
E v o l D i r

September 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

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AsilomarUSA InvasionGenetics Aug13-15 Deadlines

Deadline approaching for REGISTRATION and POSTER submission: 10 August, 2014

Invasion Genetics: The Baker and Stebbins Legacy A symposium at Asilomar, CA (USA)

Join us for this special event honoring the 50th anniversary of the symposium and proceedings *Genetics of Colonizing Species* (with associated special issue of *Molecular Ecology* and edited volume).

DATES: August 13-15, 2014 LOCATION: Asilomar Conference Grounds (<http://www.visitasilomar.com/>) REGISTRATION: Details at <http://invasion-genetics.eventbrite.com> POSTERS: Contributed posters by participants are welcomed! Manuscripts associated with poster presentations may be submitted to *Molecular Ecology* for review and will be given full consideration for inclusion in the Special Issue associated with the symposium. (Note: Target deadline for submission is 1 Sep 2014, to permit anniversary publication in 2015).

SPEAKERS/AUTHORS & SCHEDULE: We have confirmed a broad range of contributors to reflect both the legacy of work on the genetics of colonizing species, and new contributions and perspectives:

WEDS PM, Aug 13: Evening poster session

THURS AM, Aug 14: Spencer Barrett Lee Ann Rollins & Rick Shine Neil Tsutsui Pierre Gladieux & Tatiana Giraud Mark van Kleunen Jennifer Lau

THURS PM, Aug 14: Tim Blackburn Russ Lande Rob Colautti Mark Blows Troy Day John Pannell Mark Kirkpatrick Evening poster session

FRI AM, Aug 15: Melania Cristescu Katrina Dlugosch Stephan Peischl & Laurent Excoffier Johanna Schmitt Kay Hodgins Loren Rieseberg

ORGANIZERS: Spencer Barrett Rob Colautti Katrina Dlugosch Loren Rieseberg

katrina.dlugosch@gmail.com

Edinburgh PlantEvolution Sep8-9 DeadlineCORRECTED

Apologies - the announcement of the extended deadline contained a typo - the new (and final) deadline for abstract submission and registration is Friday, 15 Aug, 2014.

The deadline for registration and abstract submission for the conference, UK Plant Evolution, 2014, has been slightly extended.

The new (and final) deadline for abstract submission and registration is Friday, * 15 *, August, 2014. The conference, itself, occurs on 8-9 September, 2014, at the Royal Botanic Gardens, Edinburgh.

We currently have approximately 70 delegates. Presentations during both "open sessions" and by invited speakers will highlight the exciting research that spans the major themes of UK plant evolution research (see titles for talks by invited speakers, below).

This represents a great opportunity to form new collaborations within the UK (and with delegates from outside the UK); a minor portion of the conference involves a workshop that aims to discuss what may be done to build the UK community of plant evolutionists.

For more information, including links to register and submit abstracts, please see the website at:

<http://symposium.bio.ed.ac.uk/-ukplantevolution2014/>

Mating system: Dr. Mario Vallejo-Marin: “Invasive monkeyflowers as a model to study rapid evolution and speciation” Speciation: Dr. Richard Buggs: “Inferences from incongruences” Ecological Speciation: Dr. Patrik Nosil: “Genomic architecture and the dynamics of speciation” Evo-Devo: Dr. Beverley Glover: “Evolution and development of specialised petal epidermal morphologies” Phylogeny: Dr. Toby Pennington: “Species-level phylogenetics of tropical plants: illuminating the evolutionary process” Polyploidy: Dr. Barbara Mable: “Investigating the impacts of gene and whole genome duplication in the modern sequencing era” Biogeography: Dr. Bill Baker: “Tropical rain forest evolution: palms as a model group” Population Genetics (Molecular ecology): Dr. Simon Hiscock: “Mating system variation associated with polyploidy drives genetic divergence and ongoing speciation in *Sorbus* (Rosaceae)” Population Genetics (Genomics): Dr. Rob Ness: “Variation in spontaneous mutation within a species and across the genome” Population Genetics (Genomics): Dr. Deborah Charlesworth: “Studying the evolution of plant sex chromosomes”

International Speaker: Dr. Spencer Barrett (University of Toronto): “Reproductive evolution at range limits”

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

crispin.jordan@ed.ac.uk

Edinburgh PlantEvolution Sep8-9 DeadlineExtended

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The new (and final) deadline for abstract submission and registration is Wednesday, 10, August, 2014. The conference, itself, occurs on 8-9 September, 2014, at the

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crispin.jordan@ed.ac.uk

Irvine Symbiosis Oct15-17

Symbioses becoming permanent: The origins and evolutionary trajectories of organelles

An Arthur M. Sackler Colloquium on symbiosis will take place 15-17 October 2014 at the Beckman Center in Irvine, California. The meeting is co-sponsored by the National Academy of Sciences USA and the Canadian Institute for Advanced Research.

There are still a few travel awards available for students and post-docs. More information can be found at this website:

http://www.nasonline.org/programs/-sackler-colloquia/upcoming-colloquia/-Symbioses_becoming_permanent.html The agenda is as follows:

October 15, 2014 5:30 pm Welcome reception 7:00 pm Distinctive Voices Public Lecture presented by Michael Gray, CIFAR Advisor, Dalhousie University

October 16, 2014 7:00 am Buses from hotel to Beckman Center 7:15 am Registration and breakfast 8:00 am Session 1: Genomes (evolutionary rates, oddities, and reduction) Introduction and welcome remarks - W. Ford Doolittle, CIFAR Advisor & Patrick Keeling, CIFAR Program Director and Senior Fellow John McCutcheon, CIFAR Associate Fellow, University of Montana John Archibald, CIFAR Senior Fellow, Dalhousie University, Nuclear organelles Andrew Roger, CIFAR Senior Fellow, Dalhousie University, Organelle reduction Siv Andersson, Uppsala University, Alphaproteobacterial genome evolution David Smith, University of Western Ontario, Roots of genomic architecture variation

12:00 pm Lunch Daniel Sloan, Colorado State University, Cytonuclear co-evolution under extreme mitochondrial mutation rates John Allen, University College London, Why keep genomes? 3:15 pm Session 2: Integration/Control (trafficking, signaling, transporters) Debash Bhattacharya, Rutgers University, Transporters in organellogenesis Nancy Moran, University of Texas, Austin, Insect endosymbionts Geoff McFadden, University of Melbourne, Diversity of protein trafficking Chris Howe, Cambridge University, Why integrate? 5:35 pm Poster Session / Reception 6:30 pm Buffet dinner 7:45 pm Poster Session continues 8:30 pm Buses return to hotel

October 17, 2014 7:00 am Buses from hotel to Beckman Center 7:15 am Breakfast 8:00 am Session 2 continues Steve Perlman, CIFAR Fellow, University of Victoria, Maternal transmission, sex ratio distortion, and mitochondria William Martin, Düsseldorf University, Endosymbiont and organelle, what's the difference? Moriya Okhuma, Riken University, Metabolic integration across endosymbiotic communities 10:30 am Ses-

sion 3: Theories and Models Eors Szathmary, Loránd University, A fresh look at cooperation in some major transitions, especially the origin of eukaryotes Marc Ereshefsky, University of Calgary, Evolutionary individuality

11:50 pm Lunch

1:30 pm Session 3 cont. Peter Godfrey-Smith, City University of New York, Individuality and the egalitarian transitions Maureen O'Malley, University of Sydney, Philosophical Reflections on Endosymbiosis: Implications for Evolutionary Theory Toby Kiers, University Amsterdam, Bacterial cooperativity

3:15 pm Closing remarks J. McCutcheon 3:30-4 pm Coffee and discussion or buses to airport and hotel

john.mccutcheon@mso.umt.edu

KansasCity EvolutionaryGenomics Oct31-Nov2

Save the dates...

and plan to attend the 12th Annual Ecological Genomics Symposium on October 31-November 2, 2014 at the Marriott Country Club Plaza in Kansas City, MO. The Symposium will begin at 7:00 p.m. on Friday, October 31st and conclude on Sunday November 2nd at noon. Registration will open soon!

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

To learn about the Kansas State University Ecological Genomics Institute, please visit at <http://ecogen.ksu.edu> FEATURED SPEAKERS:

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

Cassandra Extavour, Harvard University, Using *Drosophila* 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, University of Oregon?, 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 *Ara-bidopsis* 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.

Please share this announcement with colleagues and students who are interested in learning more about the field of Ecological Genomics. If you have questions, please contact Michael Herman or Loretta Johnson.

Funding for this symposium is provided by Kansas State University and the American Genetics Association.

Ecological Genomics Institute Directors:

Dr. Loretta Johnson, johnson@ksu.edu

Dr. Michael Herman, mherman@ksu.edu

Kansas State University, Division of Biology

116 Ackert Hall, Manhattan, KS 66506-4901

johnson@ksu.edu

KansasCity Genomics Oct31-Nov2

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 *Ara-bidopsis* populations

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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 jenniferrhoades@ksu.edu by Monday, September 15, 2014.

Complete application (items 1 to 4) should be submitted as a single pdf document to jenniferrhoades@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

NMNH Smithsonian Phylogenetics Sep15

The Washington Area Phylogenetics Consortium is pleased to announce the Fourth annual Frontiers in Phylogenetics Symposium

“Genome-Scale Phylogenetics: Analysing the Data”

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

Location: Warner Brothers Theatre, National Museum of American History, Washington, DC Time and Date: 9 AM to 5 PM, Monday September 15, 2014

REGISTRATION IS FREE BUT REQUIRED. Please visit the link below to register. <http://bit.ly/-FIPSymposium> 8:00 Coffee and Continental Breakfast Service in Constitution Café 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 Gnathostome 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

Any questions or for more information contact Brian Coyle CoyleB@si.edu

“Coyle, Brian J.” <CoyleB@si.edu>

SanDiegoZoo BiobankingBiodiversity Oct13-17 2

Conference: 2nd Annual International Frozen Zoo Cell Culture Seminar: Training Scientists for Biobanking and Biodiversity Research San Diego Zoo Institute for Conservation Research, Escondido, CA U.S.A October 13 - 17, 2014.

The 2nd Annual International Frozen Zoo Cell Culture Seminar will commence on October 13 and conclude on October 17 at the facilities of the San Diego Zoo Institute for Conservation Research, in Escondido, California.

San Diego Zoo's Frozen Zoo is a premier collection of living fibroblast cells from over 1,000 species of mammals, birds, reptiles and amphibians.

Over five days, the course will provide participants with a “hands-on” learning experience with experts specialized in establishing cell lines for the Frozen Zoo. The course will provide the opportunity to gain exposure to and experience with:

Lab safety and aseptic technique review

Taking biopsies and establishing cell cultures using enzyme digestion and solid tissue explant methods

Optimizing fibroblast cell culture for mammalian, avian, reptilian and amphibian species

Field method for viable freezing of skin biopsies in liquid nitrogen

Freezing fibroblast cell cultures

Metaphase chromosome harvesting, staining, banding and karyotyping

This course is designed to help scientists establish biomedical and biotechnical research programs to initiate sampling of the genetic diversity within their countries and starting their own collections similar to the Frozen Zoo.

The registration fee for the 2nd Annual International Frozen Zoo Cell Culture Seminar is \$1,000.00. This includes meals, transportation from local lodging to the San Diego Zoo Institute for Conservation Research, lab supplies, instruction materials, course workbook and protocols. Full and partial scholarships are being offered and are sponsored by the American Genetic Association, Special Project Award.

Due to limited space availability, an application process is required for consideration. If you are interested in attending please send an email with 2014 FZCCS in the subject line to lwied@sandiegozoo.org. Upon receipt, an application will be forwarded along with additional information. All applications are due on Friday, August 15, 2014. Anything submitted after this date will not be considered.

asako yamamoto <xxsakooxx@yahoo.com>

Sheffield PopulationGenetics Jan6-9

Registration for the 48th Population Genetics Group meeting is now open

PGG or PopGroup is a yearly international meeting held in the UK, covering all aspects of evolutionary genetics, and famous for its informal feel combined with high-quality content!

Everything you need to know is at <http://populationgeneticsgroup.org/> – Roger Butlin, Terry Burke, Jon Slate, Kai Zeng, Patrik Nosil and Nicola Nadeau

popgroup2015@sheffield.ac.uk

StonyBrook Sticklebacks Jul26-31

The EIGHTH INTERNATIONAL CONFERENCE ON STICKLEBACK BEHAVIOR AND EVOLUTION will be held July 26 - 31, 2015 at Stony Brook University in Stony Brook, New York, USA.

VENUE, ACTIVITIES, AND COSTS: The talks will be given in the theater of the Charles B. Wang Center, (see campus map at <http://www.stonybrook.edu/sb/-map/newmap.pdf>), and the posters will be displayed during the Conference in the theater lobby. Registration will be about US \$325, and will include attendance of talks, breakfasts (5), morning (5) and afternoon (3)

coffee breaks, and food at the welcoming reception, poster session, closing banquet, and after-dinner socials, plus beverages at some social events.

HOUSING: The daily charge for dormitory housing (3 bedrooms per suite with shared bathroom and lounge) will be about US \$75 for a private room and US \$62 per person for a room for two. Dormitory housing will be in the new Nobel Dormitories, about 15 minutes walk from the Wang Center. Hotel rooms adjacent to the Wang Center will cost US \$140 plus tax per day. The Wang Center and Nobel Dormitories are about a 15 minutes walk from the Stony Brook Station of the Long island Rail Road. Lunches and most dinners will not be included in the registration fees, but reasonably priced meals will be available on or near campus. Dormitory housing will be available for at least two days before and after the Conference to allow participants to visit New York City or destinations on Long Island, including the wine-growing region, the Hamptons, and south shore beaches.

TRANSPORTATION: Stony Brook can easily be reached by air, automobile, or train. International flights come into John F. Kennedy (JFK) and Newark Liberty (EWR) international airports, which connect to Stony Brook by train. LaGuardia (LGA) and Long Island MacArthur (ISP) airports have only domestic flights and lack train service to Stony Brook. The Conference website will provide more details on transportation.

GRADUATE STUDENT SUPPORT: We have received a generous award from the American Genetic Association to support participation by about 20 graduate students in the Conference. Guidelines for application for support will be posted on the Conference website.

CONTACT: Please contact me at my Stony Brook email address if you would like to receive future notices, have colleagues who should receive future notices, or have any questions about the Conference. I expect the Conference website to open in December 2014 .

Regards,

Mike Bell

Michael A. Bell, Professor Department of Ecology and Evolution Stony Brook University Stony Brook, NY 11794-5245, USA Office Phone: 1-631-632-8574 <http://life.bio.sunysb.edu/ee/belllab/> mabell@life.bio.sunysb.edu

GradStudentPositions

AustralianNatIU GeneticDiversity 8	TrentU AvianEvolutionaryPhysiology 19
ClemsonU BacterialGenomics 9	UAdelaide ClimateAdaptationAncientDNA 19
ColoradoStateU GenomeEvolution 9	UBerlin EvolandEcol 20
FloridaIntlU ChromatinEpigeneticsEvolution 10	UDenver EarlyAnimalEvolution 21
GEOMAR Germany EvolutionInvasiveSpecies 11	UGeorgia USA MicrobialSymbiosisGenomics 21
GEOMAR Germany MarineEvolution 12	UGroningen AvianClimateChangeEvolution 22
GrenobleU StatisticalGenetics 13	UGroningen SeaTurtleEvolution 23
LaurentianU EvolutionAmphibianDiseases 13	UMuenster 2 EvolutionaryBiol 23
MaxPlanckInst Seewiesen SexuallySelectedOrnaments 14	UMuenster 2 EvolutionBiol 24
MaxPlanckInst Seewiesen SparrowEvolution 14	UNaples FedericoII EvolutionaryBiology 25
MemorialU MathBiology 15	UNeuchatel AlpinePlantEvolution 25
MonashU PlantGenomics 15	UNewSouthWales LacebugMolEvolution 26
NHM London EvoDevoGenomics 15	UQueensland MicrobialAdaptation 27
NHM UOslo AvianDefenses 2 16	UQueensland SpeciationTheory 27
Portugal 12 Biodiversity 17	USouthampton NHM London SpeciationGenomics 28
SouthAfrica EvolutionaryBiology 17	USunshineCoast Australia SexualSelectionSociality 29
SwanseaU HelicobacterGenomics 18	WageningenU FungalDomestication 29
TempleU PhylogeneticModelsSubstitution 80	

AustralianNatIU GeneticDiversity

AustralianNationalUniversity.GeneticDiversity

ARC Laureate Fellowship PhD scholarship - Genetic Diversity The Fenner School of Environment and Society at the Australian National University is seeking applications from highly qualified and motivated candidates for a PhD scholarship for research on ecological surrogates.

Purpose Professor David Lindenmayer's ARC Laureate Fellowship research program is examining surrogate ecology, particularly when and where it might work to improve environmental management. We are seeking an outstanding candidate to join a team working on biodiversity surrogates. Genetic diversity is an often overlooked aspect of biodiversity. This PhD program will evaluate genetic indicators and their use in biodiversity conservation. Aspects of the project may include assessing the use of genetic indicators for monitoring genetic diversity and assessing the impacts of management interventions and natural disturbance on

genetic diversity and connectivity. This project will be focused on an exciting and novel aspect of biodiversity monitoring and as such provides scope for the student to develop ideas based around the topic of genetic indicators.

The successful applicant will need to be highly motivated and capable of writing high-level scientific articles for leading international journals. Experience in population genetics is highly desirable. The successful candidate will be awarded a post-graduate scholarship stipend as part of an Australian Research Council Laureate Fellowship held by Professor David Lindenmayer. The scholarship will support the PhD program for 3 years, with a possible extension for a further 6 months. The successful candidate will need to commence their project no later than November 2014. The position is supported by an ARC Laureate Fellowship with a stipend of \$29,844 per annum, tax-free for 3 years paid in fortnightly instalments.

Other benefits The Fenner School of Environment and Society has a large, dynamic community of PhD students who are provided with modern office facilities and computer and statistical support. Students are encouraged to collaborate widely and attend national and international conferences. The successful candidate will

become part of the Environmental Decisions Group - a network of some of the world's leading applied environmental scientists that provides travel support for national and international collaboration.

Duration Three years full-time with a possible six month extension.

Supervision The project will be supervised by ARC Laureate Fellow Professor Lindenmayer and a supervisory panel that matches the candidate's skills.

Candidate requirements Bachelors degree with first-class honours, or a research Masters degree from a recognised university. Australian and New Zealand citizens; permanent residents of Australia; international students who hold an International Postgraduate Research Scholarship (IPRS). Selection is based on academic merit and the candidate's research proposal. The successful candidate will have experience in environmental science and management, ecology or similar.

Application process and closing date Interested individuals are invited to discuss the project with Professor David Lindenmayer (02 6125 0654 or david.lindenmayer@anu.edu.au) and must submit a CV and a one page statement of possible research directions they would pursue in their project to david.lindenmayer@anu.edu.au by 5pm 19 September 2014. The successful candidate would be expected to commence their doctoral program no later than November 2014.

jennifer.pierson@anu.edu.au

ClemsonU BacterialGenomics

Vince Richards' lab < <http://www.vprichards-lab.com> > in the Department of Biological Sciences at Clemson University is accepting applications from graduate students to start in the Spring, Summer, and Fall of 2015.

The lab's primary research objective is to utilize comparative genomics, transcriptomics, population genomics, and phylogenomics to better understand how bacterial pathogens evolve, adapt, and respond to different environments and hosts. Two Ph.D positions are available for a USDA project investigating genetic population structure and transmission dynamics of the zoonotic pathogen *Streptococcus agalactiae*. This bacteria is an important pathogen that infects multiple species including humans, livestock, and aquaculture.

Towards a better understanding of the evolution and transmission dynamics of *S. agalactiae* both within and across host species, this project leverages comparative genomic approaches to a global collection of hundreds of *S. agalactiae* strains isolated from a diverse range of host species.

Clemson University is ranked 21st among national public universities by U.S. News & World Report and is located on Lake Hartwell near the Blue Ridge mountains in beautiful Upstate South Carolina. Graduate students accepted into the Biological Sciences or Microbiology graduate programs are either awarded support through the Department of Biological Sciences as Graduate Teaching/Laboratory Assistants (GTAs) or from individual Faculty Advisors' sponsored grand funds as Graduate Research Assistants (GRAs). Graduate Student Assistants (GTA or GRA) receive tuition remission either through the Department or from Sponsored Grant Funds. Graduate students are, however, responsible for paying graduate student fees each semester. Annual salary starts at \$19,000. Students involved in the USDA project will be hired as Graduate Research Assistants for at least one year with an accompanying salary supplement.

Applicants should contact Vince Richards directly at vpricha@clemson.edu. Deadline for Spring admission is September 30th, 2014. Please provide a full CV and cover letter that describes your background, motivation, interests, and your reasons for considering the Richards lab for graduate training. International applicants are encouraged to apply and will be given full consideration (September 15th deadline for Spring). Although not required, a background or interest in LINUX or some form of bioinformatics would be advantageous.

Vincent P Richards, Ph.D. Assistant Professor of Microbial Genomics Department of Biological Sciences Clemson University Clemson, SC 29634 Email: vpricha@clemson.edu Lab website: <http://www.vprichards-lab.com> Vincent Paul Richards <vpricha@clemson.edu>

ColoradoStateU GenomeEvolution

The Sloan Lab in the Department of Biology at Colorado State University is accepting graduate students to start in the Fall of 2015.

Our lab focuses on molecular evolution and genomics,

and we are looking for students who are interested in contributing to a fun and intellectual research environment. Research themes include co-evolution between the nucleus and organelle genomes, sources of evolutionary cooperation and conflict between genomes, and the evolution of mutation rates. Most of our current projects use plant systems to address evolutionary questions in these broad areas. Our research approaches include a combination of field collections in natural populations, genetic crossing experiments, molecular genetic wet lab techniques, genome sequencing, and bioinformatic analysis. Graduate students will have the opportunity to develop their own projects that are connected to some of the broader research themes in the lab.

Colorado State University is located in Fort Collins, CO, about an hour north of Denver and right at the foothills of the Rocky Mountains. Fort Collins is widely regarded as having a great quality of life at a reasonable cost of living. It has excellent opportunities for outdoor recreation, an active music scene, a strong biking culture, and numerous great restaurants and breweries.

Students can apply directly to the Department of Biology or to affiliated interdisciplinary programs, including the Graduate Degree Program in Ecology, the Program in Molecular Plant Molecular Biology, or the Cell and Molecular Biology Program. Successful applicants will receive a tuition waiver, health insurance, and a competitive stipend.

Graduate applications for the Fall of 2015 in the Department of Biology and affiliated interdisciplinary programs are due by January 1 or January 15, 2015 (depending on the specific program). But students interested in joining the lab are strongly encouraged to contact Dan Sloan (dbsloan@rams.colostate.edu) well in advance of the application deadlines to discuss research opportunities and the best target program/department. Prospective students are also encouraged to contact Dr. Sloan to discuss applying to the NSF Graduate Research Fellowship Program (application deadline November 4, 2014).

Additional information at the Sloan Lab website: <https://sites.google.com/site/danielbsloan/> Instructions for applying to the Department of Biology are available at the following site, which also contains links to affiliated interdisciplinary programs: <http://www.biology.colostate.edu/graduates/how-to-apply/> Dan Sloan Department of Biology Colorado State University

dbsloan@rams.colostate.edu

FloridaIntIU 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: chromevo.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 graduate 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) 305 919-4226 (Lab, MSB-320) 305 919-4030 (Fax) jeirinlo@fiu.edu CHROMEVOLE Research Group <http://chromevole.com> <http://facebook.com/chromevole>

jeirinlo@fiu.edu

GEOMAR Germany
Evolution Invasive Species

PhD / PostDoc Position in Invasion Ecology

- open until filled

The GEOMAR Helmholtz-Centre for Ocean Research Kiel offers a position for an early stage researcher (PhD/PostDoc) interested in studying adaptation of non-indigenous species to different salinities.

The position will be within the project "Do Ponto-Caspian species have inherent advantages over Northern European or Great Lakes-St. Lawrence River species in colonizing new areas?" funded by the Alexander von Humboldt Sofja Kovalevskaja Award. The overarching goal of the project is to determine if species evolved in particular regions have inherent advantages over other species in colonizing new areas, and are those species capable to adapt to and invade habitats with different salinities than their populations are coming from.

The successful candidate will conduct molecular genetic study on phylogenetically close species with and without invasion record native to Northern Europe, Great Lakes and Ponto-Caspian region whose populations naturally occur in different salinities to determine historical transitions from marine to brackish and freshwater habitats and vice versa. He/she will deduce if evolutionary transition of species to different salinities went in both directions (i.e., from marine to freshwater and from freshwater to marine habitats). Finally, he/she will determine if salinity transitions are more common for species with invasion record than for species without invasion record, and if they are more common for Ponto-Caspian than for Northern Europe or Great Lakes' species.

We are looking for an enthusiastic individual ideally with experience in molecular ecology, molecular genetic techniques and/or invasion ecology. Any experience with next generation sequencing is advantageous. Funding is available for 3 years. The anticipated starting date is 01. October 2014, however, the position remains open until a suitable candidate is found. Applicants must hold an MSc/PhD related to biological sciences, preferentially with a focus on molecular, quantitative and/or population genetics. Candidates should be willing to participate in extensive sampling in the Northern Europe, Great Lakes and Ponto-Caspian regions, have good organization skills, and be able to work independently and develop own scientific concepts. Excellent English communication skills are a prerequisite.

The salary is according to the class 13 TVöD of the German tariffs for public employees (65% PhD student; 100% postdoc).

The GEOMAR Helmholtz-Centre for Ocean Research Kiel seeks to increase the proportion of female scientists

and therefore women are especially encouraged to apply. GEOMAR Helmholtz-Centre for Ocean Research Kiel also supports the employment of disabled persons. Persons with disabilities with appropriate qualifications and aptitudes will be employed preferentially.

Applications including research interests, a current CV, and contact details of 3 referees should be sent to the following address using the keyword “Sofja Kovalevskaja Two”:

GEOMAR Helmholtz-Centre for Ocean Research Kiel

Personalabteilung/ Frau Frauke Lafrenz

Kennwort “Sofja Kovalevskaja Two”

Wischhofstraße 1-3

D-24148 Kiel

Germany

For further information, please contact Dr. Elizabeta Briski (ebriski(a)geomar.de).

For general information on research at the GEOMAR Helmholtz-Centre for Ocean Research Kiel, see <http://www.geomar.de> .

<http://www.geomar.de/en/service/jobs/open-positions/article/phd-postdoc-position-in-invasion-ecology/> Elizabeta Briski <ebriski@geomar.de>

GEOMAR Germany MarineEvolution

PhD Position Evolutionary Ecology

The GEOMAR Helmholtz-Centre for Ocean Research Kiel offers a PhD-position for an early stage researcher within the recently established Priority Program “Flexibility matters: Interplay between trait diversity and ecological dynamics using aquatic communities as model systems” (www.DynaTrait.de) funded by the German Research Foundation (DFG). We are seeking a highly motivated PhD student with strong interest in community, evolutionary and trait based ecology to join our interdisciplinary eco-evolutionary research team located at the GEOMAR Helmholtz Centre of Marine Science in Kiel, Germany.

The overarching goal of the project is to assess the relative importance, and functional interdependencies of ecological and evolutionary processes within marine phytoplankton communities under external pressure.

The experimental model system will consist of functionally different phytoplankton species, i.e. diatoms, cyanobacteria and coccolithophores that vary in terms of resource acquisition, productivity and environmental tolerances. The external forcing will be enhanced seawater CO₂ concentration.

The successful candidate will study the relative importance of the different components of response diversity, i.e. physiological plasticity, ecological species sorting, and adaptive evolution, to explain change of ecosystem functioning of selected experimental plankton communities in response to enhanced CO₂ concentration. This will be achieved first, by a direct experimental approach, and second, by a theoretical Price-equation decomposition into plasticity components, ecological species sorting, and adaptive evolution. Trade-offs among stress tolerance and competitive abilities will be addressed in order to interpret the results. The PhD candidate is expected to work in close collaboration with a second PhD candidate studying how rapid ecological and evolutionary processes inhibit or mutually enhance each other in multispecies phytoplankton assemblages.

Funding is available for three years. The anticipated starting date is 01 December 2014 or January 2015. The candidate must hold a Master of Science (or equivalent) degree in the field of biology, ecology, evolution, or related subjects. Experiences in experimental ecology or evolution and in statistical data analysis are required. The work includes semi-continuous microcosm experiments, microscopic quantification of different species and strains via light and electron microscopy and flow cytometry, and nutrient analyses. Experience in cultivation of phytoplankton is a plus. The candidate should have a strong interest in multidisciplinary research.

The salary is according to the class 13 TVOD of the German tariffs for public employees (65%).

The GEOMAR Helmholtz-Centre for Ocean Research Kiel seeks to increase the proportion of female scientists and therefore women are especially encouraged to apply. GEOMAR Helmholtz-Centre for Ocean Research Kiel also supports the employment of disabled persons. Persons with disabilities with appropriate qualifications and aptitudes will be employed preferentially.

Please send your application for this post including research interests, a current CV, and contact details of two persons acting as referees not later than 14 September 2014 using the keyword “Evolutionary Ecology” to the following address: GEOMAR Helmholtz-Centre for Ocean Research Kiel Personalabteilung/Frau Moll Kennwort “Evolutionary Ecology” Wischhofstrasse 1-3 D-24148 Kiel Germany For fur-

ther information, please contact Dr. Birte Matthiessen (bmatthiessen(at)geomar.de). For general information on research at the GEOMAR Helmholtz-Centre for Ocean Research Kiel, see <http://www.geomar.de>. Birte Matthiessen GEOMAR Helmholtz-Zentrum für Ozeanforschung Duesternbrooker Weg 20 D-24105 Kiel Germany

Tel.: ++49-431 600 4408 Fax: ++49-431 600 4402

E-mail: bmatthiessen@geomar.de <http://www.geomar.de/de/mitarbeiter/fb3/eoe/eoe-n/bmatthiessen/> Birte Matthiessen <bmatthiessen@geomar.de>

GrenobleU StatisticalGenetics

PhD position in bioinformatics/statistical genetics at the University of Grenoble (France)

Title: Large-scale statistical methods to study biological adaptation with genome wide dataset

The candidate will be involved in a multidisciplinary research project that concerns a team a mathematical and computational biology in Grenoble and a team of human evolutionary genetics at the Institut Pasteur in Paris. The PhD candidate will work in Grenoble, which is a French university town located in a beautiful alpine environment.

Subject: Because of the explosion of large-scale biological data, statistical research efforts are increasingly needed in modern biology. The project concerns the development of statistical methods to study human genetic adaptation. Humans experienced several changes of their environment, which triggered rapid biological adaptation. The shift to agriculture was a prominent modification of their environment. They adopt sedentary lifestyles, resulting in increased population densities and modifications of their pathogenic environment that lead to novel selective pressures. However, the extent and rapidity of the genetic adaptation to such novel environments remain largely unknown. Based on genome wide data (exome sequencing) generated by the Institut Pasteur in Paris, we will investigate the occurrence of rapid adaptation through various evolutionary mechanisms.

The candidate will develop original statistical approaches to detect the regions of the genomes that have been involved in genetic adaptation. Statistical models will be based on machine learning approaches that are

particularly well suited to handle large-scale genomic data. Numerical implementations of the proposed approaches will be compared based on simulations that mimic evolutionary processes of biological adaptation.

Profile: The background of the candidate can be in statistics or bioinformatics. Students from related disciplines, such as physics, computer science, mathematics or computational biology are also welcome to apply. Applicants with a genuine interest for interdisciplinary PhD education will be preferred.

Applicants should send by email a CV and a recommendation letter from an academic reference.

Contacts: Michael Blum <http://membres-timc.imag.fr/Michael.Blum/> Michael.blum@imag.fr

mblum <michael.blum@imag.fr>

LaurentianU EvolutionAmphibianDiseases

Graduate Position at Laurentian University (ON) and Keyano College (AB) Evolutionary Ecology of Amphibian Emerging Infectious Diseases

We are seeking one MSc/PhD student to join our lab at Laurentian University (<http://gearg.jimdo.com/>) and Keyano College (<http://dannaschock.blogspot.ca/>) in association with the Centre for Evolutionary Ecology and Ethical Conservation (<http://ceec.wordpress.com>) in the area of Emergent Infectious Diseases in Amphibians (Ranavirus & Chytrid fungus). These two diseases are causing mass die-offs in amphibian populations but the evolution, ecology, dynamics and effects of the pathogens are still largely unknown. In particular, 2 questions are of interest: - what are the temporal patterns associated with this host-pathogen(s) system? -what role does a community of host species play in the maintenance of the pathogen(s)?

