications and experience

MINIMUM QUALIFICATIONS: Ph.D. in the biological sciences or related field and post-doctoral training and research in plant evolution utilizing both morphological and molecular traits. Record of peer-reviewed published research in plant evolutionary biology and potential for developing and sustaining an externally funded research program that involves students. Demonstrated potential for effective teaching of courses in Plant Morphology and Vascular Plant Systematics. Demonstrated commitment to working successfully with a diverse student population

DESIRED/PREFERRED QUALIFICATIONS: Knowledge of and experience with a broad range of cutting edge phylogenetic methods. Field research experience. Potential for developing a research program relevant to the Southern California region. Prior teaching at the university level. Potential to teach core biology courses at the undergraduate and graduate level. Evidence of ability to mentor undergraduate and graduate students in research. Record of extramural research support.

DUTIES: Teach courses in Plant Morphology and Vascular Plant Systematics (with emphasis on the local flora) and in the undergraduate and graduate biology core curricula. Develop an active, externally funded research program that involves undergraduate and graduate students resulting in scientific presentations and publications. Participate in service to the department, college, university, and community. RESEARCH SUPPORT: Facilities include three rooftop greenhouses built in 2011, two ground-level greenhouses, outdoor growing space, an AR-66L2X Percival growth chamber and one full-time botany technician. The new greenhouses are specialized for temperate (1360 sq. ft.), tropical (1360 sq. ft.), and arid (720 sq. ft.) conditions. The Department of Biological Sciences has several 4-wheel drive vehicles for general research use.

CSULB seeks to recruit faculty who enthusiastically support the University's strong commitment to the academic success of all of our students, including students of color, students with disabilities, first generation to college, veterans, students with diverse socio-economic backgrounds, and diverse sexual orientations and gender expressions. CSULB seeks to recruit and retain a diverse workforce as a reflection of our commitment to serve the People of California, to maintain the excellence of the University, and to offer our students a rich variety of expertise, perspectives, and ways of knowing and learning.

REQUIRED DOCUMENTATION: * A Student Success Statement about your teaching or other experiences, successes, and challenges in working with a diverse student population (approximately one page) * Letter of application addressing the minimum and desired/preferred qualifications * CV (including current email address) * Statement of Research Interests * Statement of Teaching Philosophy * Reprints of three representative publications * Copy of transcript from institution awarding highest degree * Three current references or letters of recommendation sent directly to the address below. * Finalists will also be required to submit a signed SC-1 form, three current letters of recommendation(if not already submitted), and an official transcript.

Applicant documentation should be assembled into ONE PDF document and sent to BiologyPlantEvolSearch@csulb.edu. Letters of recommendation, other required documentation, and/or requests for information should be addressed to the search committee:

Dr. Judy Brusslan, Chair California State University,

Long Beach Department of Biological Sciences 1250 Bellflower Boulevard Long Beach, CA 90840-9502 562-985-4806 BiologyPlantEvolSearch@csulb.edu

APPLICATION DEADLINE: Review of applications to begin October 16, 2014 Position opened until filled (or recruitment cancelled)

CSULB is committed to creating a community in which a diverse population can learn, live, and work in an atmosphere of tolerance, civility and respect for the rights and sensibilities of each individual, without regard to race, color, national origin, ancestry, religious creed, sex, gender identification, sexual orientation, marital status, disability, medical condition, age, political affiliation, Vietnam era veteran status, or any other veteran's status. CSULB is an Equal Opportunity Employer.

Dr. Ted Stankowich Assistant Professor Department of Biological Sciences

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CanisiusCollege 2 MicrobiologyDevelopment

ASSISTANT PROFESSOR, BIOLOGY at Canisius College - Buffalo, NY. 2 tenure-track positions for fall 2015. Both positions should contribute to the introductory biology (evolution/ecology and/or physiology) and/or the sophomore level biochemistry/cell biology sequences.

Microbiology: teach an upper-level course and lab in general microbiology and one or more upper-level courses and associated labs in his/her area of specialty. The ideal candidate will also teach one or more of the following: epidemiology, parasitology, virology, toxicology, and/or immunology. A research program studying microbiology from a biochemical, cellular, and/or molecular approach and involving undergraduates is expected.

Developmental Biology: teach upper-level course and lab in developmental biology and one or more upper-level courses and associated labs in his/her area of specialty. The ideal candidate will also teach one or more of the following: evolution and development, developmental genetics, medical genetics, and/or toxicology. A research program studying developmental biology using molecular techniques and involving undergraduates is expected.

Candidates should complement existing expertise which includes: animal behavior/behavioral neuroscience, immunochemistry, endocrinology, cellular neurobiology, vertebrate ecology, cancer epigenetics, plant biochemistry, primatology, evolutionary biology (population genetics), evolutionary ecology/entomology, and freshwater biology. Expected to seek external funding to support scholarship. PhD is required, postdoctoral experience preferred. Send letter of application, vitae, transcripts, teaching philosophy, plan of proposed research, information for three references by 11/1/14, to Dr. Susan Aronica at hr.recruiter@canisius.edu (put MICRO BIO or DEVELOP BIO in the subject, pdf preferred) or mail to HR, 2001 Main St, Buffalo, NY 14208. AA/EOE

stewar34@canisius.edu

CanisiusCollege TwoPositions MicrobiologyDevelopment

ClemsonU EukaryoticGenomics

Genomics Faculty Position at Clemson University. The Department of Biological Sciences in the College of Agriculture, Forestry, and Life Sciences at Clemson University invites applications for a full-time tenure-track faculty appointment to begin August 2015 in Eukaryotic Genomics. Clemson University is ranked 20th 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 appointment at the Assistant Professor level.

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, evolutionary biomedicine, 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, and contact information for three references. Review of applications will begin November 1, 2014 and continue until the position is filled. Application materials should be sent by e-mail as one PDF file to biosearch@clemson.edu. Further information about these positions and the department are available at: http://www.clemson.edu/biosci and http://-findjobs.clemson.edu . Clemson University is committed to a policy of equal opportunity for all persons and does not discriminate on the basis of race, color, religion, sex, sexual orientation, gender, pregnancy, national origin, age, disability, veteran's status, genetic information or protected activity (e.g., opposition to prohibited discrimination or participation in any complaint process, etc.) in employment, educational programs and activities, admissions and financial aid. This includes a prohibition against sexual harassment and sexual violence as mandated by Title IX of the Education Amendments of 1972.

Margaret Ptacek <MPTACEK@clemson.edu>

ClemsonU HumanEvolutionaryGenetics

The Self Family Foundation Endowed Chair in Human Genetics Clemson University/Greenwood Genetic Center

Clemson University (CU) is seeking to fill a new endowed professor position. The Self Family Foundation Chair in Human Genetics (Self Chair) is part of a dynamic interdisciplinary initiative to build strength in medical genetics, genomics, epigenetics, and computational biology across South Carolina with national and international partnerships. This position will be located in Greenwood, SC at the Center for Human Genetics (CHG), a research and education building to be built adjacent to the J.C. Self Research Institute and South Carolina Center for the Treatment of Genetic Disorders at the Greenwood Genetic Center (GGC). The GGC is a non-profit institute dedicated to providing clinical and diagnostic genetic services, educational programs, and research in the field of medical genetics.

Individuals with an internationally recognized research program in human genetics or related discipline and a strong history of external funding are invited to apply. Candidates must possess an excellent record of peer-reviewed publications and both teaching and mentoring experience. The Self Chair is expected to maintain a vigorously funded research program and lead the human genetics initiative through recruitment of new faculty hires to be housed at the CHG. Candidates must be eligible for appointment as Full Professor with tenure in the Department of Genetics & Biochemistry at CU.

To apply, submit a cover letter, curriculum vitae, short statement of research interests and future directions, and a list of references in one PDF file emailed directly to SelfChair@clemson.edu with Self Chair in the subject heading. To ensure full consideration, please submit all application materials by October 31, 2014. Review of applications will begin in November 2014 and continue until the position is filled. The starting date for this position is negotiable.

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

Amy L. Lawton-Rauh, Ph.D. Associate Professor Department of Genetics and Biochemistry Clemson University

Tel. (+1) 864-656-1507 Email. amylr@clemson.edu Lab website. www.clemson.edu/lawtonrauhlab Department website. www.clemson.edu/genbiochem Advanced Plant Technology. www.clemson.edu/public/-apt/researchers/amy_lawton-rauh.html Office: 316 Biosystems Research Complex Lab: 317 Biosystems Research Complex

105 Collings Drive Clemson University Clemson, SC 29634-0318 U.S.A.

Amy Lawton-Rauh <AMYLR@clemson.edu>

CornellU ComputationalGenomics

Assistant/Associate Professor of Computational Genomics Tenure Track-9 month Academic Year Appointment - Department of Molecular Biology and Genetics College of Agriculture and Life Sciences -âCornell University

Cornell is a community of scholars, known for intellectual rigor and engaged in deep and broad research, teaching tomorrow's thought leaders to think otherwise, care for others, and create and disseminate knowledge with a public purpose.

The Department invites applications for a tenure-track faculty position at the Assistant or Associate Professor level. We seek candidates who are developing innovative computational genomics methods to solve novel problems in genome biology, and are interested in interacting with experimental biologists who generate large-scale genomic data sets. Position will be 70% Research & 30% Teaching. Areas of specialization might include, but are not limited to: - Functional associations, quantitative genetic, and/or population genetic analyses of large-scale resequencing and phenotyping data sets of humans and/or model organisms. - Systems-level integration of diverse genomic data sets. - Functional predictions and/or evolutionary inferences from comparative genomic data.

Qualifications: Individuals seeking a creative integration of experimental and computational approaches will find Cornell a rich environment in which to work (see http://mbg.cornell.edu/cals/mbg). An advanced degree (Ph.D., M.D., or equivalent) is required and postgraduate training is highly desirable.

ANTICIPATED START DATE: July 1, 2015

SALARY AND BENEFITS: Competitive and commensurate with qualifications and experience. An attractive fringe benefit package is included.

APPLICATION PROCEDURE: Electronically submit online to https://academicjobsonline.org/ajo/-jobs/4452 CV, a two to four page research statement, which indicates how your program could synergize with existing Cornell faculty, a one page teaching statement, and pdfs of two of your most significant papers. Application review begins on October 15, 2014. Administrative questions can be addressed by Robin Lampman at RLL2@cornell.edu .

The Department of Molecular Biology and Genetics and the College of Agriculture and Life Sciences at Cornell embrace diversity and seek candidates who will help create a climate that attracts students of all races, nationalities, religions, genders, and sexual orientations. We strongly encourage women and members of underrepresented minorities to apply.

Cornell University is an innovative Ivy League university and a great place to work. Our inclusive community of scholars, students and staff impart an uncommon sense of larger purpose and contribute creative ideas to further the university's mission of teaching, discovery and engagement. Located in Ithaca, NY, Cornell's far-flung global presence includes the medical college's campuses on the Upper East Side of Manhattan and in Doha, Qatar, as well as the new CornellNYC Tech campus to be built on Roosevelt Island in the heart of New York City.

Diversity and Inclusion are a part of Cornell University's heritage. We're an employer and educator recognized for valuing AA/EEO, Protected Veterans, and Individuals with Disabilities.

Linda Reed <LReed@graystoneadv.com>

DemoncraticRepublicCongo BonoboProjectCoord

JOB DESCRIPTION

Project coordinator/leader for a study evaluating the effect of a long-term research project and related conservation activities on the status of bonobos. The study will be conducted in a forest area that is located in the buffer zone of Salonga National Park, DRC. The person will be in charge of conducting transect work and camera trapping to obtain information on the occurrence of bonobos, the diversity of wildlife and the frequency

of human encroachment. The survey area consists of 500 km^2 located in an extremely remote zone with no running water or electricity. The person will lead a field team consisting of 4 local assistants. Some of the transect work will be conducted close to a research camp while other parts of the work necessitates camping for several days in the forest. Work duties beside organization of activities in the field and data collection include entering the collected data in a computer for later analyses. The person is expected to come to Leipzig (Germany) prior to data collection in the field for training. Additional information about the research station is available at _http://www.eva.mpg.de/primat_

QUALIFICATIONS

Essential requirements are: (1) experience in working under difficult field conditions, (2) precision and reliability in scoring data during observations and when entering field data into data files, (3) resistance to social/psychological stress, (4) social and communicative skills to facilitate team work, (5) the ability to achieve tasks by improvisation, (6) language skills in French. Candidates must be able to work independently, must have strong motivation to take on responsibility, and tolerance to costumes and practices of traditional societies.

SALARY/FUNDING

1000 Euros/month

SUPPORT

-food (mainly local food and some western food items)

-lodging (in tents)

-airfare for one flight from Kinshasa to the field site and back

-airfare for one international return flight (reimbursement ONLY AFTER SUCCESSFUL COMPLETITION OF A 9 MONTS TERM OF APPOINTMENT)

-expenses for visa and stay in Kinshasa (reimbursement ONLY AFTER SUCCESSFUL COMPLETITION OF A 9 MONTS TERM OF APPOINTMENT)

-*please note that costs for a health insurance can not be covered by the project*

TERM OF APPOINTMENT

9 months starting in March 2015

CONTACT

Applications should be sent till 15 December to Dr. Martin Surbeck (surbeck@eva.mpg.de)

Martin Surbeck <surbeck@eva.mpg.de>

DenverMuseumNatSci OrnithologyCurator

Curator of Ornithology Denver Museum of Nature & Science

The Denver Museum of Nature & Science (DMNS) invites applications for a Curator of Ornithology in the Department of Zoology, Research and Collections Division. We seek a scientist whose field and collections-based research addresses fundamental questions in modern avian evolutionary biology with some focus on the Rocky Mountain region. The successful candidate will 1) conduct and support original field and collections-based scientific research in areas of specialty such as avian systematics, evolutionary genetics/genomics, ecology, bioinformatics, and/or related fields, with an established track record of publications and extramural funding; 2) actively curate and continue to grow a large and important ornithology collection, and 3) help inspire public understanding of, and involvement in, science by supporting museum-based programming, exhibitry, and external outreach.

The DMNS has 14 active curators and support staff spanning the fields of anthropology, earth sciences, health sciences, space sciences, and zoology. We have recently completed a state-of-the-art collections facility with modern collections workspaces and room for growth (http://www.dmns.org/morgridge-family-exploration-center/). Additional facilities and resources include a core genetics lab, digital imaging equipment, a fleet of field vehicles, and field equipment. The museum has outstanding conservation, volunteer management, and library staff. The museum has strong local public support and close collaborations with local organizations and universities. Numerous opportunities are available to engage with the general public through educational programming and exhibits and to work with a large, highly trained volunteer corps. We are situated in an ideal geographic location for conducting regional fieldwork and research.

The Department of Zoology is an outwardly focused and collegial team that engages in research with a strong regional focus in the Rocky Mountain and Great Plains. Current staff expertise is in arachnology, entomology, and mammalogy. The ornithology collection (~55,000 specimens, including eggs and nests) is sizeable, with excellent geographic, temporal, and

taxonomic coverage, and continues to grow; it can be searched here: http://arctos.database.museum/-dmns_bird. The Department has a full-time collections manager, office manager, grant-funded curatorial assistants, associates, and about 140 zoology volunteers who engage in science, collections, and outreach. Additional information about the DMNS Research and Collections Division and the Department of Zoology can be found here: http://www.dmns.org/science/ . A PhD is required at the start of the position and postdoctoral experience is preferred. The starting date of the position is flexible.

Application Instructions: To apply, submit a single PDF file, which contains all of the following on single-spaced, single-sided pages in 12-point or larger font, via http://www.dmns.org/about-us/jobs/, by October 31, 2014:

1. A one-page cover letter that outlines your interest in the position, experience, and personal objectives.

2. A statement (three pages max.) that addresses the following equally: 1) your research interests, accomplishments, and future research/funding plans that include a regional focus; 2) your plans to dovetail your scholarship with the existing ornithology collection at the DMNS, and to continue to build and steward the ornithology collection; and 3) a summary of outreach areas where you are currently most effective, ways to leverage your skills within and beyond the museum to improve the publics understanding of science, and innovative approaches for leveraging the DMNS platform to effectively engage the general public and catalyze the next generation of scientifically literate youth.

3. A complete curriculum vitae which lists your in-press or published peer-reviewed publications, funding history, record of collections experience, and outreach.

4. A list of contact information for three professional references.

Be advised that due to the high volume of applicants, we are only able to directly contact those candidates whose skills and background best fit the needs of the position, however please check your inbox and junk mail for any correspondence. If you are a returning applicant, please note that cover letters must be deleted, edited and then reattached to correspond with the position. No phone calls please.

The Denver Museum of Nature & Science is an equal opportunity employer Gender/Minority/Veterans/Disabled. The Museum is dedicated to the goal of building a culturally diverse staff committed to serving the needs

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ETH Zurich EvolutionInfectiousDisease

The Department of Environmental Systems Science at ETH Zurich (www.usys.ethz.ch) invites applications for the above-mentioned position. Candidates with outstanding scientific track records in any related field will be considered, but preference may be given to ecologists working on interactions between the environment and disease dynamics. The new professor should establish a world-class research group and integrate into research activities in related fields at ETH Zurich.

The successful candidate is expected to contribute to the teaching of undergraduate (German or English) and graduate level courses (English) for students of the Departments of Environmental Systems Science and Biology. The professorship will be equipped with a generous personnel and operational budget, but the candidate will be expected to obtain further funds for research through competitive grants.

This assistant professorship has been established to promote the careers of younger scientists. The initial appointment is for four years with the possibility of renewal for an additional two-year period and promotion to a permanent position.

Please apply online at www.facultyaffairs.ethz.ch Your application should include your curriculum vitae, a list of publications, and a statement of your research and teaching interests. The letter of application should be addressed to thePresident of ETH Zurich, Prof. Dr. Ralph Eichler. The closing date for applications is 15 October 2014. ETH Zurich is an equal opportunity and affirmative action employer. In order to increase the number of women in leading academic positions, we specifically encourage women to apply. ETH Zurich is further responsive to the needs of dual career couples and qualifies as a family friendly employer.

Sebastian Bonhoeffer Theoretical Biology Institute of Integrative Biology (IBZ) ETH Zurich, Universitaetsstr. 16 ETH Zentrum, CHN K12.1 CH-8092 Zurich Switzerland

ph(office) +41 44 6327106 ph(secr) +41 44 6336033 fax +41 44 6321271 www.tb.ethz.ch Bonhoeffer Sebastian <sebastian.bonhoeffer@env.ethz.ch>

Florida MNH 2 curators

Two curatorial positions at the Florida Museum of Natural History, University of Florida

The University of Florida is launching a cross-disciplinary Biodiversity Initiative that will improve our understanding of biological diversity and its impacts on human society. As part of this initiative, two curatorial positions will be filled at the Florida Museum of Natural History at the level of Associate or Full Curator (equivalent to Associate or Full Professor). The anticipated start date is August 2015. Salary is competitive and commensurate with experience.

Successful applicants will be expected to conduct dynamic, externally funded research programs incorporating biodiversity collections-based data or other 'Big Data' and models to improve our understanding of conservation biology or other environmental issues such as climate change, invasive species, habitat modification, and ecosystem services; or improve our understanding of the history of life and our ability to address questions in comparative biology such as those related to the origin, persistence and extinction of lineages and biogeographic patterns; or improve our ability to provide data on species identifications and distributions, habitat preferences, and other information to resource managers, agricultural scientists, and industry.

Preference will be given to applicants working with collections-based data on fishes, amphibians or reptiles, but those with other taxonomic interests are welcome to apply. Successful candidates for these positions will have a proven track record of publications in top scientific journals, an independently established research program and significant evidence of success in obtaining extramural funding. The positions require a Ph.D. degree in the biological sciences or related field. Experience with building and curating museum collections is preferred.

Applications are due by November 2, 2014. To be considered, all applications must be submitted on-line at https://jobs.ufl.edu/postings/57038. The application, submitted entirely as a pdf file, must include: (1) cover letter; (2) curriculum vitae; (3) statement of research, collections, teaching, and outreach experiences, visions, and goals; (4) reprints of no more than five publications; and (5) the names and email addresses of three colleagues who might be contacted for letters of recommendation.

The University of Florida is one of the most comprehensive high-quality public universities in the country. UF is a land grant, sea grant, and space grant university and on-campus home to the most comprehensive academic health center in the southeastern US. The Biodiversity Initiative will leverage extraordinary data resources, one of the nation's largest natural history museums, and a strong collaborative culture across all disciplines. UF counts among its greatest strengths – and a major component of its excellence - that it values broad diversity in its faculty, students, and staff and creates a robust, inclusive and welcoming climate for learning, research and other work. UF is committed to equal educational and employment opportunity and access and seeks individuals of all races, ethnicities, genders and other attributes who, among their many exceptional qualifications, have a record of including a broad diversity of individuals in work and learning activities. The Un iversity of Florida is an Equal Opportunity Institution.

For additional information, please contact David L. Reed (dlreed@ufl.edu), Chair, Department of Natural History.

dreed@flmnh.ufl.edu

GeorgeWashingtonU 2 EvoDevoImmunology

Two Tenure-track Faculty Positions

Department of Biological Sciences

The George Washington University

The Department of Biological Sciences at the George Washington University is accepting applications for two tenure-track positions at the rank of Assistant Professor. *Position #1*. We seek an *Immunologist* with interests in vertebrate adaptive immunology. Research activities will be expected to complement the research focus of comparative immunology within the department. Teaching responsibilities will include an undergraduate, introductory course in Cell Biology and a second course in the candidates area of expertise. *Position #2*. We seek an *Evolutionary* *Developmental Biologist* with interests in the evolution-

ary basis of developmental processes. Research activities will be expected to intersect with faculty interests in cell/molecular biology, development, and evolution. Teaching responsibilities will include an undergraduate course in Developmental Biology and an upper division course in the candidates area of expertise.

Successful candidates will be expected to establish and maintain an externally funded research program that involves undergraduate and graduate students. Office and laboratory space will be located in the new GWU Science and Engineering Hall that is scheduled to open in early 2015.

Required Qualifications: a completed PhD in an appropriate discipline, postdoctoral experience, and research accomplishments as demonstrated by peer-reviewed publications in high quality journals.

Application Procedure: To be considered, please complete an online faculty application at the appropriate link below. Upload a cover letter including a list of publications, a curriculum vita, brief descriptions of research and teaching plans, three recent publications, and the names and addresses of three referees. Finalists will be required to submit three letters from professional references. Only complete applications will be considered.

Immunologist: http://www.gwu.jobs/postings/23784 Evolutionary Developmental Biologist: http://-www.gwu.jobs/postings/23891 Review of applications will begin on October 20, 2014 and will be ongoing until the positions are filled.

Information about the department and faculty interests can be found at http://biology.columbian.gwu.edu/-. The university is an Equal Employment Opportunity/Affirmative Action employer that does not unlawfully discriminate in any of its programs or activities on the basis of race, color, religion, sex, national origin, age, disability, veteran status, sexual orientation, gender identity or expression, or on any other basis prohibited by applicable law.

Mollie Manier <manier@gwu.edu>

GeorgeWashingtonU HominidEvolution

The George Washington University invites applications for a tenure-track/tenured (i.e., Assistant/Associate Professor-level) position in Hominid Paleobiology in the Department of Anthropology, to begin August 1, 2015. We seek candidates that complement the current strengths of the faculty in the Center for the Advanced Study of Hominid Paleobiology (http://-cashp.columbian.gwu.edu).

Essential qualifications: 1) research that focuses on analyzing the morphology of the fossil evidence relevant to human evolution, 2) excellence in research and teaching as demonstrated by publications and course evaluations, 3) an active field and/or laboratory program, 4) evidence of the demonstrated ability or potential to attract external funding for research support; 5) a Ph.D. in Anthropology or a related field in hand by August 1, 2015.

Applicants should complete an online application at http://www.gwu.jobs/postings/23710 and upload a letter of interest, curriculum vitae, and a c.1,000-word statement of research agenda and teaching interests. Finalists will be required to submit three letters from professional referees. Review will begin on *October 31, 2014* and will continue until the position is filled. Only complete applications will be considered. Salary will be commensurate with experience. Questions about the position should be addressed to Bernard Wood, Chair of the Search Committee, at bwood@gwu.edu or 202-994-6077. In addition to completing the online application, applicants should send their application material directly to bwood@gwu.edu.

The University seeks to attract a diverse faculty of the highest caliber; women and underrepresented minorities are particularly encouraged to apply. The university is an Equal Employment Opportunity/Affirmative Action employer that does not unlawfully discriminate in any of its programs or activities on the basis of race, color, religion, sex, national origin, age, disability, veteran status, sexual orientation, gender identity or expression, or on any other basis prohibited by applicable law.

Charlotte Krohn CASHP Senior Secretary Department of Anthropology George Washington University 202-994-0351

“Krohn, Charlotte” <chark629@email.gwu.edu>

ImperialCollege London 2 EvolutionBiodiversity

Imperial College London

Faculty of Natural Sciences

Department of Life Sciences

Two Academic Positions: One post in Ecology & Evolution One post in Biodiversity, jointly appointed between Imperial College London and the Natural History Museum

Lecturer salary in the range £45,950 - £51,200 per annum Senior Lecturer/Reader minimum starting salary: £56,450 per annum Chair minimum starting salary: £71,760 per annum

Imperial College's Department of Life Sciences is looking to make two academic appointments in the broad area of Ecology, Evolution and Biodiversity. The posts will be based at the Silwood Park Campus (http://-www3.imperial.ac.uk/silwoodparkcampus). The Lecturer/Senior Lecturer/Reader/Chair in Ecology & Evolution, will contribute to the mission of the Department of Life Sciences at Imperial College London, and further develop and promote the College's work in ecology and evolution. The purpose of the role is to improve fundamental scientific understanding of biological and ecological processes and systems. In addition, the post holder will be required to contribute to undergraduate and postgraduate teaching within the Department.

The Lecturer/Senior Lecturer/Reader/Chair in Biodiversity will be jointly appointed with the Natural History Museum. In this case, the post holder will contribute to the missions of the Departments of Life Sciences at both Imperial College London and the Natural History Museum, and further develop and promote the College's and Museum's work in biodiversity omics. The purpose of this role is to improve fundamental scientific understanding of biological diversity and systems. In addition, the post holder will be required to contribute to joint postgraduate teaching within both Departments as well as undergraduate teaching at Imperial College London's Department of Life Sciences.

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

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

The potential for productive research collaboration with existing staff within Imperial's Department of Life Sciences, and the College more broadly will also be carefully assessed.

Fellows and previous applicants are welcome to apply.

Please contact Professor Vincent Savolainen (Deputy Head of Life Sciences at Imperial College London, v.savolainen@imperial.ac.uk) for informal queries about both posts. You can also contact Professor Ian Owens (Head of Science at the Natural History Museum, i.owens@nhm.ac.uk) and/or Dr Tim Littlewood (Head of Life Sciences at the Natural History Museum, t.littlewood@nhm.ac.uk) for informal queries regarding the joint appointment with Natural History Museum.

Our preferred method of application is online via our website http://www3.imperial.ac.uk/employment (please select "Job Search" then enter the job title or vacancy reference number including spaces - NS 2014 168 JT into "Keywords"). Please complete and upload an application form as directed.

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ImperialCollege London WildlifeInfectiousDisease

Imperial College London

Research Associate

Reference number: SM208-14 closing date 21st October

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

Salary Range: £29,350 - £33,410 per annum

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 UK Research Councils, 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 discovering new lineages of amphibian-infecting fungi from around the world, comparative genomics of the different lineages, and will seek to identify the regions from which contemporary infections originate.

Funded by the Leverhulme Trust, the project[1]s primary objective is to investigate the spatial epidemiology and molecular evolution of panzootic amphibian chytridiomycosis by: Characterising ancient and modern amphibian-associated chytrids using barcoding of ancient and contemporary DNA; Linking patterns of host-specificity, competition and virulence to the spatial origins of infecting lineages. An initial focus of the project will be the amphibian biodiversity hotspot of Madagascar.

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, programing and webdesign. The position is supported by a full time research assistant for two years This is a full time post for a fixed-term of three years.

The candidate will join a vibrant department of over 130 epidemiologist at Imperial College London, recently ranked joint 2nd in the QS world University rankings.

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

http://www.jobs.ac.uk/job/AJQ415/research-assistant-associate-in-population -genomics-of-wildlife-infections/

matthew.fisher@imperial.ac.uk

Israel FieldAssist SalamanderEvolution

Field Assistant Job in Israel

Location: Tel Dan, upper Galilee and Carmel Mountains, Israel Time: mid October 2014 until January 2015 (~3 months) Language: english or german required Payment: Flight will be covered and there will be a small salary.

Job description We compare how two species of the fire salamander *Salamandra salamandra* in Germany and *S. infraimmaculata* in Israel adapted to different habitat types with often fast fluctuating environÂ'mental conditions. For our second field season in Israel, we are looking for a self motivated, hard working field assistant. The project includes a capture-recapture study of adult salamanders at night. We will do ecological experiments about the larviposition behaviour of the female fire salamanders and the development of the larvae in the Tel Dan nature reserve. In addition, we will also collect tissue samples (tail tips) from larvae at different sites in the north of Israel and transplant larvae between different habitat types to investigate differences in gene expression. The position requires a lot of work in rainy, cool nights (down til 4ÂC) for a capture-recapture project. We take pictures of the adult salamanders to recognize individuals by means of the spot pattern. Night work can take 3-4 hours and sometimes several nights in one week, which can be tiring. Some sites are remote and short hikes, walks through dense vegetation and wading in muddy ditches can be required; though most sites are easy to access. At the beginning of the season we will need to dig holes and set fences in order to build an outdoor enclosure for the female salamanders. You should be familiar with collecting scientific data and have some experience in handling wild animals. It would be an ad-

vantage if you lived abroad before and if you can easily adapt to new situations. There will be regular visits at the Haifa University to see our project partners.

What to expect The north of Israel has some wetland and the jordan river starts in this area. You can visit numerous nature parks and reserves and observe a very rich fauna: hyrax, jackals, antelopes, stellions (Agama), geckos and chameleons. In winter, the area is also home or resting place for many migrating bird species (e.g. 3 kingfisher species, cranes, hoopoes, palestine sunbirds, vultures). The climate in winter is mild, in October between 15-30Â C, and from December to January between 8 - 20Â C. The rainy season lasts from October until March. There will be strong rain but often followed by some dry days or weeks. Since houses are barely insulated, good cloths are of great importance. The north of Israel is as far from Gaza as possible. I was told that things stayed very calm in the north. Notwithstanding the above, there is always a danger from nearby Lebanon and Syria. The risk is lower, since we are in nature reserves and not in a big city.

How to apply? Send a short motivation letter stating why you are interested and your CV via email to e.kuepfer@tu-bs.de. If you have any further questions about the project, dont hesitate to email me.

Eliane Küpfer Zoological Institute - Evolutionary Biology University of Brunswick - Germany (Technische Universität Braunschweig)

Eliane Küpfer <lia.lythle@gmail.com>

LMU Munich Geomicrobiology

LUDWIG-MAXIMILIANS-UNIVERSITÃT MÃNCHEN

As one of Europe's leading research universities, Ludwig-Maximilians-Universität (LMU) in Munich is committed to the highest international standards of excellence in research and teaching. Building on its more than 500-year-long tradition, it offers a broad spectrum that covers all areas of knowledge within its 18 Faculties, ranging from the humanities, law, economics and social sciences, to medicine and the natural sciences.

The Faculty of Geosciences invites applications for a

Professorship (W2) (6 years/tenure track) of Geomicrobiology

commencing as soon as possible.

This Professorship for Geomicrobiology should strengthen the Faculty of Geosciences in research and teaching in the area of Geobiology and Palaeobiology. This professorship is aimed at enhancing interdisciplinary cooperation by investigating the spatio-temporal diversity and dynamics of microorganisms involved in geoscientific processes. Desirable expertise in this context includes the investigation of interactions between bacteria and animals (microbiome/holobiont) and rock-forming processes (e.g., microbial biomineralization) as well as microbial diversity assessments using molecular methods. The establishment of internationally competitive third-party funded research projects is expected. Teaching of the subject area Geomicrobiology is expected in the Bachelor Program "Geosciences" and predominantly in the international Master's Program "Geobiology and Paleontology" (< www.mgap.lmu.de >), methodologically and conceptually supplementing the other professorships.

LMU Munich seeks to appoint a highly qualified junior academic to this professorship and, therefore, especially encourages early-career scholars to apply. Prerequisites for this position are a university and a doctoral degree. With an excellent record in research and teaching to date, prospective candidates will have demonstrated the potential for an outstanding academic career.

The initial appointment will be for six years. After a minimum of three years, it can be converted into a permanent position pending a positive evaluation of the candidate's performance in research and teaching as well as his or her personal aptitude and if all legal conditions are met.

Under the terms of the "LMU Academic Career Program", in exceptional cases and subject to outstanding performance in research and teaching, the position may be converted from a W2 into a W3 Full Professorship at a later date.

LMU Munich makes a point of providing newly appointed professors with various types of support, such as welcoming services and assistance for dual career couples.

LMU Munich is an equal opportunity employer. The University continues to be very successful in increasing the number of female faculty members and strongly encourages applications from female candidates. LMU Munich intends to enhance the diversity of its faculty members. Furthermore, disabled candidates with essentially equal qualifications will be given preference.

Please submit your application comprising a curriculum vitae, documentation of academic degrees and cer-

tificates as well as a list of publications to the Dean of the Faculty of Geosciences, Luisenstr. 37, D-80333 Munich, Germany, no later than 22.10.2014.

< http://www.geo.uni-muenchen.de/-aus_der_fak/stellenangeb_manuell/2014-06-30_geomicrobiology_uk.pdf >

– Prof. Dr. Gert Wörheide Department of Earth and Environmental Sciences, Division of Paleontology & Geobiology & GeoBio-CenterLMU Ludwig-Maximilians-Universität München, and Director, Bavarian State Collections of Palaeontology and Geology Richard-Wagner-Straße 10 80333 München Germany

Phone: +49 (89) 2180-6718 Fax: +49 (89) 2180-6601 E-Mail: woerheide@lmu.de www.palmuc.de | www.mol-palaeo.de Labnews: www.facebook.com/-molpalaeo Tweets: twitter.com/gwoerhe

Lab publications: www.molecularpalaeobiology.eu www.researcherid.com/rid/C-1080-2008 woerheide@lmu.de

Longview Washington USFWS FishPopGenetics

We have the following position opening which I thought some of your subscribers might be interested in:

USAJOBS, position number FS-1206215-ET14

URL: https://www.usajobs.gov/GetJob/ViewDetails/-380655200 Position: Interdisciplinary Geneticist or Fish Biologist

Agency/Location: U. S. Fish & Wildlife Service, Longview, WA

Responsibilities: Takes the lead in genetic data collection, analysis, report writing, and provides overall technical coordination for a variety of projects working with different fish species and genetic analysis methods (e.g. to address questions of population structure, population assignment, relative reproductive success, and species and sex identification). Incorporates these data into written reports, scientific publications, and oral presentations.

Qualifications: Masters degree with work experience or PhD. Extensive work experience in: the principles, theories, and techniques of molecular and population genetics in order to determine pedigree relationships based on multi-locus genotypic data; genetic analytical and statistical techniques for determination of parentage, genetic variation within and among populations, population assignment, population structure, and hybrid status; and demonstrated oral and written communications skills.

Salary: $57,982.00 to $75,376.00 / Per Year

Closing Date: Tuesday, October 7, 2014

Christian Smith Abernathy Fish Technology Center 1440 Abernathy Creek Road Longview, WA, 98632 phone: 360.425.6072 x339

"Smith, Christian" <christian_smith@fws.gov>

MaxPlanckInst Leipzig RatEvolution

POSTDOCTORAL POSITION - DOMESTICATION EFFECTS ON BITING PERFORMANCE IN RATS Max Planck Weizmann Center for Integrative Archaeology and Anthropology, Leipzig, Germany

The Max Planck Weizmann Center for Integrative Archaeology and Anthropology at the Max Planck Institute for Evolutionary Anthropology, Leipzig (Germany) invites applications for a post-doctoral position to work on a collaborative project to study the effect of domestication on bite force performance and skull and muscle anatomy in rats.

We are seeking a highly qualified and motivated candidate with experience in in vivo bite force measurements, anatomical dissection, muscle physiology, microscopy, histology, immunohistochemistry, CT imaging and/or geometric morphometrics.

This position is set to begin as soon as 1 November 2014, and applications will be considered until the position is filled. The initial length of the appointment will be one year, with an option for extension. The selected candidate should have a Ph.D. (or be close to completion) in a relevant area and a significant track record of research. The Max Planck Society is committed to employing more physically impaired individuals and to increasing the share of women in areas where they are underrepresented, and therefore expressly encourages applications from such qualified individuals.

Applications including cover letter, curriculum vitae, reprints of selected publications, a short statement of research interests and the names of at least

two referees should be sent as a single PDF document to Dr Kornelius Kupczik (kupczik@eva.mpg.de). For further information about the Max Planck Weizmann Center see http://www.eva.mpg.de/mpwc . – PD Dr. Kornelius Kupczik Max Planck Weizmann Center for Integrative Archaeology and Anthropology Max Planck Institute for Evolutionary Anthropology Deutscher Platz 6, 04103 Leipzig, Germany Tel.: +49 (0)341 3550 860 (Sec.) Tel.: +49 (0)341 3550 861 (office) http://www.eva.mpg.de/mpwc Kornelius Kupczik <kornelius_kupczik@eva.mpg.de>

Melbourne EpilepsyStatisticalGenetics

Research Officer Bioinformatics Division The Walter and Eliza Hall Institute of Medical Research Parkville, Australia

An opportunity exists for a research officer to join the Bahlo laboratory in the Bioinformatics Division at The Walter and Eliza Hall Institute of Medical Research (WEHI) working jointly with Professors Sam Berkovic and Ingrid Scheffer at the Epilepsy Research Centre (ERC), Heidelberg.

The WEHI Bioinformatics Division is one of the largest bioinformatics research groups in Australia, with a reputation for developing statistical and computational methodology that has become widely used around the world. The Bahlo lab has developed methods for the analysis of familial genetic data, including next generation sequencing data, that has led to the discovery of over ten novel genes, including several epilepsy genes (Berkovic et al, 2008 AJHG, Corbett et al, 2010 AJHG, Corbett et al, 2011 AJHG, Arsov et al, 2011 AJHG, Smith et al, 2012 AJHG, Smith et al, 2013 HMG). The ERC group discovered the first gene for epilepsy and are the acknowledged international leaders in the clinical and molecular genetics of epilepsy so this joint position is a special opportunity to work with two world leading laboratories.

The appointee will undertake bioinformatics analyses of genetic data generated for family and cohort studies in epilepsy. The data will be primarily next generation sequencing data from either whole-exome or whole-genome sequencing. The research officer will oversee several exciting studies, analysing data and managing the research outcomes from these projects. The work is highly likely to lead to high-impact publications with the expectation of presentations at national and international conferences. The research officer will use advanced bioinformatics tools developed at the WEHI and elsewhere and will have access to high quality computing facilities.

Applicants with a recent higher degree in a relevant discipline are welcome to apply. Relevant disciplines include computer science, mathematics, statistics, computational biology or genetics. Applicants need to have experience in the analysis of next generation sequencing data and a good understanding of genetics. The position requires high-level project-management skills, strong programming and data analysis skills and, in particular strong communication skills to ensure excellent communication as a key person working between the two laboratories.

The positions will be for 2 years in the first instance with a probation period of 6 months. Salary is dependent upon qualifications and experience. Up to 17% superannuation and attractive salary packaging options are available.

The research officer will report to Melanie Bahlo, Sam Berkovic and Ingrid Scheffer. The successful applicant will spend one day a week at the Epilepsy Research Centre in Heidelberg.

See www.wehi.edu.au/career_opportunities/-research_officer_bioinformatics_division for further details, including a position description. General enquiries should be directed to Associate Professor Melanie Bahlo (bahlo@wehi.edu.au).

Written applications including cover letter, CV and the names of 3 professional referees should be emailed in PDF format quoting WEHI/MKRO to jobapplications@wehi.edu.au.

Closing date: Friday 19th September 2014.

A/Prof Melanie Bahlo ARC Future Fellow Honorary NHMRC SRF Bioinformatics Division The Walter and Eliza Hall Institute 1G Royal Pde Parkville VIC 3052

Ph: +613 9345 2630 Fax: +613 9347 0852

bahlo@wehi.edu.au http://bioinf.wehi.edu.au/ bahlo@wehi.EDU.AU

MichiganStateU EvoDevo

Tenure Track Faculty Position in Evolutionary Developmental Biology Now Open

The Zoology Department at Michigan State University (http://www.zoology.msu.edu) is seeking applications for a tenure-track faculty position at the Assistant Professor level to join a vibrant community of researchers with research strengths in evolution and organismal biology. In addition, we are actively building in the areas of genomics, transgenics, and development. All areas of evolutionary developmental biology will be considered; we are particularly interested in candidates working in animal-related systems. The applicant must hold a Ph.D. degree or equivalent (e.g., D. Phil.) in a biology-related field and show evidence of significant and productive research experience. Successful applicants will be expected to establish an externally funded research program that supports graduate training, and to teach both undergraduate and graduate courses. A competitive start-up and compensation package will be offered commensurate with the applicants experience and qualifications.

Michigan State University (MSU) values and provides strong support for research collaborations across departments and programs. The successful candidate will have the opportunity to participate in many interdisciplinary programs, including programs in Ecology, Evolutionary Biology, and Behavior; Genetics; Cell and Molecular Biology; and Neuroscience as well as the NSF-funded BEACON Center for the Study of Evolution in Action.

MSU is an affirmative action, equal opportunity employer and is committed to achieving excellence through a diverse workforce and inclusive culture that encourages all people to reach their full potential. We actively encourage applications from women, persons of color, veterans, and persons with disabilities. 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 positions.

To ensure full consideration, applications should be uploaded as a single PDF that includes a letter of interest, curriculum vitae, URLs for three significant publications, summary of research accomplishments and goals, description of teaching philosophy highlighting accomplishments and goals, and a description of mentoring experience and commitment to diversity (https://jobs.msu.edu; position number 0189). The application should also contain the names and email addresses of three referees from whom letters of recommendation may be solicited. The position will remain open until filled. Review of applications will begin on November 7th. Please direct any inquiries to the search committee chair, Heather Eisthen, at zoolsrch@msu.edu.

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

MichiganStateU QuantEvolution

Faculty Position in Quantitative Evolution or Ecology

Michigan State University

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

With 136 graduate students and over 100 participating faculty, EEBB at MSU is one of the most successful graduate training programs in the world. The EEBB core curriculum provides students with broad training encompassing experimental, field, and theoretical approaches to the study 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 opportu-

nity to participate in the NSF-funded BEACON Center for the Study of Evolution in Action < http://beacon-center.org/ >.

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

Application materials should be submitted to the MSU Applicant Page (MAP) for faculty positions (online at https://jobs.msu.edu < https://jobs.msu.edu/ >; posting number 0194) as a single, concatenated pdf document that includes: a letter of interest, CV, a statement of research accomplishments and goals, and a statement of teaching accomplishments and goals. The research and teaching statements should highlight the applicant's approach to achieving excellence through diversity. Three letters of recommendation should be submitted through the automated MAP/COMPASS web site.A separate pdf file containing three representative publications should be sent directly to the Search Committee at eebbsrch@msu.edu.

Applications will be accepted until the position is filled.Review of applications will begin on 3 November 2014.

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

Ecology, Evolutionary Biology and Behavior Program Kay E. Holekamp, Director Pat Resler, Secretary

293 Farm Lane, Rm. 103 Giltner Michigan State University East Lansing, MI 48824

Phone: (517) 432-1359 E-mail: eebb@msu.edu Website: www.eebb.msu.edu EEBB Office <eebb@msu.edu>

MichiganTechU EvolutionaryMicrobiology

Subject: Tenure Track Assistant Professor Position in Microbiology

The Department of Biological Sciences at Michigan Technological University invites applications for a tenure-track Assistant Professor position in microbiology, with particular focus in environmental microbiology or microbial ecology. Areas of research interest may include: microbial genomics or evolution, community dynamics, nutrient cycling, environmental toxicology, remediation and restoration, and host-microbe interactions. Job expectations include establishing an externally funded research program complementary to the interests of the department and university and successful teaching at the undergraduate and graduate levels in area of expertise. Applicants must hold a Ph.D. in microbiology or a related field and post-doctoral experience is strongly preferred.

Additional information about this position, the Biological Sciences Department and its programs can be found at website: www.mtu.edu/biological/ Applications should be submitted electronically to www.jobs.mtu.edu/posting/1898. For consideration, the application should include: 1) curriculum vitae; 2) research statement (maximum 2 pages); 3) statement of teaching interests and philosophy (maximum 2 pages), 4) complete contact information for 4 references. Applications are due at 5 pm EST October 13, 2014. Direct inquires to Microbiology Search Committee Chair (microbiosearch@mtu.edu).

Michigan Tech is an ADVANCE institution, located in the Upper Peninsula of Michigan, one of a limited number of universities in receipt of NSF funds in support of our commitment to increase diversity and the participation and advancement of women in STEM. Michigan Tech. acknowledges the importance of supporting dual career partners in attracting and retaining a quality workforce. Visit: www.dual.mtu.edu. Michigan Technological University is an Equal Opportunity Educational Institution/Equal Opportunity Employer, which includes providing equal opportunity for protected veterans and individuals with disabilities.

Thank you,

Erika Hersch-Green

Erika Hersch-Green Department of Biological Sciences Michigan Technological University 1400 Townsend Drive Houghton, MI 49931 Office: 906-487-3351 Fax: 906-487-3167

Erika Hersch-Green <eherschg@mtu.edu>

MonashU Genetics

Dear Evoldir community,

The School of Biological Sciences at Monash University is currently advertising for a Lecturer (~assistant professor) in Genetics, broadly defined.

The biology department at Monash University, and Australia in general, are strongly supportive of research in ecology and evolution. I hope this position will be of interest to many here at Evoldir. Please note the submission deadline of September 25, 2014 (Australian Eastern Standard Time)

To view a detailed Position Description and to submit an application, please visit: http://-www.monash.edu.au/jobs/ Enter 526992 in the search field and click Go.

tim.connallon@monash.edu

NewCollege Florida PlantEvolution

New College of Florida invites applicants for a tenure-track position in Plant Biology at the assistant professor level starting in August 2015. We seek a broadly trained candidate with a Ph.D. in the biological sciences. Research interests incorporating aquatic botany, toxicology, and/or microbiology are desirable. The successful candidate must be committed to excellence in teaching and research. New College, on Florida's Gulf Coast, is a nationally recognized, highly-selective public honors college with a 11:1 student:faculty ratio. Students receive narrative evaluations in lieu of grades. The teaching load is two classes per semester, plus supervision of tutorials, independent study projects, and senior thesis projects. Undergraduate research has a central role in the curriculum, and a senior thesis is required of all students. The successful candidate is expected to establish and maintain a program of research appropriate to a quality liberal arts and sciences college. New College is especially interested in candidates who can contribute to the diversity and excellence of the academic community through research, teaching and service. For details: http://www.ncf.edu/search/. An online application: https://ncf.simplehire.com/ should be completed. A complete application will include a cover letter, curriculum vitae, names of 3 references, a statement of teaching philosophy and interests, undergraduate and graduate transcripts, and a description of proposed research including how undergraduates will be involved. Review of completed applications will start Oct. 10, 2014 and continue until the position is filled. NCF is an EOE/AA employer.

Colleen Swessel <swessel@ncf.edu>

NHM LosAngelesCounty Curator

Curator, Rancho La Brea The Natural History Museum of Los Angeles County (NHM) seeks a Curator for its renowned late Pleistocene Rancho La Brea collections housed at the Page Museum at the La Brea Tar Pits. The successful candidate will conduct collection-based research in evolutionary biology and paleoecology including systematics, biogeography, climate change, and biodiversity science. The NHM, the largest natural history museum in the western United States, has recently finished a dramatic transformation including new ground-breaking exhibitions and a 3 $\frac{1}{2}$ acre wildlife garden. It anticipates completing a similar transformation at the Page Museum facility and adjacent La Brea Tar Pits during the next decade. The NHM's mission is to inspire wonder, discovery, and responsibility for our natural and cultural worlds. Our strategic intent-"To be the best at communicating how our planet and life on it changes over time and why this matters"- guides our priorities for the next decade. The successful candidate will have a record of outstanding research and publications as well as excellent communication skills, a talent for collaboration across disciplines and an innate ability to engage and enthuse the public and stakeholders through his/her work.

The Page Museum is the site museum for the La Brea Tar Pits, one of the world's richest Ice Age fossil sites that has to date yielded an estimated 5 million specimens representing more than 600 species of animals and plants of Late Pleistocene age. These collections afford a huge potential for a broad array of research and public programs and are continuously growing through ongoing excavations. The successful candidate will be responsible for developing a dynamic, productive, and scientifically significant program of research to build a growing scientific and public profile, overseeing the de-

velopment and curation of important collections, maintaining and strengthening the NHM's presence in key professional and governmental networks, and establishing active internal NHM collaborations, especially with the Education and Exhibits, Marketing and Communications, and Advancement Departments.

The successful candidate will have a Ph.D., a strong track record of published research, and experience in generating funding to support research. His/her demonstrated talent for successful public communications will enhance collaborations with non-scientists in the NHM's Education and Exhibits, Marketing and Communications and Advancement Departments. Experience in collections management would be an advantage, as would an interest in creative ways of engaging the public in research (e.g., citizen science). The Curator will be expected to develop an active and publically engaging research program, develop working relationships with local universities, mentor students and postdoctoral fellows, and maintain research through obtaining competitive grants and/or funding from other external sources. The candidate must have the vision and capability to build a research program that can be integrated within the NHM's ongoing efforts to document and interpret biotic responses to environmental change. He/she will manage the collection's growth and undertake research in ways that increase both its scientific and public appeal.

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

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

Application deadline is December 1st, 2014. The starting date is July 1st, 2015. Applicants should send a cover letter, curriculum vitae, salary history, and the full contact information of at least three professional references to thayden@nhm.org, Page Museum Curatorial Search, Research & Collections, Natural History Museum of Los Angeles County, 900 Exposition Blvd., Los Angeles, CA 90007, USA.

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

Tyler W. Hayden Administrative Assistant Research and Collectins Natural History Museum of Los Angeles County 900 Exposition Boulevard Los Angeles, CA 90007

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

NHM LosAngelesCounty CuratorDinosaurs

Curator, Dinosaur Institute Natural History Museum of Los Angeles County

The Natural History Museum of Los Angeles County (NHM) seeks a Curator (Assistant or Associate level) specializing in the study of non-avian dinosaurs to conduct collection-based research in evolutionary biology including taxonomy, systematics, ontogeny, functional morphology, and biogeography. 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 Â$\frac{1}{2}$ acre wildlife garden. The NHM's mission is to inspire wonder, discovery, and responsibility for our natural and cultural worlds. Our strategic intentâ"To be the best at communicating how our planet and life on it changes over time and why this matters"âguides our priorities for the next decade. The successful candidate will have a record of outstanding research and publications as well as excellent communication skills, a talent for collaboration across disciplines and an innate ability to engage and enthuse the public and stakeholders through his/her work.

The NHM holds important collections of non-avian dinosaurs and other Mesozoic tetrapods. These collections afford a huge potential for a broad array of research and public programs and are continuously growing through ongoing field efforts. The successful candidate will be responsible for developing a dynamic,

productive, and scientifically significant program of research to build a growing scientific and public profile, overseeing the development and curation of important collections, maintaining and strengthening the NHM's presence in key professional and governmental networks, and establishing active internal NHM collaborations, especially with the Education and Exhibits, Marketing and Communications, and Advancement Departments.

The successful candidate will have a Ph.D., a strong track record of published research, and experience in generating funding to support research. His/her demonstrated talent for successful public communication will enhance collaborations with non-scientists in the NHM's Education and Exhibits, Marketing and Communications, and Advancement Departments. Experience in collections management would be an advantage, as would an interest in creative ways of engaging the public in research (e.g., citizen science). The Curator will be expected to develop an active and publically engaging research program, develop working relationships with local universities, mentor students and postdoctoral fellows, and maintain research through obtaining competitive grants and/or funding from other external sources. The candidate must have the vision and capability to build a research program that can be integrated within the NHM's ongoing efforts to understand the evolution of dinosaurs. He/she will manage the collection's growth and undertake research in ways that increase both its scientific and public appeal.

The ability to communicate effectively and engage with a wide variety of audiences, including the public and the NHM's various stakeholders is paramount. The successful candidate will be expected to help oversee staff and supervise the NHM's dinosaur programs including collections and field efforts. He/she will actively participate in a broad range of museum activities, such as exhibits, education, outreach, training of educators, public communications including, but not limited to, media interactions, and fundraising. The Curator will also be responsible for building productive ties with local universities, professional associations, educators, and other relevant organizations within the scientific and general community.

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

Application deadline is December 1st, 2014. The starting date is July 1st, 2015. Applicants should send a cover letter, curriculum vitae, salary history, and the full contact information of at least three professional references to thayden@nhm.org, or Dinosaur Institute Curatorial Search, Research & Collections, Natural History Museum of Los Angeles County, 900 Exposition Blvd., Los Angeles, CA 90007, USA.

The Natural History Museum of Los Angeles County is an Equal Opportunity Employer. Please, no phone calls, no fax.

Gregory B. Pauly, Ph.D. Natural History Museum of Los Angeles County 900 Exposition Boulevard Los Angeles, CA 90007 213-763-3212 (work) 213-747-0204 (fax) www.nhm.org/herpetology www.facebook.com/-LACMherps www.inaturalist.org/projects/rascals Gregory Pauly <gpauly@nhm.org>

NMNH Smithsonian VertebrateEvolution

Research Zoologist Department of Vertebrate Zoology National Museum of Natural History Smithsonian Institution

Potential applicants: Please note that with this advertisement we seek to recruit a career Research Zoologist for our department. The position has a four-year probationary period similar to the academic tenure system. With a satisfactory career review after four years, the incumbent can become a permanent Federal employee. The official advertisement is below.

The Smithsonian's National Museum of Natural History seeks a zoologist to conduct an integrative, specimen- or collection-based research program in vertebrate evolution and biodiversity, in the disciplines of herpetology, ichthyology, mammalogy, and/or ornithology, particularly herpetology. The successful candidate is expected to develop an internationally recognized research program that makes important contributions to understanding vertebrate evolution and biodiversity through integrative research involving phylogenetics, anatomy, development, genomics, biogeography, conservation, informatics, or related fields. Frequent publication of highly regarded papers in competitive, peer-reviewed journals, curation of collections in specialty area, service to the scientific community in leadership capacities, acquisition of external funding, engagement in outreach activities, and mentorship of students are expected.

Full-time 4-year term appointment with full Government benefits to be filled at the GS-12 level; US citizenship required. The museum's authorized salary range for this position at this time is $75,621 - $80,662

per annum. College transcripts and proof of U.S. accreditation for foreign study must be submitted online by the closing date of announcement or your application will be disqualified. For complete requirements and application procedures go to www.sihr.si.edu or www.usajobs.gov and refer to Announcement 14A-JW-299546-DEU-NMNH. The announcement opens Monday, September 29, 2014. Applications and all supporting documentation must be received on-line by Monday, October 27, 2014 and must reference the announcement number. All applicants will be notified by email when their application is received. The Smithsonian Institution is an Equal Opportunity Employer.

Thanks very much,

Helen James Research Zoologist and Curator Division of Birds, MRC-116 National Museum of Natural History Smithsonian Institution Washington DC 20013-7012 Ph. 202-633-0792

"James, Helen" <JAMESH@si.edu>

OccidentalCollege ComputationalBiology

Dear Colleagues,

Please see below our ad for a tenure-track Computational Biologist. The Biology Department at Occidental College is vibrant and growing, with emphasis on both research and teaching excellence. The research angles mentioned in the ad are just a few examples. We encourage all those with an interest who meet the basic requirements to apply.

Best, John McCormack

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The Department of Biology at Occidental College invites applications for a tenure-track faculty position in Computational Biology at the Assistant Professor level to expand its teaching and research offerings in the understanding of living systems through analytical and quantitative techniques. The ideal candidate will apply computational approaches to analyze large, complex data sets in biology, possibly including functional and evolutionary genomics, proteomics and protein folding, systems biology, eco-informatics (such as geospatial analysis), neurobiology, bioengineering, modeling, or bio-imaging informatics.

Applicants should have a Ph.D. in Biology or related field (with postdoc experience preferred) and a strong commitment to educating undergraduates through teaching and research. The successful candidate will participate in teaching an introductory or intermediate level biology course as well as an intermediate or upper level course in the area of specialty, and to develop a rigorous, externally fundable research program involving undergraduates.

Occidental is a nationally ranked small liberal arts college, located in the culturally-rich Los Angeles neighborhoods of Eagle Rock and Highland Park, near Caltech, the Jet Propulsion Lab, the Natural History Museum, and other major research institutions. The College's location allows convenient access to marine and terrestrial research facilities. Occidental is recognized for its diverse student body and its outstanding undergraduate research program. The neighborhood surrounding the College is home to a wealth of urban amenities and major cultural attractions nearby.

Applicants should submit the following: (1) a letter of interest demonstrating a commitment to academic excellence in a liberal arts environment (2 pages suggested), (2) a statement concerning instruction in a socioeconomically, ethnically, culturally and intellectually diverse environment, (3) a statement of research interests (2-3 pages), (4) a statement of teaching philosophy (2-3 pages), (5) evidence of teaching effectiveness, if available, and (6) a curriculum vitae. At the end of the cover letter, please include contact information for three references. Letters are not needed at this time and will be requested after an initial screening. Application materials should be addressed to Dr. Dan Pondella, Chair, Computational Biology Search, and sent by e-mail to biology@oxy.edu. Review of applications will begin on October 13, 2014.

Occidental College is an equal opportunity employer. Women and minority candidates are encouraged to apply. The College is committed to academic excellence in a diverse community and supporting interdisciplinary and multicultural academic programs that provide a gifted and diverse group of students with an educational experience that prepares them for leadership in a pluralistic world.

–

John McCormack

Director/Curator, Moore Laboratory of Zoology

Assistant Professor, Biology Department

Occidental College

1600 Campus Rd.

Los Angeles, CA 90041

323-259-1352

http://faculty.oxy.edu/mccormack mccormack@oxy.edu

OhioStateU ArthropodSystematics

Department: Department of Evolution, Ecology, and Organismal Biology (EEOB) and the Department of Entomology

Position: The Martha N. and John C. Moser Chair in Arthropod Biosystematics and Biological Diversity

Rank: Assistant or Associate professor

Description and Qualifications:

The Department of Evolution, Ecology, and Organismal Biology (EEOB) and the Department of Entomology of The Ohio State University seek applicants for The Martha N. and John C. Moser Chair in Arthropod Biosystematics and Biological Diversity. We seek a colleague taking a lineage-focused approach to questions in evolution and ecology of terrestrial or freshwater arthropods. We are especially interested in those scientists using novel approaches and those who enhance existing strengths of the departments and the Museum of Biological Diversity in phylogenetic systematics, species discovery and description, biodiversity informatics, population genetics, or evolution of character systems or interspecific interactions.

The Moser Chair will be jointly appointed in EEOB and Entomology and will contribute to the research, mentoring, and teaching missions of both departments. S/he will be expected to develop a nationally recognized, externally funded research program that includes opportunities for graduate and undergraduate students. Teaching duties will include graduate-level classes in insect systematics, undergraduate core courses in EEOB or the Center for Life Sciences Education, and specialty classes in his/her research focus.

This endowed, tenure-track position is open to applicants at the level of either Assistant or Associate Professor. Applicants are expected to hold a PhD and to have postdoctoral experience. The successful applicant will have a demonstrated record of excellence in research and a commitment to the highest quality of graduate and undergraduate teaching. We offer competitive resources for initial laboratory development and a collaborative, integrative research environment.

Application Instructions: Applicants should submit a cover letter, curriculum vitae, a statement of research goals and teaching/mentoring philosophy, and contact information for three references. Inquiries may be directed to Dr. Marymegan Daly (daly.66@osu.edu 614-247-8412), Chair of the search committee or to the other members of the search committee: Dr. Bryan Carstens (Carstens.12@osu.edu), Dr. Norman Johnson (Johnson.2@osu.edu); Dr. Hans Klompen (Klompen.1@osu.edu), or Dr. Joseph Raczkowski (Raczkowski.5@osu.edu). Review of applications will begin on November 1, 2014. We encourage submission before that date, but applications will continue to be accepted until the position is filled. Please apply online through Academic Jobs Online at: http://academicjobsonline.org . The Ohio State University is an equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation or identity, national origin, disability status, or protected veteran status. Ohio State is an NSF Advance Institution.

daly.66@osu.edu

OkinawaInst ScienceTech EvolutionaryBiology

I have attached a word document containing plain text for the advert. Although the adverts states that the position is for the field of " biology including cell biology, mammalian developmental biology or stem cell biology," we do not want to limit the position in these fields only.

Best regards, Connie

Professor in Biology [Reference V1404] The Okinawa Institute of Science and Technology (OIST) Graduate University (http://www.oist.jp) invites applications for at least one appointment, including a tenured professor in Biology. We seek dynamic scientists with visionary leadership and an outstanding record of scholarly achievement in biology including cell biology, mammalian developmental biology or stem cell biology. Applicants should have a PhD or equivalent degree, with an established international reputation for excellence and innovation in research. Successful candidates will be expected to lead an internationally-recognized research program, to contribute to the teaching and supervision of graduate students, and to participate in

the academic life and governance of OIST. Generous institutional support will be provided, including startup costs, researcher salaries, operating costs and space in striking new laboratory buildings. OIST has 52 faculty members and over 380 researchers, with opportunities for collaboration in a wide range of fields including life sciences such as cell biology, neurobiology, developmental biology, evolutionary biology, genomics, structural biology, immunology, plant epigenetics and systems biology; physical sciences such as interface science, nanotechnology, novel 2D materials and heterostructures, organic and inorganic functional materials, photocatalytic and energy materials, quantum optics, quantum materials, and surface science; and chemistry including bioengineering chemistry, organic synthetic chemistry, nucleic acid chemistry, and coordination chemistry. OIST emphasizes interdisciplinary research based on strong core research areas. There are no departments, and the laboratory design is open. Research resources and equipment are managed to encourage easy access and collaborative research. OIST is an English-language graduate university, offering a world-class research environment in an area of distinctive culture, unique ecology, and outstanding natural beauty. The research community is highly international, with faculty, staff and students drawn from over 40 different countries. Attractive housing, after-school programs, and child care in a specially designed Child Development Center, are all available on campus. OIST Graduate University is an equal opportunity, affirmative action educator and employer, and is committed to increasing the diversity of its faculty. The University strongly encourages women and minority candidates to apply. More details regarding the advantages of working at OIST, and instructions on how to apply are available from https://groups.oist.jp/facultypositions. For more information about this position, please contact the search committee at biology-search@oist.jp. The deadline for application is 30th November 2014. Interviews will be held on the OIST campus in January and February 2015.

Connie Elizabeth Naka <connie.naka@oist.jp>

OklahomaStateU PlantBiology

TENURE TRACK, ASSISTANT PROFESSOR PLANT BIOLOGY (ANY SPECIALTY OR STUDY SYSTEM) DEPARTMENT OF BOTANY OKLAHOMA STATE UNIVERSITY APPLICATION REVIEW BEGINS NOVEMBER 1, 2014

The Department of Botany at Oklahoma State University in Stillwater (http://botany.okstate.edu) seeks to hire a tenure-track Assistant Professor in Plant Biology to begin August 2015. The ideal candidate will address fundamental questions in biology with a focus on plants, and will complement or build upon departmental strengths in cell and molecular biology, evolutionary biology, and ecology. The successful applicant will contribute to undergraduate and graduate teaching and mentoring, and is expected to build an innovative externally-funded research program. Ph.D. in plant biology or related field is required; postdoctoral experience is desired. Submit application to mary.kendall@okstate.edu. In a single pdf, include cover letter, CV, statements of research accomplishments and future objectives, teaching philosophy and goals, and contact information for at least four references. Review of applications will begin November 1 and continue until position is filled, contingent upon available funding. Contact information: Linda Watson, linda.watson10@okstate.edu, 405-744-5559. http://botany.okstate.edu Oklahoma State University is an AA/EEO/E-Verify employer committed to diversity. All qualified applicants will receive consideration for employment and will not be discriminated against based on race, color, religion, sex, national origin, disability or protected veteran status. OSU-Stillwater is a tobacco-free campus.

mark.fishbein@okstate.edu

OldDominionU PlantEvolution

OLD DOMINION UNIVERSITY J.ROBERT STIFFLER ENDOWED PROFESSORSHIP IN PLANT SCIENCE

The Department of Biological Sciences at Old Dominion University (http://web.odu.edu/scilbiology/-index.html), a state-supported Doctoral Research-Extensive institution invites applications and nominations for the endowed J. Robert Stiffler Professorship of Plant Science at the tenured/tenure track Professor or Associate Professor level. All candidates must demonstrate substantial research accomplishments with an established record of publications, a consistent record of independent peer-reviewed funding, have active competitive grants and a strong and successful graduate and undergraduate teaching and student mentoring

record. Candidates with research programs and teaching expertise in one or more of the following areas are preferred: (1) molecular systematics, (2) plant conservation biology, (3) biogeography and/or phytogeography, (4) plant/animal interactions, and/or (5) ethnobotany. Experience in advanced genomics or transcriptomics is desirable. The ideal candidate will be active in university undergraduate and graduate programs, utilizing resources from the Norfolk Botanical Garden. Research related to the objectives Kaplan Orchid Conservatory and/or Blackwater Ecological Preserve is desirable. Applicants must have a Ph.D. or an equivalent degree in Plant Science, Botany or a closely related field. State salary support, funds from the endowment income of the J. Robert Stiffler Professorship and a competitive start-up package are available. The Department of Biological Sciences receives substantial support from state funds, from research grants from federal and other granting agencies and from endowment income funds. The Department has strong Ph.D. and M.S. graduate programs with over 100 students. The College of Sciences and the Department of Biological Sciences are undergoing a major expansion of research and educational programs. Five new faculty members joined the Department of Biological Sciences over the last two years and active searches for two additional faculty positions are in progress. Research and training grant expenditures increased in the College of Sciences by 44% over seven years to approximately $16M in FY 2013-14. Old Dominion University (www.odu.edu) is a state-supported, Carnegie doctoral research extensive institution enrolling approximately 25,000 students including 5,000 graduate students.

Please submit electronically a curriculum vitae, a statement of research and teaching interests, and names, telephone numbers, and addresses (postal and email) of four references to: Professor Lytton John Musselman, Mary Payne Hogan Professor of Botany, Chair, Stiffler Search Committee at hortsearch@odu.edu Review of applications will begin immediately and continue until the position is filled.

Old Dominion University is an Affirmative Action/Equal Opportunity Institution and requires compliance with the Immigration Reform and Control Act of 1986.

Daniel P. Hennelly Old Dominion University Office of Academic Affairs 2021 Koch Hall Norfolk, VA 23529-0011 Phone: 757 683-4559 FAX: 757 683-6888

"Hennelly, Daniel P." <dhennell@odu.edu>

PacificU Oregon EvolutionaryBiol

The Biology Department at Pacific University invites applications for a tenure-track Assistant/Associate Professor of Biology in Evolutionary Biology to begin August 2015. We prefer taxonomic expertise in plants or fungi, but candidates with interests in other organisms will also be considered. Research interests should complement those of current faculty. This appointment will be at the rank of Assistant or Associate Professor (depending on qualifications).

Applicants must have a Ph.D. in a relevant discipline (post-doctoral experience preferred), teaching experience, and demonstrated commitment to excellence in teaching as well as scholarship involving undergraduates. Teaching responsibilities will include lower division courses (introductory biology, or new sophomore level courses in genetics or cell biology), one or more upper division courses in area(s) of expertise, and departmental service courses for majors or non-majors. The average teaching load is 10-12 contact hours/semester (including labs); a common course load is 3 lectures and 4 labs per academic year. Faculty also mentor senior capstone projects (literature reviews or research projects).

We seek a collegial scholar-teacher whose research interests complement existing expertise in the department. We expect the successful candidate to establish an active research program with undergraduates. The research program must be successful and feasible in our liberal arts college setting; it should also be attractive to our student body, which includes many preparing for professional school in the health professions (e.g., optometry, physical therapy, pharmacy) as well as some pursuing teaching, environmental biology, and other professional work in the life sciences. Our research facilities include a greenhouse, and start-up funds are provided.

Pacific University is particularly interested in candidates who can contribute, through their research, teaching, or service, to the diversity and excellence of the academic community.

Minimum requirements for the position are a Ph.D. in Biology, or equivalent terminal research-based degree; one year college or university teaching experience (TA or instructor); and research experience and expertise in evolution.

Pacific University is an independent, comprehensive university in Forest Grove, Oregon (about 25 miles west of Portland). The Biology department is part of the College of Arts and Sciences (ca. 1700 students), a liberal arts undergraduate college where faculty and staff are committed to an intimate, personalized education. The University also includes a College of Health Professions (including Physical Therapy, Occupational Therapy, Physician Assistant Studies, Pharmacy, Dental Science and Professional Psychology), a College of Optometry, a College of Business, and a College of Education.

The Biology Department currently has 10 permanent faculty members and 2 laboratory support staff. We are committed to learning through discovery in both the laboratory and the classroom. We graduate 35-50 majors each year. Many of our graduates pursue graduate or professional study in the health sciences or careers in teaching, biology research, or environmental biology.

Application materials Please submit:

1. a cover letter that addresses your preparation/promise to teach in a liberal arts college with many pre-health professions students

2. CV

3. a teaching philosophy, with a separate section identifying courses you would feel qualified and comfortable teaching (upper and lower division)

4. a research statement, which should include a brief summary of prior research, a research plan for a liberal arts institution, and an argument for how your research program at Pacific would attract and involve undergraduates. Selection criteria will include feasibility of research plan and fit to our department and student body.

5. Unofficial graduate and undergraduate transcripts

6. Arrange for three letters of reference (at least one of which speaks directly to teaching ability and experience) to be submitted directly.

7. In October, candidates on our short list may be requested to submit evidence of teaching experience and excellence, such as teaching evaluations, reports from observers, or examples of teaching materials; please do not include these materials with your initial application.

Please combine application materials 1-4 into a single file (.pdf or .doc), in the order listed above, with the following naming: Last name, First name, Evolution 2014.

Send applications electronically to Patty Larkins (address below); put Evolutionary Biology 2014 as the subject in your e-mail.

Patty Larkins, plarkins@pacificu.edu

Administrative Assistant, School of Natural Sciences, Pacific University

Review of applications will begin October 3 and continue until the

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Portugal Bioinformatics

Two research positions in Bioinformatics, Computational Biology and NGS data analysis

CIBIO-InBIO (http://cibio.up.pt) is a young and highly dynamic research centre located near Porto, in Northern Portugal, which conducts world-class research in the fields of biodiversity and evolution. The Centre offers great opportunities for multidisciplinary and stimulating research and hosts 18 research groups, which include over 170 PhD level researchers, and over 100 MSc and PhD students, from many different countries. The working atmosphere is vibrant, multicultural and enthusiastic, and we host regularly international scientists for short term visits. The Centre has state of the art ecology and molecular laboratories (equipped with multiple PCR rooms, automated sequencers, real-time PCR machines, etc), and a brand new Illumina Next-gen Sequencing Platform. Research projects are performed at a global scale. The Northern region of Portugal provides rich cultural and outdoor activities and Porto is a world-heritage city and the capital of Port wine.

We are currently looking for two talented researchers to join our research centre to create a new Research Group in the fields of Bioinformatics/Informatics, Computational Biology and NGS data analysis. Researchers will contribute to several research lines and frontier projects in human genomics, domestication, and challenging de-novo sequencing projects for non-model species. Candidates from all areas of computational biology and bioinformatics will be considered.

Work will involve next-generation sequencing data analysis, meta-genomics, population genetics, phylogenetics and phylogeography. Successful candidates will be deeply involved in the analysis of whole genomes, both through re-sequencing of multiple individuals of species for which there is a reference genome (e.g. humans, rabbits, dogs), and the assembly of de-novo genomes (e.g. anthelopes, lizards). They are expected to deploy and maintain analytic and data management pipelines, set up standard pipelines for quality control, assembly, and assembly validation as well as to generate custom bioinformatics solutions.

We are looking for senior scientists who will be able to conduct top-level research, establish solid collaborations, and to attract national and international funding. The positions require a PhD in biology, bioinformatics, computational biology, biostatistics, mathematical biology, or computer science, 3-5 years post-doctoral experience, with a strong competence in genome assembly. Expertise in other related NGS-areas are also of interest. The candidate must have strong computational skills including proficiency in one or more scripting languages (e.g. Perl, Python, Ruby) and statistical frameworks (e.g. R, Matlab, SAS, etc.), experience in bioinformatics, namely in processing high-throughput sequencing data, scientific programming, pipeline-development and/or development in the area of genome assembly, experimental studies and NGS analysis as well as an understanding of molecular biology and genetics. A strong knowledge in scripting and automation of procedures in a Linux environment is a must for a successful applicant. A good publication record in SCI journals and a record of funded research will be extra beneficial.

As the candidate will be invited to participate in teaching at the MSc and PhD levels, a history of lecturing will be considered valuable.

Preference will be given to candidates with a demonstrated record of developing software and other computational approaches to study biological questions in the areas of comparative genomics and transcriptomics, evolutionary genomics, phylogenomics, genetics/population genetics, and systems biology and with experience in leadership roles.

The selected candidates will be the first members of an exciting new team that will provide advanced and dedicated bioinformatics/informatics and computational biology expertise to CIBIO-InBIO. The team will help genome assembly projects with anything from providing guidance in the setup and running of assembly projects to completely running the genome assembly. They will be key members of CIBIO-InBIO and will be expected to collaborate with research groups embarking on genome projects, supporting them with de novo assembly of genomes, including validation of assemblies, designing genomic experiments, analyzing experimental data and other related aspects. Any type of raw data from a wide array of organisms can be expected. Good communication and writing skills are essential, and complete fluency in English is an absolute requirement.

Salary corresponds approximately to a gross annual income of 45000 euros (before taxes).

Applications to any of these positions will include a detailed CV, a research statement and a motivation letter, as well as the email contact of three referees. Applications will be open until the positions are

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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

RockefellerU EvolutionaryBiol

The Rockefeller University seeks exceptional, interactive, and creative scientists to join its faculty. We invite applications from outstanding candidates for tenure-track positions.

The University has a laboratory-based organizational structure that fosters interdisciplinary research. We encourage applications in the following areas:

FACULTY POSITIONS AT THE ROCKEFELLER UNIVERSITY

- Chemical & Structural Biology - Genetics & Genomics - Immunology, Virology & Microbiology - Medical Sciences, Systems Physiology & Human Genetics - Molecular Cell Biology - Neurosciences & Behavior - Organismal Biology & Evolution - Physical, Mathematical & Computational Biology - Stem Cells, Development, Regeneration & Aging

Details about specifi c subjects of research can be found at: http://www.rockefeller.edu/facultysearch . The Rockefeller University provides strong support for the research work of its faculty. The positions offer competitive salary, benefi ts and start-up funds, renovated laboratory space, access to state-of-the-art core facilities and extensive opportunities for collaboration both

within the University and with neighboring institutions.

Applications are being accepted electronically through our Online Application System at http://-/oas.rockefeller.edu . Applicants should follow the online application procedure. The deadline for application submission is October 10, 2014.

If you have questions regarding submitting an application, please contact our Administrator at faculty-search@rockefeller.edu.

The Rockefeller University is an Equal Opportunity

Employer - Minorities/Women/Disabled/Veterans

Amy Vonk Coordinator, Academic Programs The Rockefeller University 1230 York Avenue, Box 246 New York, NY 10065 212-327-7744 (Tel) 212-327-8644 (Fax)

Amy Vonk <avonk@mail.rockefeller.edu>

RoyalZooSociety Edinburgh Tech ConservationGenetics

Dear All We are currently advertising for new technician within the WildGenes RZSS Conservation Genetics laboratory based in Edinburgh (the laboratory is located at Edinburgh Zoo).

This is a one year fixed-term position to assist our senior technician with day-to-day activities on a diverse portfolio of conservation genetics projects. The closing date is Tuesday 16 September 2014.

For further information about the position and how to apply see http://www.edinburghzoo.org.uk/careers-vacancies/ . Many thanks and best wishes. Helen

Dr. Helen Senn Research Scientist

WildGenes Laboratory Royal Zoological Society of Scotland Edinburgh EH12 6TS UNITED KINGDOM Tel: +44 (0)131 3140333 Skype: helen.senn http://www.rzss.org.uk/conservation-programmes http://www.rzss.org.uk/staff/dr-helen-senn HSenn@rzss.org.uk

RZSS Edinburgh 1yrTech ConservationGenetics

Dear All We are currently advertising for new technician within the WildGenes RZSS Conservation Genetics laboratory based in Edinburgh (the laboratory is located at Edinburgh Zoo).