The student will work in this context by combining fieldwork and experiments depending on his/her interests. Good aptitude for fieldwork, molecular ecology skills and some herpetological knowledge are expected as well as good communication skills.

Starting date: Candidates are expected to start their studies in January 2015.

Funding: Full funding of minimum \$17,000/year is guaranteed through a combination of TAships and RA-

ships. Additional scholarships will be available by competition.

How to apply: Interested students should contact us via email, including a cover letter describing background and interests (including specific interests in our lab), cv, transcripts (unofficial is fine).

Dr. David Lesbarrères (dlesbarreres@laurentian.ca)
Dr. Danna Schock (danna.schock@keyano.ca)

“It takes all the running you can do to keep in the same place.”

Dr. David Lesbarrères, Associate Professor Acting Dean, Faculty of Graduate Studies

Genetic & Ecology of Amphibians Research Group (GEARG) Department of Biology - Laurentian University, <http://gearg.jimdo.com/> Ramsey Lake Road, Sudbury, Ontario P3E 2C6, Canada phone: (705)675-1151 ext. 3232/2275 - Fax: (705)671-3840

dlesbarreres@laurentian.ca

MaxPlanckInst Seewiesen SexuallySelectedOrnaments

The Evolutionary Biology Group at the Max Planck Institute for Ornithology in Seewiesen, Bayern, Germany (<http://www.orn.mpg.de/218798/Forschungsgruppe-Schroeder>) is offering two research projects (suitable for external MSc thesis) during the winter semester 2014/2015. The projects aim at disentangling the short-¹-term and long-²-term correlates of a sexually selected ornament in a passerine bird, the house sparrow, */Passer domesticus/*. You will learn or improve your skills in: design of behavioral experiments, collection of behavioural and morphological data working with captive birds, DNA sampling, data management and analysis, as well as scientific writing and presentation. Candidates should have an interest in Evolution and Behavioural Ecology, a strong work ethic, and be able to work independently and as part of a team. The working language at the Institute is English, so good knowledge of the language is required. Previous experience in handling small animals, as well as experience in analysing videos and image data is preferable, but not necessary. The successful candidate will be part of a young dynamic team in which scientific exchange is fostered. The Max Planck Institute for Ornithology employs a dedicated and international group of researchers who are focused on exploring the

fields of evolution, ecology, genetics, and neurobiology. Review of applications will start immediately until the positions are filled. If you are interested in applying for one of the research projects please write to (including your CV and name and addresses of at least one person who could give you a reference) Alfredo Sánchez-Tójar (asanchez@orn.mpg.de) or Antje Girndt (agirndt@orn.mpg.de) latest by September 7th.

Antje Girndt <agirndt@orn.mpg.de>

MaxPlanckInst Seewiesen SparrowEvolution

The Evolutionary Biology Group at the Max Planck Institute for Ornithology in Seewiesen, Bayern, Germany (<http://www.orn.mpg.de/218798/Forschungsgruppe-Schroeder>) is offering one student research project (suitable for MSc thesis) starting in November 2014. This project will investigate reproductive senescence and its evolutionary consequences using data from a captive and wild population of house sparrows, */Passer domesticus/*. You will learn or improve your skills in: microscopy, sperm quality and quantity measurements, data management and analysis, scientific presentation and writing. Candidates should have an interest in Evolution and Behavioural Ecology, a strong work ethic, and be able to work independently and as part of a team. Furthermore, experience in cell biology and microscopy is desired. The working language at the Institute is English, so good knowledge of the language is required. The successful candidate will be part of a young dynamic team in which scientific exchange is fostered. The Max Planck Institute for Ornithology employs a dedicated and international group of researchers who are focused on exploring the fields of evolution, ecology, genetics, and neurobiology. Review of applications will start immediately until the position is filled. If you are interested in applying for the research project please write to (including your CV and name and addresses of at least one person who could give you a reference) to Antje Girndt (agirndt@orn.mpg.de) latest by September 30th.

Antje Girndt <agirndt@orn.mpg.de>

MemorialU MathBiology

I invite applicants for M.Sc. and Ph.D. studies in mathematical biology. Possible research topics include the ecology and evolution of infectious disease, animal movement models, and disease spread in changing environments.

The salary for these positions is \$20,000 per year with additional funding available for conference travel. Applicants should email Dr. Amy Hurford (ahurford@mun.ca). This email should include: (i) 1-2 paragraphs describing your research interests and any relevant past experience, (ii) your CV, and (iii) transcripts pertaining to your previous or ongoing studies (if possible). I will consider applications as they are received. For full consideration applicants should indicate their interest before September 1, 2014. Applicants should be able to begin their studies in January, May or September, 2015.

Interdisciplinary training in biology, mathematics and/or experience in computer programming is ideal, but only proficiency in one of these areas is necessary where there is an interest to develop further skills in the other areas.

Memorial University is located in St John's, Newfoundland, Canada. The city offers many unique experiences with a vibrant arts community, stunning coastline, and proximity to a variety of outdoor activities (hiking, fishing, cross-country skiing, etc: <http://www.newfoundlandlabrador.com>).

ahurford@mun.ca

MonashU PlantGenomics

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

these topics, we use a combination of genomics, ecological fieldwork and experimental approaches.

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

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

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

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

Monash is a member of the Group of Eight, a coalition of top Australian universities recognized for their excellence in teaching and research. The School of Biological Sciences is a dynamic unit with strengths in both ecology and genetics and the nexus between these disciplines.

Please send your CV, a transcript, a brief statement of your research interests and the contact details of two referees to kathryn.hodgins@monash.edu. The deadline for scholarship applications at Monash University is October 31, 2014 for a January 1, 2015 start date.

Kristin Nurkowski <kristin.nurkowski@monash.edu>

NHM London EvoDevoGenomics

The Natural History Museum, London (UK; Diana Percy) is offering a fully-funded 3 year PhD studentship jointly supervised with the University of Southampton (UK; Mark Chapman), and the University of British Columbia (Canada; Quentin Cronk), starting on 1 November 2014 (or as soon as possible thereafter).

Deadline for applications: 19 September 2014 The studentship is only open to those who qualify for 'Home' tuition fees (generally UK/EU residence).

We are looking to recruit a student interested in studying the evolution and genomics of a Hawaiian plant gall radiation.

Despite the economic importance of galling (many plant pests are gallers) very little is known about the molecular developmental processes underlying galling. This project will use the recently proposed and innovative approach of “evolutionary developmental transcriptomics”. Further, the project will use a novel application of “dual-RNaseq” to co-generate plant and insect transcriptomes under gall interaction.

The project is in two parts: (i) the ecological and developmental characterization of gall biology in a insect-plant island radiation. This will involve fieldwork in the Hawaiian Islands. (ii) Genomic approaches to identify the genes, regulatory networks, and expression patterns involved in shifts to different gall phenotypes among closely related insect species. The project will use whole genome sequencing and de novo assembly of the plant and insect genomes (guided by reference genomes of *Eucalyptus* and *Diaphorina/Trioza*), together with leaf (infected and uninfected) and nymph transcriptomics to identify candidate genes associated with the perturbation of plant tissue during gall formation. Bioinformatics will include construction of gene coexpression networks to predict plant and insect gene regulatory networks (GRNs) and gene network modules (GNMs) using galled and ungalled leaves. Our approach will draw on recent developmental work on leaf shape using the generation of self-organizing maps (SOMs) and gene coexpression network analysis to describe GNM rewiring between evolutionary-developmental states.

The PhD student will gain knowledge across a broad range of areas from fieldwork, lab work, systematics, genomics and evolution of development. Training will be in plant and insect genomics and development, candidate gene identification and Bayesian modelling methods, RNA and DNA collection and extraction, next generation sequencing methods, genomic assemblies and bioinformatics methods, and insect and plant biology.

For further details contact Dr Diana Percy (d.percy@nhm.ac.uk)

Interested parties will need to provide: - Curriculum vitae. - Covering letter outlining your interest in the particular PhD project, relevant skills training, experience and qualifications for research, and a statement of how this PhD project fits your career development plans. - Transcripts of undergraduate and Masters' degree results. - Names and email addresses of two academic references including (if applicable) Masters' project supervisor.

“Percy, Diana” <diana.percy@botany.ubc.ca>

NHM UOslo AvianDefenses 2

Doctoral Research Fellowship in Evolutionary Genomics/Behavioural Ecology

A 4-year PhD position is available at the Natural History Museum (NHM), University of Oslo (UiO). The PhD project is part of a larger research program on 'Sperm-pathogen interactions and the evolution of ejaculate antimicrobial defences in passerine birds'.

Animals are constantly exposed to pathogens, and the ability of individuals to combat microbial attack is an important component of fitness. Sperm cells are not immune to microbial exposure, and bacteria can cause reductions in sperm quality and compromise male fertility. Moreover, ejaculate-borne pathogens can be transferred during mating (i.e. STDs), with negative consequences for female fertility. Thus, ejaculate-borne bacteria are predicted to generate intense selection for the evolution of antibacterial substances in seminal fluid. This project integrates organismal and molecular approaches to develop an understanding of the role of bacteria in the evolution of avian seminal fluid and factors that minimise bacterial-induced sperm defects and limit the transmission of STDs. The successful candidate will be allowed to focus on either the evolutionary genomics or the behavioural ecology aspects of the larger study (or some combination of these two) as best fits her/his skills and research interests. She/he will also be encouraged to develop additional, complementary avenues of research.

Interested candidates should have a good degree in a relevant subject, such as background in evolutionary biology or behavioural ecology. In addition, an interest in evolutionary genomics and previous fieldwork and bird handling experience would be advantageous. The position is affiliated with the Sex and Evolution Research Group (SERG) at the Natural History Museum (NHM) and the Centre for Ecological and Evolutionary Synthesis (CEES), and may also include a period of time based in the laboratory of Dr Steve Dorus (Syracuse University, USA). The research team will also include scientists from the USA and Germany. The working language will be English. Fieldwork may be conducted at a variety of locations, including Norway and Italy.

Application deadline: August 15th
Informal enquiries can be made to Melissah Rowe: melissah.rowe@nhm.uio.no

For more information and how to apply: <http://-uio.easyruit.com/vacancy/1198865/71922?iso=gb>

Melissah Rowe Research Fellow Natural History Museum University of Oslo Norway melissah.rowe@nhm.uio.no

Melissah Rowe <melissah.rowe@nhm.uio.no>

Portugal 12 Biodiversity

TWELVE SCHOLARSHIPS ARE AVAILABLE FOR THE BIODIV PhD PROGRAMME

The Doctoral Programme in Biodiversity, Genetics and Evolution (BIODIV) invites applications for 12 scholarships for the 2014-15 academic year, funded by FCT < <http://www.fct.pt/index.phtml.en> > - Portuguese Foundation for Science and Technology.

BIODIV is organized by the two largest Portuguese universities - University of Porto < http://sigarra.up.pt/fcup/en/CUR_GERAL.CUR_VIEW?pv_ano.lectivo==2014&pv_origem=CUR&pv_tipo_cur_sigla=D&pv_curso_id=1012 > and the University of Lisbon < <http://www.fc.ul.pt/en/cursos/doutoramento/biodiversidade-genetica-e-evolucao> > - in partnership with CIBIO-InBIO < <http://cibio.up.pt/cibio.php?lang=en> > (Research Center in Biodiversity and Genetic Resources) and CBA < <http://cba.fc.ul.pt/> > (Center of Environmental Biology).

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

The call for applications (in attach) is open between August 11 and September 21, 2014.

Information about the programme and on 'How to apply' is available at www.biodiv.pt.

Maria Sant'Ana

E: applications@biodiv.pt

T: + 351 252 660 411 F: + 351 252 661 780

CIBIO DivulgaçãŁo

SouthAfrica EvolutionaryBiology

We are looking for PhD students from around the world who would like to participate in a three-month research program in South Africa. We welcome applications by students with a general interest in theoretical ecology and evolution, and are particularly interested in hosting research projects related to modeling adaptive ecological networks, food-web dynamics, speciation, coevolution, and evolutionary community assembly.

Research projects will be carried out at the at the University of the Free State in Bloemfontein, South Africa from 1 November 2014 until 31 January 2015, and are meant to result in a published article and a corresponding chapter in an applicant's PhD thesis. Funding to cover travel to Bloemfontein and living expenses while there is available for successful applicants.

The Southern African Young Scientists Summer Program (SA-YSSP) is currently accepting applications from doctoral students from The International Institute for Applied Systems Analysis' (IIASA) twenty National Member Organization (NMO) countries, Southern African Development Community member states, and South Africa. Applications are due on 3 August 2014.

Researchers from IIASA and South Africa will work in teams to supervise one or more SA-YSSP participants. These supervisory teams have jointly defined 15 research themes that will serve as the basis for the participants' work. These themes fall into 4 interdisciplinary clusters: Risk, Policy & Governance, Energy & Climate Systems, Ecosystems & Water, and Population, Health & Aging. Several themes, including Theme 10 Stability and complexity of adaptive ecological networks, address salient issues in theoretical and mathematical ecology.

SA-YSSP information on the IIASA website: <http://www.iiasa.ac.at/web/home/education/sayssp/-About-the-Program.en.html> SA-YSSP information on the UFS website: <http://conferences.ufs.ac.za/-default.aspx?DCODE=720> Application form and procedures on the NRF website: http://www.nrf.ac.za/-funding_overview.php?fid=207 DIECKMANN Ulf <dieckmann@iiasa.ac.at>

SwanseaU HelicobacterGenomics

Swansea, UK; Helicobacter pylori Genomics

Helicobacter pylori cancer genomics, fully-funded PhD studentship available in the Sheppard laboratory (2014-2017).

H. pylori infection is the principal pathophysiological step leading to initiation of the inflammatory response in gastric cancer patients. However, the severity of disease and the ultimate outcome is dependent upon a complex interaction between pathogen and host cell. Chronic inflammation is understood to induce cancer by increasing reactive oxygen and nitrogen species and subsequent DNA damage. This could result from infection with any H. pylori strain, however, H. pylori populations are highly structured with numerous genotypes existing together in a single patient and these strains can have different disease causing potential. By characterizing variation in the core and accessory genome we will identify candidate associated genetic elements (alleles, SNPs) that are over represented in isolates from patients with certain types of cellular pathologies. These will be investigated in functional studies to improve understanding of disease causation.

The successful applicant will join a multidisciplinary group focusing on population biology and evolution of bacterial pathogens of public health importance. Comparative genomics and functional characterisation approaches will examine the genetic structuring within pathogenic populations and answer fundamental questions about how genetic variation and genome plasticity influence adaptation and the evolution of pathogenicity. They will be responsible for sampling and culturing isolates, extracting DNA for genetic characterisation, analysing genomic data and carrying molecular and functional characterisation in the lab. Experimental approaches will provide training in CL2 containment techniques, in vitro mammalian cell culture, RT-qPCR and INCell Analyzer techniques. Bioinformatics training will involve state-of-the-art analysis of hundreds of whole genome sequences. This project will involve working within the MRC CLIMB consortium, directed by Dr Samuel Sheppard (<http://www.climb.ac.uk>), and the Sheppard (<http://www.sheppardlab.com>) and Jenkins (<http://www.swansea.ac.uk/staff/medicine/-research/jenkinsgjs>) laboratories.

Academic requirements:

Candidates should have a 1st or 2:1 class honours degree in a relevant subject (genetics, microbiology, bioinformatics, molecular biology, or ecology). The successful candidate will be highly motivated, creative, independent and ideally have previous experience in a molecular biology laboratory or in bioinformatics research. Enthusiasm and practical experience in microbiology, molecular techniques (PCR, sequencing) and computer based genetic analysis are desirable, but training and support will be provided to strengthen these areas. Good English writing and oral skills are essential.

Residency criteria:

Due to funding restrictions, this studentship is available to UK/EU students only.

The studentship covers the full cost of UK/EU tuition fees, plus a tax free stipend of 13,863 in year 1, ?14,279 in year 2, and ?14,707 in year 3.

An additional 500 will also be available for research costs/conference attendance.

To apply for this studentship please send a CV and covering letter to Dr Jane Mikhail: j.mikhail@swansea.ac.uk. Informal enquiries may also be directed to Dr Jane Mikhail at the email address above (tel: +44 (0)1792 295022) or Dr Sam Sheppard: s.k.sheppard@swansea.ac.uk

Start date: October 2014 Closing date: 22nd August 2014 for more information and to apply <http://www.swansea.ac.uk/postgraduate/scholarships/-research/medicine-phd-helicobacter-pylori-cancer-genomics.php> Jane M Mikhail PhD Medical Microbiology and Infectious Disease Room 529, Level 5 Institute of Life Science 1 College of Medicine Swansea University Swansea SA2 8PP, UK

j.mikhail@swansea.ac.uk 01792 295022

<http://www.sheppardlab.com> "Mikhail J."
<j.mikhail@swansea.ac.uk>

TempleU PhylogeneticModelsSubstitution

Ph.D. Student: Mechanistic Phylogenetic Models for Amino Acid Substitution

Temple University

An NSF-funded Ph.D. student position is available in

the research group of David Liberles (Temple University from November, 2014; currently at University of Wyoming). The successful candidate will be expected to enroll in the Ph.D. program at Temple University in spring semester, 2015.

The research project involves the construction and phylogenetic implementation of mechanistic models for amino acid substitution in C++. The ideal candidate will have prior programming coursework or experience, a strong background in mathematics, and interest in evolutionary biology. Students with any number of primary backgrounds, including biology and mathematics will be considered.

To apply, please send a cover letter that describes your background, motivation, and interests as well as a full CV to liberles@uwyo.edu. I will guide the successful candidate through the Ph.D. application process at Temple University. International applicants are encouraged to apply and will be given full consideration.

“David A. Liberles” <Liberles@uwyo.edu>

TrentU

AvianEvolutionaryPhysiology

MSC/PHD POSITIONS IN AVIAN ECOLOGICAL, EVOLUTIONARY, AND CONSERVATION PHYSIOLOGY AT TRENT UNIVERSITY

We are looking for 2 graduate students to join our lab at Trent University to study avian ecological, evolutionary and/or conservation physiology. The labs current research focus is addressing whether environmental stress experienced during development can influence an individuals fitness, via long-term changes in physiology and behaviour. Although projects can be tailored to your interests and background, I am particularly interested in recruiting students to study the stress physiology and behavioural ecology of seabirds on Lake Ontario. Experiments will involve measuring hormone levels, whole-animal energetics, immune function, and behaviour. If you have prior experience measuring physiological traits and/or performing fieldwork it would be an asset, but it is not required. Students with an interest in evolution, endocrinology, eco-immunology, animal physiology, and/or behavioural ecology are particularly encouraged to apply.

The positions would be in the Environmental & Life Sciences Graduate Program (ENLS) at Trent Univer-

sity, Peterborough Ontario. ENLS is a large and vibrant program with over 160 MSc and PhD students. The minimum annual support for MSc. students is \$18,436, and \$20,436 for PhD students. Funding comes through a combination of a research fellowship and a teaching assistantship. If you plan to apply for a scholarship (NSERC or OGS) please contact me in advance to discuss possible projects.

To apply please send a letter of interest, CV and transcript to Gary Burness, Department of Biology, Trent University, Peterborough, Ontario, Canada (garyburness@trentu.ca). Please visit the lab website for more information: www.trentu.ca/faculty/burness Start date: January or May 2015

Gary Burness <garyburness@trentu.ca>

UAdelaide

ClimateAdaptationAncientDNA

PhD scholarships at the Australian Centre for Ancient DNA, Adelaide, Australia

Project 1: Epigenetic modifications in adaptation to climate change

Project 2: Phylogenomic analysis of the impacts of climate change, population fragmentation and localised extinctions

We have 2 PhD positions available at the Australian Centre for Ancient DNA (ACAD), School of Earth & Environmental Sciences, at the University of Adelaide. For more information about ACAD, check out <http://en.gravatar.com/acadadelaide> for links to Twitter, Facebook, our blog, recent publications and the official website.

The positions are open to both international and domestic students with a strong academic achievement in either of the following areas: evolutionary biology, bioinformatics, or molecular biology. Competitive scholarships are also available via the University of Adelaide Graduate Centre for domestic (<https://www.adelaide.edu.au/graduatecentre/scholarships/-research/>) and international students (<http://www.adelaide.edu.au/graduatecentre/scholarships/-research-international/opportunities/>).

Both the Australian Department of Immigration and University of Adelaide expect international applicants to meet the English Language Proficiency (ELP) re-

quirements. The ELP is based on high scores in IELTS (International English Language Testing System) or TOEFL (Test of English as a Foreign Language). For further information please refer to <http://international.adelaide.edu.au/apply/admission/>. The projects are described below. There is the potential for fieldwork, and training in ancient DNA, bioinformatics, genomics, and population genetics. Interested applicants are encouraged to send a resume, a cover letter, and the contact details of 3 referees to Dr Bastien Llamas (bastien.llamas@adelaide.edu.au).

1) The role of epigenetic modifications in bovid adaptation to environmental change (Australian Research Council grant LP130100646). Supervision: Dr Bastien Llamas and Prof Alan Cooper. This project will use a novel experimental system to explore the potentially important role of epigenetics in long-term evolution and how animals adapt to rapid climate change. Bones of ancient bison and cattle preserved in permafrost or caves will be analysed for epigenetic markers using advanced Next Generation Sequencing approaches, and the patterns contrasted over a 30,000-year record of major climatic and environmental shifts. It has strong potential to reveal key loci for climate adaptation in modern cattle. Most previous genetic research has been blind to epigenetic marks, and this study promises to be a major advance in addressing this issue, with considerable implications for conservation genetics and the cattle industry.

2) Using phylogenomics to record the impacts of climate change, extinction and population fragmentation (Australian Research Council grant DP140104233). Supervision: Dr Julien Soubrier and Prof Alan Cooper. We will use ancient DNA from permafrost-preserved Steppe bison bones and bovid exome capture systems to build a detailed record of the genomic impacts of rapid climate and environmental change at the end of the Pleistocene (30-11 kyr). The project will analyse how ancestral genetic diversity is distributed amongst surviving bison populations, and the role of nuclear loci under selection and drift. It will create a novel temporal dataset of genomic adaptation and evolution, and will generate critical data for studies of evolutionary processes such as extinctions, speciation and conservation biology and management.

– Bastien Llamas, PhD ARC Senior Research Associate

Australian Centre for Ancient DNA School of Earth and Environmental Sciences The University of Adelaide South Australia 5005 AUSTRALIA Ph: +61 (0)8 8313 5565 | Fax: +61 (0)8 8313 4364 | Mob: +61 (0)411 539 426 E-mail: bastien.llamas@adelaide.edu.au Web: <https://www.adelaide.edu.au/directory/bastien.llamas>

bastienllamas@gmail.com

UBerlin EvolandEcol

PhD position in Evolution and Ecology

Pay grade 13 TVöD (65% of standard working hours), 18 + 18 months fixed-term contract

start date: as soon as possible

Job description: Alongside sexual reproduction and multicellularity, eusociality is considered one of the major transitions in evolution. Outside of Hymenoptera, advanced eusociality has evolved in one other major insect group: the termites. A fundamental trait shared between termites and hymenopteran societies is social immunity, but its evolution and mechanistic basis remains poorly understood. This project aims to use state-of-the-art molecular methods within a comparative experimental framework to address the evolution and ecology of socially mediated immunity in termites. The project will focus on understanding the role of sociality in host-parasite interactions. In particular, the candidate will apply life-history theory to understand how behavioural and physiological host responses vary across species, and how ecology and caste shape individual and social immunity.

Position description: We are seeking an ambitious person to contribute to the development of a new research group in evolution and ecology of insects. Our focus is on fundamental questions in host-parasite dynamics, but applied elements (e.g. pest control) may also be possible within this framework. The selected candidate will have opportunities to attend taught courses at the Free University of Berlin. The successful candidate will register for a PhD at Free University of Berlin and will need to meet the language requirements for a research degree.

Profile requirements: The candidate should have a good Masters degree in Biology covering basic knowledge in evolution and ecology. Experience or interest in ecological aspects and studies of symbiotic or parasitic interactions are important criteria in selecting the candidate. A requirement is a willingness to work in an interdisciplinary and international environment. Very good knowledge in English is necessary; and knowledge of German is an advantage.

For informal enquiries about the position and potential suitability, please contact Prof. Dr. Dino

McMahon via email, including a brief CV (dino-peter.mcmahon@bam.de) or telephone (+49 30 8104-3837). BAM is trying to increase the percentage of women in academic positions and thus encourages suitably qualified women to apply. Suitably qualified seriously handicapped candidates will be given preference; they need only to meet minimum physical requirements.

Please send your formal application including a 2-page CV and up to 3-page statement of research in English by mail, quoting reference number 128/14 - 4., at latest until August 24th 2014 to the following address:

BAM Federal Institute for Materials Research and Testing Division Z.3, reference number 128/14 - 4. Unter den Eichen 87 12205 Berlin Germany

dino-peter.mcmahon@bam.de

UDenver EarlyAnimalEvolution

Scott Nichols' lab < <http://nicholslab.wikidot.com/-start> > at the University of Denver is accepting applications from graduate students for admission in September 2015. We primarily use sponges and choanoflagellates as research models to address fundamental questions about early animal evolution. In particular, we are interested in questions related to the evolution of multicellularity and animal body plan diversification. Current projects range from studies of cell adhesion and developmental morphogenesis, to comparative genomics and gene expression. Students are encouraged to develop their own research ideas.

The University of Denver (DU) is located minutes outside of the urban center of Denver, which is a vibrant city on the edge of the Rocky Mountains. Cultural, culinary, and outdoor opportunities abound. Many students choose to live within walking distance of the campus and there are excellent public transportation options including a municipal bus system and a light-rail system. The closest remote mountain areas and ski resorts are within a 45 minute drive.

Students are guaranteed full tuition offset, health benefits, and a competitive living stipend for either two (MS) or five (PhD) years. Because DU is a private, non-profit institution, there are *no additional fees for out of state or international applicants*. Prospective applicants and first year students are also strongly encouraged to apply to the NSF predoctoral fellowship program (deadline Nov 4, 2014), and I am happy to

discuss this option with you in advance.

The Department of Biological Sciences offers both a Masters and PhD program, and students are invited to apply to either. The department does not offer a laboratory rotation system in the first year, instead successful applicants are admitted directly to the research laboratory where they will work. I often encourage students to enter the Masters program initially, because it is possible to transition to the PhD program at the end of the first year if desired. To learn more about the application process, please go to the Department of Biological Sciences homepage < <http://www.du.edu/-nsm/departments/biologicalsciences/> > and read under Degree Programs < <http://www.du.edu/nsm/-departments/biologicalsciences/degreeprograms/> >.

Applicants should contact Scott Nichols directly at scott.nichols@du.edu well before the January 1st (2015) application deadline. Please provide a brief description of your background and interests and your reasons for considering the Nichols lab for graduate training.

Scott Nichols, Ph.D. Assistant Professor of Biological Sciences 2101 E. Wesley Ave SG Mudd #288 University of Denver Denver, CO 80208

email: sa.nichols321@gmail.com lab homepage: nicholslab.wikidot.com phone: 303-871-5658

Scott Nichols <sa.nichols321@gmail.com>

UGeorgia USA MicrobialSymbiosisGenomics

The Burke lab in the Entomology department at the University of Georgia is recruiting PhD students for the Spring semester of 2015.

Research in the lab focuses upon symbiotic relationships between microbes and animals, and uses functional and evolutionary genetics and genomics to examine how these kinds of relationships can occur and are maintained. In particular, we study the fascinating beneficial viruses that are harbored by parasitic wasps. Graduate students in the lab will generally work on the molecular genetics and genomics of microbial symbionts of animals and are encouraged to consider projects involving viral associations with parasitic wasps or other insects.

Graduate students accepted into the Entomology program are guaranteed financial support for their 5-year

program through Teaching Assistantships (TAs) or Research Assistantships (RAs), which includes an out-of-state tuition waiver. Additional funding exists for graduate student research and travel to scientific meetings. Interested students are also strongly encouraged to apply for graduate research fellowships, such as the National Science Foundation Graduate Research Fellowship. Importantly, students are eligible to apply for this and other fellowships in their final year as undergraduates. Please refer to the Burke lab website for detailed information about financial support and the University of Georgia graduate program in Entomology.

The University of Georgia is a Tier I research university located in Athens, Georgia. The University of Georgia Entomology department has strong representation of faculty studying host/parasite relationships and vector biology, creating a collaborative environment in which students can benefit from interaction with other faculty and students. The Burke lab has been recently renovated and is well-equipped for molecular biology and genomics research. Athens is a city of 100,000 located in the Piedmont basin south of the Appalachian mountains in a green and leafy environment. The city not only has a terrific music scene, great restaurants, nearby mountains for hiking, art, cultural and sports events, etc., but it also has a very low cost of living index compared to many other places in the United States. Athens is conveniently located 90 minutes to the east of Atlanta, a major city with the largest airport in the US.

Interested candidates should contact Gaelen Burke at grburke@uga.edu with a description of your 1) academic background, 2) research experience, 3) your general and specific interests in research in the Burke lab at the University of Georgia and 4) contact information for three references. Please also attach your current resume or Curriculum Vitae. Students must have a greater than 3.0 GPA (on a 4.0 scale) and must have taken the general GRE exam.

Gaelen Burke Assistant Professor

Department of Entomology University of Georgia
 Phone (706) 542-1863 Website: <https://burkelab.wordpress.com> grburke@uga.edu

UGroningen
AvianClimateChangeEvolution

Masters project climate change ecology 30-50 ECTS
 Starting September 2014

Supervisors: Jelmer Samplonius MSc, Prof. Dr. Ir. Christiaan Both

We are looking for 2 motivated Europe based MSc students that have affinity with climate change ecology

Project 1: does trophic mismatch cause mistimed avian reproduction? One of the major ecological consequences of climate change is that phenological shifts are unequal across interdependent trophic levels. A key example in the literature is the great tit that has advanced its breeding date less than the peak date of one of its supposed main prey species: the caterpillars of the winter moth. As caterpillar peak dates have advanced twice as fast as great tit hatching dates, nestlings now grow up under worse conditions. However, key cornerstones to support this hypothesis are still lacking:

1) evidence that birds largely rely on winter moth caterpillars, and 2) experimental evidence that birds suffer from food limitation due to their reproductive timing.

In spring 2014 we have performed a field experiment in which the hatch date of great tits was manipulated, and prey choice was monitored with nest box cameras. From a quick glance at the pictures I can already lift a tip of the veil: the trophic mismatch hypothesis appears to oversimplify the adaptive capacity of birds. The main task in this MSc project will be to quantify (from pictures) which prey items great tit parents bring to their nest depending on their seasonal timing. This will also be compared to components of fitness.

Project 2: does climate change alter competitive interactions between resident and migrant passerines? Climate change can alter competitive interactions between resident and migrant birds by altering the overlap of their reproductive timing. Long distance migrants have little flexibility in adjusting their breeding time to year-to-year changes in temperature, and likely change gradually through a micro-evolutionary response. In contrast, residents can anticipate better, and thereby rely on phenotypic flexibility. In the increasingly warmer springs we thus expect less overlap in timing of breeding, and potentially a release in interspecific competition for food. In 2014, we experimentally created patches with more and less overlap in breeding dates between resident tits and migratory flycatchers, to study whether prey choice and fitness are affected.

Your main task will be to quantify (from pictures) which prey items are caught by long distant migrant pied flycatchers depending on which competitive environment with resident great tits they breed in. This data will also be compared to components of fitness.

The candidate should have a BSc degree in Biology and started a masters programme in Biology (Ecology, Zoology, Evolution, Conservation, Systematics) at a European University. The successful candidate is awarded European Credit Points for their project. The European Credit Transfer System (ECTS) allows you to transfer your points between universities. There will be no financial compensation (although your university or Erasmus may provide you with a scholarship for an international project)

Interested? Contact: Jelmer Samplonius, j.m.samplonius@rug.nl, Animal Ecology Group University of Groningen

“J.M.Samplonius” <j.m.samplonius@rug.nl>

UGroningen SeaTurtleEvolution

We have a vacant PhD position at the Marine Evolution and Conservation group at the Center for Ecology and Evolutionary Studies (University of Groningen, The Netherlands).