This is a one year fixed-term position to assist our senior technician with day-to-day activities on a diverse portfolio of conservation genetics projects. The closing date is Tuesday 16 September 2014.

For further information about the position and how to apply see http://www.edinburghzoo.org.uk/careers-vacancies/ . Many thanks and best wishes. Helen

Dr. Helen Senn Research Scientist

WildGenes Laboratory Royal Zoological Society of Scotland Edinburgh EH12 6TS UNITED KINGDOM Tel: +44 (0)131 3140333 Skype: helen.senn http://www.rzss.org.uk/conservation-programmes http://www.rzss.org.uk/staff/dr-helen-senn Helen Senn <HSenn@rzss.org.uk>

SanFranciscoStateU HumanEvolutionaryGenetics

Dear Colleagues,

We announce a position in Human Genomics at San Francisco State University. The successful candidate will add to recent hires in population genetics and molecular evolution in the last few years. Please feel free to contact committee members Scott Roy (scottwroy@gmail.com) or Pleuni Pennings (pennings@sfsu.edu) with inquiries.

Human Genomics. We invite applications for a faculty position in Human Genetics/Genomics at the Assistant, Associate, or Full Professor level. We seek candidates from all areas of human biology, especially individuals whose interests complement existing departmental strengths in cellular and molecular biology, human health, population genetics and bioinformatics. We are searching for individuals who focus on human epigenetics, reconstructing human history, personalized medicine, health disparities, human genetic diversity, human population genomics, disease mapping, human physiology, or human genome evolution. Applicants must be committed to both teaching and to developing an externally funded research program, contributing to both the undergraduate and graduate curricula through teaching and mentorship of student research. Responsibilities include teaching an upper-division genetics or

molecular genetics course, and other courses in the undergraduate and graduate programs. The successful candidate should have strong communication skills and the ability to work effectively with faculty, staff and students from diverse ethnic, cultural, and socioeconomic backgrounds. This position is part of a cluster hire in the University focused on Big Data & Health. Other positions within the cluster include scholars in the Department of Economics (Health Economics) and in SF States Health Equity Institute (Health Informatics). As part of this cluster, the three hires will be expected to work together on areas of shared interest in order to facilitate interdisciplinary research and curricular collaborations across Departments and Colleges. The new hire may be affiliated with the Health Equity Institute. Qualifications for this position are a Ph.D. degree and postdoctoral training. Teaching experience desirable. Candidates must be committed to teaching, mentoring undergraduate and graduate (MS) students, and developing a competitive, externally-funded research program. Applications should include a curriculum vitae, separate statements of research and teaching interests, and copies of significant publications. Applicants should submit application materials and arrange to have three reference letters submitted to the Human Genomics Search Committee, Dept. of Biology, San Francisco State University, using the link http://academicjobsonline.org. Review of applications begins 15 October 2014 and continues until a suitable candidate is chosen. For additional information, visit our web site at http://biology.sfsu.edu . SF State and the Department of Biology are committed to a diverse professoriate that includes women and individuals from underrepresented minority groups. SF State is an EEO/AA employer.

Questions can be directed to the search chair (Scott Roy, scottwroy@gmail.com) or to

Scott Roy <scottwroy@gmail.com>

SanFranciscoStateU PlantEvolutionaryBiol

Assistant or Associate ProfessorXTenure-Track Position

San Francisco State University

Plant Evolutionary Biologist. We seek outstanding candidates who are addressing fundamental problems in plant evolution, especially individuals whose interests complement existing departmental strengths in plant molecular genetics, ecology, and bioinformatics. We are searching for individuals who focus on phylogeny or speciation, aspects of ecological adaptation, population genetics, or phylogeography in an evolutionary context. Applicants must be committed to both teaching and to developing an externally funded research program, contributing to both the undergraduate and graduate curricula through teaching and mentorship of student research. Responsibilities include teaching an upper-division field-oriented plant taxonomy course with laboratory each year, and other courses in the undergraduate and graduate programs. The successful candidate should have strong communication skills and the ability to work effectively with faculty, staff and students from diverse ethnic, cultural, and socioeconomic backgrounds.

Qualifications for this position are a Ph.D. degree and postdoctoral training. Teaching experience is desirable. Candidates must be committed to teaching, mentoring undergraduate and graduate (MS) students, and developing a competitive, externally-funded research program. Applications should include a curriculum vitae, separate statements of research and teaching interests, and copies of significant publications. Applicants should submit application materials and arrange to have three reference letters submitted to the Plant Evolutionary Biologist Search Committee, Dept. of Biology, San Francisco State University, using the link http://www.academicjobsonline.org/ajo/jobs/4609 .

Review of applications begins 15 October 2014 and continues until a suitable candidate is chosen. For additional information, visit our web site at http://biology.sfsu.edu. SFSU and the Department of Biology are committed to a diverse professoriate that includes women and individuals from underrepresented minority groups. The University is an Equal Opportunity employer with a strong commitment to diversity and encourages applications from women, members of all ethnic groups, veterans, and people with disabilities.

Dennis Desjardin <ded@sfsu.edu>

UBergen GroupLeader MarineEvolution

Group Leader Positions V 6 Year Contracts Sars International Centre for Marine Molecular Biology Univer-

sity of Bergen, Norway

The Sars International Centre for Marine Molecular Biology performs basic research in molecular biology, developmental biology and evolution, through genetic and comparative studies of marine organisms. The Centre is a partner of EMBL (European Molecular Biology Laboratory) and is located in the Bergen High Technology Centre together with several departments of the University of Bergen. It currently employs 50 scientists and other staff originating from twenty different countries.

We are seeking outstanding candidates addressing fundamental questions in organismal biology using marine animals, with priority on invertebrates. A contract of six years will be offered to successful candidates, with competitive resources for the research (scientific and technical personnel, and infrastructures related to the project). The contract may be prolonged after six years, depending on performance and institute priorities at the time of review. Group leaders at the Sars Centre are expected to obtain additional funding through grant applications to national and international funding agencies.

For further information about the position please contact the Sars Centre Director (Daniel.Chourrout@sars.uib.no tel +47 5558 4360) and/or visit our website (www.sars.no).

Applications for group leader positions should include a description of past and current research (3 pages), a proposal for the research at the Sars Centre (3 pages), a detailed CV and names of three references. Shortlisted candidates must be available for a seminar and interview by the Scientific Advisory Committee to be held in Bergen on 24-25 November 2014.

Written applications should be marked 14Sars_02 and mailed to: Sars Centre, Human Resources, Bergen High Technology Centre, Thormoehlensgate 55, NO-5008 Bergen, Norway. Application deadline is 17 October 2014.

Applications sent by e-mail only will not be considered.

Carol Bruce <Carol.Bruce@sars.uib.no>

UCalifornia Berkeley PlantEvolution

ASSISTANT PROFESSOR IN PLANT BIOLOGY
The Department of Plant and Microbial Biology at the University of California, Berkeley, has an opening for an Assistant Professor (tenure track, nine-month appointment) with an expected start date of July 1, 2015.

We seek applications for a faculty member who will develop an internationally recognized, extramurally funded research program with a focus on whole plant biology. Areas of particular interest include fundamental aspects of development, such as growth, diversification, adaptations, and interactions of plants with microbes. The desirable candidate's research will be expected to integrate a broad spectrum of genetic, physiological, computational, and genomic technologies. Candidates who use systems and/or synthetic biology approaches and conduct translational research with crops and/or naturally occurring populations are encouraged to apply.

Candidates must have a strong background in experimental plant biology and the ability to contribute to instruction at the undergraduate and graduate level. Applicants must have a Ph.D. or equivalent by the time of application. Candidates must have postdoctoral experience by the date of hire and have a demonstrated excellence and originality in research. The successful applicant will join a dynamic and diverse community of biologists on the UC Berkeley campus in the Department of Plant and Microbial Biology (http://pmb.berkeley.edu/), and will have extensive opportunities for synergistic collaborations with the nearby USDA-ARS Plant Gene Expression Center (http://pgec.berkeley.edu/), UC Berkeley Energy Biosciences Institute (http://-www.energybiosciencesinstitute.org), Lawrence Berkeley National Laboratory (http://www.lbl.gov/), Joint Genome Institute (http://www.jgi.doe.gov/), and the Joint BioEnergy Institute (http://www.jbei.org/).

A curriculum vitae (your most recently updated C.V.), cover letter, statement of research (current and future research interests), statement of teaching (including experience and teaching philosophy), three to five letters of reference, statement of contributions to diversity (addressing past and/or potential contributions to diversity through research, teaching, and/or service), and up to five papers or other documents (optional) should be submitted via UC Berkeley's online application system by the search closing date, November 14, 2014.

https://aprecruit.berkeley.edu/apply/JPF00522 All letters will be treated as confidential per University of California policy and California state law. Please refer potential referees, including when letters are provided via a third party (i.e., dossier service or career center), to the UC Berkeley statement of confidentiality (http://apo.berkeley.edu/evalltr.html) prior to submitting their letters.

Chelsea D. Specht, PhD Associate Professor; Departments of Plant and Microbial Biology & Integrative Biology Curator of Monocots; University and Jepson Herbaria University of California, Berkeley 111 Koshland Hall, MC 3102 Berkeley, CA 94720 510.642.5601

cdspecht@berkeley.edu http://spechtlab.berkeley.edu/ cdspecht@berkeley.edu

UCalifornia Davis TropicalConservation

The Department of Anthropology at the University of California, Davis invites applicants for a Tenure-track Assistant Professor of Tropical Conservation Science position. The successful candidate must have an active research program focusing on human dimensions of tropical conservation. Candidates whose research addresses anthropogenic change in tropical ecosystems from an explicitly ecological and/or evolutionary perspective, and who take a scientific approach to finding ways to engage multiple stakeholder groups as stewards of biodiversity in the tropics will be preferred. Ph.D. in Anthropology, Ecology or related field must be completed by the first day of courses (September 24, 2015). Applicants must demonstrate exceptional promise as scholars and teachers. To apply, please submit a cover letter, a CV, a Statement of Research, a Statement of Teaching, and up to three (3) representative publications via https://recruit.ucdavis.edu/apply/JPF00347. Apply by November 10th, 2014 to ensure full consideration by the committee.

"Crofoot, Margaret" <CrofootM@si.edu>

UCalifornia LosAngeles PlantEvolutionaryBiol

The University of California, Los Angeles (UCLA) Department of Ecology and Evolutionary Biology seeks to fill an open-rank (tenure track or tenured) faculty position in Plant Sciences. Qualified candidates will have a Ph.D. in a related field of biological sciences. We are interested in all subfields within organismal plant biology but especially in candidates with experimental or comparative approaches in plant evolution, systematics, ecology, conservation biology, and/or biogeography. The successful candidate is expected to establish an internationally recognized and externally funded research program. Although not required, we encourage applicants with interest in the Mildred E. Mathias Botanical Garden, a seven-acre garden on the UCLA campus, through teaching, research, and/or public outreach/education to indicate so in their cover letter. As a campus with a diverse student body, individuals with a history of mentoring under-represented minorities in the sciences are encouraged to apply and include details in cover letter. Applicants should submit materials online to https://recruit.apo.ucla.edu/apply/JPF00342 including detailed cover letter; curriculum vitae; statements of research and teaching; and names and contact information of four references. Review of candidates will begin on October 3, 2014 and continue until the position is filled. Please use job number JPF00342 in all correspondence.

Additional information about the Department and the Botanical Garden and may be found at http://www.eeb.ucla.edu and http://www.botgard.ucla.edu/ respectively. Inquiries regarding the position should be directed to Grace Angus (gracea@lifesci.ucla.edu) or Search Chair, Professor Lawren Sack (lawrensack@ucla.edu). Women and minority applicants are encouraged to apply.

The University of California is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability, age or protected veteran status. For the complete University of California nondiscrimination and affirmative action policy see: UC Nondiscrimination & Affirmative Action Policy

"Sork, Victoria" <vlsork@ucla.edu>

UCalifornia SanDiego QuantEvolBiol

Assistant, Associate, or Full Professor: Quantitative Evolutionary Biology (10-815)

The Division of Biological Sciences (www.biology.ucsd.edu), Section of Ecology, Behavior and Evolution, invites applications for a faculty

position at the tenure-track Assistant, Associate, or full Professor level in Quantitative Evolutionary Biology. We are searching broadly for an evolutionary biologist with strong quantitative skills working with any taxonomic group (animal, plant, microbial) or environment (terrestrial or aquatic). Research interests may include, but are not limited to: evolutionary theory and modeling; investigation of how genetic variation affects complex traits and their evolution; experimental evolution; and/or the use of genomic tools and comparative analysis to reconstruct the evolutionary histories of populations and species; with the goal of understanding how traits evolve under different kinds of selection, including those associated with global change. This position is part of a campus-wide initiative for growth in the areas of Systems and Quantitative Biology (qBio).

All candidates must have earned a Ph.D., or equivalent degree, and be committed to teaching at the undergraduate and graduate levels. A successful candidate will have demonstrated excellence and creativity in research, scholarship, and a commitment to equity and inclusion in higher education. We are especially interested in candidates who have created or contributed to programs that aim to increase access and success of underrepresented students and/or faculty in the sciences, and/or have detailed plans to accomplish such goals.

Interested applicants must submit a cover letter, curriculum vitae, statement of research, statement of teaching, a statement describing their past experience and leadership in fostering equity and diversity and/or their potential to make future contributions, and 3-5 publications. For information on preparing diversity statements and divisional initiatives to promote diversity, see: http://facultyequity.ucsd.edu/Faculty-Applicant-C2D-Info.asp and http://biology.ucsd.edu/-diversity/index.html. Applicants at the Assistant Professor level need to submit 3-5 references, and applicants at the Associate or Full Professor level need to provide contact information for 3-5 references. Applications must be submitted through the University of California San Diego's Academic Personnel RECRUIT System. To apply at the Assistant Professor level: https://apol-recruit.ucsd.edu/apply/JPF00622 To apply at the Associate or Full Professor level: https://-apol-recruit.ucsd.edu/apply/JPF00623 Salary is commensurate with qualifications and based on University of California pay scales.

Completed applications received by October 17, 2014 will be assured of consideration.

The Division of Biological Sciences at UCSD is a vibrant center of scientific discovery, innovation, and collaboration. Our large research base spans many areas of biology and has one of the most celebrated graduate programs in the country. We are committed to academic excellence and diversity within the faculty, staff, and student body. This is where discovery comes to life.

Please apply to the following open position: DIVISION OF BIOLOGICAL SCIENCES Assistant, Associate, or Full Professor: Quantitative Evolutionary Biology (10-815)

Further details about the required application material can be found at: http://biology.ucsd.edu/jobs/apply-lrf-lsoe.html UCSD is an Affirmative Action/Equal Opportunity Employer with a strong institutional commitment to excellence through diversity (http://-diversity.ucsd.edu/).

"Ta, Laura" <lta@ucsd.edu>

UCalifornia SantaBarbara 2 QuantSystemsBiol

Two Faculty Positions in Quantitative Systems Biology, UC Santa Barbara, Division of Mathematical, Life and Physical Sciences

Job #JPF00382 College of Letters & Science - Mathematical, Life, and Physical Sciences - Physics Recruitment Period

Open Sep 16, 2014 through Dec 15, 2014 Description

The University of California Santa Barbara invites applications for two tenure-track faculty positions at the Assistant Professor Level. These positions are part of a multi-year, multi-departmental initiative to establish an interdisciplinary program in the area of Quantitative Systems Biology, emphasizing quantitative experimentation and theoretical analysis in the study of living systems. Subjects of interest include, but are not limited to: quantitative studies of development, microbial biology and dynamics of evolution, genomics and population genetics. While faculty may be associated with more than one department, the primary appointment would be in the academic unit most closely corresponding to the candidates research focus and teaching qualifications. Preference will be given to candidates with broad scientific interests, a record of research excellence and creativity, and a strong commitment to undergraduate and graduate teaching. Interdisciplinary educational background combining biology with physical and

mathematical sciences and/or a strong record of active interdisciplinary collaboration will also be valued. Candidates must possess a Ph.D. by September 2014. Appointment begins July 1, 2015.

Applicants should submit a cover letter, curriculum vitae, a statement of research and teaching interests and arrange for three letters of recommendation. Materials should be submitted electronically via https://-recruit.ap.ucsb.edu/apply. Applications received on or before December 15, 2014 will be given full consideration.

The department is especially interested in candidates who can contribute to the diversity and excellence of the academic community through research, teaching and service. The University of California is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, or any other characteristic protected by law including protected Veterans and individuals with disabilities.

Learn More

More information about this recruitment: http:/-/www.physics.ucsb.edu/about/academicpositions
Thomas Turner <thomas.turner@lifesci.ucsb.edu>

UCalifornia SantaBarbara BehavioralEvolution

Behavioral Ecology Faculty Position " Assistant Professor, UC Santa Barbara

The Department of Ecology, Evolution and Marine Biology (EEMB; www.eemb.ucsb.edu) at the University of California, Santa Barbara invites applications for a tenure-track faculty position in Behavioral Ecology, broadly defined, at the rank of Assistant Professor. We are searching for a highly creative and interactive scholar who fits into our multidisciplinary department. The area and system of study are open, although we are most interested in candidates who study the fitness consequences or evolutionary outcomes of variation in behavioral strategies or who use comparative analyses relating behavior to the environment. We encourage applications from candidates who adopt an integrative, mechanistic approach and have a strong field component in their research.

The candidate is expected to have or develop an internationally recognized research program, mentor graduate and undergraduate students in the candidate's area of expertise, and teach both graduate and undergraduate courses. This position requires a PhD at the time of appointment.

Applicants should submit: 1) a cover letter, 2) a curriculum vitae, 3) a statement of research that covers research accomplishments and future plans, 4) a statement of teaching experience and interests, 5) three selected publications, and 6) letters of recommendation from three to four persons with the ability to evaluate the candidate.

EEMB is especially interested in candidates who can contribute to the diversity and excellence of the academic community through research, teaching and service.

Submit applications electronically at: https://-recruit.ap.ucsb.edu/apply/JPF00387 . Review of applicants will begin November 15, 2014 and will continue until the position has been filled.

The University of California is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, or any other characteristic protected by law including protected Veterans and individuals with disabilities.

– Stephen Proulx Associate Professor Ecology, Evolution, and Marine Biology UC Santa Barbara proulx@lifesci.ucsb.edu

stephen.proulx@gmail.com

UCalifornia SantaBarbara EvolutionaryPhysiology 2

The Ecology, Evolution, and Marine Biology Dept. at UCSB is searching for someone working in the marine realm, whose research involves physiological theory and/or experiments. We encourage applications from diverse Ecological and Evolutionary Scientists, but the deadline is very soon: please apply! Job ad pasted below and available at https://recruit.ap.ucsb.edu/-apply/JPF00335 . Assistant Professor Marine Physiology

Job #JPF00335 College of Letters & Science - Mathematical, Life, and Physical Sciences - Ecology, Evolution and Marine Biology

Recruitment Period

Open Jul 18, 2014 through Sep 30, 2014 Description

The Department of Ecology, Evolution and Marine Biology (EEMB; www.eemb.ucsb.edu) at the University of California, Santa Barbara invites applications for a tenure-track faculty position in Marine Physiology at the rank of Assistant Professor. We are searching for a highly creative and interactive scholar who fits into our multidisciplinary department. The area and system of study is open, although we are most interested in candidates who would examine the physiological mechanisms underlying organism-environment interactions, or whose work would link to global change in marine ecosystems. This position requires a PhD at the time of appointment and will be filled by a physiologist who studies metazoans or macrophytes, and we encourage candidates who work in all marine systems including the deep-sea, temperate and tropical reefs and open as well as coastal oceans. We encourage applications from candidates who adopt an integrative, mechanistic approach and have a strong field component in their research.

The candidate is expected to have or develop an internationally recognized research program, mentor graduate and undergraduate students in the candidates area of expertise, and teach both graduate and undergraduate courses.

Applicants should submit: 1) a cover letter, 2) a curriculum vitae, 3) a statement of research that covers research accomplishments and future plans, 4) a statement of teaching experience and interests, 5) three selected publications, and 6) names and contact information of three persons willing to provide letters of reference (the committee will solicit letters for a shortlist of candidates).

EEMB is especially interested in candidates who can contribute to the diversity and excellence of the academic community through research, teaching and service.

Submit applications electronically at: https://-recruit.ap.ucsb.edu/apply/JPF00335 Review of applicants will begin September 1, 2014 and will continue until the position has been filled.

The University of California is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, or any other characteristic protected by law including protected Veterans and individuals with disabilities.

Learn More

More information about this recruitment: http://eemb.ucsb.edu Thomas Turner <thomas.turner@lifesci.ucsb.edu>

UConnecticut Bioinformatics

Research Scientist Position in Genomics

A research scientist position in bioinformatics and computational biology is available in the Malone Laboratory of Gene Dosage and Evolution. The laboratory addresses questions of gene dosage, aneuploidy, sex chromosome evolution, and sex determination to ultimately understand the relationship between gene dose, genome balance, and phenotype.

The research scientist will take part in de novo assembly analyses of several frog species and analyze a variety of high-throughput sequencing datasets to address questions of dose, dosage compensation, and genome evolution. Proficiency with multiple scripting languages, high-throughput sequencing analysis, and tools for computational, comparative, and evolutionary genomic analysis are required.

The environment for genomic research at the University of Connecticut is vibrant, including the Institute of Systems Genomics, University of Connecticut Health Center, Jackson Laboratory for Genomic Medicine, and Center for Genome Innovation. These research institutions are bolstered by a 1.5+ billion dollar investment in STEM by the state of Connecticut that will produce major advances in genomics and personalized medicine. The Malone laboratory interacts closely with these centers and resources, creating exciting new avenues for answering questions in genome biology. Candidates should expect to engage with the local genome analysis community, develop and pursue their own research ideas, and receive mentoring and guidance from the PI.

Applicants should send a single PDF file that contains a cover letter describing your research interests and experience (maximum 2 pages), C.V., and contact information for three references to john.malone@uconn.edu. Review of applications will begin 30 September and continue until the position is filled. Start period: January 2015.

Candidates interested in a postdoctoral position are also encouraged to apply and informal inquires from candidates with other backgrounds in genomics and

evolutionary biology are welcome.

The University of Connecticut is an EEO/AA employer

John H. Malone, PhD Assistant Professor of Genetics and Genomics Institute of Systems Genomics Department of Molecular and Cell Biology University of Connecticut http://scholar.google.com/citations?user=-3D09eqGzIAAAAJ&hl=3Den john.malone@uconn.edu

john.malone@uconn.edu

UConnecticut MicrobiomeEvolution

FACULTY POSITION IN MICROBIOME RESEARCH THE UNIVERSITY OF CONNECTICUT

The Department of Molecular and Cell Biology (mcb.uconn.edu) in the College of Liberal Arts and Sciences (clas.uconn.edu) and the recently established Institute for Systems Genomics (http://-www.isg.uconn.edu/) invite applications for a tenure-track faculty position at the assistant professor level, with an expected start date of August 23, 2015. We are particularly interested in candidates working on microbiomes, host associated microbial communities, or microbiome ecology and evolution. The Department has strengths in microbial ecology, evolutionary biology, and symbiosis research, as well as other research clusters in cell biology, genetics, genomics, structural biology, biochemistry and biophysics. Information on microbiological research at the University of Connecticut can be found at http://cmsee.uconn.edu/. Successful candidates will be expected to actively engage in collaborative research projects and to teach in the departmental and new institute-based graduate programs.

About the Institute for Systems Genomics The University of Connecticut recently established the Institute for Systems Genomics (http://isg.uconn.edu/-) to coalesce the interdisciplinary research strengths of 10 schools and colleges at the university (http://www.uconn.edu/) and the Jackson Laboratory (http://www.jax.org/). The Institute leverages the significant investment from the state, including the $865M Bioscience CT initiative, $172M Tech Park program, the $200M Bioscience Innovation Fund, and $1.7B Next Generation CT.

Appointment Terms This is a 9-month tenure-track position with an expected start date of August 23, 2015. The successful candidate will have a primary academic appointment in the Department of Molecular and Cell Biology within the College of Liberal Arts and Sciences and a joint appointment in the Institute for Systems Genomics. Salary and rank will be commensurate with qualifications.

Primary Duties The successful candidates will: * Develop, sustain, and grow an externally funded research program of excellence * Teach undergraduate and graduate courses that meet the curricular needs of the Department of Molecular and Cell Biology and the Institute for Systems Genomics * Advise and mentor undergraduate and graduate students. * Provide service and leadership to all units of the University of Connecticut, to external academic and scientific communities, and to the general public.

Minimum Qualifications 1. Completion of all requirements for a Ph.D. in an appropriate field by the time of the appointment. Equivalent foreign degrees are acceptable. 2. Postdoctoral experience 3. A background that provides preparation for teaching excellence in undergraduate and graduate courses 4. Excellent oral and written communication skills 5. Demonstrated success in original research, and publication of that work in archival journals.

Preferred Qualifications 1. Possess the ability to contribute to the diversity and excellence of the learning experience through research, teaching and/or public genomic literacy engagement 2. Relevant teaching experience 3. Expertise that complements current research strengths in the MCB Department and the ISG 4. Experience with oral presentations at national or international scientific meetings 5. Record of developing research grant applications to federal funding agencies.

To Apply Please apply online using Husky Hire < http://www.jobs.uconn.edu > to submit a cover letter, curriculum vita, list of references, research plan, teaching statement, and other applicable materials. The required submission format is a single PDF file in the order listed. In addition, applicants should arrange to have at least three letters of reference sent to microbiome@uconn.edu as a PDF document on letterhead with signature. To ensure full consideration, applications should be received by December 1, 2014. Employment of the successful candidate will be contingent upon the successful completion of a pre-employment criminal background check. (Search # 2015104)

Link to advertisement on Husky hire: https://hcmprodweb.psoft.uconn.edu/-psp/HRPRCGF/EMPLOYEE/HRMS/-c/HRS_HRAM.HRS_CE.GBL?Page=-HRS_CE_JOB_DTL&Action=A&JobOpeningId=-2015104&SiteId=2&PostingSeq=1 This job posting is scheduled to be removed at 11:59 PM eastern on

December 1, 2014. All employees are subject to adherence to the State Code of Ethics which may 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

UgallaPrimateProject coordinator

The ad is targeting anyone with an evolutionary background, including and especially evol biologists.

Alex

*** Position Description: The Ugalla Primate Project is seeking a project coordinator, to be based in a remote field site in western Tanzania for 12 months. Responsibilities include overall Project coordination, management of data collection and entry for multiple ongoing studies (chimpanzee, baboon, and red-tailed monkey behavioural ecology) at the site, finance administration, and schedule organization, among others. The Project coordinator also makes regular trips to the local village/town for supplies and frequently reports to UPP administration concerning ongoing Project developments.

Qualifications: A successful candidate must have a bachelors degree in a related field (evolutionary biology, zoology, behavioral biology, biological anthropology, etc.), a strong evolutionary background as well as prior living or work experience in a developing country (preferably Africa), be extremely fit, able to drive a manual 4x4 vehicle, familiar with Microsoft Excel and Word (ArcGIS a plus), and competent in (or willing to learn prior to arrival) KiSwahili. Additionally, previous managerial experience highly valued and the candidate must be responsible, organised, independent, resourceful, and get along well and easily with others, as the position requires long periods in the forest with a team of Tanzanian field assistants. The landscape is demanding, and so extreme physical fitness is also critical.

If desired, the successful applicant may also conduct an independent research project of his/her own design, contingent on approval from UPP as well as Tanzanian government research bodies.

Duration: December 2014 - November 2015 (dates flexible, earlier start preferred) Compensation: USD300 per month, with partial in-country & work-related expenses (including international travel) covered.

Please see www.ugallaprimateproject.com for more on the UPP.

Interested applicants should create a SINGLE .PDF file that includes a cover letter, updated CV, and the names of two references, emailed to info@ugallaprimateproject.com. Accepting applications until the position is filled. ***

Alex Piel <akp34@cam.ac.uk>

UGlasgow GenomicsManager

Location:Glasgow, UKSalary:£40,847 to £47,328Hours:Full TimeContract:Permanent Placed on:12th September 2014Closes:12th October 2014Job Ref:009419

Glasgow Polyomics is a state-of-the-art research facility at the University of Glasgow (UK) specialising in the collection and interpretation of data in Genomics, Proteomics and Metabolomics within a rich Informatics environment. A Research and Communications manager is sought to coordinate activities within the Facility and to liaise between the Facility's staff and its broad base of users. The post will involve assisting users across all areas of biological research in planning and executing their Omics research and assuring delivery of the research, while ensuring that the Facility remains on a sound financial footing, through assistance in grant writing and cost recovery. An important part of the job will also involve promoting Glasgow Polyomics activities to the research community, and delivering a high profile Public Engagement programme. This position would suit a confident individual with a strong track record of delivering a variety of challenging projects in an interdisciplinary research environment, and who boasts excellent communication, diplomacy and negotiation skills.For more information and to apply online, go to: www.glasgow.ac.uk/jobs [REF 009419]Closing date: 12 October 2014 The University has recently been awarded the Athena SWAN Institutional Bronze Award

Dr Tanita Casci Research and Communications Manager, Glasgow Polyomics Wolfson Wohl Cancer Research Centre, Room 209 College of Medical, Veterinary & Life Sciences University of Glasgow, Garscube Estate Switchback Road, Bearsden G61 1QH, UK +44 141 330 2708http://www.polyomics.gla.ac.uk

tcasci@hotmail.com

UHohenheim Bioinformatics

The Faculty of Agricultural Sciences invites applications for the position of a Full Professor (W3) of Bioinformatics at the Institute of Animal Husbandry and Breeding to be filled first in summer semester 2015.

The successful candidate will teach management and analysis of omics-data in agriculture and life science in the study programmes of the Faculty of Agricultural Sciences and will participate in teaching in the Faculty of Natural Sciences and the Faculty of Business, Economics and Social Sciences.

The research focus of the professorship should be on the development of bioinformatic methods and algorithms and the analysis of massive DNA and RNA data sets from livestock and crop populations and associated microorganisms. This includes assembling and functional annotation of sequenced genes and transcripts as well as taxonomic and functional classification of data from microbiological metagenome projects.

Interdisciplinary collaborations with associated research groups of the University of Hohenheim are expected.

The position offers attractive conditions for first-time full professor appointees. Prerequisites for applicants are habilitation or an equivalent research and teaching record that may have been established during a Junior or Assistant Professorship.

The advertised position is tenured. If appointed as full professor for the first time, the University of Hohenheim reserves its right to a probationary employment. With equal qualifications, preference will be given to candidates with disabilities.

The University of Hohenheim seeks to increase the proportion of women in research and teaching, and strongly encourages qualified female scientists to apply.

Applications should include a statement of your future research interests, a curriculum vitae, a documentation of academic achievements (copies), a list of publications, a list of third-party funded projects, a teaching record, information on teaching evaluations as well as three key publications.

Please apply online at https://www.uni-hohenheim.de/prof-appt-portal before November 24th, 2014. Questions regarding the position may be directed to Prof. Dr. Markus Rodehutscord (markus.rodehutscord@uni-hohenheim.de).

University of Hohenheim Faculty of Agricultural Sciences (300) 70593 Stuttgart Germany

Best regards, Gaby Steinbeck

agrar <agrar@uni-hohenheim.de>

UHohenheim ResarchAssistant Genomics

UHohenheim.ResarchAssistant.Genomics

The newly established Department of Livestock Population Genomics at the University Hohenheim (Head Prof. Dr. Martin Hasselmann) invites applications for a

Research Assistant position

with 100% of the regular working hours (currently 39.8 hours per week), initially for the duration of 3 years with possible extension for at least 2 years after successful evaluation.

We are seeking a highly motivated, team spirited and creative candidate who should have received a PhD/doctorate in the field of Genetics/Evolutionary Biology. A solid background in population genetics, evolutionary biology, bioinformatics and a variety of molecular techniques (e.g. protein expression, real-time PCR) is required. Experiences in the analyses of genomes and high-throughput sequencing data are essential. Participation in moderate teaching at Bachelor/Master level (4 Semester periods per week) is expected. The successful candidate should bring a strong interest to investigate organismic interaction with their abiotic and biotic environment at the molecular level in a stimulating scientific environment and well equipped research laboratories (see also www.popgenomik.uni-hohenheim.de).

The payment would be in accordance with the collective agreement for public employees (TV-L E13).

The University of Hohenheim is a modern university with a long tradition in the fields of agricultural and natural sciences. Research and teaching are characterized by internationality, innovation, multidisciplinarity, and consistency subject to high scientific standards. Embedded in an attractive and

green environment, the University Hohenheim combines the advantages of a small campus area with the close vicinity to Stuttgart as lively and cultural centre. <mailto:Giovanni.Galizia@uni-konstanz.de.>

<mailto:Giovanni.Galizia@uni-konstanz.de.>The University of Hohenheim is an equal opportunity employer that tries to increase the number of women in research and teaching. Applications of disabled persons will be given preference if appropriately qualified.

Please send your applications, including CV with list of publications, copies of degree certificates, detailed statement of research interest (1-2 pages) and names of two referees as */one single pdf /*by email to Prof. Dr. M. Hasselmann, martin.hasselmann@uni-hohenheim.de. For more information, please contact Prof. Dr. M. Hasselmann by email or Telephone (+49 711 459 22481)

The review of applications will begin by 01.10.2014 and late applications are considered until the position is filled.

–

Dr. Martin Hasselmann Professor of Livestock Population Genomics

Universität Hohenheim |Institute of Animal Husbandry and Animal Breeding| Garbenstrasse 17 | 70599 Stuttgart Tel: ++49 711-459 22481 (Office) | ++49 711-459 23581 (Secretary) Fax: ++49 711-459 24246 Web: www.popgenomik.uni-hohenheim.de Email: martin.hasselmann@uni-hohenheim.de

Martin Hasselmann <martin.hasselmann@uni-hohenheim.de>

UHohenheim ResarchAssistant Genomics corrected

UHohenheim.ResarchAssistant.Genomics

The newly established Department of Livestock Population Genomics at the University Hohenheim (Head Prof. Dr. Martin Hasselmann) invites applications for a

Research Assistant position

with 100% of the regular working hours (currently 39.8 hours per week), initially for the duration of 3 years with possible extension for at least 2 years after successful evaluation.

We are seeking a highly motivated, team spirited and creative candidate who should have received a PhD/doctorate in the field of Genetics/Evolutionary Biology. A solid background in population genetics, evolutionary biology, bioinformatics and a variety of molecular techniques (e.g. protein expression, real-time PCR) is required. Experiences in the analyses of genomes and high-throughput sequencing data are essential. Participation in moderate teaching at Bachelor/Master level (4 Semester periods per week) is expected. The successful candidate should bring a strong interest to investigate organismic interaction with their abiotic and biotic environment at the molecular level in a stimulating scientific environment and well equipped research laboratories (see also www.popgenomik.uni-hohenheim.de).

The payment would be in accordance with the collective agreement for public employees (TV-L E13).

The University of Hohenheim is a modern university with a long tradition in the fields of agricultural and natural sciences. Research and teaching are characterized by internationality, innovation, multidisciplinarity, and consistency subject to high scientific standards. Embedded in an attractive and green environment, the University Hohenheim combines the advantages of a small campus area with the close vicinity to Stuttgart as lively and cultural centre.

The University of Hohenheim is an equal opportunity employer that tries to increase the number of women in research and teaching. Applications of disabled persons will be given preference if appropriately qualified.

Please send your applications, including CV with list of publications, copies of degree certificates, detailed statement of research interest (1-2 pages) and names of two referees as */one single pdf /*by email to Prof. Dr. M. Hasselmann, martin.hasselmann@uni-hohenheim.de. For more information, please contact Prof. Dr. M. Hasselmann by email or Telephone (+49 711 459 22481)

The review of applications will begin by 01.10.2014 and late applications are considered until the position is filled.

–

Dr. Martin Hasselmann Professor of Livestock Population Genomics

Universität Hohenheim |Institute of Animal Husbandry and Animal Breeding| Garbenstrasse 17 | 70599 Stuttgart Tel: ++49 711-459 22481 (Office) | ++49 711-459 23581 (Secretary) Fax: ++49 711-459 24246 Web: www.popgenomik.uni-hohenheim.de

Email: martin.hasselmann@uni-hohenheim.de

Martin.Hasselmann@uni-hohenheim.de

UIllinois FunctionalMorphology

Faculty Position in Functional Morphology/Biomechanics Department of Animal Biology in the School of Integrative Biology University of Illinois at Urbana-Champaign

The School of Integrative Biology (SIB) and the Department of Animal Biology at the University of Illinois, Urbana-Champaign invite applications and nominations for a full-time, tenure-track faculty position in functional morphology/biomechanics at the rank of Assistant Professor. We seek a functional morphologist that takes multiple approaches to understanding why organismal traits take the forms that they do. We are particularly interested in candidates with research programs that incorporate theoretical, experimental and / or genetic approaches. The successful candidate will show potential to publish in the top disciplinary journals, 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 collaborative research initiatives. A Ph.D. in Biology or related discipline is required by start date, and postdoctoral experience is desirable. The anticipated starting date is August 16, 2015; the starting salary is commensurate with qualifications and experience. The successful candidate will have the opportunity to be part of dynamic and well-established communities of integrative biologists with interests spanning a wide range of taxa and to participate in a number of interdisciplinary programs across the campus.

To ensure full consideration, please create your candidate profile through http://go.illinois.edu/-AsstProfFunctMorphology and upload your application materials: letter of application, curriculum vitae, a representative publication, research statement, teaching philosophy and experience, and contact information for three professional references by October 17, 2014. Only applications submitted through the University of Illinois Job Board will be considered. Letters of reference will be solicited during the search process. Applicants may be interviewed before the closing date; however, no hiring decision will be made before October 17, 2014. For further information regarding application procedures or to submit nominations, you may contact Marty Forrest at mjforres@illinois.edu.

Illinois is an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, religion, color, national origin, sex, age, status as a protected veteran, or status as a qualified individual with a disability. Illinois is an Affirmative Action /Equal Opportunity Employer and welcomes individuals with diverse backgrounds, experiences, and ideas who embrace and value diversity and inclusivity. (www.inclusiveillinois.illinois.edu).

fuller@life.illinois.edu

UKansas Genomics

KU has an open position for an Assistant or Associate Professor in Genomics. We're interested in any candidates who use genomic and systems-level approaches to understand fundamental biological problems, including evolutionary and quantitative genetics/genomics questions.