The objective of the project is to elucidate the evolution and population genetic structure of sea turtles in the Dutch Caribbean by analyses of genomic data.

The closing date for (on-line) applications is September 30th, 2014.

Please read the full advert (<http://www.rug.nl/about-us/work-with-us/job-opportunities/overview?details=00347-0000005702>) for more details.

– Per J. Palsbøll

Marine Evolution and Conservation Centre for Ecological and Evolutionary Studies University of Groningen Nijenborgh 7 9747 AG Groningen The Netherlands

Office phone: +31 50 363 9882 Mobile +31 64 870 3295

Mail address: PO Box 11103 9700 CC Groningen The Netherlands

— How wonderful that we have met with a paradox. Now we have some hope of making progress.

As quoted in “Niels Bohr : The Man, His Science, & the World They Changed” (1966) by Ruth Moore, p. 196

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Per J Palsboll | Marine Evolution and Conservation | CEES | RUG <p.j.palsboll@rug.nl>

UMuenster 2 EvolutionaryBiol

UMuenster GraduateSchoolofEvolution BiologyMedicineorPhilosophy

2 PhD positions for international (non-German) students within the interdisciplinary “Muenster Graduate School of Evolution”: PhD projects in Biology, Medicine, or Philosophy

The “Muenster Graduate School of Evolution” (MGSE) offers 2 PhD positions funded by DAAD- stipends for international (non-German) students within the stimulating environment of the University of Muenster, Germany.

As an interdisciplinary graduate school, the MGSE uses the unifying concept of evolution to bridge the faculties of biology, medicine, geosciences, mathematics, and philosophy. PhD students work on their diverse disciplinary projects in one of the involved institutes and benefit from interdisciplinary curricular activities as well as a structured supervision and support throughout their PhD. The MGSE is based in the stimulating city of Muenster in a historical building opposite the Muenster castle and offers a family friendly and international atmosphere.

Location: Muenster, Germany Working Language: English Start of the PhD: 2015 Duration: 3 years (4 years for students from developing and emerging countries)

You can apply for one or several of the following six projects. Each project involves high-quality research and state-of-the-art techniques and is supervised by excellent researchers.

1) The genetic origin of novel protein coding genes in populations and their evolutionary constraints Prof. Erich Bornberg-Bauer (Research Group Evolutionary Bioinformatics), Prof. Matthias Loewe (Institute of Mathematical Statistics), Prof. Juergen Gadau (School of Life Sciences, Arizona State University)

2) Immunogenic males: where sex and immunity meet Dr. Claudia Fricke (Research Group Evolution and Sexual Conflict), Dr. Sophie Armitage (Research Group Animal Evolutionary Ecology)

3) The Concept of Disease in Individualized Medicine Prof. Ulrich Krohs (Research Group Philosophy of Science and of Nature)

4) Interactions of animal personality, social environ-

ment and immunity Prof. Joachim Kurtz (Research Group Animal Evolutionary Ecology), Dr. Joern Scharsack (Research Group Animal Evolutionary Ecology), Prof. Norbert Sachser (Department of Behavioural Biology)

5) Functional consequences of evolutionary conservation vs. variability in the influenza virus genome Prof. Stephan Ludwig (Institute of Molecular Virology)

6) Reconstruction of the ancient transcriptome of species Dr. Juergen Schmitz (Institute of Experimental Pathology), Dr. Francesco Catania (Research Group Evolutionary Cell Biology)

More information on the projects can be found here: <http://www.uni-muenster.de/Evolution/mgse/-jobs/> Highly qualified and motivated candidates all over the world are invited to submit their application.

Requirements:

- MSc (or an equivalent degree) relevant for the respective project (biology, medicine, mathematics, or philosophy). At the time of application, generally no more than six years should have passed since you gained the last degree.
- Excellent academic record, interest to work interdisciplinary, and motivation to actively participate in the structured PhD program of the MGSE.
- Fluency in spoken and written English (or willingness to take part in a respective course).
- Only international (non-German) applicants can be accepted. At the time of application you should not be living in Germany for more than 15 months.
- Applications from women are particularly encouraged. Handicapped candidates with equivalent qualifications will be given preference.

Application procedure:

You can apply for one or several of the listed projects via the DAAD platform by 1.8.2014: <https://www.daad.de/deutschland/promotion/-phd/en/13306-phdgermany-database/?enter=-Suchen%20%C3%82%C2%BB&fachgebiet=-C&finanzierung=0&institution=&personenkreis=&projektid=57139401&promotionsart=&sprache=-&stadt> Please indicate which project(s) you are interested in! >From among the applicants, we will shortlist candidates for (Skype) interviews and subsequently nominate 4-8 applicants. From among the nominees, a DAAD committee will select the two scholarship recipients.

In case of questions please contact: (Please don't send your applications here, instead use the DAAD online application (see above)!)>

Dr. Rebecca Schreiber (MGSE Coordinator) Email: rebeccaschreiber@uni-muenster.de Telephone: +49-

(0)251 / 83-21252

Dr. Rebecca Schreiber (nee Heiming) Coordinator of the Muenster Graduate School of Evolution Westfaelische Wilhelms-Universitaet Muenster

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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>

UMuenster 2 EvolutionBiol

Dear all,

please find below an announcement for 2 PhD positions.

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You can apply for one or several of the following six projects. Each project involves high-quality research and state-of-the-art techniques and is supervised by excellent researchers.

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Prof. Ulrich Krohs (Research Group Philosophy of Science and of Nature)

4) Interactions of animal personality, social environment and immunity
Prof. Joachim Kurtz (Research Group Animal Evolutionary Ecology), Dr. Joern Scharsack (Research Group Animal Evolutionary Ecology), Prof. Norbert Sachser (Department of Behavioural Biology)

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Prof. Stephan Ludwig (Institute of Molecular Virology)

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Dr. Juergen Schmitz (Institute of Experimental Pathology), Dr. Francesco Catania (Research Group Evolutionary Cell Biology)

More information on the projects can be found here: <http://www.uni-muenster.de/Evolution/mgse-jobs/> Highly qualified and motivated candidates all over the world are invited to submit their application.

Requirements: - MSc (or an equivalent degree) relevant for the respective project (biology, medicine, mathematics, or philosophy). At the time of application, generally no more than six years should have passed since you gained the last degree. - Excellent academic record, interest to work interdisciplinary, and motivation to actively participate in the structured PhD program of the MGSE. - Fluency in spoken and written English (or willingness to take part in a respective course). - Only international (non-German) applicants can be accepted. At the time of application you should not be living in Germany for more than 15 months. - Applications from women are particularly encouraged. Handicapped candidates with equivalent qualifications will be given preference.

Application procedure: You can apply for one or several of the listed projects via the DAAD platform by 1.8.2014:

<https://www.daad.de/deutschland/promotion/-phd/en/13306-phdgermany-database/?enter=Suchen%20%C3%82%C2%BB&fachgebiet=C&finanzierung=0&institution=&personenkreis=&projektid=57139401&promotionsart=&sprache=&stadt> Please indicate which project(s) you are interested in!

>From among the applicants, we will shortlist candi-

dates for (Skype) interviews and subsequently nominate 4-8 applicants. From among the nominees, a DAAD committee will select the two scholarship recipients.

In case of questions please contact: (Please don't send your applications here, instead use the DAAD online application (see above)!)

Dr. Rebecca Schreiber (MGSE Coordinator) Email: rebeccaschreiber@uni-muenster.de Telephone: +49-(0)251 / 83-21252

rebeccaschreiber@uni-muenster.de

UNaples FedericoII EvolutionaryBiology

“PhD Positions in Biology are being offered at the Department of Biology, University of Naples Federico II, Italy (PhD programs of the 30th cycle, 2014-2015). The positions offer a 3-year salary funded directly through the University under the new collaborative PhD educational program. The Admission to the PhD Programs will be on a competitive basis. The selection of the candidates will be based on the evaluation of their CVs, written tests and/or interviews. The application form must be filled in exclusively on-line, by and no later than 12.00 a.m. (Italian time) of September 16th, 2014. For more information go to: <http://www.unina.it/studentididattica/postlaurea/dottorato/en/index.jsp>; <http://www.unina.it/studentididattica/postlaurea/-dottorato/en/index.jsp> .”

Should you require further information, please do not hesitate to contact me.

Valeria Maselli, PhD

Postdoctoral Researcher Department of Biology University of Naples Federico II Campus Monte S. Angelo 80126 Napoli, Italy Phone: + 39-081-679128 Fax: +39-081-679130 vale-ria.maselli@unina.it www.fulgionegroup.com Valeria Maselli <vale.maselli@gmail.com>

UNeuchatel AlpinePlantEvolution

PhD position on evolutionary biology of alpine plants

University of Neuchatel, Switzerland

How readily do resistance traits to climatic extremes evolve? -The goal of this project is to investigate the rates of adaptation of traits associated with living at low or high elevations. The research will involve sampling plants in the Alps, assessing climate-stress resistance traits under common garden conditions, and conducting phylogenetic comparative analysis of these traits. The candidate should have an eager interest in plants and their evolution, a strong background in quantitative thinking, experimental design, statistical analysis, and enthusiasm for fieldwork in the high Alps.

The project is a collaboration with the University of Zürich and the University of Heidelberg, Germany, so there is an opportunity to visit those places during the project.

The project is based at the Institute of Biology at Neuchatel, Switzerland. The Institute consists of a dozen groups working in diverse fields of ecology, evolution, physiology, and molecular biology (<http://www2.unine.ch/biol/>). The University, in collaboration with CUSO (the Universities of Lausanne, Geneva and Fribourg), offers outstanding PhD programs in evolutionary biology (<http://biologie.cuso.ch/accueil/>). The position is financed by the Canton of Neuchatel for 4 years. The position comes with some teaching expectations (eight one-day Botany excursions per year and 30 hours of Botany pracs). For more information, contact Yvonne Willi (yvonne.willi@unine.ch).

Applicants must have a university degree in the natural sciences that allows entrance to a PhD program (ideally in evolutionary biology or ecology), and very good organizational, analytical, and scientific writing skills. Motivated applicants should submit (1) a one-page letter that summarizes interests and relevant experience, (2) their CV, (3) copies of undergraduate and masters/diploma transcripts, and (4) contact information of two references (all as a ***single PDF***): yvonne.willi@unine.ch. Applications are welcome until the position is filled. First reviewing starts on September 10, 2014.

WILLI Yvonne <yvonne.willi@unine.ch>

UNewSouthWales
LacebugMolEvolution

Graduate position: PhD in Molecular Ecology of the

Macadamia Lacebug

PhD in Molecular Ecology of the Macadamia Lacebug
EERC BEES UNSW, Profs Cassis & W Sherwin

The project will investigate the identity, ecology and genetics of Macadamia lacebugs, which cause catastrophic crop loss in plantation Macadamia. In the face of increased deregistration of current insecticides, this pestiferous insect threatens the sustainability of the Macadamia industry. The proposed research will result in the determination of species and genetic diversity and species interactions of plantation and wild Macadamia Lacebugs. These results will provide the Macadamia industry a basis for designing an integrated pest management program and a sustainable future. We are looking for PhD candidates with solid molecular genetic experience; experience in fieldwork and/or entomology is an advantage. For suitable students, there is the possibility of giving a supplement of up to \$8000 AUD pa on top of standard UNSW PhD scholarship rates, to make a total scholarship of up to \$33000 AUD pa.

PROCEDURE (1) DISCUSS: Email letter with CV, academic record, and details of two academic referees, to Prof Gerry Cassis (gcassis@unsw.edu.au) or Prof Bill Sherwin (W.Sherwin@unsw.edu.au). Your letter should explain how your results are sufficient to allow successful application for a SCHOLARSHIP at UNSW (see below). We cannot consider other applications.

(2) PhD SCHOLARSHIP APPLICATION <https://research.unsw.edu.au/postgraduate-research-scholarships> UNSW Scholarships cover fees and living allowance (stipend). Note different closing dates for international and local applicants. Typically, a first-class honours degree with a full-year research project is needed. For an appropriate student, an additional top-up scholarship of \$8000 pa will be paid.

(3) PhD CANDIDACY APPLICATION Submit with scholarship application: <http://research.unsw.edu.au/how-apply-postgraduate-research-study> Professor WB Sherwin Evolution & Ecology Research Centre Deputy Head, School of Biological Earth and Environmental Science, UNSW AUSTRALIA, Sydney NSW 2052 AUSTRALIA W.Sherwin@unsw.edu.au PH:61-2-9385-2119 FX: 61-2-9385-1558 <http://www.bees.unsw.edu.au/staff/william-b-sherwin> CRICOS provider code 00098G

William Sherwin <w.sherwin@unsw.edu.au>

UQueensland MicrobialAdaptation

Two PhD projects are available in the group of Dr. Jan Engelstädter at The University of Queensland (Brisbane, Australia). These projects aim at gaining a better understanding of how recombination affects adaptation in microbial populations.

The first project is theoretical and will involve developing mathematical models and computer simulations that investigate the role of various ecological and population genetic factors in bringing about an advantage of recombination during microbial adaptation. For this position, strong quantitative skills and a background in either evolutionary genetics or mathematical modelling are required. Candidates with both biology and non-biology degrees (mathematics, physics, computer science) are encouraged to apply.

The second project takes an experimental evolution approach. Here, bacteria recombining through either plasmids or natural transformation are adapted to different environmental conditions and the selective response is then dissected at the phenotypic and genomic level. For this position, a strong background in either evolutionary biology or microbiology is required.

For both positions, good communication skills, scientific curiosity and enthusiasm for research in evolutionary biology are essential. For more details about our research and recent publications, see <http://engelstaedterlab.org>. Australian students interested in these positions are expected to be eligible for APA scholarships. For overseas students, funding can be obtained through competitive international PhD scholarship schemes at UQ. For more information about these schemes and formal requirements for PhD students as well as about the School of Biological Sciences at UQ, see below.

Interested candidates should send a cover letter describing their motivation and research interests, CV, copy of degrees, and contact information for two academic references to: j.engelstaedter@uq.edu.au. Applications close on 31 August 2014.

Qualifications Applicants require a Bachelor's degree with Honours, Master of Science, MPhil or equivalent degrees. Australian and New Zealand applicants must have received first class Honours degrees. Several competitive scholarship schemes exist at the University of

Queensland. The UQ Graduate School website provides further information on the entry requirements for admission to the PhD program (<http://www.uq.edu.au/grad-school/our-research-degrees>) and scholarship details. Individuals successful in gaining a tuition-fee waiver scholarship usually also obtain a living stipend. For further information on the UQ application process please contact the Postgraduate Administration Officer Gail Walter (gj.walter@uq.edu.au).

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

— Jan Engelstaedter School of Biological Sciences The University of Queensland Brisbane QLD 4072 Australia
phone: +61 7 336 57959 fax: +61 7 336 51655 <http://engelstaedterlab.org/> j.engelstaedter@uq.edu.au

UQueensland SpeciationTheory

We invite applications for a PhD position in theoretical evolutionary genetics at The University of Queensland (Brisbane, Australia).

The successful applicant will be jointly supervised by Dr. Jan Engelstädter and Dr. Daniel Ortiz-Barrientos and will work on the role of recombination during speciation. The goal of this funded project is to develop mathematical and computational models investigating how recombination rates are expected to evolve during speciation with gene flow and how this in turn affects the evolution of divergence and reproductive isolation. The project will be tightly linked to an empirical study system (the *Senecio latus* species complex) and benefit from, and in turn inform, ongoing whole genome sequencing and mapping projects in this species. For more details about our research, see <http://engelstaedterlab.org> and

<http://www.ortizbarrientoslab.me>.

We are looking for a motivated student with strong quantitative skills and background in either evolutionary genetics or mathematical modelling. Candidates with non-biology degrees (mathematics, physics, computer science) are encouraged to apply. Good communication skills, scientific curiosity and enthusiasm for research in evolutionary biology are essential.

Australian students interested in these positions are expected to be eligible for APA scholarships. For overseas students, funding can be obtained through competitive international PhD scholarship schemes at UQ. For more information about these schemes and formal requirements for PhD students as well as about the School of Biological Sciences at UQ, see below.

Interested candidates should send a cover letter describing their motivation and research interests, CV, copy of degrees, and contact information for two academic references to: j.engelstaedter@uq.edu.au. Applications close on 31 August 2014.

Qualifications Applicants require a Bachelor's degree with Honours, Master of Science, MPhil or equivalent degrees. Australian and New Zealand applicants must have received first class Honours degrees. Several competitive scholarship schemes exist at the University of Queensland. The UQ Graduate School website provides further information on the entry requirements for admission to the PhD program (<http://www.uq.edu.au/grad-school/our-research-degrees>) and scholarship details. Individuals successful in gaining a tuition-fee waiver scholarship usually also obtain a living stipend. For further information on the UQ application process please contact the Postgraduate Administration Officer Gail Walter (gj.walter@uq.edu.au).

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

— Jan Engelstaedter School of Biological Sciences The University of Queensland Brisbane QLD 4072 Australia phone: +61 7 336 57959 fax: +61 7 336 51655 <http://www.ortizbarrientoslab.me>

[/engelstaedterlab.org/](http://engelstaedterlab.org/) j.engelstaedter@uq.edu.au

USouthampton NHM London SpeciationGenomics

Graduate position: U.Southampton/NHM.London.SpeciationGenomics

Mark Chapman (Centre for Biological Sciences, University of Southampton) and Mark Carine (Department of Life Sciences, Natural History Museum) are looking for a PhD student to study speciation genomics in a group of Macaronesian plants.

The evolutionary outcomes of hybridisation can range from being of little consequence to the origin of entirely new species. In some cases, hybridisation is rare, but if the hybrids exhibit adaptation to a novel habitat they can be maintained as a new species. These scenarios are ideal for understanding the intersection between adaptation, migration, hybridisation and speciation.

Of particular value to these studies is using Next Generation Sequencing (NGS) to assay the expressed portion of the genome (the transcriptome), simultaneously providing gene expression and sequence polymorphism data for thousands of genes. Firstly, this allows detection of differentially expressed loci that underlie adaptive divergence between differentially adapted or independently evolved taxa. Secondly, the genetic signatures of sequence-based adaptive divergence can be investigated by assaying polymorphism and divergence between species, identifying loci with non-neutral patterns of sequence polymorphism. In the past, such analyses were only possible for model organisms; however one can now study non-model organisms, in prime ecological and evolutionary scenarios, to investigate the genetic control of these phenomena.

Isolated oceanic archipelagos are natural laboratories of evolution, ideally suited for in situ studies of speciation. The volcanic oceanic archipelagos of Macaronesia (the Azores, Madeira, Canaries and Cape Verde Islands) are a notable example, demonstrating a high degree of endemism, and spectacular examples of evolutionary radiations with geographic isolation, habitat shifts and hybridisation all contributing to the rapid diversification of endemic lineages. The endemic genus *Argyranthemum* (Compositae) provides an excellent example of a Macaronesian radiation, comprising twenty-four species that have evolved following a single colonisation of the region. As with many Macaronesian endemic lineages,

phylogenetic relationships are not fully resolved and hence any efforts to study speciation processes will require an accurate phylogenetic and population genetic understanding of the species involved. *Argyranthemum* also provides a rare, well-documented case of homoploid hybrid speciation with the hybrid species *A. sundingii* derived on multiple occasions from *A. frutescens* and *A. broussonetii*. This makes *Argyranthemum* an ideal biological scenario to understand multiple evolutionary phenomena in concert.

If you are interested in this studentship and would like more information (please take note of the nationality requirements, funding situation and other requirements) please take a look at http://www.nhm.ac.uk/resources-rx/files/carine_chapman-project-132564.pdf Dr. Mark A. Chapman M.Chapman@soton.ac.uk +44 (0)2380 594396

Centre for Biological Sciences University of Southampton Life Sciences Building 85 Highfield Campus Southampton SO17 1BJ

“Chapman M.” <M.Chapman@soton.ac.uk>

USunshineCoast Australia SexualSelectionSociality

Can sexual selection drive social evolution? Insights from male dragons.

While we know that access to mate can lead to the evolution of male coalition and alliances, our understanding of the extent sexual selection can shape social relationships is still unclear. Systems which exhibit alternative mating strategies offer great opportunities to gain greater insights into the ways by which differing mating strategies may influence patterns of social interactions and environment. This phd project will utilize the eastern water dragon (*Intellagama lesueurii*) as a study system to investigate the extent to which sexual selection can shape social relationships. The project will combine the fields of genetics and behavioural ecology. Eastern water dragon is a large social, semi-aquatic and arboreal agamid lizard (Agamidae), native to Australia. Eastern water dragons exhibit elaborate social behaviours and a harem like mating system with males engaging in ritualised combat during the mating season (spring to late summer). Two types of male mating tactics have been described to date; males either exhibit strong territorial or non-territorial satellite behaviour.

The study site is found within the Roma Street Parkland (RSP) (27° 27' 46" S, 153° 1' 11" E) located in Brisbane, Queensland, Australia. RSP is a 16 hectare park and is the world's largest subtropical garden in a city centre. It is also host to a large population of Eastern water dragons with a population size estimated to exceed 600 animals (Gardner et al. PLoS ONE doi:10.1371/journal.pone.0096992). Ecological, behavioural surveys have been conducted on this population since October 2010 with morphological and DNA samples collected from more than 350 animals.

Applicants will need to have an extremely competitive academic record and obtain an Australian Postgraduate Award or International Research and Fee Remission Scholarships (for details and scholarship application forms <http://www.usc.edu.au/research/research-students/hdr-scholarships>). Scholarship round is open now and will close by October 4th. I would expect international applicants to hold a master and have at least one publication. Australian applicants will require a first class honours degree.

If you are interested please email me your CV at cfrere@usc.edu.au. You can check my website (www.celinefrerelab.com) if you wish to get more information about the work that is undertaken in my lab.

Celine Frere PhD Research Fellow GeneCology Research Centre University of the Sunshine Coast mobile: 0423312893 celinefrerelab.com

University of the Sunshine Coast, Locked Bag 4, Maroochydore DC, Queensland, 4558 Australia. CRICOS Provider No: 01595D Please consider the environment before printing this email. This email is confidential. If received in error, please delete it from your system.

Celine Frere <cfrere@usc.edu.au>

WageningenU FungalDomestication

Re-domesticating an ancient domesticated fungus

A 4-year PhD position is available in my lab at Wageningen University in The Netherlands, starting fall 2015. This NWO funded project will study adaptations of the *Termitomyces* fungi cultivated by fungus-growing termites to a symbiotic lifestyle. The work will use *in vitro* microbial techniques to study life-history traits (mycelial growth and asexual spore production and details of enzyme production) of *Termitomyces* strains, followed by genetic analyses. We have a collection of

more than 100 *Termitomyces* strains, associated with the three most common genera of fungus-growing termites and recently the genome of one strain has been sequenced. The primary goal of this project is to gain fundamental insight in functional aspects of coevolution and mutualistic symbiosis. Ultimately, this knowledge may be used for the artificial cultivation of the highly valued mushrooms formed by *Termitomyces*. Attempts to cultivate this fungus have been unsuccessful, because essential knowledge of the mutualistic relationship with termites is still lacking.

Summary

Knowledge of division of labour between interacting species is required to understand their interdependence in mutualistic relationships, but also to be able to grow mutualistic species in isolation. This second aspect is of applied interest to cultivate organisms that already have been domesticated by other species. Examples of 're-domestication' exist in nature, but humans have not employed this approach yet. A promising possibility for re-domestication is provided by the obligate mutualistic symbiosis between termites and *Termitomyces* fungi. The mushrooms formed by *Termitomyces* are the most protein-rich mushrooms known, and highly appreciated as a wild food source in many African countries. Unfortunately, attempts to cultivate this fungus have been unsuccessful, because essential knowledge of the mutualistic relationship with termites was lacking until recently. The objectives of this proposal are i) to establish division of labour in substrate degradation between termites and *Termitomyces*; ii) to establish variation in the growth requirements between *Termitomyces* strains, and, iii) to establish the factors that initiate mushroom formation. We will use the recently sequenced genome of *Termitomyces* for in-depth analysis of the genes expressed during different stages of the fungal life cycle, screen our culture collection on a standard set of 35 carbon sources and select strains for further research. The fundamental knowledge gained in this project on the evolution of division of labour in mutualisms will go hand-in-hand with the knowledge required for artificial cultivation of *Termitomyces* by humans.

Informal enquiries can be addressed to: Duur Aanen, Tel: +31 (0)317 483144, Email: duur.aanen@wur.nl

Duur Aanen Laboratory of Genetics Wageningen University and Research Center The Netherlands Tel. +31(0)317 483144 Mobile: +31 (0)6 10327948 Fax: +31 (0)317 483146 <http://www.gen.wur.nl/UK/Staff/Scientific%20Staff/Duur+Aanen> Wageningen University and Research centre (Wageningen UR) is a leading international organization. Within the field of healthy nutrition and living environment we are working on the quality of life. We are always looking for talented colleagues. Professionals with passion who want to work with us for the world of tomorrow.

The interrelationship between genetics, heredity and evolution is the focus of research of the Laboratory of Genetics (LoG). Central is the study of genetic variation that ranges from the processes that produce it (mutation, recombination), to the factors that have shaped its architecture in the past, and to the factors and processes that determine its fate. Our current research focus can be captured in the following three themes, (1) Generating variation; (2) Genetics and levels of selection, and (3) Genetics of adaptations. Within these themes we can retain and expand on our national and international reputation as a key research group with a unique focus on fundamental and applied aspects of genetics and heredity.

Because evolutionary theory applies to all life forms, and heredity is a key characteristic of life, the genetic and evolutionary analysis of biodiversity requires a broad range of model species that span the major kingdoms. Therefore, the LoG uses prokaryotes (bacteria) and eukaryotes from yeast, fungi, to animals (*Drosophila melanogaster*) and plants (*Arabidopsis thaliana*). All our systems are characterized by the ease of laboratory rearing and by the availability of a plethora of genetic and phenotypic tools for experimental manipulation.

Our strength is that we study both fundamental mechanism of genetics as well as the more inclusive mechanisms of heredity (e.g. cytogenetics, epigenetics, regulation of gene expression) and how this influences

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AlbertEinsteinCMedicine NY CompBiology

The Albert Einstein College of Medicine, one of the leading medical schools in New York City, is seeking to fill multiple tenure track faculty positions in the newly formed Department of Systems and Computational Biology. Established in April 2008, the main goal of the new department is to advance our understanding of living systems by developing theoretical, computational, and experimental approaches to study complex biological systems.

The Albert Einstein College of Medicine, has 750 medical students, 325 graduate students and 360 post-

doctoral fellows in training and boasts a strong research faculty covering broad areas of experimental biology, offering outstanding opportunities for collaborative interactions. The 200,000 square foot Price Center for Genetic and Translational Medicine at Einstein, which opened in late 2007, locates computational, systems, and experimental scientists in physical proximity to foster interdisciplinary communication and collaboration. Highly competitive start-up packages are available.

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

Candidates should have strength in a physical, mathematical, or computational field at the Ph.D. or equivalent level. Experience applying these skills to a biological or biomedical area (demonstrated through publications or support) is also required.

Areas of interest that would be advantageous, but not required, are: Systems and Computational Neuroscience visual processing, cortical computation, or population coding; Systems Evolutionary Biology; and Mathematical and Computational Modeling of Complex Traits.

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

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

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

Yeshiva University is an equal opportunity employer committed to hiring minorities, women, individuals with disabilities and protected veterans.

Lane Saucier Administrator and Assistant to Dr. Bergman
Systems and Computational Biology Price Center Room 153
Phone 718-678-1115 Fax 718-678-1018
lane.saucier@einstein.yu.edu

SYSBIO <sysbio@einstein.yu.edu>

ArizonaStateU Programmer

The Cartwright Lab at Arizona State University is looking for a Software Application Associate to design, construct, test, document, and maintain software packages. We currently have software development projects involving phylogenomics, mutational genomics, and evolution.

ESSENTIAL DUTIES: Work in a collaborative environment to design, construct, test, document, and maintain software packages. Typical projects involve implementing high-performance algorithms for the statistical analysis of large genomic datasets for studying questions related to evolution and population genetics. Ability to translate software prototypes from Perl, Python, Java, etc. into C/C++ is preferred.

MINIMUM QUALIFICATIONS: Bachelor's degree in Statistics, Mathematics, Computer Science or related field AND two years of experience in software application development, including writing computer code in one or more programming languages; OR, any equivalent combination of experience and/or education from

which comparable knowledge, skills and abilities have been achieved.

TO APPLY: See the full ad: <http://-phoenix.jobing.com/software-application-associate/-job/4746091> – Reed A. Cartwright, PhD Assistant Professor of Genomics, Evolution, and Bioinformatics School of Life Sciences Center for Evolutionary Medicine and Informatics The Biodesign Institute Arizona State University Address: The Biodesign Institute, PO Box 875301, Tempe, AZ 85287-5301 USA Packages: The Biodesign Institute, 1001 S. McAllister Ave, Tempe, AZ 85287-5301 USA Office: Biodesign A-224A, 1-480-965-9949 Website: <http://cartwrig.ht/rcartwri@asu.edu>

BGCI UnitedStates PlantDiversity

August 28, 2014

Dear Colleagues,

The United States branch of Botanic Gardens Conservation International (BGCI U.S.) is seeking a part-time Executive Director. The primary responsibilities of this position will be to increase financial support for BGCI's U.S. and international plant conservation programs and to participate in implementation of the BGCI U.S. strategic plan.

The position announcement be found at: <http://-www.bgci.org/resources/job/0649/> This is an exciting opportunity for an individual who shares BGCI's vision of protecting plant diversity and inspiring others to join in the effort. Please share this job description with potential candidates as well as colleagues who can help spread the word. Experienced professionals from outside the world of plant conservation - who can demonstrate relevant skills and success - will be considered. Thank you.

Dr. Jim Affolter, President Board of Directors, BGCI U.S. affolter@uga.edu

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BGCI is a registered charity and company, limited by guarantee, in England and Wales, and in the U.S. as a 501(c)(3) non-profit organization.

Registered UK address: Descanso House, 199 Kew

Road, Richmond, Surrey, TW9 3BW, UK, Charity number: 1098834, Company Number: 04673175

www.bgci.org Abby Hird Program Director
Botanic Gardens Conservation International U.S.
www.bgci.org/usa < <http://www.bgci.org/usa> >

at Rancho Santa Ana Botanic Garden 1500 N. College Ave, Claremont, CA 91711 Tel: (909) 625-8767 ext. 272

Abby Hird <abby.hird@bgci.org>

CIBIO Portugal HumanEvolutionaryGenetics

Human Evolutionary Genetics

CIBIO (<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 more than 150 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 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 town and the capital of Port wine.

We are now advertising a 1 year research contract funded by an FP7 CAPACITIES program (FP7-REGPOT-CT-2011-286431-CIBIO-New-gen) and expect to recruit an enthusiastic and highly motivated researcher in the area of Human Evolutionary Genetics.

The Human and Evolutionary Research Groups interests cover different research topics related to the evolutionary history of human genes and populations, using genome-wide sequencing and SNP data. A strong focus will be devoted to the demographic history of African populations, in particular to southern Angolan groups that are pivotal to understand the peopling of Southern Africa. A particular emphasis will be given to the analysis of spatial patterns of genetic variation. As an

additional topic, the work on Southern Angola will include the analysis of the genetic diversity of cattle and sheep breeds held by peoples relying on farming and herding to different extents.

The candidate is expected to have an interdisciplinary attitude, rather oriented towards data analysis than to data generation. Accordingly, s/he will have a sound knowledge of population genetics theory and master different kinds of data analysis software currently available to interpret human population genetic data. Additional computer programming skills will be considered an advantage. Applicants should have a PhD degree, and a good publication record in SCI journals. Fluency in English speaking and writing is required. As the candidate will be invited to participate in teaching at the MSc and PhD levels, teaching experience will be considered valuable. The selected candidate is expected to establish solid collaborations and be able to attract national and international funding.

Salary corresponds approximately to a gross annual income of 45000 euros (before taxes). The selected candidate is expected to start in October 1, 2014. Ending date is September 30, 2015. Another contract maybe offered depending on performance and availability of funds.

Applications should be sent to director@cibio.up.pt and include a detailed CV, a letter of motivation and research interests, and the contact of 3 referees. Candidates with outstanding curricula will be invited for a Skype interview.