The formal ad, including application details is given below. If anyone has questions about the position, please feel free to contact me.

Stuart Macdonald sjmac@ku.edu

Assistant or Associate Professor in Genomics Department of Molecular Biosciences, University of Kansas

The Department of Molecular Biosciences at the University of Kansas invites applications for a faculty position at the tenure-track Assistant or Associate level in Genomics. We are seeking applications from outstanding scientists with experience in genome-level, quantitative approaches to understanding any area in modern experimental biology. The department provides a highly interactive, multi-disciplinary research environment that includes successful researchers in the areas of genetics and genomics, computational biology, cell and developmental biology, neurobiology, microbiology, biochemistry, and cancer biology (www.molecularbiosciences.ku.edu). Departmental strengths in genomics complement those in related units on campus, including the Center for Bioinformatics, the Department of Ecology & Evolutionary Biology, and the School of Pharmacy. All scientists with active, innovative research programs in the area of experimental genomics are encouraged to apply.

Required qualifications for the position include a PhD

and postdoctoral experience in genetics, genomics or a related discipline, potential for excellence in genomics research, and a commitment to teaching undergraduate and graduate students in the life sciences. For appointment at the rank of Associate Professor with tenure, applicants must additionally demonstrate an established history of extramural research funding.

The University of Kansas is a major educational and research institution located in Lawrence, a vibrant, thriving community of more than 90,000 a short drive from Kansas City and the KU Medical Center. KU is committed to expanding its innovative research programs. We especially encourage woman and minorities to apply.

For a complete announcement and to apply online, go to https://employment.ku.edu/academic/1803BR, or go to https://employment.ku.edu, click on "Faculty, Lecturers, Academic Staff", click on "Search openings", and search by key word "Genomics". A complete online application includes the following materials: a cover letter, CV, statement of current and future research goals, statement of teaching interests, and contact information for at least three professional references. Initial review of applications begins November 3, 2014 and will continue as long as required to identify a qualified pool. Informal inquiries can be directed to Stuart Macdonald (sjmac@ku.edu), Chair of the search committee.

Dr. Stuart J. Macdonald Department of Molecular Biosciences 4043 Haworth Hall 1200 Sunnyside Avenue University of Kansas Lawrence KS 66045

office: 785-864-5362 lab: 785-864-5777 fax: 785-864-5321 email: sjmac@ku.edu

sjmac@ku.edu

UMichigan EvolutionFishOrBirds

Ecology or Evolutionary Biology of Fishes or Birds, University of Michigan

The Department of Ecology and Evolutionary Biology (www.lsa.umich.edu/eeb) and the Program in the Environment (www.lsa.umich.edu/pite) at the University of Michigan seek applicants for an assistant professor (tenure-track) position in the ecology or evolutionary biology of fishes or birds. While we expect to make a junior hire, outstanding senior applicants will also be considered. This is a university-year appointment with an expected start date of September 1, 2015. We seek outstanding individuals who use comparative fish or bird systems to study any area of ecology or evolutionary biology, and who would offer exceptional courses in the ecology or evolution of either taxon. Also strongly encouraged are research programs that could take advantage of the world-class biodiversity collections of the Museum of Zoology and/ or utilize the EEB Department's biological field stations. Museum curatorial activities may replace some teaching duties for appropriate candidates.

To apply, use this link - www.resources-eeb.lsa.umich.edu/search14 - and arrange to have three letters of recommendation submitted through the same website. Review of applications will begin on November 3rd 2014 and will continue until the position is filled. Women and minorities are strongly encouraged to apply. The University of Michigan is supportive of the needs of dual career couples and is an equal opportunity/affirmative action employer.

Elizabeth Tibbetts Associate Professor Ecology and Evolutionary Biology University of Michigan

tibbetts@umich.edu

UMinnesota Duluth PlantBiology

TWO ASSISTANT PROFESSOR POSITIONS IN PLANT BIOLOGY. The Department of Biology at the University of Minnesota Duluth (UMD) invites applications for two tenure-track Assistant Professor positions beginning August 2015. We seek candidates with expertise in one or more of the following areas: plant cell/molecular biology, plant physiology, and plant or fungal diversity. The positions are part of a broader initiative to build a strong program in plant sciences in the UMD Biology Department. Depending on the candidates' particular research experience in the above areas, they may instruct lecture and laboratory courses in cell biology, physiology, or taxonomy and diversity, and will also be expected to develop at least one advanced course in their area of specialization. The area of specialization within the above areas is open. The successful candidates will establish independent, externally funded research programs involving undergraduate and graduate students. Service to the depa rtment, college and University is also expected. Opportunities exist for collaboration with researchers at UMD's Natural Resources Research Institute, Large Lakes Observatory, College of Pharmacy, School of Medicine and

the EPA Mid-Continent Ecology Division. State-of-the-art research and instruction facilities and competitive startup funding are available. Required Qualifications (must be mentioned on application/curriculum vita) include: Ph.D. or terminal degree in the biological sciences from a regionally accredited institution, evidence of potential for achievement in teaching appropriate for appointment at the Assistant Professor level, peer-reviewed publication record, and excellent written communication skills. The University of Minnesota requires that you apply online for this position. For a complete description of the positions and information on how to apply online, visit http://employment.umn.edu/, and search for Job Requisition 192180. Complete applications wil l be reviewed beginning October 20, 2014 and continue until the positions are filled. The University of Minnesota is an equal opportunity educator and employer.

jstrasbu@d.umn.edu

UMissouri SystemsBiology

The Division of Biological Sciences (http://-biology.missouri.edu) at the University of Missouri invites applications for an Assistant or Associate Professor in systems biology. We are interested in candidates that integrate empirical and computational approaches to address important biological questions. The campus strengths in life sciences include bioinformatics, behavior, cell and developmental biology, ecology, genetics and genomics, microbiology, neurobiology, and plant biology. The successful candidate will establish a research program that forms linkages with our existing strengths, develops cross-disciplinary collaborations, and attracts federal funding. The successful candidate will join a diverse group of scientists in the Bond Life Sciences Center (http://bondlsc.missouri.edu/), which promotes interdisciplinary research.

We offer a highly competitive salary and start-up package, an active doctoral program with institutional support for students, a highly interactive faculty and outstanding core facilities. Columbia, Missouri, is ranked among the top-ten best college towns in the U.S. We are committed to ethnic, racial, and gender diversity in our faculty and strongly encourage applications from women and members of groups underrepresented in mathematics and science.

Review of application materials (cover letter, CV, description of research plans and teaching interests, and contact information for three references, all compiled into a single PDF file) will begin October 10, 2014. Application submission instructions can be found at http://biology.missouri.edu/systemssearch. Questions should be addressed to systemssearch@missouri.edu.

Equal Employment Opportunity: The University of Missouri is an equal access, equal opportunity, affirmative action employer that is fully committed to achieving a diverse faculty and staff. For more information, call the Associate Vice Chancellor of Human Resource Services/Affirmative Action officer at 573-882-4256. To request ADA accommodations, please call Human Resource Services at 573-882-7976. TTY users, please call through Relay Missouri, 1-800-RELAY (735-2966) or en Español at 1-800-520-7309.

kingeg@missouri.edu

UNAM Mexico PlantConservationGenetics

Three tenure-track positions in Plant Science (root biology, conservation genetics, and molecular cytogenetics) are available at the Botanical Garden, Institute of Biology, National Autonomous University of Mexico (UNAM, Mexico City). Please see full advertisement in the following link: http://-www.ibiologia.unam.mx/Sec_acad/convocatorias.htm
Susana Magallon <s.magallon@ib.unam.mx>

UNebraska Lincoln EcolEvolutionInfectiousDisease

ASSISTANT PROFESSOR POSITION UNIVERSITY OF NEBRASKA-LINCOLN (UNL) SCHOOL OF BIOLOGICAL SCIENCES

The School of Biological Sciences continues to expand its faculty and invites nominations and applications for a tenure-track, assistant professor position in Infectious Disease Biology.

For this academic-year position we seek a scientist who studies the ecology and evolution of infectious disease.

The successful candidate will study population processes of infectious agents and work at the interface between theoretical models and empirical data. An interdisciplinary research approach is encouraged, as the successful candidate will have excellent opportunities to work with other faculty in fields of virology, parasitology, microbiology, epidemiology, population biology, evolutionary ecology, mathematical biology, and stress biology. It is expected that the successful candidate will establish a nationally recognized and extramurally funded research program and contribute to the undergraduate and graduate teaching missions of the School of Biological Sciences. A PhD (or equivalent) and experience in infectious disease biology or a related field is required. A minimum of one year of postdoctoral research experience is preferred.

This position is part of the strategic plans of UNL, the College of Arts and Sciences and the School of Biological Sciences directed to strengthen the life sciences. The successful candidate will receive a highly competitive start-up package. Lincoln, Nebraska boasts an outstanding quality of life that includes a vibrant downtown with lively music and art scene and a collection of over 120 parks and 130 miles of bike trails, plus a low cost of living. To learn more about the University of Nebraska and the School of Biological Sciences, visit http://biosci.unl.edu . Applicants should go to http://employment.unl.edu, search for requisition number F_140108 complete the Faculty Academic/Administrative Information form, attach a letter of application, Curriculum Vitae, a statement of research plans, a statement of teaching interests, and include the names and contact information for three references. Questions regarding the application process may be sent to biologysearch@unl.edu. Review of applications will begin on November 15, 2014 and continue until the position is filled or the search is closed. The University of Nebraska is committed to a pluralistic campus community through affirmative action, equal opportunity, work-life balance, and dual careers.

Kristi Montooth Associate Professor of Biology University of Nebraska kmontooth2@unl.edu

Kristi Montooth <kmontooth2@unl.edu>

UNorthCarolina Asheville VertebrateEvolution

The Department of Biology at the University of North Carolina Asheville, the UNC systems designated public liberal arts institution, is seeking qualified applicants with expertise in vertebrate zoology for a full-time, tenure-track assistant professor position that will begin in the fall semester of 2015. The person selected for this position must have earned a Ph.D. in Biology, Zoology or an appropriate discipline prior to August 10, 2015 and will be expected to teach 12 contact hours per semester; establish a research program that involves undergraduates; and engage in service to the institution, the community and the profession. Teaching duties will include contributions to our core curriculum for majors in evolution and zoology and upper-level courses (both field- and laboratory-based) in the candidates area of expertise. Individuals with postdoctoral experience, a passion for undergraduate teaching, and experience at an institution focused on the liberal arts are strongly encouraged to apply.

UNC Asheville has been a national leader in undergraduate research for almost 30 years, and over 60% of our students graduate each year having been involved in this important learning experience. The University fully embraces the idea of mentored undergraduate research being one of the highest forms of teaching, and the institution values success in this facet of a faculty members work. Therefore, the successful candidate for this position must be able to articulate a clear vision for a sustainable, highly productive, and externally funded undergraduate research program. Moreover, the Department is interested in expanding its opportunities for undergraduate research to include answering evolutionary or ecological questions using modern analytical approaches such as bioinformatics, molecular systematics, developmental biology, or quantitative or computational biology. Individuals with expertise in these areas are encouraged to apply.

In addition to having a passion for undergraduate teaching, research and mentorship, the UNC Asheville faculty is committed to disciplinary teaching through an inter- and multi-disciplinary lens and providing a premiere liberal arts education. Faculty members teach across the University's Liberal Arts Core (LAC) program, our required interdisciplinary liberal arts curriculum in courses that include, but are not limited to: introductory (freshman) colloquia; diversity intensives; courses that satisfy the Scientific Perspectives, Social Science courses and Arts and Ideas requirements; courses within the Humanities Program; and LAC Senior Capstone courses.

UNC Asheville is committed to promoting diversity and a work environment that encourages knowledge of, respect for, and the ability to engage with those of other cultures or backgrounds. Faculty members across cam-

pus and especially in STEM disciplines are encouraged to participate in leading the institutions efforts in promoting diversity and inclusion in the areas of pedagogy, programming, and service activity. Therefore, candidates interested in teaching science to and developing outreach activity for diverse student populations are especially encouraged to apply.

Applications for this position should be submitted electronically at https://jobs.unca.edu. Complete applications will include a cover letter, curriculum vitae, statement of teaching philosophy, a statement of research philosophy that includes a description of future research plans, unofficial undergraduate and graduate transcripts, and three letters of reference. The applicants letters of reference should address the candidates written, verbal and interpersonal skills; ability to teach and mentor undergraduate students; and potential to develop a successful, externally funded research program. Review of applications will begin October 16, 2014. Inquires may be directed to Dr. Timothy Forrest (tforrest@unca.edu), Chair, Department of Biology.

UNC Asheville is committed to equality and diversity of educational experiences for our students. Qualified individuals are encouraged to apply regardless of socioeconomic status, gender expression, gender and sexual identity, culture, or ideological beliefs. UNC Asheville is an Equal Employment Opportunity/Affirmative Action employer and will not discriminate against students, applicants, or employees on the basis of race, ethnicity, national origin, religion, age, sex, disability, political affiliation, protected veteran status, genetic information, or any other legally protected status with respect to all terms, conditions, and privileges of university-sponsored activities, employment, and the use of university facilities.

Rebecca Hale <rhale@unca.edu>

UNorthCarolina ChapelHill Evolution 2

Note we have not yet begun reviewing applications, so you have a few weeks to get your materials in!

The Department of Biology at the University of North Carolina at Chapel Hill seeks applicants for a permanent 9 month Lecturer position, effective January 1, 2015. The position involves teaching 2-3 classes per semester, including courses in Ecology/Evolution and Introductory Biology. The successful candidate will also contribute to the implementation and evaluation of newly funded programs to bring evidence-based teaching methods to introductory courses, collaborate with faculty conducting biology education research, and work closely with tenure-track faculty in their discipline.

Applicants should have a Ph.D. in the biological sciences or science education with at least one semester of full-time college teaching as instructor of record.

Candidates should have clearly demonstrated a commitment to using evidence-based teaching methods in the classroom and have strong interdisciplinary content knowledge.

To apply: Click on http://unc.peopleadmin.com/postings/47774 from any internet browser to apply for this position. Candidates must submit a letter of interest, a CV, and a concise statement of teaching philosophy and experience. In addition, candidates must also submit a link to a 10-minute teaching video as part of the application.

We require 2 letters of reference to be emailed with the subject line of $B!H(BLECTURER$B!I(B to fncrawf@email.unc.edu

The University of North Carolina is an Equal Opportunity Employer. http://www.bio.unc.edu/ JB

John Bruno Professor, Dept of Biology UNC Chapel Hill www.johnfbruno.com "Bruno, John" <jbruno@unc.edu>

UTennessee Knoxville SystemsBiol

Assistant Professor Position Molecular or Cellular Systems Biology University of Tennessee, Knoxville

The Department of Biochemistry and Cellular and Molecular Biology at the University of Tennessee, Knoxville invites applications for a tenure-track faculty position at the rank of Assistant Professor in the area of molecular and cellular systems biology. Systems biology seeks to understand and predict how molecules and cells interact and communicate to give rise to emergent properties and behaviors of biological systems. We seek applicants whose research interests lie in understanding central biological phenomena by analyzing multi-dimensional, or large-scale experimental data within a quantitative framework. Ideal candidates will integrate experimentation with biomolecules,

genomes, cells, or organisms with a tailored computational approach, such as bioinformatics, in the case of an omic-centered program, and/or mathematical modeling. The successful candidate should address questions that complement existing strengths in the department (cellular and developmental biology, plant and microbial biology, structural biology, neurobiology; see http://bcmb.utk.edu/ for details). We anticipate that the candidate will also take advantage of scientific interactions with the National Institute for Mathematical and Biological Synthesis on our campus or the nearby Oak Ridge National Laboratory.

A PhD in a relevant field and postdoctoral research experience are required. The successful candidate is expected to establish an innovative, externally funded research program and contribute to the departmental teaching mission at the undergraduate and graduate levels. We are seeking candidates who will actively contribute to the diversity and intercultural goals of the University. The position will start as early as August 1, 2015, and the salary will be competitive. Applications should include a brief cover letter, CV with list of publications, a 2-3 page outline of research interests, and a description of teaching interests. Please email the application as a single pdf file to bcmbsysbio@utk.edu, and arrange for three letters of recommendation to be sent directly to referenceletters@utk.edu. For informal inquiries please contact Albrecht von Arnim, PhD, at vonarnim@utk.edu. Review of applications will begin October 15, 2014 and will continue until the position is filled.

The University of Tennessee is an EEO/AA/Title VI/Title IX/Section 504/ADA/ADEA institution in the provision of its education and employment programs and services. All qualified applicants will receive equal consideration for employment without regards to race, color, national origin, religion, sex, pregnancy, marital status, sexual orientation, gender identity, age, physical or mental disability, or covered veteran status.

Dept. of Ecology & Evolutionary Biology Office Location: 439 Hesler Biology Building Mailing Address: 569 Dabney Hall University of Tennessee Knoxville, TN 37996-1610 Web page: http://eeb.bio.utk.edu/~gilchrist.asp Calendar: http://www.tiem.utk.edu/~mikeg/calendar.html Phone: (865) 974-6453 Fax: (865) 974-6042

mikeg@utk.edu

UToledo DNAResTech

Job: DNA Research Technician

University of Toledo's Lake Erie Center, Great Lakes Genetics/Genomics Lab

Closing Date: 10/01/2014 Salary: $35,000 or higher Annually, Great Benefits and Raises

Location: Lake Erie Center, Toledo, Ohio

We are seeking a professional career-oriented individual to be our new DNA research technician in the Great Lakes Genetics/Genomics laboratory the University of Toledo's Lake Erie Center, located on the shores of Lake Erie about 20-30 minutes from our main campus. The job involves DNA sequencing (Sanger, MiSeq, HiSeq preps), RT-PCR, micro satellites, and genetics/genomics analyses (see http://www.utoledo.edu/nsm/lec/). The position also entails training and supervising graduate and undergraduate students, ordering supplies, and maintaining equipment. Beautiful location, view, great working conditions.

Lab website: http://www.utoledo.edu/nsm/lec/research/glgl/index.html Qualifications: - 4 year university degree in science (Master's degree preferred) - 1 year or more professional laboratory research experience - Genetics/genomics research experience - Computer Database Skills/Experience - Superior Communication & People Skills - Knowledge of Nature, Fish, & the Great Lakes is a plus.

Apply online at https://jobs.utoledo.edu Posting #22766 The University of Toledo is an equal access, equal opportunity, affirmative action employer

Katy.Klymus@utoledo.edu

UVirginia EvolutionaryGenomics

Evolutionary Genomics Department of Biology University of Virginia

The Department of Biology at the University of Virginia is seeking to recruit an outstanding scholar in the field of Evolutionary Genomics. The successful can-

didate will have a combination of outstanding achievements and/or exceptional promise in understanding the genomic changes that drive evolution, or in understanding the evolutionary mechanisms that influence the organization and diversity of the genome itself. This faculty position is tenure track, and while the intent is to hire at the level of Assistant Professor, exceptional mid-career candidates will be considered at the level of Associate Professor. The Department of Biology is broad and inherently interdisciplinary, so we are particularly interested in applicants who bring cross-cutting ideas or technologies that create synergies among disciplines. Successful candidates will be expected to establish a vigorous, independent, and externally-funded research program, and to contribute excellence in undergraduate and gr aduate instruction and training. Candidates must have a Ph.D. or equivalent degree, and relevant post-doctoral experience. A generous start-up package and excellent research facilities are available. The anticipated start date for the position is August 25, 2015.

To apply, submit a candidate profile on-line through Jobs@UVA and search on posting number 0615055. Electronically attach the following: cover letter, curriculum vitae, statements of research interests and teaching philosophy, and contact information for three references. The deadline for receipt of applications is October 27, 2014.

Further information about the Department of Biology can be found at: http://bio.virginia.edu. Inquiries about the position should be directed to the Chair of the search committee, Douglas Taylor, dougtaylor@virginia.edu.

Questions regarding the application process and Jobs@ should be directed to: Richard Haverstrom, rkh6j@virginia.edu

The University performs background checks on all new faculty hires prior to making a final offer of employment.

The University of Virginia is an equal opportunity/affirmative action employer. Women, minorities, veterans and persons with disabilities are encouraged to apply.

dougtaylor.virginia.edu http://people.virginia.edu/~drt3b/index.php 434-982-5217

drt3b@eservices.virginia.edu

VanderbiltU 2 EvolutionaryBiology

Hi All,

Although the two positions below do not mention "evolution" explicitly, evolutionary biologists, especially ones working on the areas singled out (biochemistry & biophysics, organismal and plant biology, and systems biology) are STRONGLY encouraged to apply.

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VANDERBILT UNIVERSITY TWO TENURE TRACK FACULTY POSITIONS IN BIOLOGICAL SCIENCES

The Department of Biological Sciences at Vanderbilt University seeks candidates to fill two tenure-track, assistant professor faculty positions. We desire candidates whose research complements existing areas of strength within the department (http://as.vanderbilt.edu/biosci).

The scope of the search will reflect the full breadth of the department; we are particularly interested in candidates addressing fundamental questions in the areas of biochemistry & biophysics, organismal, plant, and systems biology. The central criteria for the position are excellence in research and the ability to teach undergraduate and graduate students with a high level of effectiveness. Women and under-represented minority candidates are especially encouraged to apply.

Applicants should send a single PDF containing a letter of application, curriculum vitae, statement of current and future research interests, and evidence of teaching effectiveness to alicia.goostree@vanderbilt.edu. Applicants should arrange for three letters of recommendation to be sent to the same address. Interested parties should submit their application by November 1, 2014, and review of applicants will continue until both positions have been filled. Vanderbilt University, located in the heart of Nashville, TN, is an Affirmative Action / Equal Opportunity Employer.

Antonis Rokas Cornelius Vanderbilt Chair in Biological Sciences Associate Professor of Biological Sciences and Biomedical Informatics Department of Biological Sciences, Vanderbilt University VU Station B 351634, Nashville, TN 37235 Email: antonis.rokas@Vanderbilt.Edu http://as.vanderbilt.edu/rokaslab/ –

"Rokas, Antonis" <antonis.rokas@Vanderbilt.Edu>

VillanovaU DevelopmentalBiology

Villanova University's Department of Biology invites applications for a tenure track developmental biologist with a rank of Assistant Professor. The successful candidate will establish a productive research program, integrate undergraduate and graduate students into the research, seek extramural funding, and teach effectively in the vibrant curriculum of the department. We seek an 'organismal' biologist who will contribute to teaching in developmental biology and in additional courses based on his or her area of expertise at both the undergraduate and graduate levels. The successful candidate will maintain an active, productive research program, integrate undergraduate and graduate students into research, and teach effectively. The successful candidate will receive a start-up package and will be expected to apply for extramural funding.

Preferred Qualifications: Expertise in developmental biology with a broader application to organismal biology. The applicant's teaching and research interests should focus on the structure and function of organisms and may address questions related to broader areas such as:

Evolutionary Biology, neuroscience, or biomedical sciences. Applicants should show potential for excellence in teaching in a liberal arts setting.

Villanova is a Catholic university sponsored by the Augustinian order. Diversity and inclusion have been and will continue to be an integral component of Villanova University's mission. The University is an Equal Opportunity/ Affirmative Action employer and seeks candidates who understand, respect and can contribute to the University's mission and values.

Applications must be submitted online (https://-jobs.villanova.edu/login) and will include:

Complete curriculum vitae

Teaching statement

Plan of proposed research

Statement of contribution to the mission

Unofficial undergraduate and graduate transcripts. Official transcripts can be sent to: Organismal Biology Search Committee, Department of Biology, Villanova University, 800 Lancaster Ave, Villanova, PA, 19085

Contact information for 3 references who will receive a secure email link to upload a confidential letter of recommendation when you submit your application.

The successful candidate will receive a start-up package. Review of applications will begin 24 October 2014; the starting date is expected to be August of 2015.

Todd Jackman, Professor Department of Biology Villanova University Mendel Hall Villanova, PA 19085 Office: 610-519-5502 Lab:610-519-5503 http://todd.jackman.villanova.edu Todd Jackman <todd.jackman@villanova.edu>

WestVirginiaU MicrobialMetagenomics

Tenure-Track position in Microbial Metagenomics: As part of a University-wide expansion in genomics-oriented research, West Virginia University invites applications for a tenure-track position at the Assistant Professor level in the Department of Biology (http:/-/biology.wvu.edu), to begin August 2015. The successful candidate will join a rapidly-growing genomics community at WVU spanning plant, microbial, and animal systems. We seek an individual who will use the power of molecular and/or systems-enabled approaches to answer basic and applied questions related to microbial ecology and evolution, including, for example, questions concerning biotic interactions within the context of plant or animal microbiotas. Applicants should have a broad biology background and strong interdisciplinary skills to develop an externally-funded independent research program and contribute to the undergraduate and graduate teaching missions of the department. Requirements include a PhD or equivalent degree in biology or a related field, a strong record of scholarly publications, strong post-doctoral experience, excellent written and oral communication skills, and the potential to secure external funding. Qualified applicants should submit a single PDF file including: 1) cover letter; 2) research statement; 3) teaching philosophy; 4) curriculum vitae; 5) up to three representative publications; and 6) contact information for 3 references to WVUBiology@mail.wvu.edu. Please specify 'Microbial Metagenomics position' in the email subject. Review of applications will commence on November 15, 2014. For more information about the position contact Rita Rio (rita.rio@mail.wvu.edu). For more informa-

tion about WVU and the city of Morgantown, WV: www.biology.wvu.edu/jobs/about_morgantown .WVU is an EEO/Affirmative Action Employer and the recipient of an NSF ADVANCE award for gender equity. The university welcomes applications from all qualified individuals, including minorities, females, individuals with disabilities, and veterans.

Stephen DiFazio Associate Professor, Department of Biology Director, WVU Genomics Core Facility 5200 Life Sciences Building West Virginia University 53 Campus Drive Morgantown, WV 26506-6057 (304) 293-5314 Fax: (304) 293-6363 spdifazio@mail.wvu.edu http://www.as.wvu.edu/ ~ sdifazio http://genomics.as.wvu.edu/ Stephen DiFazio <Stephen.DiFazio@mail.wvu.edu>

WrightStateU MicrobialEcology

Tenure-track Faculty Position in Microbial Ecology, Department of Biological Sciences, Wright State University, Dayton, OH 45435

The Department of Biological Sciences at Wright State University in Dayton, OH invites applications for a full-time tenure-track microbial ecologist at the ASSISTANT PROFESSOR level to begin Fall 2015. We are seeking candidates who can contribute to a growing interdepartmental cluster in global change research and the interdisciplinary Environmental Sciences PhD program (http://science-math.wright.edu/environmental-sciences-phd). The successful candidate will be expected to establish a vibrant, extramurally funded program of research in global change microbial biology that will complement existing expertise in genomics, spatial analysis, ecosystem ecology, and plant ecology. Teaching may include contributing to the department's courses in microbiology, ecology, and the candidate's area(s) of expertise. A doctoral degree and a minimum of one year of postdoctoral experience at the time of consideration are required.

Departmental faculty participate in the Biological Sciences MSc program and the interdisciplinary Environmental Sciences and Biomedical Sciences PhD programs. In addition to the College of Science and Mathematics, opportunities for collaboration are also available in WSU's Boonshoft School of Medicine, the College of Engineering, and the Lifespan Health Research Center. Resources in support of research include genomics and proteomics facilities, a breadth of microscopy instrumentation, a greenhouse, forest preserve and nearby wetland complexes, an animal care facility, and opportunities to collaborate with individuals at numerous regional clinical, industrial, and research institutions, including the Air Force Research Laboratory at Wright Patterson Air Force Base. A competitive start-up package will be tailored to the specific needs of the successful candidate.

WSU has nearly 20,000 undergraduate and graduate students, and the Department of Biological Sciences graduates approximately 150 students per year. More information about Wright State University, the Department of Biological Sciences, its graduate programs, and this open faculty position can be found at http://science-math.wright.edu/biology. Criteria for promotion and tenure in Biological Sciences at WSU can be found at http://sciencemath.wright.edu/biology/about/bylaws.

Applicants should submit a letter of application, curriculum vitae, statements of research and teaching interests, and the names and contact information for three letters of reference via http://-jobs.wright.edu/postings/7792. Additional details can be found at: http://www.wright.edu/hr/employment/-jobopps.html. First consideration for review of applicants will begin November 17, 2014. Wright State University, an equal opportunity/affirmative action employer, is committed to an inclusive environment and strongly encourages applications from minorities, females, veterans and individuals with disabilities.

jeffrey.peters@wright.edu

YaleU EvolutionaryPhysiology

The Department of Ecology and Evolutionary Biology at Yale University invites applications for an Assistant Professor in physiology and functional biology. Focal research areas could include comparative, molecular, evolutionary, or ecological physiology, functional biology, biomechanics, or biomaterials science. We seek applicants who use creative approaches to address fundamental questions in organismal biology and who are eager to contribute to undergraduate and graduate teaching in physiology and associated fields. A record of outstanding achievement and a promising research program are more important than the specific research area.

Interested candidates should submit online a CV, three

relevant reprints or manuscripts, brief research and teaching statements, and three letters of reference at https://academicjobsonline.org/ajo/Yale/EEB .Review of applications will begin on 1 November 2014. The search will remain open until the position is filled.

Yale University is an Equal Opportunity/Affirmative Action Employer. Yale values diversity among its students, staff, and faculty and strongly welcomes applications from women, persons with disabilities, protected veterans and under-represented groups.

Thomas J. Near Associate Professor and Curator Director of Undergraduate Studies (DUS) Department of Ecology & Evolutionary Biology Peabody Museum of Natural History Yale University New Haven, CT 06520 USA (203) 432-3002 thomas.near@yale.edu

thomas.near@yale.edu

YaleU MicrobialEvolution

The multidisciplinary Microbial Sciences Institute, a cornerstone of Yales new West Campus research enterprise, invites applications for a tenured or tenure-track position at the assistant, associate or FULL professor level to commence 1 July 2015. The position will have a primary appointment in the Department of Ecology and Evolutionary Biology within the Faculty of Arts and Sciences. Candidates must have a Ph.D. or equivalent degree in a relevant discipline and a record of outstanding research that demonstrates originality in addressing significant questions in the broad area of microbial sciences. We expect the successful candidate will establish an active research group, be an interactive member of the faculty, participate in interdisciplinary research and training, and engage in regular graduate and undergraduate teaching. Communication skills conducive to excellence in teaching at both the undergraduate and graduate levels are necessary.

Relevant research areas include, among others, microbial ecology, functional, comparative or evolutionary genomics, microbial interactions with other organisms, geomicrobiology, environmental microbiology, and microbial genetics and physiology. We seek applications from candidates studying any microbes (viruses, bacteria, archaea or eukaryotic microorganisms), and using any experimental or computational approach.

Applicants should create a profile at https://-academicjobsonline.org/ajo/jobs/4426 and upload a statement of research accomplishments and plans (under 5 pages), curriculum vitae, and up to five reprints of published work(s). Applicants should also arrange for three references to upload their letters of recommendation. The review of applications will begin on 15 October 2014 and will continue until the position is filled. For further information, contact Kelly Locke at kelly.locke@yale.edu<mailto:kelly.locke@yale.edu> or Microbial Sciences Institute P.O. Box 27389 West Haven, CT 06516-7390. Yale University is an affirmative action, equal opportunity employer. Yale values diversity among its faculty, students, and staff and strongly encourages applications from women, persons with disabilities, underrepresented minorities and protected veterans.

“Turner, Paul” <paul.turner@yale.edu>

Other

ASN FourAwards CallForNominations

The Jasper Loftus-Hills Young Investigator Award: Jasper Loftus-Hills (1946-1974) was an Australian biologist of exceptional promise when he was killed by a hit-and-run driver while recording frog calls along a Texas highway, three years after receiving his degree. The award was established in 1984 to recognize promising outstanding work by investigators who received their doctorates in the three years preceding the application deadline, or who are in their final year of graduate school. It involves presentation of a research paper in the Young Investigator's Symposium at the ASN annual meeting and includes a $500 prize, a travel allowance of $700, cost of registration for the meetings, and a supplement of $800 for travel and other expenses for this year's case of intercontinental travel. Four awards are made annually. Recipients need not be members of the Society. The prize committee encourages direct applications and welcomes suggestions of people who should be encouraged to apply. Applications should consist of no more than three pages that summarize the applicant's work (excluding tables, figures, and references), no more than four appropriate reprints, and a CV combined as a single pdf. Two letters from individuals familiar with the applicant's work should be sent separately. All application materials should be sent via e-mail by January 1, 2015, to Jonathan Shurin (jshurin@ucsd.edu). Please indicate "Young Investigators' Award" in the subject line, and for reference letters, the name of the applicant.

The Edward O. Wilson Naturalist Award: This award is given to an active investigator in mid-career who has made significant contributions to the knowledge of a particular ecosystem or group of organisms. Individuals whose research and writing illuminate principles of evolutionary biology and an enhanced aesthetic appreciation of natural history will merit special consideration. The recipient need not be a member of the Society. The award will consist of an especially appropriate work of art and a prize of $2,000. The ASN strongly encourages its members to submit nominations of deserving people. The names of former recipients can be found here http://www.asnamnat.org/awards.html. Nominations will be held over for two years. The application packet should be in the form of a single pdf consisting of a letter of nomination, curriculum vitae of candidate including a publication list, and three key publications to be sent electronically by January 1, 2015, to Bernard Crespi (crespi@sfu.ca). Please indicate "E. O. Wilson Award" in the subject line.

The Sewall Wright Award: This award was established in 1991 for a senior (but still highly active) investigator who has made major contributions that relate to the goals of the ASN (namely, to further the conceptual unification of the biological sciences). The award includes an honorarium of $1,000. The winner need not be a member of the Society or an American. The ASN strongly encourages its member to submit nominations of deserving people. The names of former recipients can be found here http://www.asnamnat.org/-awards.html. Nominations will be held over for two years. The application packet should be in the form of a single pdf consisting of a letter of nomination, curriculum vitae of candidate including a publication list, and three key publications to be sent electronically by January 1, 2015, to Ilkka Hanski (ilkka.hanski@helskini.fi). Please indicate "Sewall Wright Award" in the subject line.

The ASN Student Research Awards: Student Research Awards support research by student members that advances the goals of the society: the conceptual unification of ecology, evolution, or behavior. Each award consists of a $2,000 check to the candidate. An applicant must be a member of the ASN (membership is international), must hold a bachelor 's degree or equivalent, must have passed to candidacy in a PhD program or equivalent, and must be at least one year from completing the PhD. Applicants should send a two-page proposal (not including references). In addition, applicants should include a budget with justification (one page), a short curriculum vitae (two pages), a statement from the PhD supervisor that verifies that the applicant meets the eligibility requirements, and the supervisor 's recommendation supporting the research proposed by the student (one page). Projects in all types of research (i.e., laboratory, field, theory) are encouraged. A total of ten proposals will receive awards. Proposals will be judged on originality, strength and significance of the questions being addressed, prospects

for significant results, and the match between the proposed research and the ASN mission. All materials should be compiled into one PDF file and sent via e-mail to Jennifer Lau (jenlau@msu.edu). Please indicate 'ASN Student Research

— / —

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

Bee GeneticDifferenetiation

Dear EvolDir Members,

As part of a meta-analysis on bee population genetics, I request information regarding population differentiation indices in bees. This request is part of a collaborative study between myself, Shalene Jha (Assistant Professor in the Department of Integrative Biology at the University of Texas at Austin), and Margarita López-Uribe (Postdoctoral Researcher at North Carolina State University).

So far, we have examined studies acquired through the Web of Science, but we would like to increase our sample size with the incorporation of additional studies (published or unpublished).

Specifically, we are looking for data sets where bee population genetics analyses have been conducted with:

at least 5 microsatellite markers

at least 20 unrelated individual per population

at least 5 populations

If you have one or more data sets that satisfy these criteria and are willing to contribute, please provide us with the reference to your work (if published) and the Fst estimator with 95% CI. We would also be interested in G'st (Hedrick 1995) and Jost's D (Jost 2008) if you have those available, too.

Your contribution would obviously be acknowledged and your publication(s) cited.

We'd like to publicly thank the individuals whom we've already contacted directly and who generously offered their data.

Thank you very much in advance

Antonella Soro

antonella.soro@zoologie.uni-halle.de

Dr. Antonella Soro Institut für Biologie / Allgemeine Zoologie Martin-Luther-Universität Halle-Wittenberg Hoher Weg 8 D-06120 Halle (Saale) Germany

t: 0049 345 55 26 504 f: 0049 345 55 27 428

Antonella Soro <antonella.soro@zoologie.uni-halle.de>

Boesiger ReferenceHelp

Hello, I wonder if anyone out there has a pdf of this paper please.

Boesiger, E., 1968: Estimation globale de l'age des femelles de Drosophila melanogaster capturees dans des populations oaturelles. Compte Rendu des Seances de la Societe de Biologie, 162: 358-361

Thanks in advance David

Prof DJ Hosken University of Exeter, Cornwall Tremough, Penryn TR10 9FE UK

01326 371843 D.J.Hosken@exeter.ac.uk http://-biosciences.exeter.ac.uk/staff/index.php?web_id=-david_hosken DJ Hosken <D.J.Hosken@exeter.ac.uk>

Brachionus samples

Dear Evoldir Community

We are looking for a life sample of freshwater rotifers. We are running experiments with microalgae and would like to introduce students to the topic of predation. For technical reasons, we need rotifers. Small crustaceans won't work.

Any advice on where to get them and how to culture them is greatly appreciated!

Dominik

Dr Dominik Refardt Wissenschaftlicher Mitarbeiter Forschungsgruppe Ã-kotechnologie

Zürcher Hochschule für Angewandte Wissenschaften Institut für Umwelt und Natürliche Ressourcen Campus Grüental CH-8820 Wädenswil

Telefon: +41 58 934 53 65 E-Mail: do-

minik.refardt@zhaw.ch

dominik.refardt@gmail.com

CanadianInstEcolEvol ThemeGroups CallProposals

New Call For Proposals

The Canadian Institute of Ecology and Evolution (CIEE) seeks proposals for Thematic Programs (Working Groups). These new thematic programs will be staged over the 12 month period from January to December 2015. The proposals should outline a plan to address significant questions in ecology and evolution through synthesis and integration of existing data (e.g., quantitative research synthesis, compilation and meta-analysis of existing data sets). Applicants must define the project scope, meeting agenda, inclusive budget, and plan for publication. CIEE/ICEE provides logistic support and travel expenses. In the past, working groups were awarded grants valued from $ 6,000 to $17,000. Programs can be also co-sponsored with other organizations. Working group involve 10 to 20 participants, including graduate students. Meetings can be held at any location in Canada; however preference will be given to meetings hosted at member organizations.