Applications will be open until September 15, 2014, but will be reviewed at an on-going basis until the position is filled. There is no obligation to hire any of the candidates. CIBIO has an equal opportunity policy. We aim to ensure that no applicant receives less favorable consideration on the grounds of gender, marital status, race, age, color, nationality, ethnic origin or religious belief.

Job reference: HumanEvol NEWGEN

Informal enquiries can be made to: Dr. Natlia Dias Executive Coordinator of CIBIO Natalia.Dias@cibio.up.pt
Phone: +351 252660422

Natalia Dias <natalia.dias@cibio.up.pt>

**CityUNewYork
ComputationalBiology**

Brooklyn College Assistant Professor Computational Biology (Job ID 11210)

The Biology Department at Brooklyn College of the City University of New York invites applications for a tenure-track Assistant Professor in Computational Biology position beginning Fall 2015. The successful candidate will add research expertise to our growing group specializing in molecular and cell biology. The selected candidate is expected to develop a strong independent research program that is competitive for external grants, promotes collaborations, and trains Ph.D. students in the CUNY doctoral program.

Teaching at the undergraduate and graduate levels is also required. Any area of computational biology will be considered, including genomics, proteomics, bioinformatics, and molecular biostatistics.

Applicants should have a Ph.D. in Biology or a related field; at least two years of Post-doctoral research experience or equivalent; at least three peer-reviewed publications in the areas of Bioinformatics/Computational or Systems Biology; and experience with writing research grant proposals.

Review of applications will begin on October 30, 2014 and will continue until the position is filled.

For more information and to apply, please visit www.brooklyn.cuny.edu/facultyjobs . AA/EOE.

— Jennifer Tsui|HR Recruitment Coordinator|Brooklyn College / Office HRS|718-951-5131| JTsui@brooklyn.cuny.edu

Jennifer Tsui <JTsui@brooklyn.cuny.edu>

CollegeCharleston ArabidopsisManager 2

Updated from earlier post: link to the College of Charleston HR to submit applications now available.

<http://jobs.cofc.edu/postings/3192> The unPAK project (undergraduates Phenotyping Arabidopsis Knockouts - www.arabidopsisunpak.org) seeks a project manager to coordinate activities across 10 participating institutions. The unPAK project is collecting phenotypic information associated with Arabidopsis thaliana T-DNA insertion mutants and includes extensive involvement of undergraduate researchers. This project addresses broad questions in ecological genomics and is developing a phenotypic

resource for the Arabidopsis and evolutionary genomic communities.

The project manager will be responsible for communication between institutions, seed stock production, seed distribution, data curation, and management of participating undergraduates. The position will be located at the College of Charleston, and will involve travel to other participating institutions.

We seek a candidate who is organized, energetic, and has strong communication skills. A successful candidate will have professional, diplomatic and leadership qualities. Ideally the candidate will bring experience working in a field or laboratory setting with plants. The position has ample opportunities for developing management skills and for publishing research. Interested individuals with undergraduate, master's or doctoral degrees are welcome to apply.

Specific responsibilities

- distribution of protocols to new partner schools - travel to institutions to train participants in phenotyping and data management - grow plants with student help to bulk seeds for distribution - maintain seed-stock records - coordinate seed stocks to be shipped. - maintain of tissue and genotype records - assist PI and CoPIs with maintaining CURE (course-based undergraduate research experience) plants - format datasheets for downstream bioinformatics analyses - upkeep experiment log - maintain an already existing cyber-presence including the project website and the - project google wiki site - maintain contact information for all participants - initial training of students in lab procedures - contribute to newsletters, organize joint meetings (both virtual and in person) - podcast and vodcast development

For more information about the position, please contact us at:

Matt Rutter (rutterm@cofc.edu) Courtney Murren (murrenc@cofc.edu) Allan Strand (stranda@cofc.edu) Department of Biology College of Charleston Charleston SC USA

Courtney Murren Associate Professor Dept. of Biology 66 George Street College of Charleston Charleston SC 29424 murrenc@cofc.edu phone: 843-953-8077 research and outreach website: www.arabidopsisunpak.org Laboratory space during renovations: 321 SSMB Office space during renovations: 144 SSMB

“Murren, Courtney J” <MurrenC@cofc.edu>

Edinburgh LabTechDrosophila

Research Technician (Part-time or Full time)

Vacancy Ref: : 031148 Closing Date : 22-Sep-2014

An opportunity has arisen for a Research Technician in the Vale lab at the University of Edinburgh. The Vale lab is closely affiliated with the Centre for Immunity, Infection and Evolution, and works on the evolutionary ecology of infectious disease, focusing on the fruit fly *Drosophila* as model host of viral infection.

We are seeking an experienced research technician / research assistant who will contribute to the efficient day-to-day running of the lab, as well as to carry out experimental work.

The position has a diverse set of responsibilities, including:

- Routine rearing and maintenance of fly stocks.
- Conducting experiments in the molecular lab (RNA and DNA extraction, PCR, RT-PCR, and cell culture).
- Ordering of supplies and maintenance of basic equipment.
- Basic data analyses.

Good technical and laboratory skills are therefore highly desirable, although there will be ample opportunities to develop a range of techniques and skills. Further duties may include helping with evolution and infection experiments, collection of samples in the field and general support of the working group. Good interpersonal and communication abilities are therefore essential, as well as the ability to plan and organise work independently.

Prior experience working in a lab environment is highly advantageous.

The position is available from January 2015, initially for 2 years (part-time) or one year (full-time), although there is the possibility for extension. The annual salary is UE05 Å£21,391 - Å£24,775.

Informal inquiries can be made directly to Dr. Pedro Vale (pedro.vale@ed.ac.uk), but full applications must be made by following the link to the University of Edinburgh's recruitment website (or search for vacancy Ref 031148):

https://www.vacancies.ed.ac.uk/pls/corehrrecruit/-erq_jobspec_version_4.jobspec?p_id=031148

The online system allows you to submit a CV and other

attachments.

The closing date is 5pm GMT on 22 September.

For further information about our research, please see: <http://pedrovale.bio.ed.ac.uk> We look forward to receiving your application.

– Pedro F. Vale

Centre for Immunity, Infection and Evolution School of Biological Sciences, University of Edinburgh Ashworth Labs, Kings Buildings West Mains Road EH9 3JT Edinburgh Scotland, United Kingdom

pedro.vale@ed.ac.uk <http://pedrovale.bio.ed.ac.uk/>
Pedro Vale <pferrei2@staffmail.ed.ac.uk> Pedro Vale <pferrei2@staffmail.ed.ac.uk>

FreieU Berlin Metagenomics

Freie Universitaet Berlin Department of Mathematics and Computer Science Institute of Computer Science and the Leibniz Institute of Freshwater Ecology and Inland Fisheries (IGB)

invite applications for a Junior Professorship in Computational Metagenomics (W 1)

The successful applicant will be required to conduct research and teach in the area named above.

Appointment requirements are governed by article 102a of the Berlin Higher Education Act (Berliner Hochschulgesetz).

The appointee will have an outstanding track record of university teaching and research in metagenomics data analysis and bioinformatics as applied to environmental metagenomics and biodiversity research in general. Her or his work should further strengthen an innovative research program with high international visibility and focus on data analysis and algorithm development, interlinking with and complementing existing research initiatives at the IGB as well as Freie Universität Berlin. Applicants should be familiar with grant-sponsored research.

The successful candidate is expected to teach at both graduate and undergraduate levels within Freie Universitaet Berlin's Department of Mathematics and Computer Science. She or he will also be required to assume responsibilities within the university's institutions of academic self-governance. The working language at the IGB is English. For courses taught at Freie Universität

Berlin and in order to facilitate communication among our multicultural staff, proficiency in both German and English is strongly desirable.

Aside from a work area at the Department of Mathematics and Computer Science the professor's office and staff will be located at the IGB, the largest freshwater ecology institute in Germany, which offers cutting-edge laboratory and field facilities for interdisciplinary research (including a large-scale experimental infrastructure and long-term research programs). Furthermore, the successful candidate will cooperate closely with the Berlin-Brandenburg Institute of Advanced Biodiversity Research (BBIB).

The successful candidate will be appointed as a civil servant for an initial duration of three years. Provided that her or his performance is thereafter evaluated positively, employment may be extended for three more years.

Applications quoting the reference code "W1 Meta-Gen" should include a CV, copies of all certificates of academic qualification, a list of publications, evidence of teaching competence (such as courses previously taught) as well as of involvement in ongoing and future research endeavors, joint research projects and externally funded projects.

All materials, including a private postal and/or e-mail address must be received electronically and in hard copy no later than August 21st, 2014 at

Freie Universität Berlin Fachbereich Mathematik und Informatik Dekanat - Frau Üzel Arnimallee 14 14195 Berlin Germany

or via email at dekan@mi.fu-berlin.de

Further inquiries should be directed to Prof. Dr. Klement Tockner, Director of the IGB (tockner@igb-berlin.de), or Prof. Dr. Knut Reinert, Head of Bioinformatics at Freie Universitaet Berlin (knut.reinert@fu-berlin.de).

Application guidelines and general information on the appointment procedure as well as requirements for junior professorships at Freie Universität Berlin can be found at www.fu-berlin.de/praesidialamt . For additional details, please visit: www.igb-berlin.de www.fu-berlin.de www.mi.fu-berlin.de www.math-berlin.de www.math.tu-berlin.de/MDS www.begendiv.de monaghan@igb-berlin.de

GeorgetownU CommunityGenetics

Dear Colleagues,

The Georgetown University Department of Biology invites applications for a tenure-track position at the assistant professor level commencing in August of 2015. We seek a community ecologist focusing on topics such as: community genetics, mechanisms of community structure, the interplay of community and ecosystem dynamics, eco-evolutionary dynamics, and food web dynamics, using field/lab/computational approaches and working at any scale from microbes through ecosystems. We encourage applications from individuals whose scholarship will involve interactions with colleagues in social science, public policy, environmental health, law, or a combination of these areas; such interactions will be supported by the Georgetown Environment Initiative (<http://environment.georgetown.edu/>), a university-wide initiative to support environment-focused scholarship and teaching as well as multidisciplinary collaboration. In addition to establishing a vigorous, externally funded research program, the successful candidate will be expected to effectively teach and serve as a research mentor to the ecology, evolution, and behavior graduate and undergraduate students, including undergraduate Environmental Biology majors. Postdoctoral experience is expected.

The Department of Biology (<http://biology.georgetown.edu/>) is in the new, state-of-the-art Regents Hall in the Georgetown College of Arts & Sciences. Located in Washington, D.C., Georgetown University is committed to world-class research and teaching and benefits from close proximity to federal agencies including the U.S. Department of Agriculture, the National Science Foundation, and Smithsonian Institution, as well as several nearby research universities.

To apply, candidates should submit a single PDF that includes 1) a curriculum vitae, 2) a description of previous research training and accomplishments, 3) a plan for future research, 4) a statement of teaching and mentoring philosophy, and 5) a list of three or more references with contact information (no more than 2 pages per section, with the exception of the CV). Application materials should be submitted electronically to biology@georgetown.edu with 'ECOLOGY Application' as the subject. Review of application materials will

begin on October 15, 2014; please submit applications before this date for priority consideration. Funding for this position is dependent upon final approval by the University Provost.

Georgetown is an Equal Opportunity Educator and Employer fully dedicated to achieving a diverse faculty and staff.

Matthew B. Hamilton, PhD Chair, Georgetown Environment Initiative Steering Committee Associate Professor Georgetown University Department of Biology, Regents Hall 506 37th and O Streets NW Washington, DC 20057 202-687-5924 office 202-687-5662 fax 202-784-7105, 202-784-7181 lab <http://faculty.georgetown.edu/hamiltm1/> Matthew Hamilton <hamiltm1@georgetown.edu>

ber 2014 and January 2015. Funding is available for an initial first year, with renewal possible. Salary is \$30,000/year with benefits.

To apply, e-mail Dr. Scott Powell at scottpowell@email.gwu.edu with (1) your CV, (2) a statement of interest including a summary of your research experience and goals, (3) unofficial transcripts from your undergraduate institution, and (4) contact information for 3 references. Application deadline is rolling until the position is filled, with initial review starting September 1st 2014. For more information on work in our lab and our home department, please see <http://antinsights.net> and <http://biology.columbian.gwu.edu> respectively. For further details about the position, please contact Scott Powell directly.

scottpowell@email.gwu.edu

GeorgeWashingtonU ResAssist AntEvolution

A full-time research assistant position is available in the Powell Lab at the George Washington University, Washington DC. The work will focus on sorting and curating Turtle Ant (genus *Cephalotes*) specimens, and collecting and analyzing morphological data. The morphological data collection will span traditional linear measurements, 2D morphometrics, and 3D shape analyses. This work will play a major role in our ongoing work on the ecology of diversification in this remarkable group of ants.

Experience with curating ants or other insects is required, and applications from candidates with an existing interest in morphological evolution and/or functional ecology of insects are especially welcome. The successful candidate will be encouraged to play an active role in the scientific content and goals of ongoing work. The Powell Lab is part of the active and newly expanded Ecology and Evolutionary Biology group in the Department of Biological Sciences at the George Washington University. The University's location also allows for frequent interactions with the larger community of Evolutionary Biologists and Ecologists from the many other institutions in the Washington DC Metro area.

The minimum degree required for this position is BA/BS in biology or related field, with specialization in Evolutionary Biology and Ecology, Entomology, or related disciplines. The position is available immediately, but with the expected start date between Septem-

GettysburgC PhageEvolution

Gettysburg College Virology and Emerging Diseases

Assistant Professor of Biology V Tenure Track

Position Summary:

Gettysburg College invites applications for a tenure-track position at the rank of assistant professor in the Biology Department to begin Fall 2015. The successful candidate will teach our year-long research-intensive courses (Bio 113-114: Introduction to Phage Biology; Phage Bioinformatics) modeled on HHMI's SEAPHAGES program, upper division courses in area of specialization (e.g., Virology, Emerging Diseases) and will share teaching duties in our core biology sequence.

Qualifications:

Ph.D. in the Biological Sciences, commitment to teaching in the liberal arts tradition, and research that involves undergraduates are essential; post-doctoral experience is preferred. Candidates with a strong computational and/or systems biology dimension to their research and teaching are especially encouraged to apply.

Application Details:

Applicants should apply online at: <http://gettysburg.peopleadmin.com/postings/1022>. A curriculum vitae, cover letter, and a separate statement of the applicants teaching and research goals should be submitted electronically. In addition,

applicants should enter the names and email addresses of three professional references. After the applicant completes his/her on-line application, the professional references indicated will be contacted by Gettysburg College via email to submit letters of recommendation electronically. At least one of the letters of recommendation must address the applicants teaching effectiveness.

Review of applications will begin on September 26, 2014, and will continue until a successful candidate is found. Letters of recommendation must be received by October 3, 2014.

Inquiries can be addressed to Dr. Kazuo Hiraizumi at hiraizum@gettysburg.edu.

Gettysburg College is a highly selective liberal arts college located within 90 minutes of the Baltimore/Washington metropolitan area. Established in 1832, the College has a rich history and is situated on a 220-acre campus with an enrollment of approximately 2,600 students. Gettysburg College celebrates diversity and welcomes applications from members of any group that has been historically underrepresented in the American academy. The College assures equal employment opportunity and prohibits discrimination on the basis of race, color, national origin, gender, religion, sexual orientation, gender identity, gender expression, age, and disability.

Ryan Kerney <rkerney@gettysburg.edu>

IGC Portugal Group Leader Evolutionary Biology

Group Leader Positions

Instituto Gulbenkian de Ciência

The Instituto Gulbenkian de Ciência < <http://www.igc.gulbenkian.pt/> > invites interest from scientists, at any career stage, in full-time research positions as Group Leaders.

The IGC supports a wide range of research in evolutionary biology, inflammation, immunity and host-pathogen interactions, cell and developmental biology, computational biology and the analysis of complex biological systems < http://www.igc.gulbenkian.pt/pages/groups.php/A=143___collection=article___group=1 >. Research bridging fields will be considered favourably. In partic-

ular, the IGC is keen to develop research programmes on the role of the microbiota and the autonomic nervous system in the control of metabolism and inflammation.

Appointments will normally be for 5 years in the first instance with the possibility of extension; at later career stages the IGC may offer indefinite rolling contracts with periodic review.

Full length text of the call at: http://www.igc.gulbenkian.pt/pages/facilities.php/A=316___collection=article <http://bit.ly/1mKo6X4> Selection procedure at: http://www.igc.gulbenkian.pt/pages/facilities.php/A=317___collection=article <http://bit.ly/TDhW3S> Online applications at: <http://applicants.igc.gulbenkian.pt> Formal enquiries at: applicants@igc.gulbenkian.pt

Informal enquiries at: http://www.igc.gulbenkian.pt/pages/groups.php/A=143___collection=article___group=1 <http://bit.ly/1iW7G3k> For further information about the IGC visit: Website: www.igc.gulbenkian.pt Videos: <http://bit.ly/1q42T1I> <http://bit.ly/1nAV6lH> EU-Life Consortium: eu-life.eu saranlcarvalho@gmail.com

IndianaU Genomics

Faculty Position in Genomics The Genome, Cell, and Developmental Biology Program at Indiana University invites applications for a tenured/tenure-track faculty position in Genomics at the level of assistant professor. Candidates should have well-developed research programs that apply cutting-edge genomic approaches to investigate the molecular mechanisms underlying important aspects of eukaryotic biology, including gene regulation, epigenetics, development, or evolution. More senior candidates with outstanding credentials in research and extramural funding may also be considered. The Department of Biology (<http://www.bio.indiana.edu>) and affiliated departments and programs represent more than 60 research labs housed in 3 adjacent buildings, providing ample opportunities for collaboration. The applicant will have access to outstanding resources including state-of-the-art facilities for genomics and bioinformatics, light and electron microscopy, flow cytometry, biophysical instrumentation, and computing.

Applicants must hold a Ph.D. degree and have relevant

postdoctoral experience with a strong record of research accomplishments. Faculty members are expected to establish vigorous well-funded research programs and to participate in undergraduate/graduate education. Applications received by October 15, 2014 will be assured of full consideration. Applicants should submit a cover letter, CV, research statement (past, present, and planned), up to three PDFs of re-prints/pre-prints, and arrange for three letters of references to be submitted at <http://indiana.peopleadmin.com/postings/957>. Please address inquiries to Jennifer Tarter at 812-856-3984; jenjones@indiana.edu; 1001 E. Third Street, Bloomington, IN 47405-3700. Indiana University is an equal employment and affirmative action employer and a provider of ADA services. All qualified applicants will receive consideration for employment without regard to age, ethnicity, color, race, religion, sex, sexual orientation or identity, national origin, disability status or protected veteran status.

Jennifer Tarter Administrative Assistant to the Chair
Department of Biology Indiana University

“Tarter, Jennifer A” <jenjones@indiana.edu>

LouisianaTechU PlantEvolution

Faculty Position: Biologist:

The School of Biological Sciences at Louisiana Tech University invites applications for a tenure-track, 9-month, Assistant Professor position. We seek a broadly-trained collaborative applicant that is committed to both research and teaching. Applicants, whose research areas include plant biology, developmental biology, and/or toxicology, are encouraged to apply. The successful applicant will teach and mentor undergraduate and graduate students in support of our degree programs, including our environmental science program. In addition, the successful applicant will be expected to establish and maintain an externally funded research program involving graduate and undergraduate students. This position requires a Ph.D. in biology or a related relevant field, prior teaching and postdoctoral experience is a plus. Position is available to begin September 1, 2015.

Louisiana Tech University is a comprehensive selective-admissions public university that is recognized by US News and World Report as a Tier One National University and by the Carnegie Foundation as a Research University/High Research Activity (RU/H). It is located

in Ruston, a small college town of 22,000 residents in North Louisiana. Our School of Biological Sciences is a dynamic, collegial unit with 21 faculty and approximately 480 undergraduate and 50 graduate students (M.S. and Ph.D.).

To apply, email application letter, curriculum vitae, separate statements of research interests/plans and teaching interest/philosophy, and names and contact information including email addresses for three references, to William Campbell, Chair of Search Committee (campbell@latech.edu). Review of applications begins September 22, 2014, and will continue until position is filled. Louisiana Tech University is a member of the University of Louisiana System, AA/EOE. All qualified applicants are encouraged to apply, including minorities, women, veterans and individuals with disabilities.

manesstj@wfu.edu

MichiganStateU ChairEvolutionaryPlantBiol

Chairperson, Department of Plant Biology Michigan State University

Michigan State University invites applications and nominations for the position of Chairperson of the Department of Plant Biology. The Chair would lead an internationally recognized department with a long history of university commitment to excellence in the Plant Sciences. The Department has more than 30 faculty members, strong graduate and undergraduate programs, and a supportive administrative and technical staff. It is built on the concept of integrating all sub-disciplines of plant biology, ranging from evolution and ecology to cellular, molecular and genomic biology. Research is conducted in modern research facilities on campus and at field sites across Michigan and throughout the world. The department includes faculty affiliated with the Kellogg Biological Station, the MSU Department of Energy Plant Research Laboratory, and the Great Lakes Bioenergy Research Center.

The Chair is expected to provide leadership and to promote a creative environment that fosters innovation and excellence in research and teaching/educational programs in Plant Biology. Candidates must possess an established record of strong scholarship in a relevant field, proven academic leadership, and strong interper-

sonal skills. Continuation of an active research program is encouraged and will be supported. Candidates should be qualified to hold the rank of tenured Full Professor. Applicants should submit: a complete curriculum vitae; a statement of interest highlighting specific strengths related to this position, including research and administrative experience and accomplishments; and the names of three references (who will be contacted only with your permission). Every effort will be made to maintain confidentiality until a list of candidates for interviewing is determined. All materials should be assembled into one PDF and uploaded to: <https://jobs.msu.edu> for position #9727.

Review of applications will begin October 15, 2014, and will continue until the position is filled. Questions regarding the position may be sent to the Chair of the search committee, at PLBChairsearch@plantbiology.msu.edu.

MSU is an affirmative-action, equal-opportunity employer and is committed to achieving excellence through diversity. The University actively encourages applications of women, persons of color, veterans, and persons with disabilities, and we endeavor to facilitate employment assistance to spouses or partners of candidates for faculty and academic staff positions.

“LaClair, Stacy” <Laclairs@plantbiology.msu.edu>

MichiganStateU LabTech PlantEvolution

Michigan State University Lab Tech: Plant Biology

The Schemske lab (Department of Plant Biology) is seeking a full time lab technician for a research project investigating the genetic basis of adaptation in the model plant *Arabidopsis thaliana*. Primary duties include 1) implementation of experiments in growth chambers and greenhouses 2) supervision of undergraduate assistants 2) plant care, breeding, and seed harvesting, and 3) DNA extraction and genotyping. Experience with molecular methods is preferred but is not required.

This is initially a 9-month, full time professional aid position (no benefits) with the possibility of extension. Preferred start date is October 1 2014. Salary will be commensurate with experience. A bachelor’s degree is required and a background in biology is preferred.

Applicants should include a cover letter describing pre-

vious experience, a resume, and the names and contact information of two references. Review of applications will begin immediately and will continue until the position is filled. Applications should be sent to Chris Oakley: coakley@msu.edu

Christopher G Oakley <coakley@msu.edu>

MuseumNatSci Raleigh CrustaceanCurator

Working Title: Research Curator, Crustaceans Position: Natural Science Research Curator II

Vacancy Number: 60035024

Description of Work: This position of Research Curator, Crustaceans, has several areas of responsibility, including: 1. Development of original scientific research programs in Crustacean systematics (taxonomy, phylogenetics), genomics, ecology, and/or related fields; research programs may have local, regional, and/or international focus and will include pursuit of external research funding, data generation and analyses, and publication/dissemination of results; some aspects of this research should, ideally, include collaborations with other agencies, universities, and/or citizen scientists. 2. Curatorial responsibilities for the Crustacean Research Collection, including maintenance and growth of collection, migrating collections data to database format, specimen loan activities, and setting curatorial best-practice guidelines for collection. 3. Operational management and administration of the Crustacean Unit, a subdivision of the Research & Collections section; duties include supervision of laboratory with oversight of equipment, budgets, and personnel. 4. Participation in science communication initiatives, including participation in Museum educational programming, delivering public science-based presentations, interacting with Museum visitors, serving as a role model for students and citizen scientists, and creating programmatic themes that raise the science literacy of visitors.

A successful candidate will have the following knowledge, skills and abilities: (1) Considerable taxonomic/systematic knowledge of Invertebrates, in general, and of Crustaceans, specifically (2) Experience applying principles and practices of research, with special expertise in at least one aspect of Crustacean systematics (taxonomy, phylogenetics), genomics, ecology, and/or related fields (3) A demonstrated mastery of materials, equipment, and techniques used in rel-

evant research (laboratory based protocols and fieldwork) and specimen collection curatorial activities (4) A demonstrated track record of effective and creative science communication to diverse audiences (5) Experience managing/supervising research projects, a research laboratory, and/or personnel (6) Experience in preparing grant proposals to fund biological research and/or administering budgets supporting research or collections-related activities (7) Experience in publishing technical science papers in peer-reviewed journals

Training and Experience Requirements: Required: A Master's degree in biology, zoology, or related science field and three years of experience in specialty area; or an equivalent combination of education and experience.

Preferred: A Ph.D. in biology, zoology, or related science field.

Applicants should attach: a current CV; contact information for 3 personal references; and a vision statement outlining their short and long term research goals, their approach to collection curation, and their philosophy and objectives regarding science communication.

For more information and application instructions, see: <http://tinyurl.com/mealazb> Jason R. Cryan, Ph.D. Deputy Museum Director, Research & Collections North Carolina Museum of Natural Sciences 11 W. Jones Street Raleigh, NC 27601

Phone: (919) 707-9933 Fax: (919) 715-2614
email: jason.cryan@naturalsciences.org Museum
Website: www.naturalsciences.org Research Website: www.planthopper.com "Cryan, Jason R" <Jason.Cryan@naturalsciences.org>

North Carolina MNS Ichthyology Curator

Working Title: Research Curator, Ichthyology Position: Natural Science Research Curator II

Vacancy Number: 60034991

Description of Work: This position of Research Curator, Ichthyology, has several areas of responsibility, including: 1. Development of original scientific research programs in ichthyological systematics (taxonomy, phylogenetics), genomics, ecology, and/or related fields; research programs may have local, regional, and/or international focus and will include pursuit of external research funding, data generation and analyses, and

publication/dissemination of results; some aspects of this research should, ideally, include collaborations with other agencies, universities, and/or citizen scientists. 2. Curatorial responsibilities for the Ichthyology Research Collection, including maintenance and growth of collection, migrating collections data to database format, specimen loan activities, and setting curatorial best-practice guidelines for collection. 3. Operational management and administration of the Ichthyology unit, a subdivision of the Research & Collections section; duties include supervision of laboratory with oversight of equipment, budgets, and personnel. 4. Participation in science communication initiatives, including participation in Museum educational programming, delivering public science-based presentations, interacting with Museum visitors, serving as a role model for students and citizen scientists, and creating programmatic themes that raise the science literacy of visitors.

A successful candidate will have the following knowledge, skills and abilities: (1) Considerable taxonomic/systematic knowledge in Ichthyology, in general, and of North Carolina and South Eastern United States fishes, specifically (2) Experience applying principles and practices of research, with special expertise in at least one aspect of fish systematics (taxonomy, phylogenetics), genomics, ecology, and/or related fields (3) A demonstrated mastery of materials, equipment, and techniques used in relevant research (laboratory based protocols and fieldwork) and specimen collection curatorial activities (4) A demonstrated track record of effective and creative science communication to diverse audiences (5) Experience managing/supervising research projects, a research laboratory, and/or personnel (6) Experience in preparing grant proposals to fund biological research and/or administering budgets supporting research or collections-related activities (7) Experience in publishing technical science papers in peer-reviewed journals

Training and Experience Requirements: Required: A Master's degree in biology, zoology, or related science field and three years of experience in specialty area; or an equivalent combination of education and experience.

Preferred: A Ph.D. in biology, zoology, or related science field.

Applicants should attach: a current CV; contact information for 3 personal references; and a vision statement outlining their short and long term research goals, their approach to collection curation, and their philosophy and objectives regarding science communication.

For more information and application instructions, see: <http://tinyurl.com/p69lpyj> Jason R. Cryan, Ph.D. Deputy Museum Director, Research & Collections

North Carolina Museum of Natural Sciences 11 W.
Jones Street Raleigh, NC 27601

Phone: (919) 707-9933 Fax: (919) 715-2614
email: jason.cryan@naturalsciences.org Museum
Website: www.naturalsciences.org Research Web-
site: www.planthopper.com "Cryan, Jason R"
<Jason.Cryan@naturalsciences.org>

"Stuart, Bryan" <bryan.stuart@naturalsciences.org>

NorthDakotaStateU PlantGenomics

ASSISTANT PROFESSOR - PLANT ECOLOGICAL OR EVOLUTIONARY GENOMICS

Department of Biological Sciences, North Dakota State
University

The Department of Biological Sciences invites applica-
tions for a tenure-track Assistant Professor position to
begin fall 2015. We seek applicants whose primary re-
search interests are plant or plant-microbial biology us-
ing ecological genomics, evolutionary genomics or bioin-
formatics. We welcome applicants studying at all levels
of inquiry from genetic, molecular or cellular mecha-
nisms to community, landscape or ecosystem-level func-
tions. Candidates must have a Ph.D. from an accred-
ited institution in a discipline appropriate to the bio-
logical sciences and relevant post-doctoral experience.
The successful candidate will be expected to develop an
extramurally funded research program, supervise grad-
uate students, and teach one course per semester at the
undergraduate or graduate levels.

All application materials must be submitted electron-
ically at <https://jobs.ndsu.edu/postings/5226>. Appli-
cation materials include: a curriculum vitae; a maxi-
mum two-page description of research interests; a maxi-
mum two-page statement of teaching interests and phi-
losophy; and contact information for three professional
references. Review of applications will begin Septem-
ber 15, 2014 and continue until the position is filled.
Visit <http://www.ndsu.edu/biology> for additional de-
tails. NDSU is an EO/AA Employer and an AD-
VANCE institution; Women & traditionally underrep-
resented groups are encouraged to apply.

julia.bowsher@ndsu.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 Organ-
ismal Biology (EEOB) and the Department of Entomol-
ogy of The Ohio State University seek applicants for
The Martha N. and John C. Moser Chair in Arthro-
pod Biosystematics and Biological Diversity. We seek
a colleague taking a lineage-focused approach to ques-
tions in evolution and ecology of terrestrial or freshwa-
ter arthropods. We are especially interested in those
scientists using novel approaches and those who en-
hance existing strengths of the departments and the
Museum of Biological Diversity in phylogenetic system-
atics, species discovery and description, biodiversity in-
formatics, 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 recog-
nized, externally funded research program that includes
opportunities for graduate and undergraduate students.
Teaching duties will include graduate-level classes in in-
sect 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 appli-
cants at the level of either Assistant or Associate Profes-
sor. 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 re-
sources for initial laboratory development and a collab-
orative, 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

OklahomaStateU EvolutionaryBiol

The Department of Zoology at Oklahoma State University (<http://zoology.okstate.edu>) invites applications for a tenure-track position at the ASSISTANT PROFESSOR level in EVOLUTIONARY BIOLOGY with research experience in bioinformatics, genomics, or physiology, preferably with teaching and curatorial interests in ichthyology or herpetology. Candidates must have a Ph.D. or equivalent, post-doctoral or equivalent research experience, teaching experience, and success in obtaining extramural funding. Responsibilities will include establishing vibrant, extramurally funded research programs, successfully mentoring graduate students, and effectively teaching undergraduate and graduate courses. Candidates should e-mail a single pdf document containing: cover letter, CV, research statement, and teaching statement, to evolutionarybiolsearch2014@okstate.edu. Candidates must also arrange to have three letters of recommendation emailed to the appropriate addresses above. Application review will begin September 12, 2014 with employment slated for August 2015; hiring is subject to available funding. OSU 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 smoke free campus.

Polly Campbell Assistant Professor Department of Zoology 508 Life Sciences West Oklahoma State University Stillwater, OK 74078

Phone: 405.744.1715 Fax: 405.744.7824 <http://pollycampbell5.wix.com/campbell-lab> “Campbell, Polly” <polly.campbell@okstate.edu>

OklahomaStateU TeachingEvolution

The Department of Zoology at Oklahoma State University (<http://zoology.okstate.edu>) invites applications for a tenure-track position at the ASSISTANT PROFESSOR level in BIOLOGY EDUCATION with research experience in teaching or learning at the college level, and teaching interests in anatomy and physiology. Candidates must have a Ph.D. or equivalent, post-doctoral or equivalent research experience, teaching experience, and success in obtaining extramural funding. Responsibilities will include establishing vibrant, extramurally funded research programs, successfully mentoring graduate students, and effectively teaching undergraduate and graduate courses. Candidates should e-mail a single pdf document containing: cover letter, CV, research statement, and teaching statement, to biologyedsearch2014@okstate.edu. Candidates must also arrange to have three letters of recommendation emailed to the appropriate addresses above. Application review will begin September 12, 2014 with employment slated for August 2015; hiring is subject to available funding. OSU 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 smoke free campus.

Polly Campbell Assistant Professor Department of Zoology 508 Life Sciences West Oklahoma State University Stillwater, OK 74078

Phone: 405.744.1715 Fax: 405.744.7824 <http://pollycampbell5.wix.com/campbell-lab> “Campbell, Polly” <polly.campbell@okstate.edu>

OmahaZoo ResAssist Genetics

Job: Genetics Research Assistant_Omaha's Henry Doorly Zoo & Aquarium

Applications are invited for a Laboratory Technician in the Conservation Genetics Department at Omaha's Henry Doorly Zoo & Aquarium (<https://workforcenow.adp.com/jobs/apply/posting.html?client=omahazoo>). The Laboratory Technician will participate in ongoing molecular and bioinformatics research. Importantly, the technician will utilize sophisticated computer programs during the analysis of datasets from next generation sequencing. This technician will develop high-throughput solutions to improve scalability of in-house genetic interpretation tools. The technician will be responsible for developing a pipeline for genomic analyses and database monitoring and maintenance. Early-career technicians will have the opportunity to gain on-the-job training regarding bioinformatics.

Duties: The Laboratory Technician will confer with research staff to determine data needs and programming requirements and to provide assistance with database-related research activities. Importantly, the technician will utilize bioinformatics techniques to analyze or manipulate large datasets from next generation sequencing in a Unix/Linux environment. Sophisticated computer programs will be used to gather, analyze, and track data regarding biological functions or characteristics in order to gain a better understanding of computational evolutionary biology and comparative genomics. The technician will develop high throughput solutions to improve scalability of in-house genetic interpretation tools. Duties will involve writing or modifying existing computer code to perform analysis of high-throughput sequencing data including the analysis of whole genome sequencing data. The technician will need to develop a pipeline for genomic analyses as well as a system for monitoring database performance and perform any necessary maintenance, upgrades, or repairs. Ultimately the technician will complete statistical analyses and prepare reports on related findings. Additionally, the technician will assist multiple research projects as well as routine maintenance within the laboratory. Participation in group activities such as grant preparation and reporting, literature searches, and manuscript writing efforts will be expected. All laboratory staff will maintain cleanliness and sanitation while complying with

safety procedures in their employed laboratories. Duties will include non-research activities such as facility maintenance and outside work.

Qualifications: Ideally, the Laboratory Technician will have a thorough knowledge of bioinformatics, molecular genetics and related techniques, and have a good understanding of biological sciences. Experience in bioinformatics and next-generation sequencing is highly preferred. A Bachelor's degree in the Genomics, Genetics, Bioinformatics or Computer Science or related field is required. Ideal candidates will have a proficiency in Linux, programming experience in at least one of the following programming languages: C, C++, Java, Perl, or Python. Knowledge of parallel processing and computing and the use of R statistic software would be beneficial. Early-career technicians will have the opportunity to gain on-the-job training regarding bioinformatics.

Start Date: flexible

Location: Omaha, Nebraska, USA.

Please visit <https://workforcenow.adp.com/jobs/apply/posting.html?client=3Domahazoo> for full job description and to submit an application. Applicants should include a cover letter describing previous experience, a resume, and the names and contact information for two references. Review of applications will begin immediately and will continue until the position is filled. Applications can also be sent to Dr. Edward Louis Jr. at genetics@omahazoo.com

genetics@omahazoo.com

PacificU EvolutionaryBiol

Evolutionary Biologist: We invite 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 include a Ph.D. in Biology, or equivalent terminal research-based degree; one academic year of college or university teaching experience (TA or instructor); and two years research experience in evolution. Education, teaching and research may be gained concurrently.

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

— / —

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

PrincetonU MolecularEvolution

MOLECULAR EVOLUTION Faculty Position, Princeton University

Princeton University seeks candidates for a tenured or tenure track faculty position in the area of Molecular Evolution to join a growing collaborative program across the broad interface of evolution, ecology, molecular biology and genomics. We are interested in scientists whose research focuses on questions that integrate across this interface, with the aim of offering novel conceptual advances. The position will be shared be-

tween the Department of Ecology & Evolutionary Biology and the Department of Molecular Biology. We seek colleagues who will enthusiastically contribute to a climate of interdisciplinary collaboration, excellence and diversity. The candidate should share our commitment to a mentoring process that attracts students of all ethnicities, nationalities, and genders.

Applicants should write a vision statement, no longer than two pages, that outlines one or more major unsolved problems in their field and how they plan to address them. In this respect, the vision statement should go beyond a summary of the applicant's prior and current research. Applications, including the vision statement, curriculum vitae, three reprints, and contact information for three references can be submitted online via <http://jobs.princeton.edu>, Req #1400594. Screening of applications will begin October 31, 2014.

Princeton University is an equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability status, protected veteran status, or any other characteristic protected by law.

This position is subject to the University's background check policy.

The direct link to the online posting of Job Req #1400594 https://jobs.princeton.edu/applicants/jsp/-shared/position/JobDetails_css.jsp?postingId=205467 (If the site does not come up, click twice or search Req#.)

Thank you,

Diane Carlino Department Manager Ecology and Evolutionary Biology Princeton University 104A Guyot Hall 609-258-5810 dcarlino@princeton.edu

Diane Carlino <dcarlino@Princeton.EDU>

RiceU LabTech EvolutionaryBiology

Lab & Field technician, Egan Lab at Rice University

The Egan lab at Rice University in Houston, Texas, is seeking a temporary research technician, starting immediately. The Egan lab works on many different aspects of evolutionary biology, including behavior, evolutionary ecology, genetics and genomics. Current projects include understanding the roles of ecology and the genome during the evolution of new biological species. Most work is done using insects from natural

populations.

Duties will included (1.) the performance of basic molecular biology lab techniques, including DNA and RNA extractions, sample prep for high-throughput sequencing, (2.) implementing and maintaining experiments in the lab, greenhouses, or field settings, (3.) insect husbandry in the lab, and (4.) responsibility for day-to-day lab logistics, including purchasing, shipping, and receiving supplies, as well as working closely with undergraduate and graduate researchers.

Important skills include: 1. strong attention to detail and careful record keeping 2. ability to work independently, as well as with others 3. strong molecular techniques and experience 4. ability to work in the field, sometimes under challenging conditions

Required: 1. bachelor's degree or higher in Biology or related field 2. 1+ year of research experience outside of class requirements

Position is for 40 hours per week for 12 months at a minimum of \$13.51/hour plus full benefits, with the possibility of renewal contingent on performance and the availability of funding. See Rice HR website for further details: <http://people.rice.edu>. Please follow the following links for further information about the Egan lab (<https://sites.google.com/site/scottpegan/>), the Department of BioSciences (<http://biosciences.rice.edu>), or Rice University (<http://www.rice.edu>).

Applicants should include in one merged PDF file:(1.) a 1-page cover letter describing previous experience, (2.) a resume/CV, (3) unofficial transcripts from your undergraduate institution, and (4.) the names and contact information of two references. Review of applications will begin immediately and will continue until the position is filled. Applications should be sent to Scott Egan (scott.p.egan@rice.edu) with 'Lab & Field Technician' in the Subject line. Questions may be directed to the same email address.

scott.p.egan@rice.edu

RyersonU PlantEvolutionaryEcol

This work will explore the response of Cannabis to various environmental conditions and therefore is an applied evolutionary ecology research position. If you're interested in the position described below, please send your resume to work@tweed.com

Research Student/Intern In this role with Tweed, you will assist the Head of Research and Development in conducting both in-house and collaborative research projects. This is a 4 month contract with potential for extension or ongoing employment You will be required to assist with all daily tasks including but not limited to: - Maintenance of sanitary conditions in all areas where research is conducted - Consistent care for research and development plants - Performance of environmental, morphological, chemical measurements - Appropriate record keeping - Assembly/ maintenance of experimental set-ups - Compilation, analysis and presentation of experimental data - Research into experimental methods and/or improvements of procedures Current research includes experimentation with various environmental conditions required to produce the heartiest medicinal cannabis strains. Skill Requirements: - Science background with a good academic standing (GPA- please provide a transcript or grade report for the last 2 sessions you were in school) - Completion of at least 3 years of a Bachelor of Science degree in biology, biochemistry, biopharmaceutical science, etc - Scientific report writing experience (if applicable, please provide a list of publications) - Experience working with/ growing plants Personality Descriptors: - Dedicated to the task at hand - Reliable - Trustworthy - Attention to detail Working Environment: - Willingness/ability to work in enclosed, high light intensity conditions and high temperature/humidity environments - Ability to perform strenuous tasks and occasional heavy lifting Useful Qualities: - Knowledge of statistical programming (such as R) and ability to interpret statistical outputs - Knowledge of/ experience in the pharmaceutical industry

lesley.g.campbell@ryerson.ca

ShizuokaU MathematicalEvolution

As this job is a new member in our lab., I hope some aspects of my speciality (evolutionary ecology) is preferred.

Mathematical Biology (specifically ecology and evolution), or broadly Mathematical Sciences

Tenure track Position at the Department of Mathematical and Systems Engineering, Graduate School of Engineering, Shizuoka University, Japan

Department of Mathematical and Systems Engineering, Graduate School of Engineering, Shizuoka University is

inviting applications for five year tenure track assistant professor position with financial support for research. Aimed at development of innovative mathematical and systems engineering, the Department of Mathematical and Systems Engineering, Graduate School of Engineering is seeking a tenure track assistant professor for researching in the area of mathematical sciences including modeling, simulations, and optimization, but not limited to those areas. The deadline for the application is due on 29 August, 2014 (recept). The candidate will join the laboratory of Jin Yoshimura. For details, see the websites below:

https://jrecin.jst.go.jp/seek/SeekJorDetail?fn=0&ln=1&id=D114061257&ln_jor=1 In Japanese: https://jrecin.jst.go.jp/seek/SeekJorDetail?fn=0&id=D114061257&ln_jor=0 Jin Yoshimura, Ph. D., Professor Department of Mathematical Systems Engineering Shizuoka University, Hamamatsu 432-8561 Japan Email: jin@sys.eng.shizuoka.ac.jp Phone/Fax: +81-(0)53-478-1215

jin <jin@sys.eng.shizuoka.ac.jp>

SienaCollege NY VertebrateEvolution

Tenure Track Position in Biology

Assistant Professor, tenure-track position, starting fall 2015 – Vertebrate field biologist. Candidate must be broadly trained in biology, and have a Ph.D. in the biological sciences. Post-doctoral research or teaching experience strongly preferred. Successful candidate will be committed to teaching undergraduates and to developing a research program that involves undergraduates. A research lab in our modern facility and initial startup funds will be provided. Teaching duties include upper division general ecology and vertebrate biology courses with laboratories, for majors. In addition, all biology faculty assist with introductory level courses for biology majors. The teaching load is 9 contact hours per semester. Candidates with research expertise in any area of field biology will be considered.

Siena College is a four-year liberal arts college with approximately 3000 students. The Biology Department consists of 14 full-time faculty members and over 300 majors. Additional information about this position, our department, course descriptions, and facilities can be found at www.siena.edu/biology/. Further questions about the position can be directed to Dr. Kenneth

Helm, helm@siena.edu.

To apply, submit a pdf document file that includes a cover letter, curriculum vitae, statement of teaching experience and interests, a statement of research interests, and three letters of recommendation (submitted separately). Electronic submission through Interfolio is required; please submit materials to <https://secure.interfolio.com/apply/25548> no later than September 26, 2014. Only complete applications will be considered. For questions or further information, please contact Eileen Martino, Biology Department Administrator, School of Science at

emartino@siena.edu

Equal Employment Opportunity Statement

Siena College is committed to attracting, supporting, and retaining a diverse faculty. We actively encourage applications from women, minorities, persons with disabilities, veterans, and others who may make a positive contribution to the diversification of ideas and perspectives.

Siena College 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.

As an Equal Opportunity Employer, Siena College surveys all job applicants in accordance with the U.S. Department of Labor's affirmative action requirements. Therefore, we request that in addition to your application, you complete the Equal Employment Opportunity Data Form provided on the Interfolio site. Any information you choose to provide on the Equal Employment Opportunity Data Form will be treated as personal and confidential and will be kept separate from your application for employment. Your cooperation is important to maintain an effective equal opportunity program at Siena College and is greatly appreciated.

Sarah K Berke Assistant Professor of Biology Siena College Loudonville NY 12211

skberke@gmail.com

SouthAfrica FieldAssist Mongoose

Job: South Africa, Field Assistant on Dwarf Mongoose Project

We are seeking research assistants to help conduct fieldwork.

The Dwarf Mongoose Project (<http://dwarfmongooseproject.weebly.com/>) was established in 2011 on Sorabi Rock Lodge Reserve, Limpopo Province, South Africa. Currently we work with 8 wild groups that have been habituated to the close presence of observers; group members are individually marked and many have been trained to climb on a balance scale to weigh themselves.

Work will include behavioural observations, sound recordings, GPS tracking, weighing of individuals and assistance with playback experiments. Researchers live in a house on the reserve and will be required to share a bedroom.

The posts will commence beginning of October 2014 (application deadline: 29th August) with shortlisted applicants invited for interview at the end of August. Assistants need to be available for a minimum of 3 months and hold a valid driving licence.

Food and accommodation will be provided, but assistants will need to fund their own travel to the project.

Previous fieldwork experience, especially in Africa, will be viewed as advantageous.

To apply for the post, please send a cv (including names of 2 referees) and a cover letter to Julie Kern (julie.kern@bristol.ac.uk), University of Bristol.

Reader in Behavioural Ecology University Research Fellow in Biological Sciences School of Biological Sciences Life Sciences Building 24 Tyndall Avenue Bristol BS8 1TQ 0117-3941197

bzzar@bristol.ac.uk

StanfordU Evolution

The Department of Biology at Stanford University invites applications for a tenure-track Assistant Professor in Evolution. We seek outstanding applicants engaged in answering broad basic questions in Evolution. We welcome a wide spectrum of applicants and will consider both theoretical and empirical evolutionary biologists. Applicants working at the interface of Evolution and Ecology and/or other areas of Biology are encouraged to apply. The successful candidate will hold a Ph.D., and is expected to develop a vigorous research program and to participate in the

Department's teaching activities at both the undergraduate and graduate levels. More information about the Department and the University can be found at <http://biology.stanford.edu/> . All applicants should submit a cover letter, a curriculum vitae including publication list, a statement of research accomplishments and future plans, a description of teaching experience, and three letters of reference. All materials must be submitted electronically to AcademicJobsOnline < <http://academicjobsonline.org/ajo/jobs/4302> >. Inquiries may be directed to Faculty Searches, Dept. of Biology, 371 Serra Mall, Stanford, CA 94305, or to maychin@stanford.edu.

Applicant materials must be received by October 15, 2014. The appointment would begin September 1, 2015.

Stanford University is an equal opportunity employer and is committed to increasing the diversity of its faculty. It welcomes nominations of and applications from women and members of minority groups, protected veterans and individuals with disabilities, as well as others who would bring additional dimensions to the university's research, teaching, and clinical mission.

fukamit@gmail.com

SUNY Buffalo Metagenomics

The Department of Biological Sciences (<http://www.biology.buffalo.edu>) at the University at Buffalo (SUNY) is seeking outstanding applicants for a tenure-track Assistant Professor position in the broad field of Metagenomics. We seek individuals using cutting-edge technologies to address fundamental biological questions in functional, computational or evolutionary metagenomic research.

The Department of Biological Sciences is the major focal point for interdisciplinary research and education in life sciences at the University at Buffalo (UB). The University at Buffalo (UB) is the largest and most comprehensive campus in the State University of New York system. Opportunities for interdisciplinary interactions within UB, Roswell Park Cancer Institute, and the NYS Center of Excellence in Bioinformatics and Life Sciences are available. A competitive startup package will be provided. The successful candidate will be expected to maintain an externally funded research program and to participate in graduate and undergraduate teaching.

Applicants should have a Ph.D. (or other doctorate degree), at least three years of relevant postdoctoral experience, a scholarly publication record and fluency in both spoken and written English.

To apply, electronically submit a curriculum vitae, description of current and future research interests (3 pages maximum), and copies of published or in press publications (no more than five) from recent post-doctoral work to: www.ubjobs.buffalo.edu/applicants/Central?quickFindW313 . Paper copies of application materials will not be accepted/reviewed. Applications will be reviewed upon completion and must be received by November 1, 2014. Please consult our website for information about UB, our department and our community.

The University at Buffalo is an Equal Opportunity Employer/Recruiter.

gokcumen@gmail.com

TexasAMU EvolutionProgramCoordinator

Position Announcement Joint Program Coordinator Ecology and Evolutionary Biology Graduate Program and NSF IGERT in Applied Biodiversity Science

The Ecology and Evolutionary Biology (EEB) Interdisciplinary program, and the Applied Biodiversity Sciences (ABS) doctoral training program, are seeking a full-time joint Coordinator to manage program affairs. The EEB faculty group integrates research related to the disciplines of ecology and evolutionary biology, and is on target to become an interdisciplinary PhD granting program in 2015. The EEB group consists of 80+ faculty from thirteen departments and seven colleges. The ABS program, supported by a NSF-IGERT, is a multidisciplinary, international, doctoral training program. Faculty/student teams carry out integrative research in biological and social science approaches to biodiversity conservation at sites in Latin America, USA-Mexico trans-boundary region, and Africa. The ABS team consists of 20+ faculty from nine departments and four colleges. About twelve faculty are members of both EEB and ABS.

The Coordinator will report to the EEB Chair and ABS Co-directors. The position will begin when filled, and last at least 5 years. More about these two groups can be found at <http://eeb.tamu.edu> and

[/biodiversity.tamu.edu](http://biodiversity.tamu.edu) . Responsibilities X The Coordinator position is a hub for the EEB and ABS program. S/he will become a central communicator and facilitator for faculty, students, and the international network. Duties include managing day-to-day activities and information requests; supervising design and updates to the website; coordinating course schedules and enrollment; organizing outreach and recruitment activities; managing graduate applications; arranging interviews for applicants to both programs; facilitating contacts with international partners; coordinating logistics for field courses and on-campus events; working to arrange internships at participating partner institutions; helping implement student recruitment strategies; tracking student progress; coordinating program assessment activities and compiling assessment data. The coordinator will also help implement new programs to increase undergraduate participation in ABS and EEB.

Qualifications X The Coordinator will be a Ph.D.-level or 5-year experienced social or natural scientist and have demonstrated experience with administrative and organizational tasks. Ability to work with faculty and students in interdisciplinary teams and in diverse cultural settings is paramount. The candidate should possess outstanding leadership skills as well as demonstrated success in communicating effectively with diverse groups. The ability to communicate in Spanish is desirable.

Application Process X Applications should include a letter of interest emphasizing a track record in relevant research, a complete Curriculum Vitae, and list of references. Materials should be sent by email attachment to both addresses listed below:

Donald Brightsmith Spencer T. Behmer Department of Veterinary Pathology Department of Entomology E-mail: DBrightsmith@cvm.tamu.edu E-mail: s-behmer@tamu.edu

Screening will begin 15 September 2014, and applications will be accepted until the position is filled. Salary X Commensurate.

About the Community X Texas A&M University is in College Station, part of a metropolitan community of 160,000 people, including the city of Bryan. In addition to excellent health, education, and recreation services, the community affords a rich variety of cultural activities typical of a major university environment, including museums, music, art, and theatre. College Station is within easy reach of some of the most cosmopolitan cities in the US V about 90 minutes from Houston and its major international airport, and under 2 hours from Austin.

The Texas A&M University System is an Equal Opportunity Employer

grosenthal@bio.tamu.edu

UCalifornia Berkeley 2 ResTech ProtistEvolution

Research Technician I (2 open positions)

King Laboratory: kinglab.berkeley.edu

*HHMI and University of California, Berkeley *

Job Summary:

The Howard Hughes Medical Institute has an exciting opportunity for two Research Technicians to join the laboratory of Dr. Nicole King at University of California Berkeley.

The King laboratory studies choanoflagellates, the closest living relatives of animals, to reconstruct animal origins and investigate molecular mechanisms underlying host-microbe interactions. We are seeking two highly motivated and exceptionally organized biologists to assist in developing and optimizing genetics in the emerging model choanoflagellate species *S. rosetta*. Individuals seeking an exciting research opportunity before applying to graduate school are invited to apply.

Principal Responsibilities:

- Generate and visually screen for choanoflagellate mutants.
- Isolate, catalog, and characterize new mutant strains.
- Perform and optimize conditions for crosses in *S. rosetta*.
- Prepare choanoflagellate DNA for genotyping and whole genome sequencing.
- Keep meticulous laboratory records.
- Participate in laboratory meetings and planning sessions.
- Read literature relevant to research areas as required.
- Assist King lab scientists and technicians in a variety of cellular and molecular biology techniques on other projects ongoing in the lab.

Preferred Qualifications:

- Bachelor of Science degree in biology or a related field.
- Knowledge of basic principles of genetics, gained through coursework or prior laboratory experience.
- At least one year experience working in a laboratory setting.
- Experience with molecular biology techniques, microscopy, tissue culture, and sterile technique.
- Able to troubleshoot and perform a variety of new techniques.
- Exceptional organizational skills and record

keeping. - Strong oral and written communication.
 - Self-motivated, detail-oriented and able to perform complex tasks effectively and independently with general instruction, while being engaged in a collaborative project.

To apply:

Please send a single .pdf file that includes a cover letter explaining your qualifications for and interest in the position, your CV, contact information for three references and copies of your course transcripts to Heather Middleton at kinglab@berkeley.edu

nicoleking.ucb@gmail.com

UCalifornia Berkeley Adaptation

UNIVERSITY OF CALIFORNIA, BERKELEY Department of Integrative Biology

The Department of Integrative Biology (IB) is seeking applications for a tenure-track faculty position for a biologist studying adaptation. The research areas we are specifically considering include: [1] the genetics of adaptation, [2] genomics, [3] organismal evolution, [4] physiological adaptation, and [5] adaptation in a changing environment. We are particularly interested in candidates whose research spans various sub-disciplines within our broad department. Successful applicants are expected to integrate with and contribute to our Department's Human Biology curriculum. We seek candidates with a Ph.D. and/or M.D. degrees (or equivalent) who have demonstrated excellence, originality and productivity in research, and interest in undergraduate and graduate teaching. Ph.D., M.D., or equivalent is required by date of application. The potential start date is July 1, 2015.

Applications should be submitted online through <https://aprecruit.berkeley.edu/apply/JPF00491>. Applications should include a curriculum vitae; a list of publications; copies of three significant publications; a brief description of research accomplishments; and a statement of research objectives and teaching interests. Inclusion of a cover letter is optional. We are particularly interested in candidates who will contribute to diversity and equal opportunity in higher education through their teaching, research, and service; candidates are invited to address this issue in their application. Please direct any questions to ib_ap_assist@berkeley.edu.

Applicants should arrange to have three letters of reference submitted online. All letters will be treated as confidential per University of California policy and California state law. Please refer potential referees, including when letters are produced via a third party (i.e., dossier service or career center), to the UC Berkeley statement of confidentiality (<http://apo.chance.berkeley.edu/evalltr.html>) prior to submitting their letters.

The deadline for applications is October 15, 2014.

UC Berkeley is committed to addressing the family needs of faculty. Women and minority candidates are especially encouraged to apply. The University of California is an Affirmative Action/Equal Opportunity 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: <http://policy.ucop.edu/doc/4000376/-NondiscrimAffirmAct> slatkin@berkeley.edu

UCalifornia Riverside Evolutionary Genomics

Faculty Position- Assistant Professor EVOLUTIONARY GENOMICS University of California, Riverside

The Department of Biology invites applications for a 9-month tenure-track faculty position in the area of Evolutionary Genomics, starting July 1, 2015. Candidates should employ a comparative evolutionary approach in the study of genome architecture and its consequences for adaptive evolution. The research should exploit the burgeoning ability to study genomes to tackle key problems in the genetics and evolution of fundamental biological processes, such as pathogenicity, disease resistance, physiological adaptation, symbiosis, response to a changing environment, invasiveness, animal or plant domestication, productivity, behavior/signaling, stress/tolerance, speciation/extinction, or the evolution of the genome itself. Ideally, the candidate will be proficient at developing novel bioinformatics approaches to the comparative study of genomes. Researchers that utilize techniques such as advanced statistical methods and computer-programming skills are desired. The successful candidate will join a vibrant community of researchers in the Department of Biology, the Evolution, Ecology and Organismal Biology Graduate Program,

the Genetics, Genomics, and Bioinformatics Graduate Program, the Center for Conservation Biology, the Center for Invasive Species Research, the Institute for Integrative Genome Biology, and the Environmental Dynamics and GeoEcology Institute. The successful candidate will also have access to modern campus facilities in genomics/bioinformatics, proteomics, microscopy, stable isotope analysis, and field stations and facilities. Consult www.biology.ucr.edu for details about the department. Applicants will be expected to pursue vigorously extramurally-funded research and contribute to teaching in our undergraduate and graduate core curricula. A Ph.D. and demonstrated excellence in research are required.

Applications, including a curriculum vitae, separate statements of research and teaching interests, and up to three selected reprints must be submitted through: <https://aprecruit.ucr.edu/apply/JPF00182>. In addition, applicants should request that three letters of recommendation be submitted through this site.

Evaluation of applications will begin September 15, 2014, but the position will remain open until filled.

The University of California is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, age, disability, protected veteran status, or any other characteristic protected by law.

Kristine Specht <kristine.specht@ucr.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 SanDiego TeachingEvolution

Assistant Teaching Professor: Ecology, Behavior & Evolution (10-813)

The Division of Biological Sciences at UC San Diego (www.biology.ucsd.edu), Section of Ecology, Behavior and Evolution, invites applications for a new Assistant Teaching Professor position. Faculty in the Teaching Professor series are Academic Senate members whose expertise and responsibilities center on undergraduate education, as well as the scholarly analysis and improvement of teaching methods. This appointment can lead to tenure and is comparable to an assistant professorship.

The incumbent’s primary teaching responsibility will be undergraduate lecture courses in Ecology, Behavior and Evolution at introductory and advanced levels, and lab courses in these fields, as needed (see Biology course catalogue <http://www.ucsd.edu/catalog/courses/BIOL.html>). 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. The incumbent will also advance science education by such activities as developing a research program in science teaching, initiating new teaching methods or new courses, or by participating in writing textbook or online teaching materials. As a member of the Division of Biological Sciences educational leadership team, the incumbent will provide academic guidance, leadership and innovation for the Division’s undergraduate programs. In this context, the incumbent is expected to initiate and/or participate in the development of grant applications for improving undergraduate education.

All candidates must have earned a Ph.D. or equivalent degree in Biology (or related field). A successful can-

didate will have demonstrated a dedication to teaching and educational leadership, and a commitment to equity and inclusion in higher education.

The successful candidate is expected to have:

- * Ability to successfully address the educational and academic needs of a diverse student population, including identifying and or developing effective teaching strategies for the educational advancement of students from groups who are underrepresented in higher education;
- * Substantial breadth of biological knowledge and biology training, as evidenced by a Ph.D. or equivalent degree in Biology (or related field) and scholarly activity such as postdoctoral experience, publications, and experience in successful grant writing, to demonstrate preparation to teach college courses focused on Ecology, Behavior and Evolution;
- * Significant university-level teaching experience, demonstrated success in teaching at the undergraduate level, and experience in teaching large introductory biology courses is preferred;
- * Knowledge of and experience in applying instructional strategies that are rooted in results from modern research on the science of learning;
- * Ability to link insights from the study of learning to the practice of teaching and to engage in and contribute to the scholarship of teaching and learning;
- * Excellent communication skills and cross-cultural abilities to maximize effective collaboration with a diverse community of campus and external colleagues;
- * Ability or potential to provide educational leadership by supporting the transformation of introductory biology courses to emphasize core concepts, problem solving, and the development of critical thinking skills.

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.

Interested applicants must submit: * Curriculum vitae and cover letter * Statement of current and proposed teaching (not to exceed 4 pages) * Statement of current and proposed science education research (not to exceed 4 pages) * Electronic copies (in PDF format) of 3 recent publications * Statement describing past experience and leadership in fostering equity and diversity and/or their potential to make future contributions. 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> * 3-5 references

Applications must be submitted through the University of California San Diego’s Academic Personnel RE-

CRUIT System at

— / —

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>

UCalifornia SantaBarbara EvolutionaryPhysiology

The Ecology, Evolution, and Marine Biology Dept. at UC Santa Barbara is searching for a Marine Physiologist. This is a tenure-track faculty position at the rank of Assistant Professor. Scholars studying the evolution or ecology of marine organisms are encouraged to apply if their work is of a physiological nature. More details are available below.

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 aca-

demic 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.

Thomas Turner Assistant Professor Department of Ecology, Evolution, and Marine Biology University of California, Santa Barbara

Phone: 805-450-6123 Web: labs.eemb.ucsb.edu/turner/

Thomas Turner <thomas.turner@lifesci.ucsb.edu>

UCentralFlorida CoastalConservationBiol

Faculty Position: Coastal Ecologist/Biologist

The Department of Biology at the University of Central Florida (UCF) invites applications for an open rank, tenure earning or tenured position in Coastal Ecology. We seek a broadly-trained, collaborative coastal ecologist/biologist, who focuses on nearshore (wetland, estuarine, or marine) systems. Potential research areas include, but are not restricted to: biogeochemistry, climate change, community ecology, conservation biology, ecosystem ecology, ecotoxicology, environmental physiology, habitat modeling, microbial ecology, phycology and/or sea-level rise. Researchers who use innovative combinations of field, experimental and theoretical approaches are encouraged to apply. We strongly prefer candidates who can build within-department and interdisciplinary collaborations (e.g., with civil and environmental engineers, mathematical modelers, oceanographers).

Applicants must have a Ph.D. in a relevant field, appropriate postdoctoral training and a demonstrated ability or strong potential to establish and maintain a vigorous, extramurally funded research program. The successful candidate will contribute to teaching and mentoring students in our undergraduate and graduate pro-

grams (see <http://biology.cos.ucf.edu> for departmental details) and will be considered for a secondary joint appointment in the Department of Civil, Environmental, and Construction Engineering. UCF provides competitive startup funds and teaching loads; it is designated as a research university of very high activity (RU/VH) by the Carnegie Foundation and an 'Up-and-Coming School' by U.S. News and World Report.

To apply, applicants must complete an online job application at www.jobswithucf.com for position #37017. Separately, applicants must e-mail a single PDF document that includes a letter of intent, curriculum vitae, statements of research interests and teaching philosophy, and contact information for three references to: bio-search@ucf.edu.

Review of applications will begin September 29, 2014 with an anticipated start date of August 2015. The University of Central Florida is an Affirmative Action/Equal Opportunity Employer. All qualified applicants are encouraged to apply, including minorities, women, veterans and individuals with disabilities. As a Florida public university, UCF makes all application materials and selection procedures available to the public upon request.

Christopher L. Parkinson, Ph.D. Professor and, Chair , Institutional Animal Care and Use Committee Dept. of Biology Rm 424. University of Central Florida 4000 Central Florida Blvd. Orlando, FL 32816-2368 office: 407-823-4847 fax: 407-823-5769 <http://parkinson.cos.ucf.edu/> Parkinson@ucf.edu

Christopher Parkinson <Parkinson@ucf.edu>

UColoradoBoulder PopGenetics

POPULATION GENETICS ASSISTANT PROFESSOR

The Department of Ecology and Evolutionary Biology at the University of Colorado Boulder is pleased to invite applications for a faculty position in Population Genetics at the Assistant Professor level. We are especially interested in individuals using genomic data for investigating microevolution.