The deadline for submission of proposals is 1 November 2014.

Please visit our website (http://www.ciee-icee.ca/news-and-announcements) for details in the application.

Dr. Peter R. Leavitt, Director

Dr. Diego F. Steinaker, Assistant Director

CIEE /ICEE, Canadian Institute of Ecology and Evolution / Institut canadien d'écologie et d'évolution

Email: ciee-icee@uregina.ca

Twitter: @CIEEICEE

www.ciee-icee.ca

Nouvel appel à propositions

L'Institut canadien d'écologie et d'évolution (ICEE) accepte les propositions d'ateliers thématiques (groupes de travail). Les nouveaux groupes de travail devront se dérouler dans les 12 mois allant de janvier à décembre 2015. Les propositions doivent présenter un plan de résolution de problèmes d'importance en écologie et en évolution par la synthèse et l'intégration de données existantes (par exemple, par la synthèse de recherches quantitatives ou la compilation et la méta-analyse de bases de données existantes). Elles doivent aussi préciser la portée du projet, les rencontres prévues, le budget total et les publications anticipées. L'ICEE fournit le soutien logistique et couvre les frais de déplacement. Par le passé, les groupes de travail se sont vu accorder des subventions allant de 6 000 à 17 000 $. Les ateliers peuvent également être coparrainés par d'autres organismes. Les groupes réunissent 10 à 20 personnes, incluant les étudiants et étudiantes aux cycles supérieurs. Les rencontres peuvent se dérouler n'importe oÃ¹ au Canada, la préférence sera cependant accordée aux réunions organisées dans les établissements membres. L'ICEE offre également aux groupes la possibilité d'utiliser les installations et le soutien logistique de son Centre de synthèse à l'University of Regina.

Soumettez la proposition complète en un seul fichier Adobe PDF d'ici le 1erNovembre, 2014 à : ciee-icee@uregina.ca.

Consulter notre site web pour plus de détails (http://-www.ciee-icee.ca/fr/annonces-et-nouvelles).

Dr. Peter R. Leavitt, Director

Dr. Diego F. Steinaker, Assistant Director

CIEE /ICEE, Canadian Institute of Ecology and Evolution / Institut canadien d'écologie et d'évolution

Email: ciee-icee@uregina.ca

Twitter: @CIEEICEE

www.ciee-icee.ca Ciee Icee <Ciee-Icee@uregina.ca>

Denaturing ethanol

Dear colleagues,

I would like to order larger amount of ethanol for preserving invertebrate samples for subsequent DNA work, and have it denatured for tax reasons (denatured EtOH costs a fraction of the price of pure one).

The supplier can add denaturing agent of my choice. Do you have any experience which of the additives are OK for downstream applications in molecular ecology? Please, send the replies to my address, I will the collect answers, and provide a summary to Evoldir.

Thank you!

Adam Petrusek

Adam Petrusek Department of Ecology Charles University in Prague Vinicna 7 CZ-12844 Prague 2 Czech Republic

e-mail: petrusek@natur.cuni.cz

Pokud je tento e-mail souèástíobchodního jednání, Pøírodovìdecká fakulta Univerzity Karlovy v Praze: a) si vyhrazuje právo jednáníkdykoliv ukonèit a to i bez uvedenídùvodu, b) stanovuje, $\frac{3}{4}$e smlouva musímít písemnou formu, c) vyluèuje pøijetínabídky s dodatkem èi odchylkou, d) stanovuje, $\frac{3}{4}$e smlouva je uzavøena teprve výslovným dosa$\frac{3}{4}$ením shody na v^{1}ech nále$\frac{3}{4}$itostech smlouvy.

petrusek@natur.cuni.cz

ESEB outreachFund DeadlineSep15

ESEB Outreach Fund

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

Applications for funding will be accepted for educational initiatives that promote evolution, development of evolutionary material (books, films, websites) intended for a general audience, public outreach seminars, public exhibitions, etc. While most projects will be financed for a sum between 1000-1500 Euro, exceptions can be made if a strong argument is provided for additional funds.

The application form can be found on www.eseb.org (click on the "Outreach Fund" link). Applications will be accepted twice yearly (deadlines March 15, September 15) and should be submitted by email to Ute Friedrich (office@eseb.org; Subject: Outreach).

Dr. Ute Friedrich ESEB Office Manager Email: office@eseb.org European Society of Evolutionary Biology - www.eseb.org

office@eseb.org

EvoDevo Funding

Dear Colleague,

This email is to remind you that the upcoming deadline for research exchange grants from the Evo-Devo-Eco Network (EDEN) is October 31, 2014. EDEN is a program funded by the National Science Foundation Research Coordination (http://edenrcn.com/).

One of EDENs major goals is to enable graduate students, postdoctoral fellows, and faculty to undertake research exchanges in the field of Evo-Devo-Eco, in order to develop or share techniques, protocols and tools for use with emerging model systems.

Please note that the eligibility for EDEN funding is as follows:

Researchers based anywhere in the world can apply for funding to visit labs in the US.

Researchers based in the US are eligible for funding to visit labs anywhere in the world.

Each exchange will consist of an award of up to $3,000 per researcher toward travel, lodging and subsistence costs. You can find out more about this program at http://edenrcn.com/funding/index.html. If you know of outstanding lab personnel who would be interested, please forward this announcement to them.

You can read more about EDEN's activities and opportunities at http://www.edenrcn.com, where you will be able to obtain protocols for evo-devo-eco work developed with EDEN funding.

Please feel free to email edenrcn@fas.harvard.edu with questions about the program, and forward this email to colleagues who you think would be interested in EDEN.

Best wishes,

Cassandra Extavour

EDEN Grants <edenrcn@fas.harvard.edu>

InsectEvolution StudentPrize

The student award "Appreciation for the Natural His-

tory of Insect Pests" is in its third year!

Selection criteria and conditions: The selection committee will award $500 to the student who in the given year publishes the most interesting and inspiring research paper on insects which are usually regarded as pests.

For details, please see: http://-www.ambrosiasymbiosis.org/award/ The award: $500 awarded annually to one recipient. Sponsored by the Forest Entomology lab at the University of Florida and by the TREE Foundation in Sarasota, FL.

Who is eligible: University students regardless of their geographic location.

Due date: Each year on December 31st

Jiri Hulcr, Assistant Professor University of Florida | School of Forest Resources and Conservation 352-273-0299 | www.ambrosiasymbiosis.org "Hulcr,Jiri" <hulcr@ufl.edu>

Microsatellite gels

I am trying to redesign a cladistics laboratory for undergraduate bio majors and want the students to create their own matrices based on microsatellite data. So, I'm hoping members of the evoldir community would be willing to share their old gels–either films or digital images. If you are willing to send any old films, I will happily pay for mailing them. Our plan is to have the students generate a simple cladogram using morphological data and then "test" it using the microsatellite data.

Thanks so much!

– Diane Ramos, PhD

Associate Professor Natural Sciences Department Daemen College 4380 Main St. Amherst, NY 14226

Duns Scotus 329 dramos@daemen.edu 716.839.8560

dramos@daemen.edu

OpenData survey

The Belmont Forum e-Infrastructure Initiative is very active through the geological societies and their impact in global dataportals and data sharing. I myself am a biologist and would like to contribute with a stronger impact on the organismal side in the scope of Future Earth and global biodiversity changes. Thus I thought the evol-dir mailinglist would be a good place to ask people from the systematic/evolutionary community how they use and provide "open data". Surely we do have GBIF which is great, however so much more data is out there which we do have to share and combine with climate and geological data - to better crosslink between disciplines and communities - I would be grateful for additional impact.

Best Birgit

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Dear all (and with immediate apologies for cross-posting!),

Please follow the link below to participate in our open data survey;

Open Data Survey: https://www.surveymonkey.com/-s/Open_Data_WP5 This survey targets researchers of various science communities, interested laypersons, government employees, and others who are providing and/or using open data in the scope of global environmental change, or are planning/interested in doing so in the future. We invite you to share your views and experiences on data publishing, access and use. Based on the results we aim to produce recommendations for research funders on how to support global e-infrastructures using a coordinated and sustainable approach - from the planning phase, implementation, and management of data, analytics and through international collaboration.

We are interested to learn more about: - Key open data activities in various communities with global environmental change to identify leading examples of best practice from a user perspective; - Reasons where users' desire to share can be enhanced by new/other developments; - Barriers to "open data sharing" from a user perspective (as a data provider or data user).

The survey is anonymous and voluntary containing 19 questions across 7 pages.

Thank you in advance for your contribution and please do get back to me (k.oakley@reading.ac.uk) with any questions.

Birgit Gemeinholzer <Birgit.Gemeinholzer@bot1.bio.uni-giessen.de>

Phyloseminar ErikVolz Oct02

Next on phyloseminar.org we will have three talks about viral phylodynamics.

Phylodynamics of infectious disease epidemics Erik Volz Imperial College London Thursday, October 2, 2014 9:00 AM PDT

The genetic diversity of many pathogens is shaped by epidemiological history. But, the dynamics of infectious disease epidemics differ in important ways from demographic processes that have traditionally been studied by population geneticists. In many epidemics, the population size and birth rate changes rapidly in a nonlinear fashion through time. Mathematical models for describing infectious disease dynamics have a long history that has run parallel to the development of modern population genetics, but until recently, there has been little communication between these fields.Interest has grown in developing a new set of mathematical models for genealogies generated by epidemic processes. These methods reveal how the effective population size of a pathogen depends on transmission rates, the number of infected hosts, and the size of the bottleneck at the time of transmission. These mathematical models have also enabled new applications of pathogen genetic data to public health. Pathogen genetic data can be informative about epidemic processes in ways that standard surveillance data are not, especially regarding the source of infections and risk factors for transmission. I will review several approaches to mathematical modeling of pathogen genealogies and present applications of these methods to HIV-1 and the recent Ebola virus epidemic in Western Africa.

See http://phyloseminar.org/ for more details and to find the date and time in your time zone.

Frederick "Erick" Matsen, Assistant Member Fred Hutchinson Cancer Research Center http://-matsen.fhcrc.org/ ematsen@gmail.com

Provine book

In his new book "The Random Genetic Drift Fallacy," William B. Provine challenges random genetic drift. Provine wrote books about the history of population genetics and Sewall Wright. Fisher's 1922 paper concluded that random genetic drift was inbreeding. He misunderstood meiosis (1935-1940) in cell division for gametes. Inbreeding is not random genetic drift. Fisher's view was supported by Sewall Wright and J. B. S. Haldane. Their three views of evolution became the origin of population genetics and continue today. The experiments of random genetic drift in domestic populations during the late 1940s and 1950s were inbreeding. Kimura and Ohta had a major problem with random genetic drift in small and large populations. Provine addresses random genetic drift in prokaryotes, gene pools, selection at one locus, and in laws of physics applied to population genetics.

Go to Amazon.com and enter William B. Provine.

William Ball Provine <provine@cornell.edu>

Reinhard Rieger Award

Dear colleagues,

we are very honored to announce that with receiving the Reinhard-Rieger-Award (http://www.uibk.ac.at/-zoology/reinhard-rieger-award/index.html.de) for 2014 our awarded paper has been activated as "open access" under the following link until the end of October:

http://onlinelibrary.wiley.com/doi/10.1002/-jmor.20133/full Please feel free to download the paper and enjoy reading!

On behalf of the working group. Dr. Christian Wirkner

http://www.zoologie.uni-rostock.de/en/ Also feel free to contact the Award winner himself (Jonas Keiler) here: http://www.zoologie.uni-rostock.de/en/staff/-jonaskeiler/ osmoller@gmail.com

SMBE Vienna CallForSymposia

Dear Colleague,

The Society for Molecular Biology and Evolution is now accepting proposals for symposium topics for the 2015

annual meeting, taking place in Vienna July 12th-16th 2015.

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

- free registration for invited speakers

- free accommodation for invited speakers

- up to 1900â¬*travelsupport*

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

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

We hope to see you all in Vienna!

Kind regards,

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

SMBE 2015 in Vienna http://smbe2015.at Julia Hosp <Julia.Hosp@vetmeduni.ac.at>

Software Bioinformatics Education 4273pi

Dear Evoldir,

For anyone interested in teaching and learning computational biology - including phylogeny - on the flexible, low-cost Raspberry Pi computer: we are delighted to announce release 1.2 of 4273pi.

Please download it free, at:

http://eggg.st-andrews.ac.uk/4273pi New in this version:

- The Open Access course, 4273pi Bioinformatics for Biologists, is now subdivided into separate 'components'. This makes it far easier to create your own short course or integrate components with other teaching material.

- Latest updates to Raspbian Linux, Swissprot protein database, lectures and practical classes.

4273pi Bioinformatics for Biologists is based on undergraduate-level teaching material at the University of St Andrews. We have also used two components in extremely successful events with schools: see http:/-/synergy.st-andrews.ac.uk/biooutreach/2014/06/11/-kilgraston-pi and http://synergy.st-andrews.ac.uk/-biooutreach/2014/08/25/forfar-academy-pi .

Thank you,

Daniel

– 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

Software Lamarc 2 1 10 released

Dear LAMARC users,

We announce the release of Lamarc 2.1.10. This version corrects an error in the file conversion program lam_conv when customized migration matrices were used. The resulting matrices were reversed: that is, if the user specified the migration rate from A to B, this actually set the rate from B to A.

If you used an asymmetrical custom migration matrix in lam_conv you will need to re-convert your files and re-run your analysis. All other results are unaffected.

Source code and precompiled executables for Linux, Windows, and OSX are available on the Lamarc web site:

http://evolution.gs.washington.edu/lamarc.html Any questions or concerns about Lamarc can be directed to lamarc@uw.edu. We also very much enjoy hearing about successful use of Lamarc, including any resulting publications.

Sincerely, Mary Kuhner Lamarc Development Team lamarc@uw.edu

mkkuhner@u.washington.edu

Software LUSt Supertree

Dear All,

We are pleased to announce the release of the L.U.St supertree package. Included in the package is the ability to inferred a *Maximum Likelihood* supertree using a truly parametric ML supertree method. The package also features for the first time the ability to perform *standard test of two trees,* i.e. the *AU test*, to choose between alternative supertrees (hypotheses).

This package also offers the user the ability to manipulate the input tree data set in many different ways e.g. Pruning taxa, derooting, rerooting, polytomy resolution etc.

Paper published in BMC Bioinf.: http://-www.biomedcentral.com/1471-2105/15/183 source code available on bitbucket with easy download and implementation instructions: https://bitbucket.org/-afro-juju/l.u.st Sincerely Wasiu Ajenifuja Akanni

Post Doctoral Research assistant Department of Life Sciences Room DC1 304, North West building | Natural History Museum | London | SW7 5BD | 020 7942 5412

PhD student - IRCSET scholar Molecular Evolution and Bioinformatics Unit National University of Ireland, Maynooth Ireland

Wasiu Akanni <waakanni13@gmail.com>

PostDocs

Bayer DavisCA Bioinformatics

Bioinformatics Scientist - 2-3 years limited term

Job Description Bayer Biologics, a division of Bayer CropScience in Davis, CA, is currently seeking to fill a Bioinformatics Scientist position within the Biologics Informatics group.

The candidate will be responsible for: . Participating in a multi-disciplinary team of scientists to offer bioinformatics, genomics, transcriptomics and other omics solutions for controlling pests and diseases in plant and promoting plant health using microbes; . Proactively identifying and incorporating new algorithms and technology to automate the analysis of microbial genomes and to extend the features of existing analysis pipeline; . Understanding the dynamics of plant, microbe and pest/pathogen interaction using various omics technologies; . Managing next-generation sequencing (NGS) data and analyses; . Training research staff on the use of relevant bioinformatics software and tools; . Working with other non-bioinformatics team member in the Informatics group to understand their roles and to serve as backups as needed; . Communicating effectively through listening, documentations and presentations, especially using compelling visualization tools to share analysis and interpretation of data.

The candidate is required to possess the following: . M.S or Ph.D. or equivalent in Computational Biology, Bioinformatics, Genomics, Microbiology, Plant Biology or related field and any level of post-graduate industry and/or academic experience; . Ability to handle a large data set efficiently using scripts, particularly in the analysis of NGS data; . Familiar with commercial and open-source bioinformatics tools; . In depth familiarity with various public genomic databases; . Genome assembly of microbial genomes; . Experiences in three or more of the following areas: comparative genomics, transcriptome sequencing analysis, phylogenetic analysis, pathway modeling and analysis, metagenomics analysis, and/or genome wide association studies.

Preferred Skills/Experience: . Experiences working in the biotech sector focusing on plant health and crop protection; . Knowledge of statistical software tools and packages; . Familiar with SQL and relational database, particularly PostgreSQL; . Fluent in Python, Perl, or other scripting languages; . Previous laboratory experience; . Knowledge of bacterial and plant genetics; . Working with high performance computing clusters.

Thank you,

Matt Armstrong Senior Recruiter

Bayer Corporation HR//Services 100 Bayer Road Pittsburgh, PA 15205-9741 USA Office: (412) 778-6688 Email: matthew.armstrong@bayer.com Web: http://www.bayer.com Career Site: http://www.career.bayer.us Matthew Armstrong <matthew.armstrong@bayer.com>

BostonU CoralReefFishPopGenetics

National Science Foundation supported Ph.D. or Postdoctoral position

We seek applications for one PhD or Postdoctoral position, funded by the NSF project 'An Integrative Investigation of Population Connectivity Using a Coral Reef Fish.' The position can be based in the Boston Lab in the Department of Biology at Boston University or the Webb Lab in the Department of Biology at Colorado State University.

Project overview

Understanding the patterns of marine larval dispersal and population connectivity is central to understanding marine population dynamics, marine population divergence, and how to design effective networks of marine reserves. Over the last decade, three methods, each of which tells us something slightly different, have emerged as the leading contenders to provide the great-

est insights into marine population connectivity: direct genetic methods, coupled biophysical models, and indirect genetic methods. We are conducting an integrative investigation of population connectivity, using all three methods, in one very tractable system: the neon goby, *Elacatinus lori*, on the Belizean Barrier Reef. The research has three main objectives: 1) determine the relationship between distance and the probability of successful dispersal measured using direct genetic methods; 2) determine the relationship between the probability of successful dispersal predicted by coupled biophysical models and that measured using direct genetic methods; and, 3) determine the relationship between spatial genetic structure predicted by evolutionary ecology models and that measured using indirect genetic methods.

Position description

The PhD or postdoc will work on objective 3 of the project, developing evolutionary ecology models that use data on patterns of larval dispersal to predict patterns of genetic structure. The candidate will have strong interests in ecology and evolution and a strong quantitative and computational background. We encourage applications from students in mathematics, physics, engineering and computer science who have demonstrable interest applying their skills in the fields of ecology and evolution, as well as applications from students in biology, ecology, evolution and marine science with an excellent quantitative and computational background.

How to apply

To apply, please e-mail Katie Hartmann (kahartma@rams.colostate.edu) with PDFs of your CV, transcript, GRE results, and a one page statement of your career aspirations and why you are interested in the position. If you have further questions about the position, please contact Peter Buston (buston@bu.edu) and Colleen Webb (Colleen.Webb@colostate.edu).

Katherine Hartmann <kahartma@rams.colostate.edu>

Cairns Queensland PlantEvolution

Australian Tropical Herbarium Postdoctoral Research Fellow Ref. No. - 14210 Cairns

The Australian Tropical Herbarium (ATH) seeks an outstanding and highly motivated postdoctoral researcher with expertise in plant molecular systematics to join our dynamic research team. The appointee will generate and analyse DNA data employing next-generation sequencing approaches to unravel the evolutionary history of one of Australia's iconic sun orchids, Thelymitra. The sun orchids contribute to Australia's remarkably rich and highly endemic flora of terrestrial orchids and represent one of the major radiations within the tribe Diurideae. The project aims to elucidate infrageneric relationships in Thelymitra based on next-generation sequencing approaches, to assess the taxonomic value of key morphological characters, and to improve our understanding of interspecific relationships in three species complexes (T. antennifera, T. nuda and T. venosa). Expertise in the collection and analysis of next generation sequencing data will lead to high impact research outcomes. The ATH offers an unrivalled specimen collection of Australian tropical plants, full taxonomic research and field facilities including a comprehensively equipped molecular biology laboratory, and is situated adjacent to a range of tropical biomes including the World Heritage listed Queensland Wet Tropics rainforests. Visit us at www.ath.org.au . Employment Type: Appointment will be full-time for a fixed term of 2.5 years. Salary: Academic Level A - $75,353 - $80,635 per annum. Commencing salary will be in accordance with qualifications and experience. Benefits include a generous superannuation scheme with 17% employer contributions, five weeks annual recreation leave, flexible working arrangements and attractive options for salary packaging.

Applications close on 12 October 2014.

Applications must be lodged electronically using the online facility located at http://www.jcu.edu.au/jobs/ Dr. Katharina Schulte

CSIRO/JCU Postdoctoral Research Fellow Australian Tropical Herbarium (CNS) & Centre for Tropical Biodiversity and Climate Change (CTBCC)

PLEASE NOTE: new phone number Phone: +61 (0)7 4232 1686 www.ath.org.au Postal: Sir Robert Norman Building (E2), James Cook University, Cairns Campus, PO Box 6811, Cairns QLD 4870

Street: Sir Robert Norman Building (E2), James Cook University, Cairns Campus, McGregor Road, Smithfield Qld 4878

"Schulte, Katharina" <katharina.schulte@jcu.edu.au>

CambridgeUK ButterflyGenomics Bioinformatics

Genomics postdoc to study butterfly speciation, with flexibility for the candidate to pursue their own interests within the broad goals of the project.

A post-doctoral research associate position in Department of Zoology, located in Central Cambridge on Downing Street, is available from October 2014 for twenty four months, in the first instance, to work with Professor Chris Jiggins on the evolutionary genomics of adaptation and speciation in Heliconius butterflies, in collaboration with Dr Owen McMillan at the Smithsonian Tropical Research Institute in Panama. There are three important aspects of the position. First, we are looking for someone to work with the larger Heliconius community to finalize the construction of the H. erato genome. This genome will be the second full genome sequence available in Heliconius, alongside H. erato's co-mimic, H. melpomene, and will provide a foundation for broader comparative genomic studies across the radiation.

This work will primarily involve validating and improving an existing assembly using genetic linkage data. Second, we are looking for someone to produce a draft assembly of the H. cydno genome for comparison to the H. melpomene and H. erato genomes. The Postdoctoral Research Associate will then use these reference genomes to study adaptation and speciation in the genus. This could include demographic analysis of mimicry and speciation using coalescence-based methods to infer population history from whole-genome sequences and/or analysis of genomic rearrangements and their role in speciation, inferred from population resequence data for H. erato and H. melpomene species groups. There is considerable scope for the focus of the biological analyses to reflect the interests of the candidate.

The research will primarily involve bioinformatic analysis of existing genomic sequence datasets. The successful applicant should have a Ph.D., completed or completion imminent, in evolutionary biology, bioinformatics or a related field, with a strong interest in population genomics. In addition, candidates should have experience with the manipulation and analysis of Illumina data and working knowledge of a programming language such as Python or Perl.

Candidates should have a good collaborative spirit, as the work will involve close collaboration with researchers in Cambridge and Panama as well as coordination with many different labs working on Heliconius biology, genome assembly and genome databases. Enthusiasm, determination and the capacity to work independently are also essential.

Fixed-term: The funds for this post are available for 24 months in the first instance.

To apply online for this vacancy, please follow this link http://www.jobs.cam.ac.uk/job/4844/. or contact me Chris Jiggins for more information: Chris Jiggins <c.jiggins [at] zoo.cam.ac.uk>

Please quote reference PF04195 on your application and in any correspondence about this vacancy.

The University values diversity and is committed to equality of opportunity.

The University has a responsibility to ensure that all employees are eligible to live and work in the UK.

cj107 [at] hermes.cam.ac.uk

CEA France MarineGenomics

Post-doc position in marine genomics / metagenomics / metatranscriptomics TARA Oceans project

TARA Oceans is a multidisciplinary project with 24 teams over 10 countries (http://-oceans.taraexpeditions.org/en/), covering oceanography, bioinformatics, chemistry, microbiology, physics& genomics, aiming to collect and analyze marine planktonic organisms up to 2 mm (viruses, prokaryotes, protists and metazoans). These marine organisms are key actors on several large biogeochemical cycles (nitrogen, carbon or oxygen among others) as well as on marine food chain. During a three years journey across the globe, 210 sampling stations covering the main oceanographic regions were conducted (Karsenti E. PLoS Biol. 2011). A key step in this project consists in describing the planktonic community through genomic material recovered from sampled organisms in order to characterize its diversity and to understand environmental factors shaping the population.

A large sequencing effort is undergone at CEA/Genoscope to determine both genomic (gene content of the different populations) and transcriptomic (the active part of the genes catalog) signatures in all

gathered samples. From this data, gene catalogs are built and used to describe both taxonomic distribution and functional diversity of the populations, and to detect fluctuations between samples.

In the context, we are looking for a highly motivated and talented candidate. This candidate will have to demonstrate perfect skill in: . functional analysis of eukaryotes metagenomic and metatranscriptomic data. . statistical analysis of large scale, complex and heterogeneous data. . communication with collaborating labs for integration of data.

The candidate would have to handle an existing dataset to elucidate functional response of planktonic population to perturbations in the environment. This line of work will be subsequently applied to other sample sets with related scientific questions.

Solid knowledge in the following areas will be a plus: . high throughput data manipulation under a Unix/Linux environment . programming skills for data treatment (shell / perl / python) . statistical analysis of genomic data (R knowledge is a plus) . biological interpretation of functional data.

This position is immediately available in the Patrick Winckers group, and is located close to Paris at CEA V Genoscope (www.cea.fr, www.genoscope.cns.fr). Contact person : Eric Pelletier (eric.pelletier@genoscope.cns.fr)

Jaillon Olivier <ojaillon@genoscope.cns.fr>

CEES Norway AncientDNA

A TWO-YEAR POSITION AS AN POSTDOCTORAL RESEARCH FELLOW (SKO 1352) IN ANCIENT DNA AND EVOLUTIONARY GENOMICS OF VIKING AGE PLANTS AND ANIMALS is available at the Centre for Ecological and Evolutionary Synthesis (CEES), Department of Biosciences, Faculty of Mathematics and Natural Sciences, University of Oslo.

Applications are invited for a two-year position as a postdoctoral research fellow (SKO 1352) in the field of ancient DNA and evolutionary genomics at the Centre for Ecological and Evolutionary Synthesis (CEES; www.cees.uio.no), Department of Biosciences, Faculty of Mathematics and Natural Sciences, University of Oslo. The Postdoctoral fellow will be part of the team working on the project "Tracking Viking-assisted dispersal of biodiversity using ancient DNA" funded by the Norwegian Research Council.

Application Deadline: 17th of October 2014.

Starting date: Tentatively 01.04.2015

For full announcement, see http://uio.easycruit.com/vacancy/1254519/96871?iso=no Project description The primary objective of this project is to investigate how Viking trade and agriculture have shaped the genomic composition of plants and animals, and increase our understanding of the evolutionary heritage left in contemporary varieties. We focus on species of profound agricultural, cultural and industrial importance (horse, flax and barley) for which excellent genomic tools have recently been developed. In this project we have access to unique samples from different countries that will be analyzed using whole genome, high-throughput sequencing approaches. The successful applicant will join a multi-disciplinary, international team that brings together experts from the fields of biology, archaeology and palaeontology. Furthermore, this project forms a close collaboration between the CEES, the Natural History Museum (NHM) and the Museum of Cultural History (KHM) at the University of Oslo.

Requirements Applicants must hold a PhD-degree (or other corresponding education equivalent to a Norwegian doctoral degree) with a background within population genomics, evolutionary genomics and/or ancient DNA research. The candidate should be able to document strong analytical skills and experience in the laboratory. Experience with ancient DNA, analytical or experimental, will be an advantage.

The candidate will work in close collaboration with the rest of the team at CEES, NHM and KHM, as well as our national and international partners (Denmark and Great Britain) within this project. Some time will be spent visiting the collaborating partners overseas. We seek a highly motivated, enthusiastic person with the ambition to gain insight and publish papers in leading, international journals, and in possession of good interpersonal skills and willing to work in close collaboration with others.

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

Please also refer to the regulations pertaining to the conditions of employment for post-doctoral fellowship positions: https://www.uio.no/english/about/regulations/index.html The Department The Department of Biosciences is the largest unit of biological re-

search in Norway, working on a broad range of theoretical and empirical topics within ecology and evolution at all scales from genomes to ecosystems. Information about the department can be found at: www.mn.uio.no/ibv/english The CEES The project will be based at the CEES (www.cees.uio.no), a center for integrative biological research that has been awarded the status of a National Centre of Excellence by the Research Council of Norway. The CEES is based at the Department of Biosciences, University of Oslo and is chaired by Prof Nils Chr. Stenseth. The CEES is also one of the partners in the Norwegian High-Throughput Sequencing Centre (NSC). Furthermore, a brand-new state-of-the-art ancient DNA facility will be opened at the end of 2014. The CEES provides a stimulating research environment, with many young international and Norwegian scientists working on a variety of theoretical and empirical topics within ecology, evolution, population genetics, genomics, phylogenetics, molecular biology, palaeogenetics, and statistical methodology.

Language A good command of English is required: www.mn.uio.no/english/research/doctoral-degree-and-career/regulations/proficiency-requirements.html The application must include:

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ChicagoBotanicGarden GenomeEvolutionBioinformatics

POSTDOCTORAL RESEARCH ASSOCIATE IN GENOMICS AT THE CHICAGO BOTANIC GARDEN (DEADLINE EXTENDED)

We are hiring a postdoctoral research associate for 2.5 years to lead the genome sequencing efforts of an NSF-funded, Phylogenetic Systematics grant titled "Evaluating the contributions of horizontally transferred bacterial genes and endogenous duplication events to the diversification of diatoms". This project integrates transcriptomics, phylogenomics, and genome sequencing to understand the role of horizontal gene transfer and whole genome duplication in the diversification of diatoms.

This project is a collaborative NSF research project between Andrew Alverson (University of Arkansas) and Norman Wickett (Chicago Botanic Garden & Northwestern University). The postdoc will be based at the Chicago Botanic Garden, where the genome sequencing, assembly, and annotation efforts will be based.

START DATE: January 5, 2015 APPLICATION REVIEW: Begins October 1, 2014 until filled

DUTIES AND RESPONSIBLITIES:

The postdoc will be responsible for coordinating and conducting the sequencing, assembly, and annotation of several diatom genomes. Additionally, the position includes the analysis of genome content and structure association with the diversification of diatoms, with an emphasis on the detection of horizontal gene transfer and whole genome duplication. Expectations are that postdoc 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. Finally, the position includes involvement in the development of an exhibit on diatom biology to be hosted at the Chicago Botanic Garden.

POSITION REQUIREMENTS:

Ph.D. in ecology and evolutionary biology, biology, bioinformatics, botany, or a related field. Some experience in bioinformatics is required, preferably in the area of genome assembly and annotation. Applicants who expect to have completed their PhD by the start date will be preferred.

TO APPLY:

Please email a single pdf file that includes a cover letter, CV, and contact information for three references to:

nwickett@chicagobotanic.org

CornellU ComputationalGenomics

Postdoc in Computational Genetics and Genomics at Cornell University

The Williams lab at Cornell University has two openings for postdoctoral associates in computational genetics and genomics. We are broadly interested in devel-

oping computational methods that leverage large scale genetic data and in applying existing methods to study human genetic history, evolution, and the genetic basis of human disease. Immediate research opportunities include (1) methods development for local ancestry in multi-way admixed samples, (2) studies and analysis of recombination (especially non-crossover gene conversion) using whole genome sequence data from human pedigrees, (3) methods for inferring haplotypes in large scale genetic data, and (4) studies of methods for identity-by-descent detection in large samples. Projects should fit within the lab's goals, however the successful candidate may have substantial input to the specific nature of their work.

The lab is located at Cornell University in the Department of Biological Statistics and Computational Biology. Lab members will benefit from a collaborative environment including interactions with neighboring labs in the department, as well as individual mentoring with opportunities to develop one's own research interests and ideas.

Initial appointment is for two years with the possibility of extension and includes competitive salary and benefits. Start date is flexible and can be immediate.

Qualifications:

Candidates are expected to have a Ph.D. in computational biology, computer science, statistics, genetics, applied mathematics, or related disciplines. Strong quantitative and programming experience (ideally in C or C++) as well as ability to process large scale datasets are essential skills. While beneficial, prior experience in genetics and genomics is not required, but candidates must have a strong interest in research in this area.

Informal inquiries and applications are welcome via email to alw289 at cornell.edu. To apply, email a CV, one page statement of research interests and experience, and email addresses for at least two references. Applications will be reviewed immediately and continue until the positions are filled.

Amy L. Williams Department of Biological Statistics and Computational Biology Cornell University 102G Weill Hall, Ithaca, NY 14853 http://-williamslab.bscb.cornell.edu alw289@cornell.edu.

CornellU EvolutionaryGenetics

Postdoctoral position in evolutionary genetics at Cornell University

The Lab of Daniel Barbash has an opening for a postdoctoral position in evolutionary genetics. Our current research interests include: 1) genetic and molecular studies of interspecific hybrid incompatibility; 2) transposable element dynamics and their impact on host defense pathways; 3) evolution of repetitive DNA and heterochromatin; and 4) investigation of rapidly evolving germline genes and pathways. Most of our experimental research uses Drosophila. A successful candidate will be encouraged to design a project that suits their background and interests.

The lab is located within the Department of Molecular Biology and Genetics at Cornell University, and maintains close interactions with an exceptionally large and diverse group of labs that work on evolutionary genetics, genome evolution, computational biology, and Drosophila and insect genetics.

Initial appointment is for one year with the possibility of extension based on performance and available funding. Start date is flexible and can be immediate.

Qualifications: Ph.D. in genetics, evolutionary genetics or related field, with strong experience including publications in at least one of the following areas: experimental genomics methods, Drosophila genetics, population genetic and molecular evolutionary analyses, and bioinformatics of large-scale genomic data sets.

To apply, please send a CV, statement of research interests, and names and contact information of 3 references to dab87 <at> cornell.edu. Informal inquiries are welcome.

Dr. Daniel Barbash Associate Professor Department of Molecular Biology and Genetics Cornell University Ithaca, NY 14853

dab87 <at> cornell.edu

Web: http://faculty.cit.cornell.edu/barbash/-Home.html

ETH Zurich Adaptation

A new initiative in Adaptation to Changing Environments (ACE) at ETH Zurich invites applicants for up to 7 postdoctoral fellowships in the areas of ecology, evolution, and genomics. ACE has been established to connect the rapidly increasing availability of genomic information to ecological dynamics, as mediated by rapid

evolutionary change. Postdocs, graduate students and faculty will interact in a single center located on the ETH campus in Zurich. Those interested in applying their backgrounds in ecology, evolution, and genomics to the goals of the center are encouraged to apply. The following topical areas are emphasized for this first round of applicants:

Genomics of ecologically relevant traits

Eco-evolutionary dynamics of species interactions

Evolutionary responses to changing environmental conditions

Projects will range from the theoretical to empirical, and will be conducted in collaboration with several ETH faculty participating in ACE (see website). Postdoctoral positions are initially for two years with the possibility for renewal. Work-related interactions will be in English and salaries are adequate to take advantage of the high quality of life in Zurich. Requirements include a PhD degree in ecology, evolution, bioinformatics or a closely related discipline, high-quality publications, fluency in English, and good communication skills. Your application includes a research statement, including one to two paragraphs describing how your research interests relate to the center and associated faculty, a curriculum vitae, and the contact information for three references. Application review will begin October 15, 2014, and continue until the positions are filled.

More information can be found at http://www.adaptation.ethz.ch Link to online application: https://pub.refline.ch/845721/3379/++publications++/1/index.html
leonie.suter@gmail.com

FAKE UNorthCarolina Charlotte EvolutionDisease

Once again, it appears that the EvolDir has been the target of a fake advert.

Do not respond to the advert listed below.

Thanks goes to Helen Alexander for detecting this.

If you see any adverts that appear to be fradulent please send an email to me. I depend on the "many eyes" of the community for this.

Brian Golding

—— Forwarded message from evoldir@evol.biology.mcmaster.ca ——

Post doctoral position in Molecular Epidemiology and Evolution of Agents of Infectious Disease at UNC Charlotte.

Duties will include supporting projects through original research and publication, collaboration with other team members and stakeholders, and mentoring of students.

The employee will also contribute to development of proposals for funding.

Applicants should have experience in molecular systematics, biogeography, host-pathogen systems, and/or computational biology.

Ph.D. required in biology, computer science, or related fields.

send CV to unccpostdoc@gmail.com

unccpostdoc@gmail.com

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Golding@McMaster.CA

France 2 PopGenetics

Two post-doc positions on the revision of population genetics of clonal organisms, models and empirical assessments 16 to 18 months, Starting on November 2014 in France research institutes.

I./ Postdoc: Montpellier.PartiallyClonal.PopGenetics

ANR Clonix: Revising the population genetics of partially clonal organisms A post-doc position of 18 months, to start ideally on November 1st or shortly thereafter, is available at Ifremer- Ste/Montpellier (Southern France).

The candidate will work in the framework of a National research project (ANR Clonix: http://bit.ly/1fNF4U0) aiming at providing new tools to understand the ecology and evolution of partially clonal organisms. In the context of a revision of "neutral" expectations in terms of genetic characteristic of populations presenting asexual reproduction, the candidate will work in parallel on a set of synthetic populations derived from simulations and on empirical data on a diversity of organisms with various types of clonality (corals, seagrasses, algae, aphids, human pathogensâ). The objectives will be to i) test for the influence of sampling strategy on the reli-

ability of clonality estimates by testing for the accuracy of two families of estimators, those derived from Multi Locus Genotypes characterization and those based on multi-genetic parameters, and ii) infer the impact of clonality on migration and genetic structure among demes in a metapopulation system. She/He will also contribute in building an update for an existing software (GenClone) including, based on results obtained, the necessary improvement in terms of estimators and indices used to characterize the occurrence and extent of clonality, and its influence on the dynamics of natural populations. The work will be performed in Ste in close interaction with Solenn Stoeckel (INRA, Rennes) and with other partners of the project including Fabien Halkett & Stphane de Mita (INRA, Nancy) and Thierry de Meeus (IRD) and Myriam Valero (CNRS, Roscoff).

Requirements: (1) PhD with a strong background in population genetics, (2) programming skills (preferably C/C++, an experience with Delphi will be appreciated). (3) Good experience of team work (4) writing skills.