Qualifications include a Ph.D. degree and strong research, mentoring, and teaching credentials. Competitive start-up funding, laboratory development resources and ancillary support commensurate with the candidate's needs and resource availability accompany

this position.

The successful candidate will contribute to research, mentoring, and teaching at graduate and undergraduate levels and will be expected to develop an externally funded research program. We offer a collaborative, intellectually stimulating, and supportive environment in which a new professor can thrive. For further information about the Department of EBIO, see <http://ebio.colorado.edu>.

To apply, please collate the following into a single pdf file and attach as ³Document 1²: cover letter, curriculum vitae, a list of at least three references and their contact information, and no more than four pages total on research, mentoring, and teaching.

Application materials are accepted electronically at <https://www.jobsatcu.com>, posting #F01649.

Please make sure we have your application and supporting material by 15 October 2014, though we may accept later material as needed to achieve a successful outcome to this search.

Dr. Rebecca Jo Safran Associate Professor Department of Ecology & Evolutionary Biology N317 Ramaley Hall University of Colorado Boulder Colorado 80309 email: rebecca.safran@colorado.edu phone: 303.735.1495 website: <http://safranlab.weebly.com/> Rebecca J Safran <rebecca.safran@colorado.edu>

UCSC Chile PopulationDynamics

ACADEMIC POSITION IN POPULATION DYNAMICS AND POPULATION MODELING FACULTY OF SCIENCES, DEPARTMENT OF ECOLOGY UNIVERSIDAD CATOLICA DE LA SANTISIMA CONCEPCION CONCEPCION, CHILE DEADLINE: AUGUST 29, 2014

The Universidad Catolica de la Santisima Concepcion (UCSC) invites applications for a full-time (44 h) faculty position in the Department of Ecology.

This position aims at strengthening research in population dynamics and population modeling, particularly in applications to the marine environment.

Applicants must have a Ph.D. in Ecology or an equivalent discipline, and must have research experience in population dynamics.

Candidates applying for the position must have a demonstrated ability to do research and to secure highly

competitive funding of their research, as well as leadership and the capacity to organize collaborative teams, generate ideas and propose research projects in this area of knowledge.

Responsibilities

1. Conduct independent research at a high level, with potential national and international collaboration.
2. Teaching at the undergraduate level for Marine Biology and Environmental Chemistry, and at the graduate level for Marine Ecology (Master of Science degree program). During the first year, time will primarily be dedicated to initiation of the applicants research program.
3. Academic responsibilities and functions will be compromised of a 2 or 3 year period, depending on the academic category, strongly favoring their own research and guidance in research of students.

General Information

1. A short-list will be compiled based on strong applications fitting the above requirements.
2. A personal interview will be held with short-listed applicants.
3. The UCSC can declare this call void.
4. This academic position includes functions in teaching, research, management, administration, and outreach activities.

Questions should be addressed to lasenjo@ucsc.cl before August 22, 2014.

Applicants should send the following documents (via e-mail to lasenjo@ucsc.cl) as a single pdf file:

1. Letter of interest, including a brief description of the academic experience and trajectory, and their proposed research should they take up the position (e.g., expected line of research, potential for collaboration with other academic staff of the Department, contribution to teaching at the undergraduate and graduate level).
2. Curriculum Vitae, including salary expectations.
3. Undergraduate, Master (if applicable) and Ph.D. Diplomas.
4. Two reference letters.

The deadline to receive the documents is August 29, 2014.

Further informal inquiries should be directed to Dr. Antonio Brante, Head of the Department of Ecology (abrante@ucsc.cl).

Call webpage: <http://www.ucsc.cl/concurso/> ———

Florence Tellier, Ph.D Assitant Professor Departamento de Ecologia Facultad de Ciencias Universidad Catolica de la Santisima Concepcion Alonso de Ribera 2850 Concepcion, Chile

ftellier3@gmail.com

UFlorida ResTech NematodeFitnessEffects

Job: Research Technician_University of Florida

Applications are invited for a Research Technician in the lab of Charles Baer in the Department of Biology at the University of Florida (<http://www.biology.ufl.edu/-People/faculty/cbaer.aspx>). The major project combines classical quantitative genetics with whole-genome sequencing and high-throughput phenotyping to investigate the Distribution of Fitness Effects (DFE), using *C. elegans* as a model system. The Research Technician's primary responsibilities include (i) managing and executing fitness assays employing a Union Biometrica COPAS Large Particle Flow Cytometer (a "worm sorter"), (ii) extracting DNA and constructing Illumina sequencing libraries (iii) managing and executing several large sets of genetic crosses, (iv) maintaining worm stocks, media and reagents and (v) serving as Lab Manager. The initial term of employment is one year, with opportunity for reappointment based on satisfactory performance.

Qualifications: A Bachelor's Degree in a relevant discipline and at least one year of relevant experience in a laboratory setting ("relevant" experience includes undergraduate research). Strong preference will be given to candidates with verifiable experience with large-scale preparation of Illumina sequencing libraries.

Start Date: flexible, but as early as August 15, 2014

Starting Salary: Negotiable and commensurate with experience, but not less than \$14.50/hr, with a guaranteed 40-hr workweek for 52 weeks/year, including two weeks' time off with pay. Includes UF-mandated benefits for OPS employees (i.e., health-insurance).

Location: Gainesville, Florida, USA. Gainesville is a very pleasant and affordable medium-sized city in north-central Florida with excellent public schools and a lively night life (or so I hear). Outstanding year-round outdoor recreational opportunities abound, as long as they don't involve snow ("This is Florida. No snow, no ice..." - Marx).

The University of Florida is an equal-opportunity institution. Members of groups under-represented in the Biological Sciences are especially encouraged to apply.

Applicants please send a cover letter, resume or CV,

and contact information for two references by email to Charles Baer (cbaer@ufl.edu).

Charles F. Baer Department of Biology / University of Florida Genetics Institute 621 Bartram Hall P. O. Box 118525 University of Florida Gainesville, FL 32611-8525 USA

Office 352-392-3550 Fax: 352-392-3704 Email: cbaer@ufl.edu web: <http://www.biology.ufl.edu/People/faculty/cbaer.aspx> Charlie Baer <cbaer@ufl.edu>

UNorthCarolina EvolutionaryBiology

LECTURER IN BIOLOGY AT THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

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 "LECTURER" to fn Crawford@email.unc.edu

The University of North Carolina is an Equal Opportunity Employer. <http://www.bio.unc.edu/>

Feel free to contact me or the search committee chair, John Bruno (jbruno@unc.edu), for more information.

Christina Burch Associate Professor Department of Biology University of North Carolina Chapel Hill, NC 27599

cburch@bio.unc.edu 919-962-4445

CBurch@bio.unc.edu

UPittsburgh EcologyFieldStationDirector

ECOLOGY FIELD STATION DIRECTOR

The Department of Biological Sciences at the University of Pittsburgh invites applications for a full-time faculty appointment at the rank of ASSOCIATE PROFESSOR (tenured) to serve as the Director of the Pymatuning Laboratory of Ecology (PLE), pending budgetary approval. PLE is a thriving field station in Northwestern Pennsylvania that has experienced tremendous growth in its missions of education, research, and outreach. We seek an outstanding scientist to continue an exciting research program in Ecology and Evolution working alongside of faculty in our broad-based Biology department, and to fulfill responsibilities of PLE Director, which will also include:

- * Strategic planning to enhance the research, teaching, and outreach missions of the field station
- * Oversight of research facilities, coordination of summer field courses as part of an educational consortium of regional universities, continued growth of outreach, and organization of conferences and retreats
- * Development of proposals for extramural funding
- * Supervision of staff and budget

The successful candidate will have a strong national/international scientific reputation, a distinguished record of publications and research funding, and demonstrated teaching excellence. Experience with biological field station operations is desirable. To ensure full consideration, applications and reference letters should be received by October 15, 2014. Applicants should email a single PDF document, with "PLE Director Search" in the subject line, containing a curriculum vitae, a cover letter describing their interest, a 2-3 page statement of research accomplishments and future plans, and a brief description of teaching interests to biojobs@pitt.edu. Applicants should also arrange to have at least three letters of reference sent

to biojobs@pitt.edu. Further information about PLE and the Department of Biological Sciences is available at: <http://www.biology.pitt.edu/facilities/pymatuning>. The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer and values equality of opportunity, human dignity and diversity.

dmd75@pitt.edu

UPorto MicrobialDiversityEvolution

Microbial Diversity and Evolution

A research position in Microbial Diversity and Evolution is available at CIBIO (<http://cibio.up.pt>), University of Porto, Portugal, under the Program ON2.

Candidates should have a PhD in biology, preferably a minimum of 3 years as Post-doc and a Curriculum vitae proving solid knowledge in the field. They should additionally have a good and relevant publication record in SCI journals and have supervised or co-supervised academic theses (MSc and PhD). The selected candidate is expected to build positive research interactions with the resident researchers, to establish international collaborations, and be capable of attracting national and international funding. S/he should be a good communicator and be completely fluent in English. The selected researcher may be invited to participate in teaching MSc and PhD classes and therefore, teaching experience will be considered a bonus.

The selected researcher will join the Microbial Diversity and Evolution Group which conducts basic and applied research on microbial diversity and evolution.

The ideal candidate will contribute to addressing the groups' medium-term challenges, namely:

i) to develop culture-independent methods to detect/identify and genotyping bacteria directly from environmental samples, ii) to conciliate in a single procedure the specificity of genomic markers used in DNA-based detection assays with the clonal resolution of fine-tune genotyping methods, iii) to continue the research on the evolution of taxa-specific markers; iv) to perform comprehensive genome data mining using comparative genomics tools and phylogenetic analysis to infer genomic footprints of bacterial ecotypes.

The ranking of candidates will result from a global appreciation of the Curriculum vitae, possibly followed by a job interview. Salary will correspond approximately

to a gross annual income of 45.000 € (*before taxes*).

The position will start on the 1st of October 2014 and will end on the 30th of June 2015. After the end of this contract, another contract maybe offered depending on performance and availability of funds.

Applications should be sent to bolsas.cibio@cibio.up.pt and will include a motivation letter and a research statement, a detailed CV and the email contact of three referees. The jury is composed by: Dr. Fernando Tavares (Chair), Dr. Paulo Alexandrino and Prof. Nuno Ferrand de Almeida. Substitute member is Dr. Natália Dias.

Applications are open until the 31st of August 2014. Job Reference: MDE ON2

There is no obligation to hire any of the candidates. CIBIO has an equal opportunity policy. We aim to ensure that no applicant receives less favorable consideration on the grounds of gender, marital status, race, age, color, nationality, ethnic origin or religious belief. Candidates will be informed about the result of their application by email.

Informal enquiries can be made to: Dr. Natália Dias Executive Coordinator of CIBIO Natalia.Dias@cibio.up.pt Phone: +351 252660422

Natalia Dias <natalia.dias@cibio.up.pt>

UppsalaU SystematicBiology

Tenure-track Assistant Professor in Systematic Biology, with expertise in Biodiversity Informatics

Uppsala University is offering a tenure track position in systematic biology with a focus on biodiversity informatics. The primary requirement is a strong research record and well-defined research program in systematic biology encompassing diverse data types. Applicants should also be able to demonstrate significant knowledge of and expertise in designing and implementing a heterogeneous database aimed at addressing a set of well-focused evolutionary questions. The position is part of a major recruitment by the Swedish Science for Life Research Initiative (SciLifeLab: www.scilifelab.se).

The successful candidate is expected to develop an independent internationally-competitive research program. The position may also include up to 20% teaching so that the candidate may acquire skills needed for promotion to associate professor (tenure). The position

is funded for the first four years at 3 million sek/year (~300,000), to cover PI and additional salaries plus operating costs.

Further information is available from www.uu.se/en/join-us/jobs-detail-page/?positionId@405 and www.scilifelab.se/fellows/. Please direct questions to Sandra Baldauf (head of systematic biology - sandra.baldauf@ebc.uu.se) or Irene Söderhäll (head of department - irene.soderhall@ebc.uu.se). Application deadline is 30 September 2014.

Sandra Baldauf Professor of Systematic Biology Evolutionary Biology Centre Uppsala University Sweden SE-73256 phone: +46(0)184716452 fax: +46(0)184716452 sandra.baldauf@ebc.uu.se

UQueensland AnimalEvolution

The University of Queensland is looking for a Science Leader for the Animal Genetics Laboratory.

The Animal Genetics Laboratory (AGL) operates within the School of Veterinary Science and is located at the Gatton campus. AGL is a commercial and research laboratory that provides genotyping services to cattle and alpaca producers and their organisations, mostly for parentage verification. The AGL is also a provider of genotyping, sequencing and quantitative PCR services to researchers within the School, as well as to research groups from other Faculties in the University.

The role

This position will manage and lead the Animal Genetics Laboratory in the provision of genetic diagnostic services, development of new genetic diagnostic tests and high quality research in animal genetics

The Person

Applicants should have a Bachelors degree in animal or veterinary science and PhD in the area of animal genetics or molecular biology

Remuneration

This is a full-time, fixed term appointment of 5 years at Academic Level B or C. The base remuneration package will be in the range:

Academic Level B - \$84,323.66 to \$100,134.07 p.a., plus employer superannuation contributions of 17% (total package will be in the range (\$98,658.68 to \$117,156.86 p.a.).

Academic Level C - \$103,296.12 to \$119,106.52 p.a., plus employer superannuation contributions of up to 17 % (total package will be in the range \$120,856.46 to \$139,354.63 p.a.).

Enquiries

To discuss this role, please contact Associate Professor Jennifer Seddon ,Deputy Head of School on+61-7 5460 1838 or email j.seddon1@uq.edu.au.

Further details available at www.uq.edu.au < <http://www.uq.edu.au> >, job position number 496158.

Jennifer Seddon <j.seddon1@uq.edu.au>

UReading PartimeTech PlantDiversity

PART TIME, FIXED TERM TECHNICIAN POSITION

I'd like to draw attention to a part-time post at the University of Reading. The post might suit someone looking for a way to fund themselves through our MSc in Plant Diversity, which can be taken part time over two years. The University of Reading has a long tradition of research and training in plant taxonomy.

For more information about the position: http://www.reading.ac.uk/about/jobs/about-job-details.aspx?vacancy_id=2494777NtB

For more information about MSc Plant Diversity at the University of Reading: <http://www.reading.ac.uk/biologicalsciences/pg-taught/-biosci-pgtmscplantdiversity.aspx> Informal enquires to me, Dr Julie Hawkins <http://www.reading.ac.uk/biologicalsciences/about/staff/j-a-hawkins.aspx> "Julie A. Hawkins" <j.a.hawkins@reading.ac.uk>

USouthampton SeniorTech EnvironmentalBioinformatics

Marine Biogeochemistry <https://www.jobs.soton.ac.uk/Vacancy.aspx?ref=3D439014HN>

Location: National Oceanography Centre Southampton Salary: £28,695 to £31,342 Full Time Fixed Term (1 year) Closing Date: Monday 01 September 2014

Reference: 439014HN Applications are invited for a Senior Technician in Bioinformatics and Environmental Bioinformatics

The successful applicant will be responsible for running and marketing the 'Environmental Genomics' facility. They will develop and implement protocols for generating high-throughput, robotically enabled DNA and RNA sequencing libraries for use on next-generation sequencing platforms, provide DNA and RNA sequencing using next-generation DNA sequencing platforms, coordinate schedule and organize sequencing efforts among laboratory personnel, and manage and organize high-throughput DNA sequence data streams.

You should have a Master's Degree or equivalent qualification and/or experience in Molecular Biology, Microbiology, or a related field and experience of working in private or academic research laboratories. Experience in work using genomics and genomic technologies is also essential.

For additional information/informal enquiries before submitting your application, contact Tom Bibby, tsb@noc.soton.ac.uk

Dr. Mark A. Chapman M.Chapman@soton.ac.uk +44 (0)2380 594396

Centre for Biological Sciences University of Southampton Life Sciences Building 85 Highfield Campus Southampton SO17 1BJ

M.Chapman@soton.ac.uk

UTexas Austin FishTech EvolutionImmunity

Job Position at the Univ. of Texas at Austin: laboratory fish care technician

The laboratory of Dr. Daniel Bolnick at UT Austin, seeks an organized and experienced individual to fill a job position as an animal care technician. The technician would join a friendly and diverse research lab studying the evolution of immunity to parasites. The technician would work at the University of Texas at Austin main campus, and be a part of one of the leading Evolution Ecology & Behavior departments in the U.S.

The primary duties of the technician will be to care for a large laboratory population of fish, the threespine stickleback. The technician will be responsible for aquar-

ium system maintenance, feeding animals, maintaining clean aquaria and animal care rooms, purchasing supplies, rearing fish food (copepods), maintaining animal care logs, and breeding fish. The technician will also be called upon to assist other lab members with experimental assays of fish resistance/tolerance to a tapeworm parasite. Additional responsibilities, as needed, may include assisting with specimen dissection, DNA extraction, and related laboratory analyses.

The key qualifications for this position are: i) prior experience with fish care and aquarium systems. ii) strong organizational skills and attention to detail iii) a strong work ethic and ability to collaborate with others iv) a Bachelor's degree, or higher, preferably in biology or a related field.

To apply, please send a pdf containing a cover letter, a CV, and names and contact information for two recommendation letter writers to Dr. Daniel Bolnick (danbolnick@austin.utexas.edu). Any previous experience with animal care, fish, or laboratory should be emphasized and explained in detail in the cover letter and letters of recommendation wherever possible. Questions may be directed to the same email address.

The Bolnick lab's research focuses on evolutionary ecology of trait variation within populations, including variation in diet, courtship traits, and immune function. More information on research in the lab can be found at <https://webspace.utexas.edu/dib73/-Bolnicklab/Bolnicklab.htm?uniq=3D5ptsas>. Applications will be reviewed as they are received, and the position will remain open until a suitable candidate is hired, but we expect to make a decision no later than August 15.

The position is intended to be full time, but if required we could consider a half-time position. The employee would initially appointed for a period of 12 months at a starting salary of approximately \$2,500 per month (depending on qualifications), plus benefits. The chosen applicant will ideally start work in August 2014, though later start dates might be negotiable. Women and minorities are encouraged to apply.

Dr. Daniel I. Bolnick

Early Career Scientist Howard Hughes Medical Institute

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

512-471-2824 fax 512-471-3878 danbolnick@austin.utexas.edu <https://webspace.utexas.edu/-dib73/TheBolnickLab/Home.html> danbol-

nick@austin.utexas.edu

UToronto Aquatic Conservation

Assistant Professorship in Aquatic Ecology at the University of Toronto

The University of Toronto invites applications for one joint tenure-stream appointment in the Department of Ecology and Evolutionary Biology (51%) and the School of the Environment (49%). The appointment is in the area of Aquatic Ecology and Environmental Science, and will commence on July 1, 2015.

We seek a candidate who conducts conceptually driven research, using field, lab, and/or quantitative approaches to study issues in aquatic (freshwater and/or marine) ecology. Research may be at the level of population, community, landscape, and/or ecosystem. We seek applications from candidates whose research program fits well with the highly collaborative research in our Department and with the interdisciplinary focus of the recently formed School. We encourage applicants to review both academic units' research and teaching prior to applying. Successful applicants will have a PhD by date of appointment or shortly thereafter, with an outstanding academic record and will be expected to build an active, externally funded and internationally recognized research program. The appointee will demonstrate excellence in teaching and contributions to the education and training of undergraduate and graduate students in both EEB and the School. Teaching responsibilities will be split between EEB and the School and may include jointly offered courses. Salary to be commensurate with qualifications and experience.

The University of Toronto is a leading academic institution in Canada with over 60 faculty members specializing in ecology and evolution and is an internationally leading institution in environmental science. Strong links exist between the Department of Ecology and Evolutionary Biology and the Royal Ontario Museum and between EEB, the School of the Environment and many cognate departments involved in environmental science. The University has a nearby renowned field station dedicated to ecological research (the Koffler Scientific Reserve (www.ksr.utoronto.ca)). A partnership with the Ontario Ministry of Natural Resources provides access to infrastructure, including lab facilities in Algonquin Provincial Park (www.harkness.ca), funding, and long-term data sets. Strong collaborations

also exist between EEB and the School of the Environment with the Ontario Ministry of Natural Resources, the Ontario Ministry of the Environment, Fisheries and Oceans Canada, and Environment Canada.

Toronto is a vibrant and cosmopolitan city, one of the most desirable in the world in which to work and live. The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from visible minority group members, women, Aboriginal persons, and persons with disabilities, members of sexual minority groups, and others who may contribute to the further diversification of ideas.

All qualified candidates are invited to apply online by clicking on the link below. Applications should include a cover letter, curriculum vitae, statements of research and teaching interests in a single PDF, and three representative publications in three separate PDF documents. Submission guidelines can be found at: <http://uoft.me/how-to-apply>. Applicants should arrange to have three confidential letters of recommendation addressed to Professor Donald Jackson, Chair, Department of Ecology and Evolutionary sent by email to tochairsec.eeb@utoronto.ca. Deadline for the receipt of applications and all supporting documentation is October 1, 2014.

Please visit <http://www.eeb.utoronto.ca/> and <http://www.environment.utoronto.ca/> for more information about the Department of Ecology and Evolutionary Biology and the School of the Environment. If you have questions about this position, please contact Professor Donald Jackson at chairsec.eeb@utoronto.ca. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

helen.rod@utoronto.ca

UUtah LabTech Evolutionary Genetics

RESEARCH TECHNICIAN POSITION AVAILABLE
Phadnis Lab Department of Biology, University of Utah.

A Laboratory Technician position is available in the laboratory of Nitin Phadnis at the Department of Biology, University of Utah. We are looking for a highly motivated individual with experience in *Drosophila* ge-

netics and molecular biology.

The Phadnis Lab takes a multi-disciplinary approach with genetics, genomics and cell biology to address broad questions in evolutionary genetics, with a particular focus on understanding the molecular basis of speciation in *Drosophila*. Projects include using a combination of classical genetics and genomics to identify genes important for speciation in *Drosophila* and using cell biological techniques to understand the molecular basis of selfish genetic elements. These projects involve crosses between various *Drosophila* species, transgenic strain production in non-model *Drosophila*, microscopy and various molecular techniques (e.g., genomic DNA preparation, PCR, molecular cloning, Sanger sequencing, library construction for next gen-sequencing).

The research technician may be solely responsible for the development and execution of research projects, and successful projects can lead to authorship on scientific publications. In addition to research, this technician will also assist in mentoring undergraduate students and with daily laboratory management. Participation in lab meetings and presentation of data is expected. The ideal candidate will have excellent organizational skills in recordkeeping, multitasking, prioritizing responsibilities, time management, and an ability to interact with all levels of staff.

A Bachelors degree in Biology or a related discipline and experience in a lab environment is required.

Use the following link for more details and to apply: <https://utah.peopleadmin.com/postings/34631> Please send a cover letter, CV, and list of three references with contact information.

Nitin Phadnis | Ph.D. Assistant Professor Department of Biology University of Utah | Salt Lake City, UT 84112 801.585.0493 | nitin.phadnis@utah.edu <http://bioweb.biology.utah.edu/phadnis/nitin.phadnis@utah.edu>

UYork EvolutionaryBiol

A Lecturer in Evolutionary Biology post is available at the University of York, UK.

Department Biology Based at University of York, Heslington Campus Hours of work Full-time Contract status Open Salary £37,394 - £45,954 a year Apply by 19/09/2014

Role Description

The Department of Biology is seeking to appoint a Lecturer in Evolutionary Biology who has an excellent publication record and can demonstrate a reputation for internationally recognised research. Your research interests will complement existing strengths in the Department of Biology, which range from genome organisation to global change biology and which use theoretical, analytical and experimental approaches. You should have a PhD or equivalent and be able to demonstrate a strong commitment to the promotion of teaching and learning. You will be expected to participate actively in research supervision, management and administration.

You are invited to make an informal enquiry to Professor Ian Graham (Head, Department of Biology; (+44) 01904 328507), Professor Jane Hill (Jane.Hill@york.ac.uk) or Professor Michael Brockhurst ((+44) 01904 328576; Michael.Brockhurst@york.ac.uk). Please do not send applications to the above.

For full details and application process please visit https://jobs.york.ac.uk/wd/-plsql/wd_portal.show_job?p_web_site_id=-3885&p_web_page_id=194613 Interviews will be held on Thursday 23 October 2014.

“Foster, GM” <glenda.foster@york.ac.uk>

UYork EvolutionaryBiology

Lecturer in Evolutionary Biology, University of York

The Department of Biology at University of York is seeking to appoint a Lecturer in Evolutionary Biology (equivalent to Assistant Professor) who has an excellent publication record and can demonstrate a reputation for internationally recognised research. Your research interests will complement existing strengths in the Department of Biology, which range from genome organisation to global change biology and which use theoretical, analytical and experimental approaches. You should have a PhD or equivalent and be able to demonstrate a strong commitment to the promotion of teaching and learning. You will be expected to participate actively in research supervision, management and administration.

York is one of the most successful universities in the UK. With world-class activity across the spectrum from the physical sciences, life sciences, and social sciences

to the humanities, we have been recognised as one of the top 100 universities in the world, gaining outstanding results in official assessments of our research and teaching. The Department of Biology is the first biology department in Britain to receive a Gold Athena Swan Award which recognises success in supporting the careers of women in science.

You are invited to make an informal enquiry to Professor Ian Graham (Head, Department of Biology; (+44) 01904 328507), Professor Jane Hill (Jane.Hill@york.ac.uk) or Professor Michael Brockhurst (Michael.Brockhurst@york.ac.uk).

Interviews will be held on Thursday 23 October 2014.

https://jobs.york.ac.uk/wd/plsql/wd_portal.show_job?p_web_site_id=-3885&p_web_page_id=194613

YaleU NatlUSingapore EvolutionaryBiology

FACULTY POSITIONS IN LIFE SCIENCES

Yale-NUS College, a recently established college of liberal arts and sciences founded by Yale University and the National University of Singapore (NUS) is hiring one or more tenure-track or tenured faculty members to complement our existing biology faculty.

Preference will be given to those with an ability to teach across disciplinary boundaries and whose research

is suitable to the involvement of undergraduates at a small, undergraduate college. Examples might include computational biology, microbial physiology, and developmental genetics of model organisms, but these examples are not meant to preclude any other area of research.

Successful candidates will teach both within their specialties and in the Yale-NUS Common Curriculum, an innovative set of required courses that include Scientific Inquiry, Quantitative Reasoning, and Foundations of Science (or Integrated Science for those likely to major in science). (<http://www.yale-nus.edu.sg/curriculum/common-curriculum/>)

Salary, benefits, and leave policies will be competitive at an international level. Full-time appointments are preferred, but we are open to other arrangements in specific cases. Yale-NUS College supports appropriate faculty research efforts through start-up grants, research and travel allowances, and encourages faculty to apply for a range of external support.

Review of applications will begin October 1, 2014, and continue until the positions are filled. Inquiries should be made to the Science Search Committee Chair, Jon Berrick, Professor of Science, Yale-NUS College, yale-nus.college@yale.edu

With a highly international student body, the College values diversity and is committed to equality of opportunity. For additional information about Yale-NUS College, living in Singapore, and the faculty hiring process, including submission guidelines, and to apply, we invite you to our web site at: <http://www.yale-nus.edu.sg/careers/faculty/> . life.sciences.search@yale-nus.edu.sg

Other

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CallForSubmissions EvolutionOfBehaviouralMechanisms

We would like to invite submissions for a special issue on 'The evolution of behavioural mechanisms' in the journal *Current Zoology*, to appear early next year:

www.currentzoology.org/newsdetail.asp?id=1606 Possible subtopics include (but are not limited to) the following:

- Neuroendocrine mechanisms of behaviour
- The evolution of learning
- Fixed versus flexible behaviour
- Heuristics and rules of thumb
- Mood, emotion and cognitive biases
- Information processing and neural networks
- Constraints on adaptive behaviour

All submissions (including original research articles, reviews and opinion pieces) will be considered but preference will be given to those that explicitly integrate evolutionary and mechanistic perspectives. Manuscripts will be subject to the usual peer review process and editorial revision. Note that there are no publication charges.

If you wish to contribute an article, please send a provisional title and abstract to madorganiser@gmail.com by 1 September 2014. We will then invite selected authors to submit full articles by 1 November 2014.

Best wishes

Tim

James A. R. Marshall, Tim W. Fawcett & Andrew D. Higginson Guest Editors, 'The Evolution of Behavioural Mechanisms' www.currentzoology.org/newsdetail.asp?id06 Functional studies of animal behaviour traditionally ignore the psychological and physiological mechanisms involved. Yet often, mechanistic details can crucially affect the behaviour we observe. For a more complete understanding of animal behaviour, we need to study the adaptive value of the underlying mechanisms and the constraints on their evolution. This special issue of *Current Zoology* will showcase an emerging line of research that directly addresses the evolution of behavioural mechanisms. How do animals reach adaptive solutions? What information-processing rules do they use? Why is behaviour sometimes irrational? Why are cognitive systems biased?

How do animals deal with uncertainty? When is flexible behaviour favoured over rigid behaviour? These questions are central to understanding how selection shapes behaviour. The special issue will cover theoretical and empirical research, integrate functional and mechanistic approaches, and draw on insights from a range of sub-disciplines to offer a diversity of perspectives on animal behaviour.

–

Dr Tim W. Fawcett Room 2B07 School of Biological Sciences Life Sciences Building University of Bristol 24 Tyndall Avenue Bristol BS8 1TQ United Kingdom

+44 117 3941412 office (shared line) +44 7789 126382 mobile

tim.fawcett@cantab.net

www.timwfawcett.com madorganiser@gmail.com

EarlyCareer Survey

Hello,

Please share a link to my follow-up survey on post-doc/fellowship applications in early career researchers: <https://www.surveymonkey.com/s/phdpostdocsurvey> Thank you very much for your help!

Fiona

Dr Fiona C Ingleby Postdoctoral Research Fellow University of Sussex

Email: F.Ingleby@sussex.ac.uk Website: fionaingleby.weebly.com Tel: +44(0)1273678559

Fiona Ingleby <F.Ingleby@sussex.ac.uk>

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>

FSTAT Fst question

Dear all,

I am using FSTAT to calculate various F-statistics. However, I am struggling to find my Fst p-values. I have found a couple of papers online, both of which contradict the other. Can anyone please point me in the right direction?

Thanks in advance, Samantha Beck
(bsp22a@bangor.ac.uk)

Molecular Ecology & Fisheries Genetics Laboratory
Bangor University North Wales

Samantha Beck <bsp22a@bangor.ac.uk>

iDiv Leipzig callForProposals

sDiv, the Synthesis Centre of iDiv* (Leipzig, Germany) has opened a new call for Workshops, Postdocs and (short term) Sabbaticals to be held at iDiv, starting June 2015.

Please see on our webpage: <http://www.idiv.de/sdiv/-calls> for more information.

Please spread this information among your colleagues and networks, post it on your lab information board.

Don't hesitate to ask me if you have further questions.

*iDiv, the German Centre for Integrative Biodiversity Research, is a research centre in Leipzig (Germany), funded by the German Research Foundation (DFG), consisting of 8 professorships and their staff, a graduate school, a strong Bioinformatics, IT & outreach unit and sDiv, the synthesis centre. The central mission of iDiv is to promote theory-driven synthesis and data-driven theory in biodiversity sciences and to provide the scientific foundation for a sustainable management of biodiversity.