Interested candidates should apply by September 8th by following the guidelines provided at the following link: http://bit.ly/URMeRe (Please note that electronic submissions are welcome and handwriting letter not requested)

Contact: Sophie Arnaud-Haond Sophie.Arnaud@ifremer.fr Institut Français de Recherche pour l'Exploitation de la MER Unit Halieutique Mditerrane (HM) du Dpartement Ressources Biologiques et Environnement (RBE)- UMR 212 - Ecosystme Marin Exploit (EME) Bd Jean Monnet, BP 171, 34203 Ste Cedex - France Tel: (+33)(0)4 99 57 32 61 Fax: (+33)(0)4 99 57 32 95 Tel Standard/Switchboard: (+33)(0)4 99 57 32 00 Adresse secondaire: Station Mditerranenne de l'Environnement Littoral (SMEL) 2 rue des Chantiers 34200 Ste Tel: (+33)(0)4 67 46 33 93 http://bit.ly/1senEHt http://-bit.ly/URMeRf Sophie Arnaud Sophie Arnaud-Haond Sophie.Arnaud@ifremer.fr researcher at UMR212 EME (Exploited Marine Ecosystems), Ifremer, F-34203 Sète, France; phone:+33 (0)4 99 57 32 61

II./ Postdoc: Rennes.PartiallyClonal.PopGenetics

ANR Clonix: Revising the population genetics of partially clonal organisms A post-doc position of 16 months, to start ideally on November 1st or shortly thereafter, is available at INRA Rennes (Western France).

The candidate will work in the framework of a National research project (ANR Clonix: http://bit.ly/-1fNF4U0 and http://bit.ly/VSvnyC) aiming at providing new tools to understand the ecology and evolution of partially clonal organisms. In the context of a revision of "neutral" expectations in terms of genetic characteristic of populations presenting asexual reproduction, the candidate will work in parallel on a set of synthetic dataset derived from simulations and mathematical developments, and from varying organisms exploring different mode of asexuality. The objectives of the postdoc will be 1) to revisit the "neutral" expectations and identify the characteristic distributions of Multi Locus Genotypes under cyclical parthenogenesis, 2) use an already-developed (by the team) mathematical method to infer the clonality from temporal empirical and simulated dataset. Analyses and publications of both mathematical methods and their applications will be the main goals of this postdoc. She/He will contribute in validating new mathematical and statistical methods to infer evolutionary forces from partially asexual populations that will later be aggregated within an update of GenClone software. This postdoc will be performed in close interaction with Sophie

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GeorgeWashingtonU Metagenomics

Postdoctoral Fellow in Metagenomics at George Washington University

We are seeking a highly motivated postdoctoral researcher to design and carry out analysis of high-throughput sequencing microbiome data as part of a series of studies on the role of infectious agents on mental disorders with a focus on schizophrenia. Additionally, the researcher will also be involved in the development of the PathoScope pipeline for taxonomic profiling of metagenomic samples. The project is part of an ongoing collaboration between the Stanley Neurovirology Laboratory, Johns Hopkins School of Medicine and the Computational Biology Institute, George Washington University.

The overall goal of this research is to contribute to our program devoted to the elucidation of the role of infection and immunity in the etiology of schizophrenia and bipolar disorders. Interests also include elucidating the role of perinatal infections in subsequent brain

development.

Applicants must possess a PhD in a relevant discipline (Computational Biology, Bioinformatics, Microbiology, Microbial Ecology), with experience in metagenome data analysis and an understanding of the key issues and relevant tools in the field. An understanding of statistics is essential. Experience with DNA and RNA extraction and sequencing is useful but not essential. A strong quantitative background and good programming skills (R, Python/Perl) are all required. The initial contract will be for one year, renewable based on performance. Salary is competitive with benefits.

The selected candidate will be based on GWs Computational Biology Institute. For further information about the Computational Biology Institute at George Washington University, please see http://cbi.gwu.edu. For questions relating to this opportunity, please contact Keith Crandall, Director, Computational Biology Institute, The George Washington University, kcrandall@gwu.edu.

Interested candidates can apply for this position at www.gwu.jobs where they can search on the following Posting Number: Staff - 003768. The anticipated start date is flexible, but the position can start as early as October 1, 2014. Review of candidates is ongoing and will continue until the position is filled.

The George Washington University is an Equal Opportunity/Affirmative Action Employer and seeks to attract an active, culturally and academically diverse faculty of the highest caliber.

Keith Crandall <kcrandall@gwu.edu>

GermanyMuenster EvolutionaryCellBiol

The Institute of Evolution and Biodiversity in the faculty Biology, University of Muenster, is looking for a highly motivated *postdoctoral researcher *with experience in comparative genomics and transcriptomics to fill the post of a:

1 postdoc position (Wissenschaftliche Mitarbeiterin/ Wissenschaftlicher Mitarbeiter) Salary Level 100% E13 TV-L from January 01, 2015

This fixed-term post is available for a 2-year period. Currently the regular full employment time is 39 hours and 50 minutes per week.

In her/his research the selected candidate will study the birth rate of DNA and RNA splicing variants and assess their impact on phenotypic variation in several species of the ciliate Paramecium. In addition, the candidate will use experimental evolution Paramecium lines to assess the effect of environmental variations on the emergence of distinct splicing variants.

Applicants must hold a PhD degree in computational biology, evolutionary genetics/genomics, molecular evolution or in a discipline related to the project. Experience in next-generation sequencing data analysis as well as in wet laboratory is preferred. Programming skills in any language suitable for bioinformatic analyses and experience in comparative genome-wide analyses are required.

The University of Münster is an equal opportunity employer and is committed to increasing the proportion of women academics. Consequently, we actively encourage applications by women. Female candidates with equivalent qualifications and academic achievements will be preferentially considered within the framework of the legal possibilities. We also welcome applications from candidates with severe disabilities. Physically challenged candidates with equivalent qualifications will be preferentially considered.

Applicants should send a single PDF file containing a statement of research interests, full curriculum vitae, one reference letter and contact information before September 30, 2014 to the following address:

Dr. Francesco Catania francesco.catania@uni-muenster.de

More informations: http://www.uni-muenster.de/-Evolution/evolcell/positions/index.shtml Lepennetier Gildas Institute for Evolution and Biodiversity (IEB) Evolutionary Cell Biology | MGSE Kavaliershäuschen, Schlossplatz 6, 48149 Münster, Germany Office : (0049) 0251 - 83 -21233 Cellphone: (0049) 0176 - 56 -815623 http://ieb.uni-muenster.de/mgsei/ http://-gildas.idi-informatique.fr gildas.lepennetier@hotmail.fr

HarvardU Herbaria

THE HARVARD UNIVERSITY HERBARIA POST-DOCTORAL FELLOWSHIP

The Harvard University Herbaria (HUH; http://-huh.harvard.edu) invites nominations and direct applications for the Harvard University Herbaria Post-

doctoral Fellowship, a postdoctoral fellowship in plant science. We especially seek outstanding early-career scientists who see new opportunities and innovations for collections-based research. The goal of the program is to facilitate collections-based, applied research at the HUH using available digital resources. Possible research topics include ecological niche modeling, assessing systematic and phylogenetic diversity, climate change, species' invasions, morphological and physiological diversity across a landscape, plant-insect and/or -pathogen interactions, and collections management. We especially encourage applications with strong statistical and computational backgrounds (including database manipulation). Large-scale meta-analyses are encouraged, but projects to develop bioinformatics pipelines to make collections more broadly accessible are also welcome.

The HUH include six collections and more than five million specimens of algae, bryophytes, fungi, and vascular plants. Together they form one of the largest university herbarium collections in the world, and the third largest herbarium in the United States. With its state-of-the art research laboratories, computational facilities, and world class libraries, the HUH have been a centerpiece of biodiversity science since the early 1800s. More information about the HUH can be found on its website http://huh.harvard.edu/ . *Eligibility Applications are sought from early career individuals with a Doctorate in plant evolution, plant ecology, horticulture, or related discipline. Applicants must have their Doctorate by the time their appointment is expected to begin at the HUH. Preference will be given to candidates who have received their Doctorate within the last 5 years. International candidates are welcome to apply.

*Fellowship Details The Harvard University Herbaria Postdoctoral Fellowship is awarded for one year, with the possibility of renewal for an additional year, to enable the fellow to work under the mentorship of a Harvard University faculty member. Fellowships will be awarded on an annual basis. The yearly application deadline for this program is November 1.

The Fellow must initiate his or her term at the HUH within one year of notification of award and will be expected to be in full-time residence during his or her tenure.

The Harvard University Herbaria Fellowship provides a modest stipend and allowance for travel and professional expenses.

* Application Information Fellowships are awarded through a competitive review process. To be considered for an award, online applications should be submitted via ARiES at http://academicpositions.harvard.edu/-postings/5680 and include the following: * Cover letter * Research proposal. No longer than 4 pages, single-spaced, and should describe (i) the nature and scope of the proposed research project; (ii) the approach and methods to be employed; (iii) how the collections of the HUH would be utilized; (iv) all laboratory and equipment requirements; and (v) how the project will advance knowledge about the plant kingdom. References should be included but do not count as part of the 4-page limit. * Research budget. A modest budget is available for research and travel costs. Applicants should submit a simple, 1-page budget that itemizes by year the research and travel costs associated with the proposed project. * Curriculum vitae * Names and contact information of at least three references. Three letters of recommendation are required, and the application is complete only when all three letters have been received. Letters of recommendation are due within 3 weeks of the application submission. Contact Information

Application review will begin November 17, 2014

Inquiries may be made by email to Jeannette Everritt at jeverritt@oeb.harvard.edu.

Harvard University is an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability status, protected veteran status, or any other characteristic protected by law.

"Everritt, Jeannette" <jeverritt@oeb.harvard.edu>

IMR Norway ComparativeParasitology

Postdoktor 2 years in Comparative parasitology

The Aquatic diseases and pathogens research group has an open postdoctoral position in the LouseOff project (1.1.2015 - 31.12.2016). LouseOff is a "user controlled" Reseach counsil financed project led by PharmaQ A/S. The overall aim of the work package at IMR, lead by Rasmus Skern-Mauritzen, is to identify potential antigen candidates from comparative transcriptomes from the north atlantic salmonid specific copepod parasite, Lepeophtheirus salmonis subsp. salmonis, and the related copepod parasite Caligus rogercresseyi, infecting an array of hosts including Atlantic salmon in Chilean fish farms. The work package will focus on exploring expression and evolutionary differences between the

species.

Candidates should have a strong background in one or more of the following fields; bioinformatics, molecular phylogentics or molecular biology. Experience with analysis of large sequence datasets (i.e. "next" generation sequencing) is required. The position involve comparative transcriptomic and evolutionary analysis and background enabling the candidate for this type of work is necessary, while additional development of new tools for quantitative evolutionary analysis will be encouraged.

Good communication - and cooperative skills are valued and will be weighted. Likewise will ability to report and publish in peer reviewed journals be central elements in judging the candidates. The position will be located in Bergen, Norway.

Why apply for this position at IMR in Norway?

*We offer good infrastructure and an outstanding working environment.

*The position involves usage (and development) of cutting edge approaches to undertand parasites in general and sea lice in particular.

*The position involves close cooperation with PharmaQ giving a unique chance to combine applied and basal science.

*We offer flexible working hours, a good pensioning scheme, and an array of employee welfare programmes.

Salaries are determined according to national standards for a 1352 Postdoc position, starting at a minimum wage of 59 200 Euro (approx. 81 000 USD)

For further information about the position please contact project scientist Rasmus Skern-Mauritzen, rasmus@imr.no phone: 40069007 or group leader Bjørn Olav Kvamme, bjornok@imr.no, phone: 41612076. For further information about the institute see: www.imr.no . IMR is included in the national "IA-company" programme and is therefore dedicated to encompass all minorities to be represented in our staff. We therefore particularly encourage women and people with minority background to apply. We invite applications from candidates holding a PhD or similar degree (minimum requirement for consideration is a submitted thesis).Lists of applicants will be public.

Applications must include CV, list of publications, University transcripts, recommendations and full text documents for the most relevant publications. Applications must be submitted via http://www.jobbnorge.no/-en/available-jobs/job/105657/postdoktor-1352-2-years-louseoff-comparative-parasitology-mrk14-14 . Application deadline: 31.10.2014

Skern Rasmus <rasmus.skern@imr.no>

InstitutPasteur ViralEvolution

Two years post-doctoral positions now are available at the Institut Pasteur of Paris, with possibility of extension.

These post-docs will be funded by an ERC five-year project EVOMOBIL (PI, Patrick Forterre) that started in February 2014 (see summary of the project)

The aim is to study coevolution of mobile elements (viruses/plasmids) and cells in the domain Archaea. The two positions are for the in silico part of the project. The hired post-doc will work together with a strong team including David Prangishvili, Mart Krupovic, Simonetta Gribaldo and Jacques Oberto. We are looking for post-docs broadly interested in virus evolution with expertises in phylogenomics and/or database creation and management, etc.

The two postdoctoral students will be hired by the Institut Pasteur (IP) to work at the IP in Paris and/or at the Institut of Integrated Cellular Biology (I2BC) in Orsay.

Interactions between cells, viruses and derived elements, such as plasmids, have played a major role in life evolution. However, up to now, evolutionary studies have mainly focused on cellular genomes (building species trees). My project is to reconstruct the history of interaction between cells, viruses and plasmid (VP) on grand scale to tackle questions such as: to which extent VP co-evolved with their hosts? To which extent cellular history was influenced by the introduction of PV genomes? What is the main directionality of genes flux between PV and cells? The project will focus on Archaea, one of the three domains of life, because it is the only domain for which a robust phylogeny is available (a prerequisite for the project). We will perform an exhaustive description of viral and plasmid families in all available archaeal genomes (Including new genomes sequenced for the project) using a combination of in silico methods. Phylogenetic and network analyses will be used to reconstruct the history of viral and plasmid replicons with the objective to quantify horizontal versus vertical evolution and to sort out the web and tree-like components of archaeal history. Preliminary analyses have revealed the importance of horizontal gene transfer (HGT) in archaeal evolution. However, the processes behind these HGT remain mysterious, espe-

cially for hyperthermophilic species. In parallel to our in silico analyses we will explore experimentally the possible role of membrane vesicles (MV) in HGT. We have shown that archaeal MVs can transfer DNA and that some of them harbour plasmid or viral genomes. We want now tackle questions such as: can these MVs transfer DNA between different species, different orders or even different domains? We will also study the mechanism of MV formation and fusion in comparison to those involved in viral infection to better understand the evolutionary and physiological connections between MV and PV. Production of MV is a universal process and their role in life evolution could have been largely underestimated up to now.

Applications should send at: forterre@pasteur.fr

patrick.forterre@pasteur.fr

JuniataCollege PennStateU Bioinformatics

Post-Doctoral Associate in Bioinformatics

For a joint position, The Biology Departments at Juniata College, a highly ranked, national liberal arts college of 1,500 students located in the scenic Allegheny Mountains of central Pennsylvania, and nearby (34 miles) Pennsylvania State University seek individuals interested in a career involving both research and teaching to fill a post-doctoral position in the area of Bioinformatics. Teaching experience and experience in performing relevant wet lab and computational analyses associated with next-generation sequencing are required. Experience with Linux, R, Perl or Python are preferred, as well as experience using compute clusters and cloud computing. The Biology Department at Juniata has developed an innovative curriculum with support from NSF and HHMI, a strong tradition of undergraduate research and a rich history of sending students on to graduate studies and productive careers. Further information about the department can be found at http://departments.juniata.edu/biology . Successful candidates will teach one introductory or upper level undergraduate course per semester, and instruct in an HHMI/NSF funded faculty development workshop that includes RNAseq, metagenomics, eukaryotic and prokaryotic genomics approaches. Candidates will support a new national initiative, headquartered on the Juniata campus, to incorporate massively-parallel sequencing technologies into the undergraduate curriculum and research (www.gcat-seek.org). Concurrently, 25% of time will be spent on functional genomics research in collaboration with Prof. Jim Marden at Penn State, a leading institution for bioinformatics research. The position is funded from January 2015 to August 2016.

Applicants with an earned Ph.D. (required) and postdoctoral and teaching experience (preferred) should submit 1) a brief statement of teaching experience, philosophy, and interests; 2) a succinct two-page summary of research interests; 3) a curriculum vitae; 4) undergraduate and graduate academic transcripts; and 5) three letters of recommendation.

All materials should be addressed to Gail Leiby Ulrich, Director of Human Resources, Juniata College, 1700 Moore Street, Box B, Huntingdon PA 16652. It is the policy of both Juniata College and Penn State to conduct background checks. Review of applications will begin October 15 and continue until the position is filled.

Juniata College and Penn State will take positive steps to enhance the ethnic and gender diversity on their campuses. We commit ourselves to this policy not only because of legal obligations, but because it believes that such practices are basic to human dignity. AA/EOE Dr. Vincent Buonaccorsi 601 17th St. Juniata College Huntingdon, PA 16652 Phone: 814-641- 3579 http://jcsites.juniata.edu/faculty/buonaccorsi/ email: BUONACCORSI@juniata.edu Dr. Jim Marden Dept. of Biology 208 Mueller Lab Penn State University University Park, PA 16802 814-863-1384 http://-www.personal.psu.edu/jhm10/ email: jhm10@psu.edu.

Jim Marden <jhm10@psu.edu>

MichiganStateU EvolutionaryPlantGenomics

Postdoctoral Research Associate Position in Evolutionary Plant Genomics

The Lowry lab in the Department of Plant Biology at Michigan State University (MSU) is seeking a Postdoctoral Research Associate who will conduct genomic research in multiple plant species. The successful candidate will lead population genomic studies as well as analyses of gene expression, metabolite, and methylome differences between plant ecotypes.

The research of the Lowry lab is centered on identify-

ing the genetic and genomic mechanisms of ecological adaptations and how those adaptations contribute to the formation of new species. A key goal of our research is to link adaptive genetic variation with features of the natural landscape. To understand the physiological, developmental, and genetic mechanisms of adaptive divergence between plant populations, the Lowry lab is focused on research in two major emerging model systems for evolutionary genomics: Monkeyflowers (Mimulus) and Panicum grasses, including the bioenergy crop switchgrass. Two large communities of collaborative scientists have established extensive genomic and molecular biology resources for these systems. To see a more detailed description of ongoing projects in the Lowry Lab, please see: http://-davidbryantlowry.wordpress.com/ Qualifications: PhD in a field related to Evolution, Genetics, Genomics, Bioinformatics, and/or Plant Biology. Experience with programming for biology, especially population genomic, methylome, and RNA-sequencing analyses.

To Apply: Potential candidates should send a brief statement of research accomplishments and future goals, CV, and list of three references to David Lowry at dlowry@msu.edu by October 10, 2014.

David B. Lowry Assistant Professor Plant Biology Department Michigan State University http://-davidbryantlowry.wordpress.com/ David Lowry <dlowry@msu.edu>

MNHN Paris EvolutionVenom

Postdoc position in phylogeny and macroevolution of venomous organisms Speciation and diversification in venomous organisms are often associated with prey and toxin diversification. In the conoideans, a group of marine gastropods predators of worms, molluscs and fish, studied since 40 years for the potential therapeutic applications of the toxins they produce, it is generally accepted that the apparition of the venom apparatus explain the high species diversity in this group. However, the number of species and the distribution area varies among lineages, and the apparition of the venom apparatus in itself cannot explain these differences. Recent studies showed that the structure of the venom apparatus, including the morphology of the radula and the presence of accessory anatomical structures, together with the toxin composition of the venom, can also vary among lineages. The goal of the project is thus to (i) estimate the rates of diversification in the Conoidea to eventually detect variations in time and among lineages, and (ii) correlate these variations with various characters linked to the venom apparatus (morpho-anatomy, toxin composition).

This project is part of the ANR program CONOTAX (ANR-13-JSV7-0013-01) whose objective is to understand the process of diversification in the Conoidea, both at the phylogenetic and species level, combining the analysis of the species diversity, the prey diversity and the toxin diversity. More info can be found on the CONOTAX website (https://sites.google.com/-site/conotax/ The post-doc will be in charge of the constitution of the dataset and the analyses: phylogenetic reconstruction, datation and estimation of diversification rates and correlation with character evolution. The first step of the work will thus be to complete the available molecular phylogeny of the groups. All the known families are represented in the collections of the MNHN (National Museum of Natural History), but expeditions on the field are already planned for 2015, at which the post-doc could participate. The methodology used until now (Sanger sequencing of traditional genes for gastropods COI, 12S, 16S, 28S, H3, 18S) does not resolve the deeper nodes, and the post-doc will thus have to set up a new methodology for the group using Next-Generation Sequencing (NGS). Three approaches will be explored: sequencing of complete mitochondrial genomes, sequencing of transcriptomes, and exon-capture. Available fossils for the group will then be used to date the tree and rates of diversification will be estimated.

The successful candidate will be funded by the CONOTAX program (Net salary: 2,200 per month) and hosted in the Service de Systématique Moléculaire and the UMR7205 / ISYEB, in the MNHN of Paris. It is a one-year position that can be extended for another year, and it will start on January 1st, 2015.

Applicants should have: - a PhD degree in a relevant field - experience with molecular laboratory techniques, and in particular NGS - a good knowledge in molecular phylogeny and in phylogenetic approaches for studying diversification - a good scientific publication record - a good capacity to handle a scientific project, interact with other members of the lab and a willingness to train students.

How to apply: send a full CV (including a list of your skills relevant for the position and a list of publications) and a 2-3 pages document to explain how you would handle the project, and in particular what strategy you would apply to resolve the phylogeny of the Conoidea. Provide also the name and coordinates of 2 referees. Send you application before October 31st, 2014. Con-

tact (questions, applications): Dr. Nicolas Puillandre, puillandre@mnhn.fr

nicolaspuillandre@gmail.com

Montpellier GifsurYvette MicrobialEvolution

A post-doctoral position is available for two years, on the following project, 'Dynamics of yeasts and lactic acid bacteria interactions in sourdoughs ecosystems'. The postdoctoral researcher will work in collaboration with two research groups, one located in Montpellier, the other in Gif-sur-Yvette, France.

Project The community dynamics of an ecological niche is driven partly by selection and by complementation interaction between organisms. These interactions have been studied extensively for social organisms, or host-parasites interactions. Microbial species interactions in food-processing systems have drawn less attention. Sourdough, which includes less than ten species according to published studies, appears as a relatively simple model for studying positive and negative interactions. In sourdoughs, Lactic Acid Bacteria (LAB) and yeasts are always found together suggesting ecological facilitation between these prokayotes and eukaryotes. By contrast, within LAB and within yeasts, we observe a dominant species suggesting that competition drives the dynamics of the species diversity. The post-doctoral fellow will conduct experimental and mathematical modeling studies to understand: i) how yeast species and LAB species interact during the fermentation process; and ii) whether yeasts and LAB associations enhance the resilience of the sourdough community to the colonization by the commercial yeast Saccharomyces cerevisiae. The dynamics of sourdough ecosystems and its resilience to commercial yeast will be analysed both experimentally by microbial community monitoring and mathematically by modelling population dynamics in sourdough microbial community.

Requirements The successful candidate will have a PhD in ecology or microbiology and will demonstrate interest and abilities for both experimental and theoretical work. Ideally, the candidate will have skills in microbiology, ecology, mathematical modeling of systems dynamics, statistical analysis and R programming. He/she will also show enthusiasm for interdisciplinary research and ability to communicate effectively with other scientists at the interface of empirical and theoretical studies.

Research environment The position is funded by a French interdisciplinary project untitled 'Diversity and interactions in a low-input ' Wheat/Human/Sourdough' agro-food ecosystem: toward a better understanding of bakery sustainability' (Project ANR BAKERY, 2014-2018). This project includes eight academic partners with complementary skills (bio-mathematics, plant genetics, microbiology, sociology, centre for genetic resources managements) as well as bakers and farmers/bakers. The experimental part of the post-doctoral project will be carried out in the research group 'Yeasts diversity and adaptation to anthropic environment' on the Supagro campus in Montpellier (http://-www6.montpellier.inra.fr/spo_eng/Presentation) and the modeling part will be done in the research group 'Fundamental Quantitative Genetics' in Gif-sur-Yvette (http://moulon.inra.fr/index.php/en/team/genetique-quantitative-fondamentale). The candidate will share his/her time between both locations according to personal convenience and scientific queries.

Terms Full time contract for 24 months. The salary varies depending on the candidate experience. Starting date: from October 2014 Application and Contacts For application, please send a short CV including a description of past and present research activities, a motivation letter and the contact details of at least two referees. Application and informal enquiries should be sent to Delphine Sicard (sicard@supagro.inra.fr) and Judith Legrand (judith.legrand@moulon.inra.fr).

delphine.sicard@supagro.inra.fr

Montpellier PhylogenomicsSoftware

Postdocs/Software developers to work on PhyML and tools for phylogenomics

The ATGC bioinformatics platform (http://-www.atgc-montpellier.fr/) hosted by LIRMM (http://www.lirmm.fr/, Montpellier, France) is hiring postdocs/software developers for 18 months, renewable.

He will work in a stimulating environment within the MAB team (http://www.lirmm.fr/recherche/equipes/-mab) and the IBC (http://www.ibc-montpellier.fr/). The MAB team is internationally recognized for its contributions to research in phylogeny. Its work has led to

the development of globally utilized services in evolutionary bioinformatics (e.g. phylogeny.fr: Dereeper et al. 2008). The PhyML software (Guindon and Gascuel 2003; Guindon et al. 2010) is a reference in this field with over 10,000 citations and thousands of users worldwide.

In collaboration with researchers and engineers, the recruits will develop the PhyML software and tools for phylogenomics, including:

- Partition and mixture models, in the line of (Le et Gascuel 2008, 2010, 2012)

- Statistical methods of model selection, in the line of ModelTest and ProtTest (Posada and Crandall 1998, Abascal et al. 2005).

- Ancestral sequence reconstruction based on PhyML calculations.

- Develop a user-friendly web site (in the same spirit as phylogeny.fr) to provide a complete set of species and genes tree inference methods (supertree and reconciliation problems).

- Develop tools to visualize phylogenetic trees, date internal nodes , and integrate extrinsic characters (ecological, geographical, etc.) particularly in the context of epidemiology (Chevenet et al. 2013).

The recruits must have a solid experience in C programming, advanced knowledge in evolutionary biology and bioinformatics, and good skills in (some of): statistics, collaborative development tools, workflows (Taverna, Galaxy) and web services (WSDL, SOAP)

Montpellier is a sunny city located on the south coast of France on the Mediterranean Sea. It is a university city with an important cultural and scientific heritage (for example the oldest faculty of medicine in Europe). The natural attractions around Montpellier are very diverse, which is suitable for many activities including sailing, relaxing on the beach, hiking, climbing, canoeing, ...

Use the web form: http://ifb-gs.cnrs.fr/open-positions to apply. Your application will include detailled CV, motivation letter, references and publications.

Contacts: - Olivier Gascuel (gascuel@lirmm.fr) - Vincent Lefort (lefort@lirmm.fr)

Olivier Gascuel <gascuel@lirmm.fr>

PennStateU CoralMicrobiome Coevolution

A postdoctoral position is available in the lab of Dr. Monica Medina in the Department of Biology at Pennsylvania State University - University Park campus. The successful candidate will be expected to conduct research on coral microbiome coevolution. The work will involve handling large Illumina sequence tag data as well as microbial genomes isolated from different host species and locations throughout the world. Experience with next generation sequence data is expected. The candidate should have knowledge of the Unix environment and be able to program in at least one language (Perl, Python). Scientific diving (American Association for Underwater Science certification) and boating (US Cost Guard certification) experience are required. Ability to travel to remote field locations for extended periods of time will be necessary. Additionally, experience in microbiology, molecular biology, bioinformatics, statistics, and phylogenetic analysis is required. Requires a Ph.D. in microbiology, marine biology, genomics, bioinformatics or related field. Interested applicants should provide a cover letter detailing research interests, a CV, and contact information for three professional references. This is a fixed-term appointment funded for one year from date of hire with possibility of re-funding.

Applications should be submitted through http://-/psu.jobs/Search/Opportunities.html Job Number 53832

Mónica Medina Associate Professor Penn State University

Monica <momedinamunoz@gmail.com>

PUC Chile Evolutionary BiologicalControl

Although the advert is about the applied topic of biological control, we definitely look for an evolutionary biologist (of course, having interests in entomology and biological control, but not only).

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Postdoc Position in Biological control: Development of new biocontrol agents against insect pests in Chile.

The Universidad Católica de Chile (Santiago, Chile) is looking for a fellow with strong background in evolutionary biology to lead research and development activities in biological control, with the aim of developing new arthropod biocontrol agents for insect pest associ-

ated to fruit crops.

The successful candidate will work within the consortium involved in the European Commission project FP7-IAPP "Colbics" (industry/academia collaboration on biological control using macro-organisms): Institut National de la Recherche Agronomique (France), Universidad Politécnica de Valencia (Spain), Universidad Católica de Chile (Chile), Biobest (Belgium), InVivo Agrosolution (France), ANASAC (Chile).

The fellow will carry out a R&D programme aiming at comparing and selecting populations of biological control agents to finally develop high-performance biocontrol solutions.

Main activities will consist in:

- Identifying pests and natural enemies by morphological and molecular characterization.

- Setting up experimental designs to compare the phenotypic traits and performance of several candidate biological control agents.

- Applying concepts and methods of evolutionary biology to optimize the traits of the biocontrol agent populations and set efficient production processes.

- Advising students involved in laboratory, semi-field and field experiments.

- Analysing, summarizing and diffusing the results obtained.

They will be performed in very tight collaboration with the Chilean enterprise ANASAC Chile SA.

Main contacts: Tania Zaviezo (tzaviezo@uc.cl), Osvaldo Farias (ofarias@anasac.cl).

The ideal candidate will have:

- High motivation for experimental work in laboratory, semi-field and field conditions.

- Motivation and skills for teamwork, at the interface between public and private sectors.

- Coordination competence and experience.

- Capacity to adapt to multi-language work environments (Spanish, English, French).

- Basics about insect taxonomy.

- Skills in data analysis, statistics and basic bioinformatics.

- Published works (in peer-reviewed international journals) and high skills in scientific writing.

Candidate Eligibility Criteria (following FP7-IAPP rules):

(1) PhD Degree / Master Degree (or equivalent) + 4 years of full time research experience.

(2) Full-Time Research experience between 4 and 10 years since the Master Degree (or equivalent degree that enables to embark a PhD).

(3) Less than 12 months spent in Chile since November 2011.

Contractual conditions:

- Full-time contract.

- Employer: Pontificia Universidad Católica de Chile

- Duration: 24 months.

- Contract starting date: December 2014.

- Monthly Net salary: around 2,500 EUR (1,800,000 Chilean Pesos).

Instructions to applicants:

(1) Eligibility Check (deadline 12ˆth of October 2014): Applicants are asked to fill the online form at https://enquetes.inra.fr/index.php?sid=84548&lang=en (2) Preliminary Selection: Eligible candidates will be asked to answer a short questionnaire and provide a detailed C.V., along with a cover letter.

(3) Final selection: up to 5 candidates will be interviewed.

Thibaut Malausa Chargé de Recherches INRA UMR 1355 ISA 400 route des Chappes. BP 167 06903 Sophia Antipolis cedex. FRANCE Tel: +33 (0)4 92 38 65 06 Tel: +33 (0)9 77 21 71 66 E-mail : tmalausa@sophia.inra.fr Web : http://www.paca.inra.fr/institut-sophia-agrobiotech/Equipes-de-recherche/BPI Thibaut Malausa <tmalausa@sophia.inra.fr>

QueensU Belfast UniversityFellowships

Queen's University Research Fellowship Scheme

20 Fellowships will be offered for four years starting in 2014 - 2015. At the end of the four years, having undertaken the appropriate professional development, and satisfying the criteria for an academic post within the University, the Fellows will be offered an academic position.

Applicants will be required to demonstrate how their

current research is aligned to one or more identified priority themes. Of particular relevance is the theme "Molecular Sciences" including an emphasis on "big data". To apply candidates will be required to complete an online application form. You will also be required to attach your CV before submitting your online application form.

Salary £38,511 - £50,200 per annum

Closing date for applications is Friday 17 October.

Interviews in Molecular Biosciences will be held between 17 - 20 November

Full details http://www.qub.ac.uk/-sites/QUBJobVacancies/FeaturedJobs/-QueensUniversityResearchFellowshipScheme/-TheScheme/ Contact queens.fellows@qub.ac.uk

The Queen's University Marine Lab (off campus marine station) is happy to advise any candidates who wish to make use of Marine Lab facilities for work with marine organisms. Contact the Marine Lab director, Dr Julia Sigwart <j.sigwart@qub.ac.uk>

j.sigwart@qub.ac.uk

Rennes PartiallyAsexual PopGenetics

Rennes.PartiallyAsexual.PopGenetics

Revising the population genetics of partially asexual organisms A post-doc position of 16 months, to start ideally on November 1st or shortly thereafter, is available at INRA Rennes (Western France).

The candidate will work in the framework of a National research project (ANR Clonix: http://bit.ly/1fNF4U0 and http://bit.ly/VSvnyC) aiming at providing new tools to understand the ecology and evolution of partially clonal organisms. In the context of a revision of "neutral" expectations in terms of genetic characteristic of populations presenting asexual reproduction, the candidate will work in parallel on a set of synthetic dataset derived from simulations and mathematical developments, and from varying organisms exploring different mode of asexuality.

The objectives of the postdoc will be 1) to revisit the "neutral" expectations and identify the characteristic distributions of Multi Locus Genotypes under cyclical parthenogenesis, 2) use already-developed (by the team) mathematical method to infer the clonality from temporal empirical and simulated dataset. Analyses and publications of both mathematical methods and their applications will be the main goals of this postdoc.

She/He will contribute in validating new mathematical and statistical methods to infer evolutionary forces from partially asexual populations that will be later aggregated within an update of GenClone software. This postdoc will be performed in close interaction with Sophie Arnaud-Haond and one synergetic postdoc (Ifremer, Sète), Fabien Halkett & Stéphane de Mita (INRA, Nancy) Thierry de Meeus (IRD) and Myriam Valero (CNRS, Roscoff).

Requirements: (1) PhD with a strong background in population genetics, (2) Good experience of team work, (3) writing skills and (4) programming skills (preferably C/C++ or python). Phd student that should defend their doctoral thesis before the end of 2014 are also encouraged to apply.

Interested candidates should apply by September 21th by sending an email with: 1. A small text including the detail of your skills and competences in line with this postdoctoral position. 2. A detailed curriculum vitae. 3. A short summary of work previously done, mentioning the date of submission of the thesis. 4. A list of publications and communications / symposia. 5. Two letters of recommendation.

Contacts: - Solenn Stoeckel solenn.stoeckel@rennes.inra.fr researcher at the Institute for Genetics, Environment and Plant Protection, INRA, AgroCampus Rennes, University Rennes1, F-35653 Le Rheu, France; phone: +33 (0)2 23 48 70 83 - Sophie Arnaud-Haond Sophie.Arnaud@ifremer.fr researcher at UMR212 EME (Exploited Marine Ecosystems), Ifremer, F-34203 Sète, France; phone:+33 (0)4 99 57 32 61

Solenn Stoeckel <solenn.stoeckel@rennes.inra.fr>

Smithsonian MarineBiodiversity

Date: September 4, 2014 To: Smithsonian Marine Science Distribution From: Tennenbaum Marine Observatories Network Executive Committee Subject: Call for FY15 MarineGEO Postdoctoral Fellowship Proposals Submission Deadline: December 1, 2014 The SmithsonianÂ¹s Tennenbaum Marine Observatories Network

(TMON) invites proposals for Postdoctoral Fellowships that will advance goals of the Marine Global Earth Observatory. MarineGEO is a developing partnership among diverse organizations united by focus on global-scale, long-term study of coastal biodiversity and ecosystems using standardized approaches. MarineGEO is coordinated by TMON, which includes the Smithsonian Environmental Research Center on the Chesapeake Bay (SERC), the Smithsonian Marine Station on the Indian River Lagoon in Florida (SMSFP), the Carrie Bow Cay Marine Field Station in Belize (CCRE Program), and sites in Caribbean and Pacific Panama administered by the Smithsonian Tropical Research Institute (STRI). Additional partner sites are under development. Eligibility and Award Amount. Postdoctoral scientists must collaborate directly with two or more Smithsonian scientists as named sponsors (see Smithsonian Marine Research Staff at http://www.si.edu/marinescience/staff.htm) and must select co-Advisors from more than one SI unit (NMNH, SMSFP, SERC, STRI, NZP). Stipend is $48,000 per year with an allowance for health insurance, travel, and supplies up to a total $60,000 maximum (including stipend) per year. Awards will be made for a maximum of two years, pending first-year performance review. Proposals must focus on comparative research related to MarineGEO goals (http://www.si.edu/marinegeo) and involve at least two TMON facilities. Applicants must have completed the Ph.D. before commencing the fellowship. Individuals who have been employees at the Smithsonian within the previous year are not eligible. Applicants are strongly encouraged to contact prospective sponsors in developing their proposals. MarineGEO goals. MarineGEO and TMON are dedicated to understanding change in and relationships among the biodiversity, structure, and functioning of marine ecosystems at local through global scales. Our research aims to advance scientific capacity for forecasting change and informing policy. A cornerstone of MarineGEO is the use of standardized, repeated measurements and experiments, maintained over decades, conducted across the SmithsonianÂ¹s facilities and an expanding global network of diverse partners. This approach is designed to achieve rigorous comparative understanding across space and time, to understand variation in coastal marine ecosystems, and to assess links between local and global environmental forcing, biodiversity, and functioning of ecosystems. We seek applications for Postdoctoral research projects that address at least one of TMONÂ¹s overarching research themes: 1. How does marine biodiversity vary through space and time across the globe? 2. How do natural and human forces (e.g. fishing, land-use, invasions, habitat loss) drive changes in marine biodiversity and ecosystem functioning and resilience? 3. What are the consequences for human well-being of these changes in marine ecosystems? 4. How does anthropogenic alteration of carbon cycles affect coastal marine systems and ecosystem service provision? 5. How are marine ecosystems connected via dispersal and metapopulation dynamics, and how do these connections affect responses to change and human well-being? 6. How do nearshore food webs change through space and time? 7. How can the pastâ¹ancient through historicâ¹help us understand the consequences of local human activities and global change? 8. Where are the critical tipping points that lead to rapid and unwanted shifts in marine ecosystems, and how can these best be avoided? Proposal submission. Prospective applicants are strongly encouraged to consult with Smithsonian staff scientists prior to proposal submission. Proposals must be submitted electronically as a single PDF by midnight EST on December 1, 2014 to toscanom@si.edu. Two non-Smithsonian referees must be identified in the proposal and submit letters of support separately to the same email by this deadline. Proposal Review and Award Notification. Proposals will be peer-reviewed by a panel of Smithsonian scientists for scientific merit, project feasibility and match with MarineGEO goals. Award notification will be forwarded electronically by 1 March 2015 to the applicants and their Smithsonian sponsors. Smithsonian Scientific Diving Authorization. See www.si.edu/dive Progress Reports and Publications. A progress report is required for all projects and must be submitted electronically no later than ten months after start of fellowship appointment. A final report is due upon

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SyracuseU PlantEvolution

Post-Doctoral Position in Plant Evolution

A post-doctoral position is available in the laboratory of Jannice Friedman, in the Department of Biology at Syracuse University. Work in my lab is focused on the evolution of reproductive strategies in plants, and understanding both the genetics and ecology of divergent reproductive strategies. Current NSF-funded work is focused on understanding life history transitions be-

tween annual and perennial strategies in Mimulus guttatus, yellow monkeyflower. Other projects include the evolution of wind pollination and mating system evolution.