Thanks a lot & with best regards from Leipzig,

sMarten Winter Scientific Coordinator of sDiv

Dr. Marten Winter Scientific Coordinator /
Wissenschaftlicher Koordinator Synthesis Centre for Biodiversity Sciences - sDiv
Phone +49(0)341-97-33129 Fax +49(0)341-97-39358 Email marten.winter@idiv.de Homepage www.idiv.de/-sdiv/coordinator/vcard_item_309394/detail
German Centre for Integrative Biodiversity Research (iDiv)
Halle-Jena-Leipzig Deutscher Platz 5e 04103 Leipzig Germany

iDiv ist eine zentrale Einrichtung der Universität Leipzig im Sinne des §92 Abs. 1 SächsHSFG und wird zusammen mit der Martin-Luther-Universität Halle-Wittenberg und der Friedrich-Schiller-Universität Jena betrieben sowie in Kooperation mit dem Helmholtz-Zentrum für Umweltforschung GmbH - UFZ. Beteiligte Kooperationspartner sind die folgenden außeruniversitären Forschungseinrichtungen: das Helmholtz-Zentrum für Umweltforschung GmbH - UFZ, das Max-Planck-Institut für Biogeochemie (MPI BGC), das Max-Planck-Institut für chemische Ökologie (MPI CE), das Max-Planck-Institut für evolutionäre Anthropolo-

gie (MPI EVA), das Leibniz-Institut Deutsche Sammlung von Mikroorganismen und Zellkulturen (DSMZ), das Leibniz-Institut für Pflanzenbiochemie (IPB), das Leibniz-Institut für Pflanzengenetik und Kulturpflanzenforschung (IPK) und das Leibniz-Institut Senckenberg Museum für Naturkunde Görlitz (SMNG). USt-IdNr. DE 141510383

“Dr. Winter, Marten” <marten.winter@idiv.de>

Joseph Grinnell Medal Call Nominations

Call for Nominations

Joseph Grinnell Medal

University of California, Berkeley

The Museum of Vertebrate Zoology at UC Berkeley solicits nominations for the Joseph Grinnell Medal. This award is given every five years to a senior scientist who exemplifies a commitment to natural history research and is making fundamental empirical and conceptual contributions to ecology and evolution. The award was established in 1983 and named after Joseph Grinnell, the founding director of the UC Berkeley Museum of Vertebrate Zoology. Past recipients include George A. Bartholomew, James H. Brown, David B. Wake, Peter and Rosemary Grant, and Michael J. Ryan. Nominations should include a CV and supporting letter and should be sent to Michael Nachman, Director MVZ (mnachman@berkeley.edu), by October 1, 2014.

Michael Nachman Director, Museum of Vertebrate Zoology Professor, Department of Integrative Biology 3101 Valley Life Sciences Building University of California, Berkeley Berkeley, CA 94720-3160

(510) 642-1792

mnachman@berkeley.edu

MonashU Volunteer Field Assist Invasive Plants

The Hodgins lab at Monash University, Melbourne, is looking for a volunteer for a three-week field trip around Europe, from September 15 to October 6, 2014

Our lab is conducting research on the invasive plant common ragweed (**Ambrosia artemisiifolia**). The main focus is to understand the nature of rapid adaptation through genomic and ecological studies. The advertised fieldwork consists of the collection of **A. artemisiifolia** samples throughout its introduced European range (most of Europe).

This volunteer placement will allow you get engaged in field work while visiting the many diverse parts of Europe. Accommodation and travel costs within Europe will be covered. Airfare between country of residence and Europe can be negotiated.

The candidate must be able to travel around Europe (including central and eastern Europe, excluding Belarus, Russia and Ukraine) without needing visas, should not have strong hay fever, be motivated, sociable and not shy of long working days. Candidates with a full drivers license, field work experience and ecological/genomic interests are preferred.

Applications are open now and closes 25th of August! Please send a short motivation (max 500 words), CV (max 2 pages) and nationality (for visa requirements) to: lotte.van.boheemen@monash.edu www.hodginslab.com Lotte Anna van Boheemen PhD Research Candidate, Hodgins Lab School of Biological Sciences Monash University, Clayton Campus Wellington Rd, Clayton VIC 3800, Australia Mob: +61 4 8156 8875+61 4 8156 8875 Ph: +61 3 9902 0142+61 3 9902 0142 lotte.van.boheemen@monash.edu

- au.linkedin.com/in/lottevanboheemen/en

Lotte van Boheemen <lotte.van.boheemen@monash.edu>

Plant Family survey

We would like to invite everyone to participate in a survey on family boundaries in vascular plants:

<https://www.surveymonkey.com/s/Plantfamilies> A new Angiosperm Phylogeny Group classification is in preparation to reflect research published since APGIII in 2009. This survey is an academic research project independent from the Angiosperm Phylogeny Group and its results will be used to inform the decision making process. Further details are available in the survey introductory text.

We would also be grateful for your help in publicising this survey as widely as possible.

Many thanks

Maria

Dr Maria Vorontsova Grass Taxonomist Herbarium, Library, Art & Archives Royal Botanic Gardens, Kew Richmond Surrey TW9 3AE United Kingdom

Maria Vorontsova <M.Vorontsova@kew.org>

PuertoRico FieldVolunteers AnoleEvolution

Field Volunteer Needed for Anole Research in Puerto Rico

I am looking for two field assistants to survey populations of *Anolis cristatellus* in Puerto Rico from October 12 - November 23, 2014. This project is part of my dissertation research at the University of Massachusetts Boston. Daily activities include searching for and capturing lizards in both forest and human dominated habitats (e.g. college campuses), collecting habitat data, and taking morphological measurements on lizards. We will work long hours on most days (beginning 7-8am), with about half of the day in the field and half indoors collecting data. Applicants should be physically fit and be prepared for very hot and humid work conditions. Phone and internet contact will be limited at times. Applicant must be able to work independently and be comfortable handling lizards, should be enthusiastic about reptiles, and have a good work ethic. Ideal applicants will have research or field experience with herpetofauna and be conversational to fluent in Spanish. This opportunity is unpaid, but all expenses (airfare from the US, food, lodging, and incidentals) will be covered. For more information about the Revell lab, see: <http://-faculty.umb.edu/liam.revell/> If interested, please contact Kristin Winchell: Kristin.Winchell001@umb.edu with a brief letter describing why you are interested in this position and any relevant research experience along with your CV and 2 professional references that I may contact by email. I will review applications as they arrive until the positions are filled.

Kristin.Winchell001@umb.edu

RNA-seqlopedia WebResource

Dear EvolDir Community,

We are pleased to announce the RNA-seqlopedia:

<http://rnaseq.uoregon.edu/> The RNA-seqlopedia is meant as a resource for researchers trying to utilize RNA-seq protocols for their research, including de novo assembly of transcriptomes as well as quantification of gene expression. The site focuses on multiple aspects of RNA-seq work including experimental design, molecular protocols, and bioinformatic analyses.

We realize that the site does not yet cover all aspects of transcriptomic analysis, and undoubtedly contains errors or dated information that will be modified. We will continue to update the site and add to its content, particularly via input from the scientific community, so we request your input! We hope that the RNA-seqlopedia will prove to be a useful research resource for those interested in transcriptomic analyses using second (and third) generation sequencing.

The site was made possible by a grant from the NIH National Center for Research Resources, and is being created and maintained by the Cresko Lab at the University of Oregon.

If you have any feedback or suggestions, please write us.

Sincerely,

Clay Small <csmall@uoregon.edu> Julian Catchen <jcatchen@uoregon.edu>
Susie Bassham <sbassham@uoregon.edu> Bill Cresko <cresko@uoregon.edu>

William A. Cresko, Ph.D. Associate Professor of Biology Director, Institute of Ecology and Evolution University of Oregon www.creskolab.uoregon.edu; @wcresko

wcresko@uoregon.edu

Software TreeVisualization

Scalable visualization of phylogenies and 2D/3D image

collections

I have released a new program, “Ceiba” (vers. 1.05), for visualization and navigation of a large phylogenetic tree, and (optionally) annotation of that tree with collections of images. It has been tested on trees with 55,000 leaves and the same number of images. Images can be either 2D digital photographs or 3D surface models such as those obtained from CT scans of biological specimens. Ceiba is not a program for building phylogenies or analyzing comparative data. It is a program for tree visualization, exploration, and education. It provides interactive 3D and 2D tree layouts in a hierarchical display meant to ease navigation in a potentially very large and complex tree. Some features are aimed at researchers interested in quickly navigating across a phylogenetic tree and interacting with its annotations; others are tailored to more naive users interacting with the tree in an educational setting, such as an outreach exhibit.

The program reads Nexus and Newick formatted trees, and can take as input a phylogenetic classification scheme the user may provide to annotate major clades in the tree. A manual, data sets, source code (distributed under a GPL license) and binaries for OS X are available at <http://sourceforge.net/projects/ceiba>. It has also been compiled successfully on Linux platforms. A brief paper describing the program is available (Sanderson, M. J. 2014. Ceiba: Scalable visualization of phylogenies and 2D/3D image collections. *Bioinformatics*, 30: 2506-2507).

Michael J. Sanderson, Professor Department of Ecology and Evolutionary Biology University of Arizona Tucson, AZ 85721

Office: BSW 412 Phone:520-626-6848
email:sanderm@email.arizona.edu

lab web site: <http://loco.biosci.arizona.edu> Ceiba phylogenetic tree visualization: <http://sourceforge.net/projects/ceiba> PhyLoTA Browser: <http://phylo.ta.net> r8s software: <http://loco.biosci.arizona.edu/r8s> Mike Sanderson <sanderm00@gmail.com>

Trinidad ResInterns FishEvolution

Research interns are needed to assist in a multi-disciplinary, multi-investigator, experimental study ecology and evolution in Trinidad. The research is led by Professor David Reznick at the University of

California, Riverside. We seek to integrate multiple biological fields for the study of the interactions between ecological and evolutionary processes in Trinidadian streams. Duties of the position include assisting in monthly censuses of fish populations (guppies) in montane streams. The monthly censuses include long hours of laboratory time. Qualifications: We seek interns who are entertaining the possibility of pursuing graduate studies in some area of ecology and evolution and who wish to gain some field research experience before entering graduate school. Research will take place in semi-remote areas of Trinidad sometimes under bad weather conditions. Applicants must be able to live and work well with others. Research will also involve carrying heavy packs over slippery and steep terrain. Applicants must be in good physical condition and be able to meet the demands of field research under these conditions. Ability to drive a standard transmission vehicle is desirable but not required. Applicants with first-aid/first responder training, skills in automobile maintenance, and construction skills are highly desirable. Please address these skills when applying.

Interns will be required to spend a minimum of 3-months in Trinidad, with possibility of extension. Starting dates are flexible, starting as early as November 2014. We will cover travel expenses and living expenses.

Applicants should send cover letter, CV and the names, phone numbers and e-mail addresses of three or more professional references to David Reznick (gupy@ucr.edu) and Andrés López-Sepulcre (alopez@biologie.ens.fr). At least two of the references should be academics.

Andrés López-Sepulcre <lopezsepulcre@gmail.com>

US pathogen experiments concern

I am writing to ask for the support of evolutionary biologists on an issue that lies at the intersection of *evolutionary biology, biosafety, and infectious diseases*, which has become more salient after recent incidents involving dangerous pathogens – flu, anthrax and small-pox – in federal labs in the US. The issue is the growing experimental effort to create – mainly through selection of during passage experiments – novel strains of influenza that are transmissible in ferrets, the leading animal model for human flu infection. A group of scientists and other concerned experts is calling for a

curtailment of such experiments until a serious, quantitative, disinterested risk assessment has been performed to ask whether these experiments offer unique benefits, unattainable by safer means, that justify their unique risks. We have called for an Asilomar-like meeting to start such a process, which would include all points of view under a neutral sponsorship.

These experiments create pathogens which, should an accidental human infection occur, have the potential to spread widely and, in the worst case, lead to an uncontrolled pandemic. Recent events in federal labs in the US show that even in the leading laboratories, human error leads to the risk of human exposure. This is not an unusual occurrence; in the period 2004-10 there were two loss or release events PER WEEK < <http://www.absa.org/abj/abj/121704FAHenkel.pdf> > in bio-containment labs in the US involving Select Agents. While the probability of such incidents in any given lab in a year can be estimated from available data, these new “gain of function” experiments that deliberately enhance transmissibility of influenza viruses present orders of magnitude greater risk than anthrax or wild-type, poorly contagious avian flu strains, because of the risk of transmission. *This is an issue of population biology, because the consequences of accident in such an experiment are to the population through transmission, not only to the individual researcher.*

*I am writing you to invite you to join the Cambridge

Working Group, www.cambridgeworkinggroup.org, by supporting our statement that these experiments should be curtailed until there is a serious, quantitative, risk-benefit analysis of what benefits are uniquely obtainable by this exceptionally risky class of experiments, and whether these unique benefits justify the risks involved. Note that we are not calling for a halt to work on dangerous pathogens in general; our call focuses on the creation of novel, transmissible dangerous pathogens, one of many techniques available for studying such organisms but a uniquely dangerous one.*

The website < <http://www.cambridgeworkinggroup.org/> > has a link for you to add your support to that of a growing number of scientists and others, as well as several pages of links to relevant articles, press coverage and the like. A recent op-ed I wrote on the topic is here < http://www.nytimes.com/2014/06/30/opinion/-anthrax-thats-not-the-real-worry.html?_r=0 >. Much more detailed and technical information is available on the website or from me, mlipsitc@hsph.harvard.edu.

Marc Lipsitch, DPhil Professor of Epidemiology Director, Center for Communicable Disease Dynamics Harvard School of Public Health email: mlipsitc@hsph.harvard.edu Skype and Twitter: [mlipsitch](https://twitter.com/mlipsitch) <http://www.hsph.harvard.edu/faculty/marc-lipsitch/> <http://ccdd.hsph.harvard.edu> (617) 432-4559

Marc Lipsitch <mlipsitc@hsph.harvard.edu>

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ColumbiaU PopulationGenomics

POSTDOC IN POPULATION GENETICS, COLUMBIA UNIVERSITY

A postdoctoral position is available in Molly Przeworski's group at Columbia University.

Our research focuses on understanding mutation and recombination in humans and other species, and on modeling and detecting the footprints of natural selection in genetic variation data. For more information, see: <http://przeworski.c2b2.columbia.edu/> The specific postdoctoral project will be focused on the evolution of mutation rates in primates. Applicants for the position must have a background in bioinformatics, including experience with genomic data analysis, and strong quantitative skills. Programming skills in R and Perl/Python are essential.

The group is located in a newly renovated computational space on the main (Morningside Heights) campus of Columbia University, contiguous to labs run by Harmen Bussmaker, Dana Pe'er and Guy Sella. It benefits from close ties with these groups as well as those of Itzik Pe'er in Computer Science and Joe Pickrell at the New York Genome Center.

Postdoctoral fellows at Columbia have access to nice, subsidized housing within walking distance of campus.

Informal inquiries as well as applications (including a CV, copies of relevant publications and two letters of recommendation) should be emailed to Molly Przeworski at <molly.przew@gmail.com>. The start date is flexible, but can be immediate.

Molly Przeworski Professor Dept. of Biological Sciences
Dept. of Systems Biology Columbia University

molly.przew@gmail.com

CornellU QuantitativeEvolutionaryBiology

The Messer lab at Cornell has two openings for post-doctoral associates in quantitative evolutionary biology. Applicants should be interested in pursuing research that integrates theory and modeling approaches with the analysis of population genomic and molecular/clinical data to study the dynamics of rapid molecular adaptation.

The lab is located in the Department of Biological Statistics and Computational Biology within the vibrant research community of Cornell University. There are plenty of opportunities for the development of individual research projects as well as collaborative work. Applicants can expect a fun and creative research environment with extensive individual mentoring and support to develop their own interests and ideas. The lab is equipped with high-performance computing resources and can provide funding for sequencing projects.

Initial appointments are for one year with the possibility of extension. Salaries will be competitive and include university benefits.

Qualifications:

Candidates should have strong analytical skills, be proficient in at least one programming language (ideally C or C++) and have experience with the analysis of large-scale genomic data sets. However, interdisciplinary applicants with backgrounds in Physics, Computer Science, Statistics, Mathematics or a similar discipline that have a genuine interest in evolutionary biology are also encouraged to apply. Applicants must have a PhD at the time of the appointment.

To apply, applicants should email a CV, description of research interests and experience (maximum two pages) and contact information for two references, combined in a single pdf document, directly to Philipp Messer

(messer@cornell.edu). Review of applications will start immediately and will continue until the positions are filled.

Philipp W. Messer Department of Biological Statistics and Computational Biology Cornell University 102J Weill Hall, Ithaca, NY 14853 phone: 408-636-8701 <http://messerlab.org> philipp.messer@gmail.com

Edinburgh HostPathogenEvoEcol

Post Doctoral Research Associate in host-pathogen evolutionary ecology

Vacancy Ref: : 031106 Closing Date : 22-Sep-2014

The Vale Lab at the University of Edinburgh is looking to recruit a Post-doctoral Research Associate (PDRA). The Vale lab is closely affiliated with the Centre for Immunity, Infection and Evolution (<http://ciie.bio.ed.ac.uk/>) and works on the evolutionary ecology of infectious disease, focusing on the fruit fly *Drosophila* as model host of viral infection. The post-doctoral position will be funded by a Society in Science - Branco Weiss grant to investigate how individual variation in resistance and tolerance may influence disease spread and pathogen evolution.

The specific focus of the project is flexible according to the interests of the successful candidate, but should ideally address the genetic basis of variation in host tolerance to viral infection, or the consequences of this variation for disease transmission and viral evolution.

This project will take advantage of the vast resources offered by *Drosophila* as a model system for the evolutionary ecology and genetics of host-pathogen interactions. Specifically, key infection phenotypes pertaining to resistance and tolerance will be measured on lines derived from the *Drosophila* Genetic Reference Panel (DGRP). The fully sequenced genomes of these lines allow high resolution mapping of phenotypes to genome-wide SNP data. The emphasis in the lab is to achieve a multifaceted view of host health, complimenting traditional measures such as host survival with more subtle but equally important measures of host morbidity such as fecundity, activity and sleep cycles, feeding rate, or foraging and courtship behaviours. Depending on the candidate's interests and skills, there is therefore scope to focus on host life-history, physiological health, or sickness behaviours under infection. We therefore welcome applications from candidates with a wide range

of interests.

We are looking for someone who is self-driven and looking to work independently within a small but dynamic group. Candidates should have or should shortly obtain a PhD with a strong background in host-pathogen interactions, evolutionary ecology, evolutionary genetics, or similar field, with the demonstrated ability to publish in peer-reviewed journals. The ideal candidate should have previous experience in designing and executing large experiments with *Drosophila*, or other invertebrates. Experience with molecular techniques (RNA extraction, PCR, qPCR, cell culture) would be particularly advantageous, as these skills are central to the project.

The position is initially available for 24 months, with the possibility of extension. The starting date is flexible, but early (Jan/Feb) 2015 is preferred.

Informal inquiries can be made directly to Dr. Pedro Vale (pedro.vale@ed.ac.uk), but full applications must be made by following the link to the University of Edinburgh's recruitment website (or searching the for vacancy Ref 031106):

https://www.vacancies.ed.ac.uk/pls/corehrrecruit/erq_jobspec_version_4.jobspec?p_id=031106

The online system allows you to submit a CV and other attachments.

For further information about our research, please see: <http://pedrovale.bio.ed.ac.uk/> We look forward to receiving your application.

– Pedro F. Vale

Centre for Immunity, Infection and Evolution School of Biological Sciences, University of Edinburgh Ashworth Labs, Kings Buildings West Mains Road EH9 3JT Edinburgh Scotland, United Kingdom

pedro.vale@ed.ac.uk <http://pedrovale.bio.ed.ac.uk/> – The University of Edinburgh is a charitable body, registered in Scotland, with registration number SC005336.

Pedro Vale <pferrei2@staffmail.ed.ac.uk> Pedro Vale <pferrei2@staffmail.ed.ac.uk>

EmoryU MicrobialEvolutionaryBiology

Postdoctoral Research Associate Department of Biology, Emory University, Atlanta Georgia, 30307 Bruce

R. Levin, PI Experimental studies of the population and evolutionary biology of bacteria, antibiotic treatment and antibiotic resistance

Approximately half the time of the successful candidate for this position will be devoted to ongoing experimental studies of the pharmacodynamics of antibiotics and bacteria and the population and evolutionary dynamics of antibiotic treatment and resistance. These experiments will be performed in vitro (in plastic) with both planktonic and physically structured populations of *Staphylococcus aureus*, *Pseudomonas aeruginosa*, *Streptococcus pneumoniae*, and *E. coli* with single and pairs of antibiotics of different classes. The general goal of these experimental and the associated mathematical modeling studies is to improve the efficacy of antibiotic treatment protocols to clear bacterial infections whilst minimizing the likelihood of resistance emerging during the course of therapy. Of particular interest is to develop single and two-drug dosing regimes to treat infections with bacteria that are moderately non-susceptible (politically correct for resistant) to the treating antibiotic(s).

The other half of the time of the successful candidate will be devoted to independent studies of their own design on related projects of the population and evolutionary biology of bacteria and their viruses, plasmids and other accessory genetic elements.

Preference will be given to candidates that are passionate (fanatical) about research and of one of two ilk and experience: (1) Microbiologists and microbial molecular geneticists with an interest in and aptitude for quantitative studies of the population and evolutionary dynamics of bacteria. (2) Population and evolutionary biologists and geneticists with the extreme wisdom and good taste to work with (or want to work with) bacteria.

In addition to the usual CV and statement of research interest and accomplishments, CANDIDATES WILL ONLY BE CONSIDERED IF THEY INCLUDE, (i) a cover letter indicating why and how this laboratory and these project fits into their career goals and aspirations, and (ii) an ~2 page proposal for the independent research elements of this position. These proposals should clearly specify the questions being addressed and include an outline of how they will be addressed and answered.

Emory University is an Equal Opportunity/ Equal Access / Affirmative Action Employer, fully committed to achieving a diverse workforce. All qualified applicants will receive consideration for employment. Minorities that are under-represented in Population and Evolutionary Biology are encouraged to apply.

For Information about our Laboratory, our ongoing research and recent publications, click on www.eclf.net. Applications should be submitted to blevin@emory.edu.

Bruce R. Levin Samuel Candler Dobbs Professor Department of Biology Emory University 1510 Clifton Rd. Atlanta, GA 30322 USA (404) 727 2826 Office (404) 727 2880 Fax blevin@emory.edu www.eclf.net "Levin, Bruce" <blevin@emory.edu>

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 pathogens). The objectives will be to i) test for the influence of sampling strategy on the reliability 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 & Stéphane 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 Méditerranéenne (HM) du Département Ressources Biologiques et Environnement (RBE)- UMR 212 - Ecosystème Marin Exploité (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 Méditerranéenne 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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This message has been arbitrarily truncated at 5000 characters. To read the entire message look it up at <http://life.biology-mcmaster.ca/~brian/evodir.html>

GoiasStateU Brazil PlanktonicBiodiversity

We have a 2-yr postdoc position to work in ecological and evolutionary analyses of the planktonic microbiota of different freshwater systems in Brazil using High-Throughput sequencing (metagenetics based on MiSeq). The project is part of the "Science without Borders" initiative of the Brazilian government and involves theoretical (Joao Carlos Nabout, José Alexandre Diniz Filho) as well as molecular (Ramiro Logares, Thannya Soares, Mariana de Campos Telles) ecologists from Brazil and Spain. The ideal candidate should have a background in ecology (aquatic preferably) as well as experience in molecular-ecology laboratory and/or bioinformatics. Most of the work will be developed in Goiás State University (near Goiania, Brazil), but there will be opportunities for training and bioinformatics data analysis at the Institute of Marine Sciences (CSIC) in Barcelona, Spain.

Details:

Salary: 4,100 R\$ (approximately 1,750 US dollars)

Starting date: September/October 2014

End of contract: December 2016

Application deadline: 22nd August, 2014

To apply: send your CV (max. 4 pages) and a short (max. 1 page) motivation letter to Ramiro Logares and João Carlos Nabout (contacts below)

Contact/Questions:

Ramiro Logares: ramiro.logares@gmail.com

João Carlos Nabout: jcnabout@gmail.com

Ramiro Logares-Haurie <ramiro.logares@icm.csic.es>

GuangxiU 2 PlantSystematics

Two Postdoctoral positions available at Guangxi University, Nanning, China

The Plant Ecophysiology and Evolution Group at Guangxi University (Nanning, China) is seeking two highly motivated and productive postdoctoral researchers to engage in 2-year projects in (1) Plant Ecophysiology and (2) Molecular systematics & historical biogeography.

Projects and Qualifications:

(1) Plant Ecophysiology The position requires an individual with a PhD in plant ecophysiology and preferentially a good background in the anatomy and hydraulics of stems or leaves, water relations, or photosynthesis and photoprotection. The postdoctoral fellow will be expected to work on mangrove plants on the coast of southern China, or plants on karst lands in Guangxi province. The candidate should have a proven track record of successful publication in peer-reviewed journals, and will work as part of a team studying the evolution and ecophysiology of selected plant lineages in Asia.

(2) Molecular systematics & historical biogeography Candidates should have a PhD with a strong background in evolutionary biology, molecular phylogenetics and dating as well as biogeographical analyses, and should have a proven track record of successful publication in peer-reviewed journals. Experience in botanical collecting, taxonomy, genomics and/or bioinformatics are considered a major advantage when applying. The candidate will be part of a team studying the evolution and diversification of major plant lineages in Asia and Africa. A number of topics are available for discussion following an accepted application.

Opportunities for the development of individual research projects as well as collaborative work exist within our lab and with external groups. Candidates will be part of a growing and multidisciplinary team of Chinese and foreign researchers, providing a creative and stimulating research environment. Both positions come with an annual salary, and include housing on campus, as well as research funding for up to two years (may be extended with a third year following satisfactory evaluation). Opportunities exist to apply for additional research funding through university to

the national postdoctorate program and provincial programmes. Knowledge of Chinese is not mandatory, but opportunities exist to attend weekly courses in Mandarin. The working language in our research group is English.

Our research group is part of the College of Forestry, under the State Key Laboratory of Conservation and Utilization of Subtropical Agro-bioresources, which houses a wide range of laboratories and research teams. We are centrally located on the large Nanning city campus, with easy access to on-campus housing and day-to-day facilities for life on campus. Guangxi University (>25,000 students) in Nanning is part of the National 211 University Scheme of China (http://en.wikipedia.org/wiki/Project_211) and aims to become a major research hub in Southern China. The city forms the natural gateway to South-East Asia, with Vietnam a mere 300kms away and direct international connecting flights available to most major cities in Asia.

Please visit our website for more information on our group and research: <http://www.plant-ecophysiology-evolution.com/> To apply for a position, please email a statement of research interests and goals, a curriculum vitae, and the email addresses of three references to Prof. Cao Kunfang (kunfangcao@gxu.edu.cn). Review of applications will begin October 1st, 2014, and will continue until the positions have been filled.

jsstrijk@hotmail.com

KunmingInst EvolutionModelling

Postdoctoral Researcher Behaviour and Evolution modelling Fixed-term for two years Kunming Institute of Zoology, China <http://english.kiz.cas.cn/> A postdoc position is available based at the Kunming Institute of Zoology, People's Republic of China. The position is for two years and will be funded by a National Science Foundation of China (NSFC) research grant to Dr. Rui Wu Wang (Kunming Institute of Zoology) and Prof. Lei Shi (Yunnan University of Finance and Economics, Kunming). The post-holder will join a research team working on the evolutionary roots of cooperation both theoretically and empirically on several model species (humans, fig/wasps, bees, etc.).

The work will involve the modelling of cooperative behavior and evolutionary game theory. Ideal candidates will have a Ph.D. in evolutionary ecology, have experience in mathematical modelling, able to use the rel-

evant software, and have published their work in peer reviewed journals. info@liberero.ca

The salary will be up to 10,000 RMB per month including various allowances, depending on experience. Publications in high IF journals will lead to a bonus. If required, housing, visa and work permit enabling the successful candidate to live and work in China will be arranged by our institute.

Interested candidates shall send by end of October a full CV including the contact details of two referees, and a cover letter explaining why they want the position, to Rui-Wu Wang: ruiwukiz@hotmail.com

The position will remain open until a suitable applicant is found. It is envisaged that the position will begin in 2015.

Experimental and Theoretical Ecology Group Kunming Institute of Zoology Chinese Academy of Sciences Jiaochang Donglu East road 32, 650223 Kunming - China <http://159.226.149.45/demo/> r.pansini@gmail.com

LiberEroApplications Conservation

Liber Ero Fellowship Program - call for post-doctoral applications

We are delighted to announce the third call for post-doctoral applications for the Liber Ero Fellowship Program. The Liber Ero Fellowship Program supports exceptional post-doctoral fellows who address pressing conservation challenges of relevance to Canada. The Program aims to develop the next generation of conservation scientists, trained in the latest methods and in the skills necessary to affect policy and improve conservation of Canada's wild places and natural resources.

The Liber Ero Fellowship is open to candidates from any country whose research furthers conservation goals within Canada. Fellows must be hosted at a Canadian institution, with mentorship teams drawing from expertise in non-governmental organizations, government, and universities. Applications are now being accepted, with a deadline of November 1, 2014. See <http://liberero.ca/> for more details.

Please see <http://liberero.ca/meet-the-fellows/> to read about the current cohort of fellows and their projects.

Contact information:

McMasterU ModellingOriginOfLife

Post-doctoral position on Modelling the Origin of Life and Cooperation in the RNA World

A post-doc position is available to work with Dr Paul Higgs at McMaster University, Hamilton, Ontario (<http://physwww.mcmaster.ca/~higbsp/Home.htm>). We will study the origin of life from prebiotic chemistry using mathematical models and computer simulations of replicating molecular systems. We will investigate the fidelity of replication and the error threshold in spatial models of cooperative replicators. We also want to assess the likelihood of emergence of an autocatalytic network relative to a general RNA replicase.

The applicant should have a PhD in a relevant discipline such as mathematical/computational biology or statistical physics and should have some previous experience with differential equation models and/or stochastic simulations. The applicant will work within the Origins Institute, which focuses on interdisciplinary science questions including Astrobiology and the Origins of Life (<http://origins.mcmaster.ca/>). There will be an opportunity to work with experimentalist colleagues studying RNA evolution in the laboratory (Dr Niles Lehman of Portland State University and Dr Peter Unrau of Simon Fraser University).

Duration - 1 year. Salary - \$45000. Start Time - Fall 2014 or asap. Please send a CV and cover letter to Paul Higgs - higbsp@mcmaster.ca

Paul Higgs <higbsp@mcmaster.ca>

MNH Stockholm MadagascarBeetleEvolution

Postdoctoral position in Systematics and Evolution

A two-year postdoctoral position in Systematics and Evolution is available in the Department of Zoology, Swedish Museum of Natural History, Stockholm.

Project description "Species-level phylogeny and delimitation in a biodiversity hotspot"

Madagascar is well known for its high level of endemism, basically across every organism group. The combination with severe habitat degradation has “rewarded” the island with a top placement among biodiversity hotspots. The increased evolutionary research interest last twenty years has focused on vertebrates and surprisingly little is yet known about the colonization and speciation history of most insect groups. Using Hydradephagan water beetles as model organisms this project will use dated phylogenetic frameworks to analyze colonization and speciation patterns across replicated endemic radiations and clades with representatives but seemingly without radiations. Intraspecific genetic variation will be sampled to estimate parameters in the multispecies coalescent model as a window into the speciation process. The project also includes evaluation of species delimitation methods on endemic radiations with non-reciprocally monophyletic species in gene-trees.

Tasks The position is part of a research project and group (Bergsten Systematic Entomology Lab: http://www.nrm.se/english/-researchandcollections/researchdivision/entomology/-staff/johannesbergsten.6881_en.html) at the Swedish Museum of Natural History on the taxonomy, faunistics, phylogeny, colonization, speciation and evolutionary history of Hydradephagan water beetles on Madagascar. The work includes DNA labwork, fieldwork, data analyses, help with supervision of student projects, article- and grant writing. The DNA labwork will be conducted at the Molecular Systematics Laboratory at the Swedish Museum of Natural History.

Qualifications To be qualified for the postdoctoral position the applicant needs to have a PhD degree (or have a PhD thesis ready with a date fixed within 2014 for thesis defense) in Systematics/Phylogenetics/Evolutionary Biology or similar direction of studies. The PhD degree should have been received no more than six years before the deadline for applications.

Criteria for selection Among qualified applicants selection is made according to scientific merits, quality of the PhD thesis, personal skills, the applicant’s documented knowledge in subjects of relevance for the research area, ability to master English language (both spoken and written), analytical ability, creativity, initiative, independence, teamwork and ability to cooperate. Previous experience with molecular (DNA) lab work and knowledge of relevant theory and methods (phylogenetic, dating, species delimitation, biogeographic and diversification rate analyses) weigh heavily. Experience with entomological fieldwork, taxonomic work and French language (spoken in Madagas-

car) are considered as additional qualifications.

Terms of employment The position is for two years full time. Start of position should be in 2014 but exact date up to negotiation with the successful candidate. The position is financed by a grant from the Swedish Research Council, VR.