Our research on Mimulus addresses the following questions: What is the genetic basis of differences between annual and perennial strategies in M. guttatus? How do seasonal cues determine flowering versus vegetative strategies? What are the fitness consequences and adaptive significance of this variation in the field? We use a combination of QTL mapping, next-gen sequencing, common garden experiments in the native range (western N. America), and greenhouse and laboratory work at Syracuse.

The particular focus of this post-doc position will be tailored to the skills and expertise of the successful applicant, and the opportunity exists to develop new systems. The ideal candidate will use this appointment as an opportunity to develop and pursue novel and exciting questions. Preference will be given to candidates with a strong background in evolution, and experience with population or quantitative genetics and next-gen sequencing would be valuable.

The position is available for 2 years, and will include a competitive salary and full benefits. The ideal start date would be January 2015 or earlier. Interested candidates are welcome to contact me by email at friedman@syr.edu. Applications should be submitted here: https://www.sujobopps.com/postings/56352 and should include: a brief description of past research accomplishments and future goals, CV, PDFs of two publications, and contact information for three referees.

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

TempleU GeneDuplicationModels

Postdoctoral Research Associate: Mechanistic Birth-Death Models for Gene Duplication

Temple University

An NSF-funded postdoctoral research position is available for a collaborative project involving the research groups of David Liberles (Temple University from Fall, 2014; currently at University of Wyoming) and Liang Liu (University of Georgia). The position is guaranteed for 1 year with the possibility of extension and the successful candidate will be expected to relocate to Philadelphia, PA, USA.

The research project involves the construction of mechanistic models for duplicate gene retention and their implementation in a phylogenetic perspective in C++. The ideal candidate will have a strong background in mathematics and statistics, strong C++ programming skills, and experience with phylogenetic methods. Knowledge of evolutionary biology is a plus.

To apply, please send a cover letter that describes your background, motivation, and interests as well as a full CV to liberles@uwyo.edu<mailto:liberles@uwyo.edu>. Please also arrange to have 3 letters of recommendation sent directly by the letter writer to the above email address as well. International applicants are encouraged to apply and will be given full consideration.

"David A. Liberles" <Liberles@uwyo.edu>

TexasAMU ComputationalEvolutionaryBiol

A post-doctoral position is available to work in Gil Rosenthals lab at Texas A&M University, on a collaborative project with Peter Andolfattos lab at Princeton University. Salary is available for two years, with the opportunity to apply for further funding. The position is available immediately, but a delayed start date may be negotiated. The aim of the project is to apply next-generation sequencing, computational bioinformatics, and behavioral assays to characterize functional interactions among genes responsible for spontaneous melanoma in natural hybrids of Xiphophorus fish. The ideal candidate will be a passionate evolutionary or behavioral geneticist with excellent computational skills and experience with basic molecular biology. Experience with laboratory studies of behavior and/or command of Spanish are desirable. The work will be based at Texas A&M University in College Station, which offers an excellent living and work environment within easy reach of Houston and Austin. The postdoc will have the opportunity for multiple visits to Andolfattos lab at Princeton and/or to the CICHAZ field station in Mexicos Sierra Madre Oriental. We strongly encourage female, minority, and LGBTQ applicants. The University environment fosters work/life balance and is responsive to the needs of dual-career couples.

Please send a brief email with your CV to grosenthal@bio.tamu.edu for more information.

Thanks,

Gil

Gil G. Rosenthal, Ph.D. Professor of Biology/ Professor of Ecology & Evolutionary Biology Texas A&M University

grosenthal@bio.tamu.edu

TexasAMU ComputationalEvolutionaryBiol 2

A post-doctoral position is available to work in Gil Rosenthals lab at Texas A&M University, on a collaborative project with Peter Andolfattos lab at Princeton University. Salary is available for two years, with the opportunity to apply for further funding. The position is available immediately, but a delayed start date may be negotiated. The aim of the project is to apply next-generation sequencing, computational bioinformatics, and behavioral assays to characterize functional interactions among genes responsible for spontaneous melanoma in natural hybrids of Xiphophorus fish. The ideal candidate will be a passionate evolutionary or behavioral geneticist with excellent computational skills and experience with basic molecular biology. Experience with laboratory studies of behavior and/or command of Spanish are desirable. The work will be based at Texas A&M University in College Station, which offers an excellent living and work environment within easy reach of Houston and Austin. The postdoc will have the opportunity for multiple visits to Andolfattos lab at Princeton and/or to the CICHAZ field station in Mexicos Sierra Madre Oriental. We strongly encourage female, minority, and LGBTQ applicants. The University environment fosters work/life balance and is responsive to the needs of dual-career couples.

Please send a brief email with your CV to grosenthal@bio.tamu.edu for more information.

Thanks,

Gil

Gil G. Rosenthal, Ph.D. Professor of Biology/ Professor of Ecology & Evolutionary Biology Texas A&M University

Gil Rosenthal <grosenthal@bio.tamu.edu>

TUDelft ExperimentalFlagellumEvolution

Post-doc: Experimental Evolution of the Bacterial Flagellar Motor

Description We are looking for a post-doc (two years) to bring a highly promising, ongoing line of research on modular protein-complex evolution to fruition. The project examines how evolution incorporates incompatible components into the bacterial flagellar motor. Using engineered motors, we followed component integration during real-time evolution experiments. Next-generation sequencing and phenotypic analyses have begun to reveal the underlying evolutionary trajectories. The main challenge of the post-doc will be to dissect the mutational trajectories and associated phenotypic changes in order to generate new insight into the mechanisms of modular protein-complex evolution. The post-doc will also be encouraged to test existing and newly developed hypotheses (e.g. on the evolution of 'irreducible' complexity) using this experimental model.

Requirements Qualified candidates have a PhD in molecular (micro)biology, experimental ecology and evolution, biophysics, synthetic biology or a related field. In addition, they have a strong interest in experimental evolutionary research and are motivated by a deep scientific curiosity. Successful candidates have experience with (bacterial) genetics techniques, good experimental skills and a drive to learn new methods and concepts.

Research Group The Beaumont Lab seeks insight into the mechanisms behind the creative potential of evolution by mutation and selection from the nanoscale to the ecosystem level. We do this using real-time evolution and ecology experiments, synthetic biology and biophysics in combination with a range of bacterial model systems. Current research topics include the ecology and evolution of conductive bacterial nanowires, the evolutionary origins of biodiversity, and modular evolution of multi-protein complexes.

Bionanoscience Bionanoscience is a multi-disciplinary department that is dedicated to the study of fundamental and applied biological questions with cutting-edge tools from biology, physics and nanotechnology.

Research topics range from single molecule biophysics, evolution and synthetic biology to development of artificial cells. The department offers excellent technical facilities including an advanced microscopy suite and next-generation sequencing.

Information and application For more information about this position, please contact Dr. H.J.E. Beaumont, phone: +31 (0)15-2788647, e-mail: h.j.e.beaumont@tudelft.nl. To apply, please e-mail a detailed CV, an application letter explaining your interest in this specific project and contact information of two references by 20 October 2014 to Dr. H.J.E. Beaumont. When applying for this position, please refer to vacancy number TNWBN14-033.

h.j.e.beaumont@tudelft.nl

UAlberta InsectPopGenomics

A postdoctoral research position in insect population genomics is available in the laboratory of Felix Sperling, Department of Biological Sciences, University of Alberta. We are looking for someone to join us on a project that uses NGS methods (particularly genotyping-by-sequencing) to investigate landscape ecology, population structure and speciation in the spruce budworm species complex in western Canada. Genotyping data is already at hand, but needs to be more fully analyzed and written up. There is also significant opportunity to pursue other research questions depending on your personal interests and demonstrated abilities.

You must have a recent Ph.D. degree and previous research experience in population genetics and/or landscape ecology. Expertise and practical skills in genomic data analysis, next-gen sequencing, bioinformatics, quantitative ecology, molecular systematics or forest entomology would be highly advantageous. You must be highly motivated, ready to commit yourself to the project, and have excellent English language skills.

The position includes a competitive salary with benefits, and is open immediately. The selected candidate should start no later than January 2015. The position has a fixed term that extends to the end of March 2016 and is funded by Alberta Innovates BioSolutions. Edmonton is a friendly, culturally diverse city with nearby access to a great variety of natural areas. The Sperling lab has an excellent track record in placing people in career positions, and supports diverse projects ranging across systematics, evolutionary ecology and entomology.

Application process: Please send a cover letter outlining your relevant background and research interests, your CV, and contact information for three references to felix.sperling@ualberta.ca.

Felix Sperling, Professor

Department of Biological Sciences http://-www.biology.ualberta.ca/ University of Alberta, Edmonton, Canada

http://www.biology.ualberta.ca/faculty/-felix_sperling/ fsperlin@ualberta.ca

UArizona EcoEvolutionaryTheory ClonalInterference

_Postdoc position in eco-evolutionary theory _

A postdoc position is available to work with PI Joanna Masel (http://eebweb.arizona.edu/faculty/masel) at the University of Arizona in Tucson. A popular tourist destination surrounded on all four sides by mountainous national and state parks, Tucson is a vibrant city of nearly a million people with an attractive climate. The EEB department in Tucson was ranked in the top 10 by US News & World Report.

The postdoc will study evolutionary rescue in the presence of clonal interference, via a model of asexual population genetics (based on Desai & Fisher 2007). This model will be modified so that genotypes specify absolute fitness in a deteriorating environment, rather than relative fitness as is the norm in population genetics. The project is part of a broader effort to integrate the ecological density-dependence terms r and K with the classical population genetics fitness term of w, as part of an eco-evo theoretical synthesis: see http://arxiv.org/-abs/1407.1024 for the conceptual basis. We are just beginning an experimental evolution collaboration, and side projects applying the model to experimental evolution (and to other ecological and evolutionary theory) are encouraged. A strong quantitative background together with computational and/or modeling experience is required. A background in evolutionary and/or ecological theory is strongly preferred.

The Masel group's main research interests http:/-/www.eebweb.arizona.edu/faculty/masel/research/-index.html are in robustness and evolvability, using

a mixture of analytical theory, bioinformatic and simulation approaches. Contact Joanna Masel at masel@u.arizona.edu for more information and to apply. The position is available immediately and renewable over multiple years.

masel@email.arizona.edu

UArizona EvolvabilityTheory

Postdoc position in the theory of molecular errors and evolvability

A postdoc position is available to work with Joanna Masel (http://eebweb.arizona.edu/faculty/masel) at the University of Arizona in Tucson. A popular tourist destination surrounded on all four sides by mountainous national and state parks, Tucson is a vibrant city of nearly a million people with an attractive climate. The EEB department in Tucson was ranked in the top 10 by US News & World Report.

All molecular processes, from transcription to protein interactions, are subject to errors. We are interested in exploring the evolutionary consequences of this simple fact. In previous work (Rajon & Masel 2011 PNAS), we found that the evolution of error rates tends towards two extremes. One attractor represents a global proofreading solution that avoids making errors at many loci at once, the other a local robustness solution, where errors happen at high rates but the consequences of each error have evolved, one locus at a time, to be benign. Populations that evolved benign, co-optable cryptic sequences via the local solution are much more evolvable. This is because through the erroneous expression of cryptic sequences, selection has already explored and prescreened possible future mutations. In other words, because errors in gene expression and in replication (i.e. mutation) are so similar at the molecular level, selection can actually occur prior to mutation.

We are looking for a postdoc to study evolvability phenomena in versions of this model, and also investigate controversial hypotheses surrounding the adaptive evolution of evolvability. A strong quantitative background, good programming skills, and previous modeling experience are all required. A background in evolutionary theory is strongly preferred. Some interest in the molecular biology of transcription, translation, protein folding and binding, and the errors in each of these processes is an advantage. The position is available immediately, and is renewable, with funding secured for at least two years.

Contact Joanna Masel at masel@u.arizona.edu for more information and/or to apply.

masel@email.arizona.edu

UCalifornia Irvine Genomics

Department of Ecology & Evolutionary Biology, University of California Irvine Postdoctoral Scholar: genomics and evolution

A NSF-funded postdoctoral scholar position is available in the laboratory of Dr. Donovan P. German at University of California, Irvine. Research in the German lab is aimed at understanding the evolution of energy and nutrient acquisition strategies of organisms ranging from microbes to vertebrates (fishes in particular). The postdoctoral researcher will start by sequencing the genomes of two fish species, and examining the transcriptomes of these same species, plus six others. Successful candidates will collaborate with a dynamic team of biochemists, physiologists, evolutionary biologists, and ecologists at UC Irvine and other institutions.

Required qualifications include a recent Ph.D. (earned in 2010 or later) in molecular biology, biochemistry, or related fields. Desirable qualifications include experience with Next Generation molecular techniques at the bench and in bioinformatics, a strong publication record, excellent writing and communication skills, and a willingness to do field work (mainly to collect organisms for study).

Duration of position is dependent upon performance (annual appointments, with potential for renewal), and salary will be commensurate with experience. Applications submitted by November 15, 2014 will be given full consideration, although applications will be reviewed until the position is filled.

Qualified candidates should submit curriculum vitae, a one-page statement of research interests, and names and contact information for three references to the following online recruitment URL: https://-recruit.ap.uci.edu/apply/JPF02623 For more information about this position contact Dr. Donovan P. German at dgerman@uci.edu.

The University of California, Irvine is an Equal Opportunity/Affirmative Action Employer advancing inclusive excellence. All qualified applicants will receive consideration for employment without regard to race,

color, religion, sex, national origin, disability, age, protected veteran status, or other protected categories covered by the UC nondiscrimination policy.

Sincerely, Donovan

Donovan P. German, PhD Assistant Professor Department of Ecology and Evolutionary Biology University of California Irvine, CA 92697 dgerman@uci.edu http://-german.bio.uci.edu

"Donovan P. German" <dgerman@uci.edu>

UCalifornia SantaCruz Paleogenomics

POSTDOCTORAL SCHOLAR POSITION IN PALEOGENOMICS

The Paleogenomics Lab at the University of California Santa Cruz seeks a postdoctoral scholar to participate in an international collaboration whose goal is to improve the efficiency of DNA isolation and genomic library preparation protocols that are used when working with ancient and historic remains. The Postdoctoral Scholar will use these new techniques to develop a research project within one of the major research themes of the laboratory, for example how environmental change and/or inter-species hybridization affects the distribution of genomic diversity within a population or species. Full details of the position can be found on our website: http://pgl.soe.ucsc.edu/ The Paleogenomics lab uses genomic data isolated from the preserved remains of plants and animals that lived during the last ~1 million years to better understand how genetic diversity is generated and maintained within populations through time. The Lab is jointly run by Professors Beth Shapiro and Ed Green and combines experimental and computational approaches to address a variety of paleogenomics topics.

The successful candidate will work cooperatively with a team of scientists including molecular biologists, geologist, paleontologists and biostatisticians to: (1) Refine laboratory protocols for the extraction, amplification, and characterization of ancient DNA; (2) Develop new protocols to enrich ancient samples for genomic targets of interest, for example specific loci or complete genomes; (3) Develop a focal project that will add to the growing body of data describing global changes in biodiversity within the last 100,000 years.

Please send a CV, Statement of Interest, and contact information for three references to Beth Shapiro at bashapir@ucsc.edu. Consideration of applications will begin 15 Sep 2014, and will continue until the position is filled.

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The University of California, Santa Cruz is an Affirmative Action/Equal Employment Opportunity Employer, committed to excellence through diversity. We strive to establish a climate that welcomes, celebrates, and promotes respect for the contributions of all students and employees. Inquiries regarding the Universitys equal employment opportunity policies may be directed to: Office for Diversity, Equity, and Inclusion at the University of California, Santa Cruz, CA 95064; (831) 459-2686. If you need accommodation due to a disability, please contact the Academic Personnel Office atapo@ucsc.edu (831) 459-4300.

beth.shapiro@gmail.com

UExeter PathogenPlasticity

College of Life and Environmental Sciences

Centre for Ecology and Conservation, Penryn Campus

Associate Research Fellow / Research Fellow (Ref. P47672)

Salary; starting from 25,513 pounds up to 33,242 pounds per annum depending on qualifications and experience

Fixed Term contract for 36 months

The College wishes to recruit an Associate Research Fellow or Research Fellow to support the work of Dr Camille Bonneaud and Dr Alastair Wilson. This NERC funded post is available for 3 years from 1st December 2014 (or as soon as possible thereafter). Based at the University of Exeter?s Penryn Campus in Cornwall, the position will also require periods of field/lab work with collaborators in the USA. The successful applicant will use a well-documented bacterial outbreak in a wild songbird to test outstanding questions regarding phenotypic plasticity in an emerging pathogen. The project will entail experimental studies of pathogen responses in vivo, as well as molecular work in the laboratory. A better understanding of how pathogens maximise fitness in different environments represents an exciting field in evolutionary biology with significant ramifications for epidemiology, conservation and medicine.

Applicants must possess a PhD or equivalent in evolutionary biology, ecology or a related field of study. The successful candidate will be a proven investigator with a background of experimental research and a successful track record of publishing their work, and will possess good interpersonal skills. An ability to conduct highly quantitative analyses is essential, as is a good understanding of evolutionary and disease biology. Practical knowledge of molecular laboratory techniques would be advantageous and previous experience handling birds would also be an asset (although full training will be provided).

For appointment at Associate Research Fellow level, the starting salary will be from ?25,513 up to ?28,695 on Grade E, depending on qualifications and experience. For appointment at Research Fellow level, the salary will be ?33,242 on Grade F. Appointment at Grade F will be subject to additional criteria and role responsibilities as defined in the job description.

For further information on the project or informal enquiries about the post please contact Dr Camille Bonneaud, e-mail c.bonneaud@exeter.ac.uk.

Applications should be made via our website. For more information and to apply online please go to www.exeter.ac.uk/jobs Please quote reference number P47672 in any correspondence.

The closing date for applications is Sunday 12th October 2014. Interviews are expected to take place soon after.

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.

The University of Exeter is an equal opportunity employer which is 'Positive about Disabled People'. Whilst all applicants will be judged on merit alone, we particularly welcome applications from groups currently underrepresented in the workforce.

Richard Sitko Employee Services Administrator - Recruitment Employee Services

E: 01392 723312 r.sitko@exeter.ac.uk

Human Resources, Room 357a, Northcote House, The Queens Drive, Exeter,EX4 4QJ

"Sitko, Richard" <R.Sitko@exeter.ac.uk>

UFederalSaoCarlos Brazil QuantGeneticsSpeciation 2

We are re-advertising the following position - this is available for an immediate start:

A postdoctoral position (up to two years funding depending on start date) is now available at the Universidade Federal de Sao Carlos (UFSCar) working with Reinaldo A. de Brito, in collaboration with Jason Wolf (University of Bath).

The project is focused on understanding the genetics of species differences in South American fruit flies of the group Anastrepha fraterculus (Diptera: Tephritidae). The primary goal of the project is to understand the nature of variation underlying traits that distinguish species (including major ecologically relevant traits as well as traits potentially involved in mate recognition) and how the species differences relate to within species variation.

The postdoc will contribute to empirical and computational components of the project. There is considerable flexibility and opportunities for the postdoc to make major contributions to the direction of the research program. Experimental work under this project includes RNA-seq approaches to understanding gene expression in hybrids and multigenerational breeding schemes aimed at mapping variation associated with species differences.

If you expressed interest in our previously advertised positions and would like to be considered for this position, please let us know and send an updated CV.

Please send queries or application materials to Reinaldo de Brito (and CC to Jason Wolf) at:

Reinaldo A. de Brito brito@ufscar.br CCBS- Depto de Genetica e Evolucao Universidade Federal de Sao Carlos

Jason B. Wolf Jason@evolutionarygenetics.org Dept. of Biology & Biochemistry University of Bath

jason@evolutionarygenetics.org

UHaifa Bioinformatics

Post-Doc Positions at the Institute of Evolution, University of Haifa, Haifa, Israel

We are looking for independent, motivated, diligent, laborious, dedicated Bioinformaticians as post-doctorate fellows for a project aimed at revealing the mechanisms of cancer-resistance and anti-cancer activity of the hypoxia-tolerant subterranean, blind mole-rat, Spalax along its underground evolutionary adaptations. Our project has captured the interest of the scientific community and we have ample financial support for the studies. Generous fellowships ($30K to $40K according to qualifications and performance) are available, immediately, for Post-Docs experts in bioinformatics with a background of good understanding biological questions. That is that can independently handle raw output data of RNA-seq / miR seq/ Genomic, analyze it and can interpret intelligently the relevant biological background. Outstanding candidates for PhD experienced in Bioinformatics will also be considered. Familiarity with cancer research is an advantage. Experience of writing manuscripts for publication and a publication record in relevant journals are expected. English skills both oral and written are required. American, Western-European or Israeli education is a significant benefit.

Scientific background: We are working with the hypoxia-tolerant (down to 3% O2), long-lived (>20 years) subterranean blind mole-rat, Spalax, which shows an outstanding cancer-resistance and anti-cancer capabilities. Observations of thousands of individuals at our Institute have never noticed a spontaneous malignant tumor. Furthermore, we have found in Spalax, compared to other above-ground, hypoxia-sensitive, short-lived species, different structure and function of major genes related to cancer (p53, heparanase, genes of antioxidant defense and DNA-repair genes). Assessment of Spalax transcriptome assembly and expression data has revealed enrichment of genes that overlap cancer resistance, apoptosis, angiogenesis, and hypoxia-tolerance and elicits much wider and stronger expression in Spalax than in rat (Malik et al, 2012, BMC genomics, 13, 615). Moreover, Spalax has shown extremely high cancer-resistance to chemical carcinogens that induced cancer in 100% of mice and rats. Most intriguing, fibroblast cells only from Spalax, but not from other species, inhibit growth and kill cancer cells, but not normal cells, from various tissues and species, most importantly a wide range of human cancer cells. This is exhibited in both co-culture system or by exposure to factors secreted into conditioned media harvested from Spalax fibroblasts. Decreased cancer cell viability and proliferation, reduced colony formation in soft agar, disturbed cell cycle progression, chromatin condensation, nuclei deformation and mitochondrial fragmentation were reproducibly observed (Manov et al., 2013, BMC biology 11, 91). Our present objectives is to identify and isolate the substances secreted by Spalax cells, resolve with which components they interact that are active only on cancer cells, in order to unravel the biological mechanisms and pathways that evolved in Spalax cell machinery and ultimately lead to the death of cancer-cells. The study could attest to be a breakthrough in cancer research, using the long lived, hypoxia- and cancer-tolerant Spalax as a significant biological resource for biomedical research that hopefully could open new horizons in treatment and prevention of cancer in humans.

Contact: The applications should be submitted, together with extended CV and bibliography, summary of past accomplishments, and contact information of 3 referees, to Prof of Research Aaron Avivi (aaron@research.haifa.ac.il) AND Dr. Imad Shams (imadshams@gmail.com). (http://-evolution.haifa.ac.il/index.php/29-people/personal-websites/77-personal-site-avivi)

aaron@research.haifa.ac.il

UJohannesburg MarineGenomics

Postdoc in marine genomics at the University of Johannesburg, South Africa.

The Molecular Zoology Laboratory at the University of Johannesburg invites applications for postdoctoral positions for studying thermal adaptation in coastal invertebrates and/or fishes for 2015. As this work includes a significant genomic component, we are particularly interested in researchers who have experience with next-generating sequencing data analyses (or at least with unix-based bioinformatics).

The fellowships are funded through the South African Network for Coastal and Oceanographic Research (SANCOR) and are open to both local and international researchers. The 'official' fellowship is valued at R120 000 p.a. + R30 000 for travel (1 R or ZAR

= US$ 0.09), but top-up funding is available from the university. For details on eligibility, please see https://-/nrfsubmission.nrf.ac.za. The internal deadline is October 17.

Interested researchers should please contact Dr Peter Teske directly at prteske@uj.ac.za

Dr Peter Teske *Senior Lecturer: Department of ZoologyUniversity of Johannesburg, Kingsway CampusAuckland Park 2006South Africa* *Tel +27 (0)11 559 3373 <%2B27%20%280%2911%20559%203373>*

*Molecular Zoology Lab: http://sites.google.com/-site/drpeterteske/ *Flinders University Molecular Ecology Lab: http://www.molecularecology.flinders.edu.au Peter Teske <pteske101@gmail.com>

UKansas Biodiversity

A postdoctoral researcher position is available in the research group of Dr. Andrew Short in the Department of Ecology and Evolutionary Biology and Biodiversity Institute at the University of Kansas. We are particularly interested in applicants with research interests and demonstrated experience in niche modeling, systematics and macroevolution, and/or phylogeography. The selected candidate will conduct both independent and collaborative research along one or more of these research lines using aquatic beetles as a model system; the specific project(s) are open and will be formulated jointly with the successful candidate and their strengths and interests. Research opportunities may include travel for fieldwork and relevant scientific meetings. The selected candidate will also contribute to the training and development of graduate and undergraduate students in the Short lab group. For more information on the position, research group, and project lines: https://sites.google.com/ site/theshortlab/ To apply, go to http://employment.ku.edu/staff/1604BR. Application review begins September 8, 2014. KU is an EO/AAE. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex(including pregnancy), age, national origin, disability, genetic information or protected Veteran status.

Dr. Andrew Short Assistant Professor & Curator Division of Entomology, Biodiversity Institute Department of Ecology & Evolutionary Biology University of Kansas 1501 Crestline Drive, Suite 140 Lawrence, KS 66045 USA Office: 785.864.2323 Email: aezshort@ku.edu<mailto:aezshort@ku.edu> Web: http://sites.google.com/site/theshortlab/ Twitter: @TheShortLab

aezshort@ku.edu

UMichigan MacroevolutionComputBiol

Job title: Postdoctoral position in computational macroevolution

A postdoctoral position in computational macroevolution is available in Dan Rabosky's lab at the University of Michigan, Ann Arbor. The postdoctoral researcher will be involved the development and application of methods for studying evolutionary dynamics (speciation, extinction, phenotypic evolution) across phylogenetic trees that potentially include many thousands of taxa. The project will involve either extensions or applications of the BAMM / BAMMtools software platform developed by the Rabosky lab (see http://-bamm-project.org for more information). BAMM is a Bayesian framework for modeling complex mixtures of dynamic evolutionary processes on phylogenetic trees. The postdoctoral researcher will be involved with at least one of the following:

(i) Development and implementation of new methods for modeling evolutionary dynamics from phylogenetic and/or paleontological data. An area of particular interest involves methods for combined analyses of paleontological and neontological data with BAMM.

(ii) Empirical analyses of evolutionary radiations with BAMM, towards understanding why rates of speciation, extinction, and phenotypic evolution vary across the Tree of Life.

(iii) Development and extensions to BAMMtools, our R package for analyzing and visualizing evolutionary dynamics from BAMM output (see examples of analyses and visualization with BAMMtools on the BAMM project website).

The ideal candidate will have a background in quantitative methods in evolutionary biology and/or computational biology. Demonstrable programming ability in C/C++ and/or R is required (C++ essential for BAMM development, but not necessarily for empirical projects or BAMMtools development). Previous experience studying macroevolutionary dynamics is helpful,

but we welcome applications from any area of computational biology, including population genetics, theoretical ecology, and applied mathematics.

The position offers exceptional opportunities for independent research, career development, and quantitative skills training. We have an outstanding group of researchers in quantitative/computational evolutionary biology and biodiversity science in the Department of Ecology and Evolutionary Biology, the Museum of Zoology, and the Museum of Paleontology at the University of Michigan.

Applications should be sent to drabosky at umich.edu. Please include a cover letter describing your research interests and background, a C.V., evidence of programming experience, and contact information for three references. Start date is flexible. Any questions about the position can be directed to Dan Rabosky.

Dan Rabosky <drabosky@umich.edu>

UMichigan MammalianEvolutionaryBiology

Mammalian Behavior, Physiology, and Evolutionary Ecology Post-doc. I am seeking a postdoctoral research associate to work with my newly formed research group at the University of Michigan on questions at the intersection of behavior, physiology, and life histories in mammals. One broad aim of this research will be to document how developmental stress affects the physiology/behavior/life histories of wild mammalian species. This position will involve fieldwork in North America with free-living mammals in addition to detailed laboratory work to measure physiological, neurological, and genomic characteristics. The postdoctoral research associate will work collaboratively with my research group to address some specific research questions but will also have the scientific freedom to develop and address their own questions within our study systems. This will involve field and lab work, statistical analyses, writing papers and grant proposals, administrative work associated with the field/lab projects, supervising staff/undergraduates/graduates, and participating in outreach activities.

Applicants must have a Ph.D. in a related field by the start of the position and should be highly skilled in either fieldwork or laboratory techniques but preferably both. Applicants should possess some combination of desired technical skills (e.g., field work, neuroscience, hormone/oxidative stress assays, qPCR, in situ hybridization, epigenetics, bioinformatics, quantitative genetics) and also advanced statistical skills and past evidence of publishing papers. Applicants with no experience in fieldwork but with highly developed laboratory skills are also encouraged to apply. All applicants should be highly motivated, organized, creative, and collaborative.

This position will be based in my lab (Ben Dantzer) at the University of Michigan (Ann Arbor, MI) but will require fieldwork in other locations in North America. The initial position is a 12 month, full-time, and fixed-term position, with a second year depending upon performance. The start date is negotiable depending upon the candidate but ideally by 1 February 2015. To apply, please send to me via email (Dantzer@umich.edu) in a single PDF: 1) a cover letter outlining your research interests, skills, and why you are applying, 2) CV (containing at least 3 references), and 3) two recent first-authored publications. Please send these materials to me by 1 December 2014. Feel free to contact me if you have any questions or view my webpage (http://www-personal.umich.edu/~dantzer/).

The University of Michigan is an equal opportunity/affirmative action employer.

-Ben

Ben Dantzer, Ph.D. Assistant Professor Department of Psychology University of Michigan Ann Arbor, MI 48109 USA

Email: dantzer@umich.edu Phone: 734-615-2352 Twitter: @ben_dantzer

Web: http://www-personal.umich.edu/ ~ dantzer/ www.redsquirrel.ca www.kalahari-meerkats.com Benjamin Dantzer <bendantzer@gmail.com>

UMinnesota ZebramusselPopgenetics

Postdoc population genetics/genomics of invasive populations of zebra mussels. A postdoctoral position is available in the Minnesota Aquatic Invasive Species Research Center (MAISRC) at the University of Minnesota. The postdoctoral scholar would work in collaboration with Dr. Michael McCartney on projects related to population genetics, genomics and ecology

of invasive populations of zebra mussels in Minnesota. The first project uses microsatellite DNA and SNP genotyping, and genetic clustering methods and tests of invasion models, to examine source populations and pathways of invasion of inland lakes and rivers. A second project examines the larval ecology of spread through small streams interconnecting inland lakes, and a tributary of the Upper Mississippi. A third project will develop qPCR approaches for early detection and quantification of veliger larvae. Start date can be as early as October 2014, with two + years of funding that may be extended. PhDs with experience in one or more of the following fields: molecular population genetics/population genomics, molecular ecology, invasion genetics, qPCR and other molecular approaches to detection/quantification of organisms in environmental samples, and larval/reproductive ecology of zebra mussels should apply by first sending a letter of interest and CV to Michael McCartney at mmccartn@umn.edu. The position is posted under requisition number 192583 on the employment website at the University of Minnesota: https://employment.umn.edu/applicants/jsp/-shared/search/Search_css.jsp Michael A. McCartney, PhD Research Assistant Professor Minnesota Aquatic Invasive Species Research Center Department of Fisheries, Wildlife and Conservation Biology University of Minnesota 135 Skok Hall 2003 Upper Buford Circle St. Paul, MN 55108

mmccartn@umn.edu <nash0029@umn.edu> Office:124 Hodson Hall (612) 301-7703 voice (651) 724-0754 cell

mmccartn@umn.edu

UMontana ExptEvolutionaryGenomics

Postdoctoral Position in Experimental Evolutionary Genomics at the University of Montana

A postdoctoral position is available in the laboratory of Frank Rosenzweig at the University of Montana, Missoula, MT (http:// http://cas.umt.edu/dbs/-people/faculty-details.php?id=903). Our group uses comparative and experimental approaches to understand adaptation and genome evolution in microbes, specifically the commensal Escherichia coli, the opportunistic pathogen Pseudomonas aeruginosa, and the free-living yeast Saccharomyces cerevisiae. The postdoc will engage in NASA-funded research aimed at defining the genomic and environmental boundary conditions that favor emergence of metabolic interactions in simple environments. This project follows on from published work describing the genome sequences and gene expression patterns of a cross-feeding E. coli consortium that evolved under resource limitation (PLoS Genetics 5(11):e1000713 and PLoS Genetics 10(6):e1004430).

Overall, this project encompasses three Specific Aims: to discover the degree to which different ancestral genotypes are likely to give rise to mutualism; to test how different limiting nutrients influence the likelihood that cross-feeding consortia evolve; to test the ecological stability of newly evolved mutualism in the face of biotic and abiotic disturbance. This research will be carried out in collaboration with investigators at Stanford (Gavin Sherlock) and Exeter University (Ivana Gudelj). The successful applicant will be expected to have practical knowledge of basic molecular genetic techniques such as PCR, gene knock-out and replacement, and transformation, as well as demonstrated expertise in at least two of the following, all of which are essential to the success of this project: theory and practice of continuous culture, mathematical modeling of population genetic processes, analysis of NextGen sequence data, microarray analysis, bacterial physiology.

The successful will take primary responsibility for executing evolution experiments described for this project, and for coordinating modeling and sequencing efforts with investigators from Exeter and Stanford. Evidence of excellent oral and written communication skills and organizational abilities is therefore required, in addition to a strong interest in evolution, and a willingness to learn new techniques. The postdoc will be expected to attend weekly lab meeting, supervise undergrads working on this project, present research at national and regional conferences, and to take a lead role in the data analysis and background research required for for timely publication of research results in top-tier journals.

Screening of applicants will begin October 1, 2014; the position will remain open until filled. The preferred start date is?November 15, 2014, but flexible. Interested applicants should direct a cover letter, CV, two PDFs of re-prints/pre-prints and three letters of reference to Frank Rosenzweig, Professor of Biology, Division of Biological Sciences, 32 Campus Dr., Missoula, MT 59812. Ph: (406)531-2163. Email: frank.rosenzweig@umontana.edu.

Frank Rosenzweig, PhD Professor of Biology University of Montana Missoula, MT 59812

Ph: (406) 243-4834 E-mail: frank.rosenzweig@umontana.edu

"Rosenzweig, Frank" <Frank.Rosenzweig@mso.umt.edu>

UMontana ExptEvolutionaryGenomics 2

Postdoctoral Position in Experimental Evolutionary Genomics at the University of Montana

A postdoctoral position is available in the laboratory of Frank Rosenzweig at the University of Montana, Missoula, MT (http:// http://cas.umt.edu/dbs/people/-faculty-details.php?id=903). Our group uses comparative and experimental approaches to understand adaptation and genome evolution in microbes, specifically the commensal Escherichia coli, the opportunistic pathogen Pseudomonas aeruginosa, and the free-living yeast Saccharomyces cerevisiae. The postdoc will focus on a new NASA-Exobiology funded project directed by Research Prof Eugene Kroll. The goal of this project is to elucidate mechanisms of rapid genome evolution in yeast populations placed under severe stress; the research builds on recently published work describing such changes and their potential macroevolutionary consequences (e.g., MolBiolEvol 25(2) 310 and PLoS One 0066414).

The project encompasses three Objectives: to identify, isolate and assay the fitness effects of specific large-scale genomic rearrangements in yeast that arise during starvation; to estimate the frequency with which starvation-associated genomic rearrangements arise in starvation culture; to delineate pathways that lead to starvation-induced genomic rearrangement by evaluating genes involved in homologous recombination, non-homologous end-joining, mismatch repair, environmental signal transduction and retrotransposition. The project will be carried out in collaboration with our longstanding Stanford collaborator, Gavin Sherlock, who will be responsible for identifying chromosomal breakpoints via deep sequencing. The successful applicant will be expected to have practical knowledge of basic molecular genetic techniques such as PCR, gene knock-out and replacement, as well as demonstrated expertise in at least two of the following: (i) perform pulsed-field gel analyses, (ii) prepare yeast DNA for sequencing and interact with sequencing facilities, decode and interpret sequencing results as required for finding genome breakpoints, (iii) introduce large-scale constructs in yeast using recombinase-based systems, (iv) construct plasmids with rearrangement markers in yeast, (v) introduce a range of specific mutations in yeast cells marked by specific antibiotic markers, (vi) perform competition experiments using yeast strains that harbor these mutations.

The successful applicant will be expected to take primary responsibility for executing the evolution experiments described for this project, and for coordinating sequencing efforts. Evidence of excellent oral and written communication skills and organizational abilities is required, in addition to a strong interest in evolution, and a willingness to learn new techniques. The post-doctoral associate will be expected to attend weekly lab meetings, supervise undergraduate students working on this project, present research at national and regional conferences, and to take a lead role in the data analysis and background research required for timely publication of research results. Salary plus benefits are available for two years, contingent on funding and satisfactory performance in the first year. Salary is fixed at NIH scale for entry-level postdoctoral fellows.

Screening of applicants will begin October 1, 2014; the position will remain open until filled. The preferred start date is?November 15, 2014, but flexible. Interested applicants should direct a cover letter, CV, two PDFs of re-prints/pre-prints and three letters of reference to Frank Rosenzweig, Professor of Biology, Division of Biological Sciences, 32 Campus Dr., Missoula, MT 59812. Ph: (406)531-2163. Email: frank.rosenzweig@umontana.edu.

Frank Rosenzweig, PhD Professor of Biology Division of Biological Sciences 32 Campus Dr. University of Montana Missoula, MT 59812

Ph: (406) 243-4834 E-mail: frank.rosenzweig@umontana.edu

"Rosenzweig, Frank" <Frank.Rosenzweig@mso.umt.edu>

UNevada Reno BioinformaticsGenomics

POSTDOCTORAL POSITION IN BIOINFORMATICS AND GENOME EVOLUTION AT THE UNIVERSITY OF NEVADA, RENO

The newly established Alvarez-Ponce lab at the University of Nevada, Reno, is accepting applications for a postdoctoral position to work on molecular evolution. Research interests of the lab include the evolution of molecular pathways and networks (e.g., protein-protein

interaction networks, metabolic pathways/networks, signal transduction pathways/networks, etc.), natural selection, and the adaptation of proteins to different temperatures.

Funds are available for 2-4 years. The initial appointment will be for one year, extensible upon satisfactory performance.

The successful candidate will have: - A PhD in Biology, Computer Science or a related field. - A strong interest in Molecular Evolution. - Experience with bioinformatics analyses, including programming in any scripting language (e.g. PERL or Python). - Evidence of excellence in research and high productivity. - Good communication and interpersonal skills.

Experience in as many as possible of the following areas would be a plus: - Network analyses. - Molecular evolution analyses, and in particular natural selection analyses. - Computer simulations. - Protein structure analysis, and homology modeling. - Next Generation Sequencing.

Candidates should submit their applications on https://www.unrsearch.com/postings/16132, including: - An application letter, addressing the applicants motivation for the position, and how their experience and skills fulfill the requirements listed above. - A full CV. - Contact information for 3 potential referees.

More information on the lab can be found at www.genomeevol.wordpress.com The University of Nevada, Reno is a Tier I institution offering a highly productive research environment, including outstanding core facilities in proteomics, genomics, and bioinformatics. The Biology Department has a growing evolutionary genomics research community. Reno is located in the Sierra Nevada mountains near Lake Tahoe, and has been recently rated as one of the best small cities in the US for outdoor recreation and overall quality of life.

Please circulate this post among suitable candidates.

David Alvarez-Ponce, PhD Assistant Professor Department of Biology University of Nevada, Reno www.genomeevol.wordpress.com david.alvarez.ponce@gmail.com

UNorthCarolina Charlotte EvolutionDisease

Post doctoral position in Molecular Epidemiology and Evolution of Agents of Infectious Disease at UNC Charlotte.

Duties will include supporting projects through original research and publication, collaboration with other team members and stakeholders, and mentoring of students.

The employee will also contribute to development of proposals for funding.

Applicants should have experience in molecular systematics, biogeography, host-pathogen systems, and/or computational biology.

Ph.D. required in biology, computer science, or related fields.

send CV to unccpostdoc@gmail.com

unccpostdoc@gmail.com

Prof. Dan Janies Dept. Bioinformatics & Genomics

(Please note this was incorrectly flagged and is a legitimate advert - Brian Golding)

UNotreDame InfectiousDiseaseDynamics

Postdoctoral Research Position in Infectious Disease Dynamics at the University of Notre Dame

A candidate for a postdoctoral research position is sought for the Perkins Lab at the University of Notre Dame. Research will focus on the development and application of mechanistic models of the dynamics of vector-borne pathogen transmission and control, with an emphasis on dengue and malaria. There are a range of projects that the successful candidate could pursue, depending on her/his interests and skills. Major research themes include (i) developing, applying, and testing new methods for the inference of pathogen movement based on a combination of genetic and epidemiological data; (ii) developing and applying theory for targeted control and surveillance; and (iii) modeling human movement, exposure, and contact at a variety of scales. A variety of approaches will be taken, including development of new theory, statistical inference using novel methods, simulation studies, and confronting these approaches with data. Candidates will also be encouraged to dedicate a portion of their time to developing and leading projects of their own that are broadly consistent with the goals of the lab.

Desirable qualities of candidates include (1) a Ph.D. in Biology, Mathematics, Statistics, Physics, or another relevant field; (2) strong programming and software development skills; (3) experience conducting research using mathematical models; (4) an interest in infectious disease dynamics and global health; and (5) knowledge of population genetics and/or phylogenetics. Salary will be competitive and commensurate with skills and experience, benefits will be provided, and support is available for travel to conferences and to visit field sites as appropriate.

The Perkins Lab is based in the Department of Biological Sciences and the Eck Institute for Global Health at the University of Notre Dame, which provide stimulating environments for research on the epidemiology and pathobiology of infectious diseases of global concern. Interactions with the Department of Applied and Computational Mathematics and Statistics and other units on campus are also encouraged.

For further information, please email Alex Perkins (taperkins@nd.edu) with a statement of interest, a CV, and the names of and contact information for three references.

tperkin1@nd.edu

UNottingham AncestralGenomes

Postdoctoral Research Associate/Fellow School of Life Sciences, University of Nottingham, UK

Â£25,513 to Â£31,342 (minimum with PhD Â£28,695) per annum depending on skills and experience.

We are seeking a motivated and creative post-doctoral researcher to work on an ambitious project using comparative genomics to understand the evolution of eukaryotes. All extant eukaryotes descended from a single common ancestor ˜1-2 billion years ago, and have since diversified into a great variety of forms, including the major multicellular lineages of animals, plants, seaweeds and fungi. This project will use the availability of recent complete genome sequences to reconstruct the protein repertoire encoded in the last common eukaryotic ancestor to understand the biology of this ancient cell and identify how this repertoire was augmented, reduced or modified during the diversification into the main eukaryotic lineages.

The work is part of an award made by the Leverhulme Trust for a collaborative project between two groups with a proven track record in evolutionary cell biology. The appointee will join the research group of Dr Bill Wickstead in the School of Life Sciences at the University of Nottingham, but will also be required to work in collaboration with a post-doctoral researcher in the group of Dr Tom Richards at the University of Exeter.

Candidates must hold, or be near to completion of, a PhD (or equivalent) in comparative genomics, evolutionary biology or another area of biology with a strong computational or bioinformatic component. It is essential that they can demonstrate outstanding skills in analysis of genomic data, but also have an excellent understanding of cell biology. Applications from strong candidates with a track-record including publications in either or both of these areas are particularly encouraged.

This full-time post is available from 1 November 2014 for a period of up to 2.5 years.

Informal enquiries may be addressed to Bill Wickstead, email: bill.wickstead@nottingham.ac.uk. For information or to apply, see: http://www.nottingham.ac.uk/-jobs/currentvacancies/ref/MED281914 .Additional information regarding the labs' research activities can be found at http://www.wicksteadlab.co.uk and https:/-/biosciences.exeter.ac.uk/staff/index.php?web_id=-tom_richards .This message and any attachment are intended solely for the addressee and may contain confidential information. If you have received this message in error, please send it back to me, and immediately delete it. Please do not use, copy or disclose the information contained in this message or in any attachment. Any views or opinions expressed by the author of this email do not necessarily reflect the views of the University of Nottingham.

This message has been checked for viruses but the contents of an attachment may still contain software viruses which could damage your computer system, you are advised to perform your own checks. Email communications with the University of Nottingham may be monitored as permitted by UK legislation.

bill.wickstead@nottingham.ac.uk

UOulu Finland MolecularTaxonomy

The University of Oulu is an international scientific community, with 16 000 students and approximately 3 000 employees. The strengths of the University are wide

multidisciplinary study/research interests and modern research and study environment and good cooperation with international educational and research institutes. More information http://www.oulu.fi/english/ . The following job is open in the University of Oulu:

Postdoctoral Researcher in Molecular Taxonomy

A full-time post-doctoral position is open in the field of Molecular Systematics in a research group led by Ph.D. Marko Mutanen in the Biodiversity Unit of the University of Oulu, Finland.

This project applies state-of-the-art high-throughput sequencing technology (next-generation sequencing) and genome-wide analyses to seek answers to poorly understood but repeatedly reported phenomena in mitochondrial DNA, particularly the DNA barcode region (COI). The research will focus on examining e.g. evolutionary causes of DNA barcode sharing between species, deep intraspecific splits in mtDNA and species-level para- and polyphyly in mtDNA gene trees using Lepidoptera (butterflies and moths) as a model group. Moreover, the project also concentrates on a large-scale and difficult taxonomic challenge of delimitation of allopatric populations. The results are anticipated to provide new insights into problems related to species delimitation, DNA taxonomy and other fundamental questions of taxonomy. The project will be conducted in collaboration with a broad international team of leading experts of Lepidoptera systematics.

A successful applicant must have a Ph.D. degree and should have previous research experience in the field of molecular taxonomy and/or phylogenetics. Expertize and practical skills in DNA barcoding, genetics, genomic data analyses, next-generation sequencing techniques and bioinformatics are highly appreciated, though a successful applicant does not need to be an expert in all these fields. An applicant should be highly motivated, ready to commit themselves to the project, and have good skills in English language.

The position will be filled November 1, 2014, but negotiable (however, latest January 1, 2015). Duration of the position is three years with an option to additional 10 months. The salary will consist of basic work demand level (5 - 6) and personal performance level (up to 46.3 % supplement to the basic level). In practice, the salary will be about 3,200 â¬*permonth*(*equalstoabout*4, 276*USDollars*, 4, 659*CanadianDollarsand*2, 562*BritishPoundsasbasedoncurrenciesin*15*August*

Application, including attachments (brief letter of motivation, CV and publication list required, contact details of two references recommended), should be submitted using the electronic application form by 6.10.2014 at the following address:

in Finnish: http://www.saimanet.com/-certiahome/open_jobs_view_new.html?did=-5600&lang=fi&jc=1&new_ijob_request=true in English: http://www.saimanet.com/certiahome/-open_jobs_view_new.html?did=5600&lang=en&jc=-1&new_ijob_request=true For further details, please contact: Project leader Marko Mutanen (e-mail: marko.mutanen(at)oulu.fi, telephone: +358 294 481256)

Head of Administration Tiina Pääkkönen (e-mail: tiina.paakkonen(at)oulu.fi, telephone +358 294 481051)

Marko Mutanen <Marko.Mutanen@oulu.fi>

UppsalaU Beetle ACPs

Uppsala University hereby declares the following position to be open for application:

Postdoctoral Researcher in Evolutionary Biology (*UFV-PA 2014/2602)*

at the Animal Ecology Program, the Department of Ecology and Genetics, Evolutionary Biology Centre (EBC) with starting date being November 1st, 2014, or as soon as possible after this date. The Evolutionary Biology Center hosts one of the world's largest aggregations of evolutionary biologists, and is a prime research environment for a wide range of fields in evolutionary biology (see "http://www.ebc.uu.se/" for more information). The working atmosphere is very international with English as our operational language. Uppsala University is the oldest university in Scandinavia and the city of Uppsala is a vibrant student town with beautiful surroundings conveniently situated 40 minutes with train from Stockholm.

*Brief research outline: **The research will aim at improving our understanding of the evolution of **male accessory reproductive gland proteins (acps)**. Male acps act as hormones and have profound effects on female physiology and behaviour. These proteins are some of the most rapidly evolving proteins known to science and the genes encoding acps are candidate "speciation" genes in several groups of insects. In this project, seed beetles will serve as a new model system for acps and the research will profit both from ongoing proteomic work and from extant drafts of the transcriptome and the genome of the main model species. The goal is to improve our understanding of the genetic and environmental sources of variation in seminal fluid pro-

tein production and to characterize selection upon the loci encoding these proteins.***

*This post*doctoral position forms a part of an ongoing project on genetic conflict, funded by the European Research Council and the Swedish Research Council. The entire project currently employs some 5-6 postdocs and 3 PhD students, apart from a full time TA and the PI, and we strongly encourage interactions and collaborations within the group.

Salary and appointment: Period of appointment is two years. Uppsala University adopts an individual salary policy but the starting salary for postdoctoral researchers is typically about 30.000 SEK per month and includes full social benefits.

*Eligibility:*The successful candidate must have a Ph.D, or an exam which is judged comparable to a PhD, that was completed within three years of the application deadline. Applicants that received their PhD earlier than this date will be considered if special circumstances exist (such as prolonged periods of illness, parental leave, military service, union duties and others of similar character).

Qualifications and merits: We seek candidates with a documented expertise in comparative or experimental proteomics, preferably using reproductive proteins. Familiarity and experience with a variety of proteomic techniques is required as is a firm background in evolutionary biology. Experience of laboratory work with insects will also be considered a merit. Because the holder of this position will collaborate and interact closely with other members of our interactive group, we will put emphasis on both independence and ability to collaborate.

*To apply:*Candidates should submit a cover letter, a curriculum vitae including a list of publications and a short (1-3 pages) description of past research accomplishments and future research ambitions. Applicants should also include names and e-mail addresses of two referees and should specify the date they will be available to start the position.

*For further information*about the position, please contact the PI of the group: Professor Göran Arnqvist (phone +46 18 471 2645, e-mail "Goran.Arnqvist@ebc.uu.se"). The trade union representatives are Anders Grundström, Saco (the Swedish Confederation of Professional Associations), phone +46 18 471 5380, Carin Söderhäll, TCO/ST (the Swedish Confederation of Professional Employees), phone +46 18 471 1996, and Stefan Djurström, Seko (the Union of Service and Communication Employees), phone +46 18 471 3315.

*You are welcome*to submit your application on-line no later than *Sept 30**,**2014 (UFV-PA 2014/2602)*. Use either of the links below for access to the on-line application portal:

http://www.uu.se/en/join-us/jobs-detail-page/-?positionId=42830 http://www2.personalavd.uu.se/-jobb/appform.php?lang=en&case=UFV-PA%202014/2602 Goran.Arnqvist@ebc.uu.se

USDA WestVirginia FishGenomics

The U.S. Department of Agriculture (USDA), Agricultural Research Service (ARS), North Atlantic Area is seeking highly qualified candidate for a temporary full-time Postdoctoral Research Associate (Research Molecular Biologist/ Geneticist), for the National Center for Cool and Cold Water Aquaculture Research Facility in Leetown, West Virginia. Salary range of $63,091 to $82,019. This position affords the opportunity tobe a team member in the research project entitled $B!H(BIntegrated Research Approaches for Improving Production Efficiency in Salmonids$B!I(B, located within the USDA-ARS National Center for Cool and Cold Water Aquaculture (NCCCWA), Leetown, WV, and will conduct genome mapping and molecular genetics studies to identify DNA sequence variation in positional candidate genes and regulatory elements affecting bacterial cold water disease (BCWD) resistance in rainbow trout. The specific research assignment will utilize QTL mapping and functional genomics data from previous studies at the NCCCWA and will involve gene discovery through the implementation of next generation DNA and RNA sequencing technologies combined with Genome-Wide-Association-Studies (GWAS). The successful candidate will participate as a multi-disciplinary team member in the selection and development of appropriate methodologies and experimental procedures. Qualification Requirements: A Ph.D. in molecular biology, physiology, genetics, life science or a related field is required. Knowledge and experience in DNA sequencing, gene cloning, PCR, and gene expression is desirable as well as professional knowledge in Fish Biology, Fish Genetics, Molecular Biology, Genomics, Immunology and/or Aquaculture. Experience with aquaculture or animal production would be an asset. Strong computer programming and analytical skills are valuable. You must meet all requirements for the position including completion of the Ph.D. prior to entrance on duty. Citizenship Restrictions Apply.

Please send resume/CV to: Dr. Yniv Palti. I can be reached by email or phone at yniv.palti@ars.usda.gov, 1-304-724-8340 ext. 2134. This position is open until filled.

USDA/ARS is an equal opportunity employer and provider.

Yaniv Palti <ypalti@yahoo.com>

UUtah DetoxificationEnzymeEvolution

Postdoctoral Fellowship

Molecular Evolution

Evolution of detoxification enzymes: The Dearing lab at the University of Utah invites applications for a postdoctoral fellow to participate in a study on the evolution of detoxification enzymes in mammalian herbivores. This collaborative project will investigate the detoxification enzymes in the cytochrome P450 subfamily 2B (CYP2B) and their role in the biotransformation of plant secondary compounds, particularly terpenes. Changes in the amino acid sequence, structure and copy number of CYP2B enzymes may be key to an herbivore$B!G(Bs ability specialize on a terpene-rich diet. Future work consists of sequencing, characterizing and comparing the amino acid sequences of CYP2B enzymes of specialist and generalist woodrats (*Neotoma spp.*) and possibly other mammalian terpene feeders. We are currently sequencing the genome of *Neotoma lepida* with assembly expected Fall 2014. Characterization of protein function will be achieved using heterologous expression systems in collaboration with Dr. James Halpert, UConn, and there are opportunities for interactions with his research group.

For more information on previous related research, see:

http://biologylabs.utah.edu/dearing/-Lab/pdf/2012_journal_pone.pdf http:/-/biologylabs.utah.edu/dearing/Lab/pdf/-2009_expression_biotrans_magnanou.pdf The ideal candidate should have a background in addressing questions of molecular evolution, molecular ecology or plant-animal interactions. Experience accessing and evaluating genomic data, using molecular techniques are desirable. The candidate should have at least one first authored publication in press. The Dearing lab provides a strong training and career development environment for candidates interested in academic positions. Teaching experience (Mammalogy) is a possibility for interested candidates, and animal collection fieldwork is possible.

*Applications will be reviewed through Sept 26, 2014. *Expected start date is October 31st. Funding is anticipated for 2 years. Please send a C.V., statement of research interests that includes career goals (1-2 pgs), pdfs of papers, and contact information (emails and phone numbers) for at least 3 professional references to Dr. Denise Dearing, care of Jael Malenke, malenke@biology.utah.edu; please put $B!H(BPostdoctoral Applicant CYP2B$B!I(B in the Subject Line.

Jael Malenke, Ph. D. Dept. of Biology University of Utah 257 S. 1400 E. Salt Lake City, UT 84112

malenke@biology.utah.edu jaelmalenke@gmail.com

Jael Malenke <jaelmalenke@gmail.com>

UWisconsin Madison YeastEvolutionaryGenomics

Dear Colleagues,

I am seeking a highly motivated postdoctoral researcher with an exceptional background in bioinformatics, functional genomics, or evolutionary genomics. Experience analyzing Illumina sequence data, computer programming proficiency, and training in ecological or evolutionary genetics are highly desirable.

We recently received generous funding for yeast evolutionary genomics research from the National Science Foundations Dimensions of Biodiversity Program (http://www.nsf.gov/news/news_summ.jsp?cntn_id=-132506) and the Pew Charitable Trusts (http:/-/www.pewtrusts.org/en/about/news-room/press-releases/2014/06/24/pew-grants-22-young-scientists-support-for-biomedical-research).

With Antonis Rokas (Vanderbilt) and Cletus P. Kurtzman (USDA), the Y1000+ Project (http://-www.nsf.gov/awardsearch/showAward?AWD_ID=-1442148&HistoricalAwards=false) seeks to sequence and analyze the to complete genomes of all ~1,000 known species of Saccharomycotina yeasts and determine the genetic basis of their metabolic, ecological, and functional diversification. Yeasts are genetically more diverse than vertebrates and have remarkable

metabolic dexterity, but most remain minimally characterized. They compete vigorously for nutrients in every continent and biome and can produce everything from beer to oil. The history of yeasts is recorded in their genome sequences. Now is the time to read it and tell their story!

The Hittinger Lab has diverse funding for other basic and applied research from NSF, DOE, and USDA, but we are specifically expanding our basic research in ecological and evolutionary genomics.

The complete advertisement and application instructions can be found here: http://-hittinger.genetics.wisc.edu/Research/Funding/-PostDocAd2014.html . The precise start date is flexible, but candidates should apply by November 30th to receive full consideration.

Sincerely,

Chris Todd Hittinger, Assistant Professor of Genetics Genome Center of Wisconsin J. F. Crow Institute for the Study of Evolution University of Wisconsin-Madison 425-G Henry Mall, 2434 Genetics/Biotechnology Center Madison, WI 53706-1580 cthittinger@wisc.edu, (608) 890-2586 http://hittinger.genetics.wisc.edu Chris Hittinger <cthittinger@wisc.edu>

UZurich EvolEcolGenomMaternalEffects

Postdoc position in Evolutionary Ecology & Genomics of Maternal Effects University of Zurich, Switzerland

My group combines complementary approaches from behavioural and evolutionary ecology, ecophysiology and genomics to understand the evolution and evolutionary consequences of prenatal maternal effects in different bird system. Within this project, I have a postdoc position available to investigate the genetic basis of prenatal maternal investment using established Japanese quail selection lines for high and low maternal egg investment.

Goal of the project is to identify genomic regions associated with differential maternal investment, and to link DNA sequence and gene expression variation with the physiological and ecological phenotype of mothers from high and low investment lines to obtain an integrative understanding of the molecular and physiological architecture underlying variation in maternal reproductive strategies. Side projects based on the selection lines are possible and encouraged.

The ideal candidate for this project has a background in evolutionary biology, behavioural ecology and / or genetics, and previous experience with genomics and bioinformatics (or a very strong interest to learn). The postdoc will be based at the Institute of Evolutionary Biology and Environmental Studies of the University of Zurich, providing ample opportunities for collaborations and interactions with researchers working in related and complementary fields (http:/-/www.ieu.uzh.ch). The institute is very international and the working language is English.

The position is funded by the Swiss National Science Foundation for the duration of two years (gross salary CHF 94'000 per annum). The ideal starting date is early 2015.

Applications should include 1) a cover letter outlining your motivation to work on this project as well as relevant experience, 2) a detailed curriculum vitae, and 3) the contact details of three academic referees. Send the above as a single .pdf file to barbara.tschirren@ieu.uzh.ch

Review of applications will start on November 1st 2014, but candidates will be considered until the position is filled.

For more information, feel free to contact me!

Prof. Dr. Barbara Tschirren Institute of Evolutionary Biology and Environmental Studies University of Zurich Winterthurerstrasse 190 8057 Zurich Switzerland

Email: barbara.tschirren@ieu.uzh.ch http://-www.ieu.uzh.ch/staff/professors/tschirren.html barbara.tschirren@ieu.uzh.ch

WorkshopsCourses

Barcelona Cladistics Jun29-Jul3

Dear colleagues,

Registration is open for the workshop "QUANTITATIVE CLADISTICS AND USE OF TNT", June 29 - July 3, 2015. Instructors: Dr. Goloboff and Dr. Szumik (Conicet, Argentine).

PLACE: Facilities of the Centre de Restauració i Interpretació Paleontologica, Els Hostalets de Pierola, Barcelona (Spain).

WEBPAGE: http://www.transmittingscience.org/-courses/phylo/cladistics/ The workshop will cover the basics of parsimony analysis and character optimization, tree-searches, diagnosing and summarizing results efficiently, and measuring group supports. It will have extensive hands-on exercises which will help participants get familiar with the main aspects of phylogenetic analysis using TNT. The workshop will make extensive use of TNT. There will also be a demonstration and some practice with GB->TNT, a program to create TNT matrices from GenBank data.

This course is co-organized by Transmitting Science, the Institut Catalá de Paleontologia M. Crusafont and the Centre de Restauració i Interpretació Paleontologica. Places are limited and will be covered by strict registration order.

Please feel free to distribute this information between your colleagues if you consider it appropriate.

With best regards

Soledad De Esteban-Trivigno, Ph.D. courses@transmittingscience.org Transmitting Science < http://www.transmittingscience.org/ >

Soledad De Esteban Trivigno <soledad.esteban@transmittingscience.org>

Barcelona HistoricalBiogeography Jun15-19

Dear colleague,

Registration is open for the course "HISTORICAL BIOGEOGRAPHY: FUNDAMENTALS AND APPLICATIONS", June 15-19, 2015.

INSTRUCTORS: Dr. Lone Aagesen (IBODA, CONICET, Argentina) and Dr. Claudia A. Szumik (Miguel Lillo Foundation, CONICET, Argentina).

PLACE: Facilities of the Centre of Restauració i Interpretació Paleontologica, Els Hostalets de Pierola, Barcelona (Spain).

WEBPAGE: http://www.transmittingscience.org/-courses/biog/historic-biogeography/ This course provides basic knowledge on selected theoretical and methodological problems of historical biogeography. We aim to provide the practical skills to enable the students to carry out empirical biographical analyses. A considerable part of the course is therefore allocated to practical problems as well as to the use of computer programs specifically developed for biogeography analyses.

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

Please feel free to distribute this information between your colleagues if you consider it appropriate.

With best regards

Soledad De Esteban Trivigno Transmitting Science www.transmittingscience.org
soledad.esteban@transmittingscience.org

Barcelona Morphometrics Apr7-10

Dear Colleagues,

There is a new edition of the course "Integration and modularity with geometric morphometrics - 4th edition"; April 7-10, 2015. INSTRUCTOR: Prof. Chris Klingenberg (University of Manchester, UK).

The aim of the workshop is to provide participants with an overview of morphometric approaches to studying morphological integration and modularity. The concepts of integration and modularity will be introduced and discussed in different contexts (e.g. development, individual variation, evolutionary change). The theoretical basis and application of different methods for analyzing integration and modularity in geometric morphometric data will be presented. Lectures will be combined with hands-on demonstrations of the analyses. Participants are encouraged to bring their own morphometric data for analysis and discussion in the workshop.

More information: http://-www.transmittingscience.org/courses/-gm/modularity-and-gm/ or wrtiting to courses@transmittingscience.org

These courses will be held in the Sabadell facilities of the Institut Català de Paleontologia (Barcelona, Spain) and are co-organized by Transmitting Science and the Institut Catalá de Paleontologia M. Crusafont. Place are limited and will be covered by strict registration order.

Please feel free to distribute this information between your colleagues if you consider it appropriate.

With best regards

Soledad De Esteban-Trivigno, PhD

soledad.esteban@transmittingscience.org

Belize PlantIdentification Jan

Royal Botanic Garden Edinburgh is offering a field based plant survey and identification course in Belize, Central America entitled $B!H(BFieldwork skills in the tropics: vegetation surveys, monitoring, and plant identification.$B!I(B The course is part of the Advanced Short Training Courses by NERC, and 10 fully funded places are available. The course is aimed for PhD students and early career scientists. Priority will be given to UK based applicants, but all applicants with strong interest are encouraged to apply. DEADLINE for applications is 10th OCTOBER 2015. For more details on how to apply, see course website: http://www.rbge.org.uk/education/professional-courses/rbge-fieldwork-skills-in-the-tropics, or contact Tiina Sarkinen t.sarkinen@rbge.ac.uk and David Harris d.harris@rbge.org.uk

Dr Tiina Sarkinen Biodiversity Scientist Royal Botanic Garden Edinburgh

Tiina Sarkinen <tiinasarkinen@yahoo.com>

Merida Mexico EvolutionInfectiousDiseases Nov17-21 reminder

CEBA 2nd Thematic school : 'Advanced methods and applications in Ecology, Evolution and Control of Infectious Diseases (CEBA-EECID), with a focus on Neotropical infections', 17 - 21 November 2014, Autonomous University of Yucatan, Merida, Mexico

As part of its training programme, the LabEx CEBA organizes its second Thematic school on the field of ecology, evolution and control of infectious diseases (EECID). During one week, a dozen lectures and researchers will interact with up to 18 PhD students and postdoctoral fellows, originating from all around the world, on major recent advances in disease control and optimization of public health strategies in the fight against infections.

CV and letters of motivation should be sent as two pdf files before September 7th, 2014 tojean-francois.guegan@ird.fr with the header 'Application CEBA EECID'. On September 7th, 2014 registration will be closed.

For more details, please check the Summer school website:http://www.labex-ceba.fr/en/thematic-school-2014/ Best regards,

Benjamin Roche

International Research Unit UMMISCO Center for Mathematical and Computational Modeling of Complex Systems Research Institute for Development (IRD) 32, avenue Henri Varagnat 93143 Bondy Cedex, France

Phone:+33629585460 e-mail:roche.ben@gmail.com web: http://roche.ben.googlepages.com Benjamin Roche <roche.ben@gmail.com>

Paris ExperimentalEvolution Nov17-22

Experimental Evolution: Theory and Current Practices Second announcement

The International Graduate Program in Life Sciences and the Interdisciplinary Master in Life Sciences (IMaLis) are now accepting applications for their course "Experimental evolution: theory and current practices", to be held at the Institute of Biology of the École Normale Supérieure (IBENS), in Paris, November 17-22, 2014.

The course will introduce Master and PhD students in Biology to the experimental approaches employed to test evolutionary theory. It will bring together world-renowned researchers to lecture on topics ranging from the historical development of experimental evolution to the evolution of sexuality and the genetic basis of adaptation. Lectures will be complemented with computer projects on the analysis of population genomics data. The course will be restricted to a maximum of 15 students. Food and accommodation costs will be fully covered and there is no registration fee. Some travel grants will also be available. Upon successful completion of the course, European students will be awarded 6 ECTS credits.

Faculty: Ivo Chelo (Instituto Gulbenkian de Ciência, Lisbon Portugal) ; Antony Dean (University of Minnesota, Minneapolis U.S.A.); Marie-Anne Félix (IBENS) ; Regis Ferrière (IBENS) ; Thiago Guzella (IBENS) ; Patrick Philips (University of Oregon, Eugene U.S.A.) ; Paul Rainey (Institute for Advanced Study, New Zealand) ; Christian Schlötterer (Institut für Populationsgenetik, Vienna Austria) ; Olivier Tenaillon (Université Paris 7, France); Henrique Teotónio (IBENS); Arjan de Visser (Wageningen UR, The Netherlands).

Sponsoring and partner graduate programs: Centre National de la Recherche Scientifique, Institut de Biologie de lÉcole Normale Supérieure, Paris Sciences et Lettres, Partner University Fund – French American Cultural Exchange, Vienna Graduate School of Population Genetics.

We will receive applications until October 3, 2014. Applicants should send a letter of motivation and a CV to: teotonio@biologie.ens.fr.

Further information can be found at http://www.gradprog.biologie.ens.fr/ teotonio <teotonio@biologie.ens.fr>

SanDiego PAG2015 PopulationGenomics Jan10-15

Population and Conservation Genomics Workshop Plant and Animal Genome XXIII International Conference http://www.intlpag.org/ January 10-14, 2015 Town and Country Convention Centre, San Diego, California

The annual Population and Conservation Genomics workshop will be held at the Plant and Animal Genome XXIII International conference. The workshop is scheduled on Saturday, January 10, 2015. You are invited to attend this Workshop and submit abstracts for oral presentations on any population and conservation genomics aspect of both plants and animals. The topics may include: population genomic diversity and structure; molecular evolution; adaptive molecular genetic variation; natural selection and local adaptation; candidate-gene and genome-wide population studies; application of genomics in conservation and management of genetic resources; genomic effects of domestication, management practices, fragmentation, bottlenecks, climate and environment change, and transgenic deployment; and gene conservation; etc.

The workshop has a slot for six invited speakers. A number of invited presentations will be selected from the submitted abstracts. Please send your abstract of no more than 250 words by e-mail to Om Rajora (Om.Rajora@unb.ca) as an attached Word file no later than October 17, 2014. You will be notified by October 24th whether your abstract has been selected for an oral presentation. Thereafter, the selected presenters will need to submit their abstract to the PAG website. Authors whose abstracts are not selected for oral presentations are highly encouraged to present a poster at the conference.

Inquiries and Abstract Submission

For information and questions regarding the Population and Conservation Genomics workshop, please contact Om Rajora at the following coordinates.

Dr. Om P. Rajora, Faculty of Forestry and Environmental Management, University of New Brunswick, Fredericton, NB E3B 5A3, Canada. E-mail: Om.Rajora@unb.ca Tel: (506) 458-7477 Fax: (506) 453-3538

Om Rajora <om.rajora@unb.ca>

Santiago Chile Biodiversity Oct27

Workshop on Biodiversidad de Cuencas Andinas: limnolog?a, paeloecolog?a y sistem?tica. 27, October 2014.

Dear colleagues,

We are pleased to announce workshop Biodiversidad de Cuencas Andinas: limnolog?a, paeloecolog?a y sistem?tica, which will be held at Auditorio Maria Ghilardi, Facultad de Ciencias, Universidad de Chile, Santiago, Chile. The workshop will summarize the advances of recently studies in Andean Basins and will be oriented to postgraduate students and other researchers that work in the Altiplano of Chile, Argentina, Peru and Bolivia.

Speakers: Gonzalo Collado (Universidad del Bio Bio; Chile) Sebastian Barrionuevo (Museo de Historia Natural de Buenos Aires, Argentina) Bernard Hugueny (UMR BOREA, Mus?um National d'Histoire Naturelle, Paris, France) Claudio Latorre (P. Universidad Cat?lica, Chile) Pamela Morales (Universidad de Chile, Chile) Mabel Maldonado (Universidad Mayor de San Sim?n, Bolivia) Paola Saez (Universidad de Chile, Chile)

Organizers: Prof. Irma Vila (Universidad de Chile, Chile). Dr. Marco A. Mendez (Universidad de Chile, Chile).

For more information about the workshop, program and registration please visit:

http://www.congresolimnologia.cl or contact us at evobiolchile@gmail.com

Dr. Marco A. Méndez T. Laboratorio de Genética y Evolución Departamento de Ciencias Ecológicas Facultad de Ciencias, Universidad de Chile Las Palmeras 3425, Casilla 653 CP 780-0003, Ñuñoa, Santiago, Chile Phone: 56-2-9787399 www.gevol.cl www.researcherid.com/rid/B-1912-2014 Marco Antonio Mendez <mmendez@u.uchile.cl>

Santiago Chile BiologicalAdaptation Nov14-22

Workshop on Evolutionary Biology: Biological Adaptation: Theoretical and Practical approaches. 14-22, November 2014.

Dear colleagues,

We are pleased to announce workshop Biological Adaptation: Theoretical and Practical approaches, which will be held at Laboratorio Costero Calfuco (U. Austral, Chile, http://www.icml.uach.cl/estaciones/-calfuco.php). The workshop will focus on theoretical as well as practical aspects to understand and study biological adaptation. Some of the topics that will be covered during the workshop include experimental evolution and conceptual/theoretical aspects of adaptive evolution (including local adaptation), adaptation in the omics era, phenotypic plasticity in adaptive evolution and evolutionary adaptation during biological invasions. The workshop will involve lectures, discussion groups, research talks, lab work and students presentations.

Target audience: Advanced Master students, PhD students and Postdoctoral research fellows, who are currently undertaking evolutionary research related to biological adaptation.

Prerequisites: Background knowledge in Evolutionary Biology is expected

Speakers: Jacob Hoglund (Uppsala University of Uppsala, Sweden) Jos? G?mez (Estaci?n Experimental de Zonas Aridas?CSIC, Spain) Tadeusz Kawecki (University of Lausanne, Switzerland) Marco A. Lardies (Universidad Adolfo Iba?ez, Chile) Roberto Nespolo (Universidad Austral, Chile)

Organizers: Dr Leonardo Bacigalupe (Universidad Austral, Chile) Dr Marco A. Mendez (Universidad de Chile, Chile).

Registration fee: CLP$120.000 (covers food + lodging + transport to Calfuco + excursion + workshop dinner. The workshop will include a one-day naturalist excursion to Reserva Costera Valdiviana.

Registration: Send a single file (pdf format) containing

a short motivation letter, a cv and the name of your scientific advisor in the case of Master and PhD students.

Deadline for application: October 17, 2014.

For more information about the workshop, program and registration please visit:

http://www.socevol.cl or contact us at evobiolchile@gmail.com

Dr. Marco A. Méndez T. Laboratorio de Genética y Evolución Departamento de Ciencias Ecológicas Facultad de Ciencias, Universidad de Chile Las Palmeras 3425, Casilla 653 CP 780-0003, Ñuñoa, Santiago, Chile Phone: 56-2-9787399 www.gevol.cl www.researcherid.com/rid/B-1912-2014 Marco Antonio Mendez <mmendez@u.uchile.cl>

WashDC NatlMuseum FrontiersPhylogenetics Sep15 video

The Frontiers in Phylogenetics 4th Annual Symposium will remain available to watch on Ustream-SI in unedited form in three parts.

Part 1) Opening (Mike Braun, John Kress, Guillermo Orti), Lacey Knowles, Kevin Kocot, Ingo Ebersberger... Part 2) Ingo Ebersberger continued, Derick Zwickl, Dave Swofford... Part 3) Dave Swofford continued, Luay Nakleh, Bastien Boussau, Round table discussion.

http://www.ustream.tv/channel/Smithsonian-On-UStream-TV Part 1 http://www.ustream.tv/-recorded/52713111 Part 2 http://www.ustream.tv/-recorded/52716590 Part 3 http://www.ustream.tv/-recorded/52720049 An edited version of the event will be available as a podcast on iTunes at a later date, to be announced.

Regards,

The Frontiers in Phylogenetics Program and the Washington Area Phylogenetics Consortium

INTRODUCTIONS? Michael Braun, National Museum of Natural History John Kress, Interim Undersecretary for Science, Smithsonian Institution Guillermo Orti, George Washington University

SPEAKERS? Lacey Knowles, Department of Ecology and Evolutionary Biology and Museum of Zoology, University of Michigan, Ann Arbor, MI Phylogenomics and Next-Generation Inferences: the Future of Phylogenetics in an Era of Big Data

Kevin Kocot, School of Biological Sciences, University of Queensland, Brisbane, Australia Deep Metazoan Phylogeny and the Utility of Taxon-Specific Ortholog Sets

Ingo Ebersberger, Department for Applied Bioinformatics, Goethe University, Frankfurt, Germany A Phylogenomic View on the Early History of Gnasthostome Evolution: Is One Tree Enough?

Derrick Zwickl, Department of Ecology and Evolutionary Biology, University of Arizona, Tucson, Arizona, USA Distinguishing Methodological and Biological Causes of Gene Tree Discordance in Phylogenomic Datasets

David Swofford, Department of Biology, Duke University, and National Evolutionary Synthesis Center, Durham, NC, USA Filtering and Partitioning Strategies for Phylogenomic Analyses

Luay Nakhleh, Department of Computer Science, Rice University, Houston, Texas, USA Genome-scale Phylogenetics in the Presence of Hybridization and Incomplete Lineage Sorting

Bastien Boussau, Laboratory of Biometry and Evolutionary Biology, University Claude Bernard, Lyon, France Joint Inference of Gene Trees and Species Trees at the Genomic Scale

Sponsored by Smithsonian Institution National Museum of Natural History, Office of the Undersecretary of Science, and Laboratories of Analytical Biology and the Washington Area Phylogenetics Consortium

CoyleB@si.edu

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.