For more information, please contact Johannes Bergsten (johannes.bergsten@nrm.se). Union representative is Bodil Kajrup, SACO-S. Both can be reached at telephone number + 46 8 519 540 00.

To be included in the application Maximum one A4-page of personal presentation and your reasons for applying (letter of intent). Curriculum vitae with publication list. Copy of three selected publications. Copy of PhD thesis and PhD degree certificate or date of scheduled defense within 2014. Also provide a list of two persons who may act as references (with telephone numbers and e-mail addresses).

Please send your application, marked with dnr 2.3.1-603-2014, to rekrytering@nrm.se or to Swedish Museum of Natural History, P. O. Box 50007, SE-104 05 Stockholm, Sweden, no later than September 9, 2014.

Johannes Bergsten, PhD Senior Curator / Förste Intendent Research Division Swedish Museum of Natural History Box 50007 SE-104 05 Stockholm SWEDEN Visiting Address: Frescativägen 40 Phone: +46 8 5195 4192 Fax: +46 8 5195 4212 E-mail: johannes.bergsten@nrm.se http://www.nrm.se/en/menu/researchandcollections/departments/-entomology/staff/johannesbergsten.6881_en.html Johannes Bergsten <Johannes.Bergsten@nrm.se>

Montpellier Partially Clonal PopGenetics

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- Sète/Montpellier (Southern France). The candidate will work in the framework of a National research project (ANR Clonix; <http://www.ifremer.fr/-clonix/>) 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, sea-grasses, algae, aphids, human pathogens...). The objectives will be to i) test for the influence of sampling strategy on the reliability 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 Sète in close interaction with Solenn Stoeckel (INRA, Rennes) and with other partners of the project including Fabien Halkett & Stéphane 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://wwz.ifremer.fr/institut_eng/Ifremer-careers/-Research-grants/Call-for-candidates-for-the-2014-2015-post-doctoral-grants Contacts: Sophie Arnaud-Haond <sarnaud@ifremer.fr> Solenn Stoeckel <solenn.stoeckel@rennes.inra.fr>

Sophie Arnaud-Haond Institut Français de Recherche pour l'Exploitation de la MER Unité Halieutique Méditerranée (HM) du Département Ressources Biologiques et Environnement (RBE)- UMR 212 - Ecosystème Marin Exploité (EME) Bd Jean Monnet, BP 171, 34203 Sète 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 Méditerranéenne de l'Environnement Littoral (SMEL) 2 rue des Chantiers 34200 Sète Tel: (+33)(0)4 67 46 33 93 <http://wwz.ifremer.fr/-gdrmarco> <http://wwz.ifremer.fr/clonix> Sophie Arnaud <s-arnaud@univ-montp2.fr>

NorthCarolinaStateU PhytophthoraPopGenetics

NC State University Department of Plant Pathology Post-doctoral Associate V Biosurveillance and Genotyping of *Phytophthora infestans* in East Africa Starting September 15, 2014 (start date flexible)

The Department of Plant Pathology at NC State University in Raleigh is hiring a full-time postdoctoral associate beginning in the fall of 2014. The postdoctoral associate will work on a project on potato late blight in East Africa. The postdoctoral associate will develop and deploy novel genotyping and pathogen diagnostic tools and a disease early warning system to detect *P. infestans*. The research will empower women farmers in Africa by helping them to monitor, track and alert others to the presence of high risk pathogens and suggest control methods to mitigate their impacts.

The postdoctoral fellow will work on several aspects of this project including 1) Molecular genotyping strains of *Phytophthora infestans* using next gen sequencing and tracking evolutionary history of migrations; 2) the development of the novel diagnostic assays specific for *P. infestans*; 3) Deploy the bioassay in the field in East Africa; 4) Test for the presence of *P. infestans* in seed tubers in potato in NC and East Africa; 5) Develop a virtual APP for late blight on smartphones and crowd source the data collected into a cloud computing database and then map outbreaks back to a disease biosurveillance and early warning system for late blight Africa.

During their training, the postdoctoral associate will receive close mentoring from the program faculty. They will attend seminars and meetings, present their research at national research conferences, write papers, and hone their skills in specific methodological techniques. In addition, the postdoctoral associate will gain practical experience by helping to plan and run a large research project and by supervising graduate and undergraduate student research assistants.

Qualifications: PhD degree with expertise in plant pathology, ecology, and or population genetics of fungal pathogens is required. Experience with evolutionary and population genetics and diagnostics of fungal plant pathogens or related organisms. Field experience with smallholder farmers in East Africa is necessary. Expe-

rience with development of APPs for smartphones is desired. The ability to travel to East Africa is required.

Successful applicants from a variety of disciplines (e.g., plant pathology, plant biology ecology, evolutionary biology or genetics) are encouraged to apply. Applicants must have a good command of qualitative and/or quantitative methods used in the population genetics and ecology. Finally, applicants must have received their doctoral degree by the start date. The fellowship includes a competitive salary and plus health insurance.

To Apply: An application at the NC State employment website (<https://jobs.ncsu.edu/postings/-search%3futf8=%25E2%259C%2593&query>) is required (position number 00104130). A letter of interest, curriculum vitae, three letters of reference and two publications or papers should be submitted by email by August 15, 2014. Your letter of interest must detail how your skills and interests match specific opportunities provided by the post-doctoral fellowship. Please direct inquiries to Dr. Jean Ristaino jean_ristaino@ncsu.edu

NC State University is an equal opportunity employer committed to excellence through diversity and strongly encourages applications from all qualified applicants, including women and minorities.

Dr. Jean Beagle Ristaino William Neal Reynolds Distinguished Professor Senior Science Advisor and Jefferson Fellow, USAID Department of Plant Pathology, Room 2419 Gardner Hall NC State University, Raleigh, NC 27695 office 919 515-3257 fax 919 515-7716 lab 919 515-6808 cell 919 412-7314 <http://ristainolab.cals.ncsu.edu/> Jean_Ristaino@ncsu.edu

Jean Ristaino <jbr@ncsu.edu>

North Carolina State University Population Genomics

The Singh lab at North Carolina State University invites applications for a Postdoctoral Researcher position in population genomics. This project focuses on the causes and consequences of natural variation in recombination frequency in *Drosophila melanogaster*. Applicants must possess a PhD or equivalent in Biological Sciences or a related field. A strong background in population genetics, evolutionary genetics, experimental evolution, or meiosis is essential. Experience in genomics including the preparation of DNA and RNA samples for Next Generation Sequencing (Il-

lumina Platform) is required. Working knowledge of tools and methods for the analysis of genomic and transcriptomic data, and familiarity with scientific computing languages such as R, MATLAB, Python, or Perl is also required. Experience with *Drosophila* is preferred.

The successful candidate will interact with a diverse group of faculty, postdocs, and graduate students working in the areas of natural genetic variation at NC State. More information about the Singh lab can be found at <http://www4.ncsu.edu/~ndsingh>, and more information about the Department of Biological Sciences can be found at <http://bio.sciences.ncsu.edu/>. Review of application materials will begin immediately and continue until the position is filled. To apply, please visit <http://jobs.ncsu.edu/postings/40526>. ndsingh@ncsu.edu

Rennes Partially Asexual 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 characteristics 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 ag-

gregated 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: - Solem 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

Solem Stoeckel <solenn.stoeckel@rennes.inra.fr>

SantaFeInst EvolutionaryBiol

Santa Fe Institute Omidyar Postdoctoral Fellow

The Omidyar Fellowship at the Santa Fe Institute offers you:

- transdisciplinary collaboration with leading researchers worldwide - up to three years in residence in Santa Fe, New Mexico - discretionary research and collaboration funds - competitive salary and generous benefits - a structured leadership training program - unparalleled intellectual freedom Apply online www.santafe.edu/ofellowship

We will accept applications for the 2015 Cohort beginning 11 August and ending 24 October 2014. We will conduct candidate interviews in late January 2015 in

Santa Fe, NM.

The Omidyar Fellowship at the Santa Fe Institute is unique among postdoctoral appointments. The Institute has no formal programs or departments. Research is collaborative and spans the physical, natural, and social sciences. Most research is theoretical and/or computational in nature, although some research includes an empirical component. SFI averages 10 resident faculty, 100 external faculty, and 250 visitors per year. SFI's research themes and interests of its faculty and current fellows can be found at <http://www.santafe.edu/research>. As thought leaders who shape the future of science, Omidyar Fellows participate in a provocative training program structured to develop leadership skills throughout their three-year residencies and beyond. The program focuses on sustained mentoring relationships with SFI resident and external faculty, skill development workshops, off-campus research and teaching experiences, and the variety of scholarly leadership and science management opportunities at SFI.

Requirements:

- a Ph.D. in any discipline (or expected Ph.D. by September 2015) - strong computational and quantitative skills - an exemplary academic record - a proven ability to work both independently and collaboratively
- a demonstrated interest in multidisciplinary research
- evidence of the ability to think outside traditional paradigms Applications are welcome from:

- candidates from any country - candidates from any discipline - women and members of underrepresented groups are encouraged to apply SFI is an Equal Opportunity Employer.

Application Materials:

Interested candidates must submit the following:

Curriculum vitae (including publications list). Statement of research interests (max. 2 pages) including a short description of the research you would like to pursue and why.

Description of interest in SFI (max. 1 page) that describes your potential contribution to the SFI community and also explains the potential impact of SFI on your research. Consider addressing one or more of the following: What kind of input from other fields would most improve your future research? What type of multidisciplinary workshop might you want to organize during your Fellowship? What aspects of your present or future research are difficult to pursue in a traditional academic environment?

Three letters of recommendation from scholars who

know your work. (The letters should be sent independent of the application. When you complete the online application, please be prepared to provide e-mail addresses of the three individuals who will recommend you. SFI will contact them directly with instructions for submitting letters.)

(Optional) A copy of one paper you have written in English, either published or unpublished.

Inquiries: email to ofellowshipinfo@santafe.edu

Hilary Skolnik <hilary@santafe.edu>

TempleU PhylogeneticModelsSubstitution

Postdoctoral Research Associate: Mechanistic Phylogenetic Models for Amino Acid Substitution

Temple University

An NSF-funded postdoctoral research position is available in the research group of David Liberles (Temple University from November, 2014; currently at University of Wyoming). The position is guaranteed for 1 year with the possibility of extension with successful performance. The successful candidate will be expected to relocate to Philadelphia, PA, USA and a start date as soon as possible after 11/1/14 is desired.

The research project involves the construction and phylogenetic implementation of mechanistic models for amino acid substitution 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 proteins and/or 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. 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>

UCalifornia Riverside BeeSymbiontInteractions

A postdoctoral position is available in the newly established McFrederick Lab at the University of California, Riverside. The research focus of the McFrederick lab is the study of interactions between bacteria, fungi, and viruses and the resulting implications for bee health, in wild and solitary bees. The ideal candidate will have a strong background in evolutionary ecology and/or evolutionary genetics and experience with bioinformatic and computational analysis of NGS data, including comparative genomic analysis, phylogenomics, and/or NGS microbial community surveys. Knowledge of wild bee or insect biology and experimental manipulation of microbial communities is also a plus. The successful candidate will be expected to engage in field work, laboratory-based experiments, and bioinformatic analyses. Preferred start dates will fall between October 2014 and January 2015, and the position is available for a two-year term, conditioned on satisfactory performance in the first year.

APPLICATION: Applications should include a curriculum vitae, publications and manuscripts in press and a list of three to four letters of references that can be contacted. Candidates applying for this position can apply at: <https://aprecruit.ucr.edu/apply/JPF00185> .

Application deadline: Review of applications will begin September 1, 2013, but this position will remain open until filled.

*The University of California is an Affirmative Action / Equal Opportunity Employer committed to excellence through diversity, and strongly encourages applications from all qualified applicants, including women and minorities. *

Quinn S. McFrederick Quinn's Bee Blog < <http://melittology.wordpress.com/> >

Starting 10/1/2014 Assistant Professor Department of Entomology 900 University Avenue University of California, Riverside Riverside, CA 92521

quinnmcfrederick@gmail.com

UCambridge
EvolutionTransmissibleCancers

UCL-UNamur Belgium
EvolutionaryGenomics

Dear All,

I would like to draw your attention to two exciting new job openings for a Postdoctoral Fellow and a Bioinformatician to study the genetics of transmissible cancers in dogs and Tasmanian devils at the University of Cambridge.

The two posts are part of a Wellcome Trust funded project within Dr Elizabeth Murchison¹'s research group at the Department of Veterinary Medicine at the University of Cambridge. The project will involve genetic analysis of hundreds of dog and Tasmanian devil tumour samples in order to investigate the evolution of transmissible cancers. Our analysis may provide insights into how and why transmissible cancers emerge, with implications for broader understanding of cancer evolution. These roles provide an exciting opportunity to combine cancer genomics with conservation biology and veterinary research to study the emergence, evolution and spread of transmissible cancers.

We are looking for two highly motivated and enthusiastic individuals to fill these roles.

Please find more information in the following links:
Bioinformatician: <http://www.jobs.cam.ac.uk/job/4417/> Postdoctoral Fellow: <http://www.jobs.cam.ac.uk/job/4445/> Please don't hesitate to contact me for more information about the roles.

Best regards,

Elizabeth Murchison

Elizabeth Murchison Reader in Comparative Oncology and Genetics Department of Veterinary Medicine University of Cambridge Madingley Road Cambridge CB3 0ES United Kingdom

Phone: +44(0)1223766497 Email: epm27@cam.ac.uk
<http://www.vet.cam.ac.uk/directory/murchison> Elizabeth Murchison <epm27@cam.ac.uk>

*Postdoctoral position in Evolutionary Genomics and Molecular and Cellular biology *

*/Molecular and cellular mechanisms of hyper-resistance to stress in the asexual bdelloid rotifer *Adineta vaga*/**

**

A 3-year postdoctoral research position is available in the group of Biochemistry, Biophysics and Molecular Genetics of Micro-organisms at the life Science Institute (ISV) of the Catholic University of Louvain (UCL, Belgium) to take part in a collaborative ARC research program with the Research Units in Environmental and Evolutionary Biology (URBE) and in Cellular Biology (URBC) at the University of Namur (UNamur, Be).

This postdoc position is embedded within the research project entitled: 'Asexuality and 'immortality', bdelloid rotifers as an evolutionary 'scandal' and a model system in biology. This project is funded during 5 years and will start in October 2014.

Project:

Bdelloid rotifers are micro-organisms (animals) that have recently attracted much interest in the scientific community because of their ancient asexuality and their extreme resistance to stress, such as desiccation and high doses of ionizing radiation. They are capable to survive when their genome is shattered into small fragments and repair the DNA double strands breaks (DSBs) (see Hespeels et al., 2014). Repeated cycles of chromosomal repair are thought to promote allelic recombination and gene conversion in the absence of meiosis. Moreover desiccation and the induced DNA DSBs are also thought to provide a unique opportunity to acquire horizontally transferred genes, thereby contributing to the adaptive success of these organisms.

In this project, the mechanisms that make bdelloid rotifers unique in terms of evolutionary strategy and hyper-resistance to stress will be investigated based on genomic data recently obtained by our consortium for the bdelloid rotifer *Adineta vaga* (see Flot et al, 2013, Nature 500:453-7). Genomic approaches will be used to study the dynamics of *A. vaga* genome during cycles of desiccation/rehydration/radiation and to de-

cipher the genetic expression program that governs the different stages of its life-style. Molecular and cellular approaches will be developed to unveil and characterize the mechanisms that allow *A. vaga* to repair its shattered chromosomes and generate genetic diversity, as well as its dependence with respect to oxidative stress response. Finally, conditions for horizontal gene transfer and RNA interference will be investigated, opening the way to the development of reverse genetic strategies. The ultimate prospect of the project is to establish bdelloid rotifers as a new model system for the understanding of fundamental biological processes such as DNA repair, cell survival and senescence.

PIs of the consortium:

Prof. Bernard Hallet (ISV, UCL), Prof. Karine Van Doninck (URBE, UNamur), Dr. Florence Debacq-Chainiaux (URBC, UNamur)**

The involved consortium brings together experts in the fields of evolutionary biology and genomics (K. Van Doninck, URBE, UNamur), DNA recombination and genome plasticity (B. Hallet, ISV, UC) and oxidative stress response (F. Debacq-Chainiaux, URBC, UNamur). The appointed candidate will be expected to share its research time on both sites under the supervision of the three PIs of the consortium. The universities are at a distance of 35km from each other and easily connected by train.

Contacts:

Prof. Bernard Hallet, Bernard.hallet@uclouvain.be

Université Catholique de Louvain. Institut des Sciences de la Vie (ISV)

<http://www.uclouvain.be/en-isv.html> Prof. Karine Van Doninck, karine.vandoninck@unamur.be

University of Namur, Laboratory of Evolutionary Genetics and Ecology (<http://www.lege-unamur.be/>)

Qualifications:

We are looking for a post-doc with a strong interest and background in evolutionary genomics and molecular and cell biology. Expertise in the field of DNA repair and recombination, chromosome structure and dynamics, and/or genomics (NGS approach) is a valuable asset. Additional experience in cell biology techniques like DNA transfection, immuno-localization, fluorescence hybridization and microscopy will be a benefit. Priority will be given to candidates with a proven track record (with several publications as a first author) who will express their motivation in developing their autonomy and their interest for new challenges.

Application://

The position is available to both foreign nationals and Belgian citizens under 'international mobility' status, meaning that they may not have resided in Belgium for more than 12 months over the past 3 years preceding the appointment. The duration is for 2 years (with a possible 1-year renewal) starting on the 1st of October 2014. *The closing date for applications is *September 5th 2014.*

— / —

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>

UCRiverside InsectResistEvol

Position Description

A postdoctoral position is available in the Department of Entomology at the University of California Riverside to work on the genetic and molecular basis of insecticide resistance in glassy winged sharpshooter (GWSS) - the primary vector of the bacteria *Xylella fastidiosa*, which causes Pierce's Disease in grapevines. Recent insecticidal control failures and corresponding surges in GWSS numbers have raised serious concerns about the status of insecticide susceptibility in Californian populations of GWSS. The successful candidate will (1) determine the current resistance status of GWSS in California agricultural and nursery settings, (2) elucidate the genetic and molecular underpinnings of any resistance, and (3) design tools and assays for use in an integrated insecticide resistance management plan. Additionally, the postdoc is encouraged to develop new lines of work (e.g. population genomics, ecological modeling, etc.) on GWSS.

The project, funded by the California Department of Food and Agriculture, is a collaborative effort headed by Drs. Frank Byrne, Rick Redak, and Bradley White. The postdoc will be supervised by Dr. White, but will also work closely with the other PIs. After completion of the project, the postdoc will have substantial experience designing and conducting bioassays, analyzing next-generation sequencing data, and communicating policy recommendations to growers. As such, the position represents an excellent opportunity to acquire a unique combination of skills that serve as good training for various positions in academia, industry, and government.

We are looking for someone with expertise in evolutionary biology, insect ecology, vector biology, insect toxicology, and/or agricultural entomology. Familiarity with next-generation sequencing analysis is a positive, but not required. Regardless of prior experience, we expect the candidate to develop a wide-knowledge base and skillset. The position is for one year with the possibility of renewal for up to three years total. Salary will be commensurate with experience level.

For additional information about the White Laboratory please navigate to www.mosquitogenomics.org To Apply

A minimum qualification is a PhD or equivalent in Biology, Entomology, or a related discipline. Applicants with multiple, first-author publications are preferred. To apply, please send a brief description of previous research (1 page), a CV, and contact information for three references to bwhite@ucr.edu<<mailto:bwhite@ucr.edu>>. A start date in Fall 2014 is ideal, but negotiable. Position is open until filled.

Additional Information The White Lab is housed in the relatively new Entomology Building at UCR. We have access to state of the art genomic and bioinformatics core facilities and are part of the Center for Disease Vector Control (CDVR), which is composed of a diverse and highly talented group of scientists studying insect vectors of animal, human, and plant diseases. Substantial resources for field experiments are available through the Agricultural Experiment Station (AES) facilities.

UCR is an affirmative action and equal opportunity employer with a commitment to workforce diversity. AA/EOE

Bradley J. White Assistant Professor Center for Disease Vector Research Department of Entomology University of California Riverside, CA 92521

bradley.white@ucr.edu

UHelsinki AvianAdaptation

“Open post-doc position on birds and climate change in University of Helsinki

The Zoology Unit of the Finnish Museum of Natural History is inviting applications for a position of a Postdoctoral Researcher for a fixed term of 2 years and 8 months into the project The combined effect of climate

change and habitat protection on population changes and range shifts in birds. The preferred starting time is 1 January 2015.

More details can be found from this link: <http://www.helsinki.fi/recruitment/index.html?id=89813>”

Best wishes,

Aleksi Lehikoinen

Aleksi Lehikoinen, Docent, intendentti - curator Linneustonseuranta - Monitoring Team, The Helsinki Lab of Ornithology Luonnontieteellinen keskusmuseo - Finnish Museum of Natural History PL 17 - P.O. Box 17 00014 Helsingin yliopisto - University of Helsinki Finland puh. - tel. +358-9-19128851 mobile phone +358-45-1375732 aleksi.lehikoinen@helsinki.fi

Aleksi Lehikoinen <aleksi.lehikoinen@helsinki.fi>

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

ULille EpigenomicsAdaptation

Dear colleagues,

Please find herein an announcement for a two-year (renewable once) post-doctoral research position in adaptation genomics and epigenomics at the University of Lille, France. The position will start before December 2014.

Best regards,

Hélène Frérot.

Postdoctoral research position in adaptation genomics
 Â Host laboratoryÂ: laboratoire de Génétique et Evolution des Populations Végétales, Université Lille 1, 59655 Villeneuve d'Ascq, France ContactÂ: Hélène Frérot, helene.frerot@univ-lille1.fr, +33 (0)3 20 43 40 33

A two-year post-doc position, possibly renewable once, is available at the GEPV laboratory in Lille, France. It is funded by the French National Research Agency (ANR) and the salary is about 2200 euro a month (net of taxes). The postdoctoral position is open in the frame of a scientific project entitled ELOCANTH for "Evolution of local adaptation in anthropogenic environment" which is interested in the genetic and epigenetic bases of local adaptation in two metallophyte model species: *Arabidopsis halleri* and *Nocca caerulescens*, both Brassicaceae. Genetic bases will be studied using progenies from controlled crosses and QTL mapping analyses. Genetic maps for QTL detection will be constructed using molecular markers of SNP polymorphisms scattered throughout the genome. SNP will be detected from resequencing genomic data obtained from the crosses parents. SNP selection will be performed using bioinformatic tools so as to cover the genome, with a particular focus on genomic regions assumed to host candidate genes. Epigenetic bases will be studied by high-throughput se-

quencing of the methylome (Methyl-Seq). Complementary analyses of plant transcriptome will be also performed by RNA-Seq. The applicant will be particularly in charge of bioinformatics analyses of data obtained on *N. caerulescens*. This part of the project is carried out in close collaboration with the University of Liege (scientific manager: Dr Marc Hanikenne). Skills in adaptation genomics and bioinformatics are required. The applicant should also have solid knowledge in quantitative genetics and, if possible, in plant physiology. The applicant will be also solicited to take part in plant phenotyping. The applicant will benefit from a stimulating scientific context as the host group is main coordinator of an international research network funded by the Centre of National Scientific Research (CNRS) and called LOCOMET ("Transport, Localization and COMplexation of METals in hyperaccumulating plants"). For application, please send a short CV including description of past and present research activities, a motivation letter and two letters of reference.

– Hélène Frérot-Pauwels Enseignant-chercheur / Assistant professor Laboratoire Génétique et Evolution des Populations Végétales UMR CNRS 8198 Université Lille 1, Bâtiment SN2 F-59655 Villeneuve d'Ascq FRANCE Tel: +33 (0) 3 20 43 40 33 Skype pseudonym: helene.frerot

Frerot Helene <Helene.Frerot@univ-lille1.fr>

ULincoln EvolutionInsectCommunication

RESEARCH FELLOW IN SENSORY BIOLOGY: EVOLUTION OF ACOUSTIC COMMUNICATION IN FOSSIL AND EXTANT INSECTS"

School of Life Sciences

Location: Lincoln Salary: From £31,342 per annum This post is fixed term for 3 years Closing Date: Wednesday 13 August 2014 Interview Date: Friday 22 August 2014 Reference: COS109 The University of Lincoln is a forward-thinking, ambitious institution and you will be working in the heart of a thriving, beautiful, safe and friendly city. The School provides a stimulating environment for academic research, and is based in high quality, newly developed facilities.

The University of Lincoln opened a School of Life Sciences in 2012 and a School of Pharmacy in 2013. As part of a major programme of investment we have re-

cently recruited 21 outstanding and inspirational men and women with the research excellence, drive and ambition to be leaders in their chosen fields, who joined a strong team of established staff. We offer a very exciting interdisciplinary and supportive environment for providing excellence in research and teaching. In 2014 we will move to a newly refurbished and equipped science building, part of the University's substantial commitment to provide the science infrastructure to match our ambition.

We are now seeking to appoint a Research Fellow in Sensory Biology (bioacoustics and biomechanics). This is a 3-year Leverhulme funded project, focused on the evolution of acoustic communication in extant and living bushcrickets.

We are looking to recruit an individual within the specialism of animal acoustic communication and hearing, with demonstrable skills in signal processing, 3D computer modelling, and micro and nano CT-scanning techniques, and good knowledge of Laser interferometry. Ideally you will also be able to demonstrate skills in Matlab and Labview programming, and literacy with the softwares AMIRA and AVIZO. You will be expected to contribute to the development and completion of a Leverhulme-funded research project, to expand the PI research group collaborative networking, and to mentor a PhD student, and other students.

If you would like to be part of shaping our world-class vision to make a real difference and would like to know more about this opportunity, please contact Dr. Fernando Montealegre-Z, Senior Lecturer via telephone 01522 83 5460 or email fmontealegrez@lincoln.ac.uk.

More information can be found in the following links: <http://bioacousticssensorybiology.weebly.com/opportunities.html> Apply online: <http://jobs.lincoln.ac.uk/vacancy.aspx?ref=COS109> As a member of the Athena SWAN Charter we are committed to advancing gender equality in STEM, therefore female applicants are strongly encouraged to apply.

Dr. Fernando Montealegre-Z., B-MSc, PhD Senior Lecturer in Zoology (Assistant Professor) Biomechanics and Sensory Biology School of Life Sciences Riseholme Campus University of Lincoln Lincoln LN2 2LG, UK

Tel. ++44 (0) 1522 835460 (office)
Tel. ++44 (0) 1522 835345 (lab) <http://bioacousticssensorybiology.weebly.com/> ROYAL SOCIETY SUMMER EXHIBITION 2014 <http://www.youtube.com/watch?v=Toe7XZ3dBT4> Fernando Montealegre-Z <fmontealegrez@lincoln.ac.uk>

ULondon Pollinator PopGenomTranscriptomics

We are recruiting an evolutionary-minded person with strong bioinformatics skills for a 3 year postdoc position analysing large pollinator genomics and transcriptomics data.

Full ad is here:

<http://jobs.qmul.ac.uk/4997> Apply by August 17th.

Yannick Wurm - <http://yannick.poulet.org>
y.wurm@qmul.ac.uk â€” skype:yannickwurm â€” +44 207 882 3049

5.03A Fogg â€” School of Biological & Chemical Sciences
â€” Queen Mary, University of London â€” Mile End Road
â€” E1 4NS London â€” UK

y.wurm@qmul.ac.uk

UMBC Baltimore EvolutionaryBiol

Evolutionary biologists interested in a UMBC Postdoc for Faculty Diversity should look over the research interests of faculty in Biological Sciences, including Tamra Mendelson, Jeff Leips, Kevin Omland, Ivan Erill, Bernard Lohr and Tom Cronin.

<http://biology.umbc.edu/research/evolutionary-biology/> Potential applicants can contact prospective research mentors and/or Dr. Autumn Reed in the Office of the Provost.

UMBC's Postdoctoral Fellowship for Faculty Diversity is a two-year in-residence fellowship that supports promising scholars committed to diversity in the academy and prepares them for possible tenure-track appointments at University of Maryland, Baltimore County (UMBC). During the two-year appointment, UMBC provides teaching and research mentors and professional development opportunities across campus. Fellows also receive a stipend, health benefits, and additional funding for conference travel and the preparation of scholarly work, as well as office space with a computer, library, and other privileges at the university.

<http://apply.interfolio.com/25252> Kevin Omland Professor, UMBC Dept. Biological Sciences 1000 Hilltop Circle Baltimore, MD 21250 410-455-2243 <http://biology.umbc.edu/directory/faculty/omland/> om-land@umbc.edu

UMissouri Computational Comparative Genomics

A 3-year post-doctoral fellowship in Brassica comparative genomics is available in the Conant/Pires to start immediately. This NSF-funded position is at the University of Missouri-Columbia in Columbia MO.

The goal of the project is to develop computational tools to model the evolution of multiple Brassica species (broccoli, turnips, and Brussels sprouts) after a genome triplication. The initial phases of the project will involve modifying and improving our existing models of polyploid genome evolution (<http://web.missouri.edu/~conantg/reprints/genetics.2008.pdf>). As a result, we are looking for applicants with strong programming and statistical backgrounds: a knowledge of object-oriented programming (preferably c++) is highly desired. Experience in plant genomics is desirable but not required. More information about my lab is available from our website (web.missouri.edu/conantg). Please direct all inquiries to me (conantg@missouri.edu).

Gavin Conant Assistant Professor F21C Animal Reproductive Biology Group Associate Director for Education, MU Informatics Institute S134A Animal Science Research Center 920 East Campus Drive University of Missouri Columbia, MO 65211 Phone: 573-882-2931 Email: conantg@missouri.edu Web: <http://web.missouri.edu/~conantg> conantg@missouri.edu

UMontreal Cholera Genomics

POST-DOCTORAL POSITION IN MICROBIAL GENOMICS A post-doctoral position is available in the laboratory of Jesse Shapiro (www.shapirolab.ca) at the University of Montreal (UdeM), starting in autumn 2014.

About the lab. Our current research theme is microbial

adaptation over recent (“human”) time scales. We aim to answer the following types of questions: What are the ecological and evolutionary mechanisms of adaptation? How do these mechanisms interact? What are the genomic changes that underlie microbial phenotypes of clinical and environmental importance? How does speciation work in bacteria? We are a diverse and international group of scientists, working on natural systems ranging from human gut-associated bacteria to bloom-forming freshwater cyanobacteria, using a combination of wet-lab and dry-lab approaches, rooted in population genomics, and located in the wonderful city of Montreal.

About the position. We are looking for an excellent quantitative/computational biologist to work on a Canadian Institutes of Health Research (CIHR) funded project entitled “Genomic analysis of cholera transmission and microevolution.” This is a multi-disciplinary collaboration, involving researchers at UdeM, The Massachusetts General Hospital and The International Centre for Diarrhoeal Disease Research, Bangladesh. The aims of the project are (1) to identify *Vibrio cholerae* variants associated with symptomatic disease using (and developing) genome-wide association studies (GWAS), (2) to map cholera transmission events with a genomic-epidemiological approach, and (3) to quantify within-patient *V. cholerae* genetic diversity and its impact on disease and transmission. Within the scope of this project, the candidate will have the opportunity to work on the aspects that best suit their interests and skills.

Desired candidate. The candidate must have a high level of training (PhD) with expertise in computational biology, population genetics and/or genomics, as evidenced by first-author publications. The ability to work in a collaborative, interdisciplinary research environment is essential. A strong computational or quantitative background is also essential.

Applying. To apply, please send (1) a brief letter of research interests, (2) your CV, (3) contact information for three references, and (4) a publication representative of your work to: jesse.shapiro@umontreal.ca.

Selected publications from the lab:

Shapiro BJ & Polz MF. (2014) Ordering microbial diversity into ecologically and genetically cohesive units. *Trends in Microbiology* 22: 235-247. PMID: 24630527

Farhat M, Shapiro BJ et al. (2013) Genomic Analysis Identifies Targets of Convergent Positive Selection in Drug-Resistant *Mycobacterium tuberculosis*. *Nature Genetics* 45: 1183-1189. PMID: 23995135

Shapiro BJ, Friedman J, Cordero OX, Preheim SP,

Timberlake SC, Szabo G, Polz MF, Alm EJ. (2012) Population Genomics of Early Events in the Ecological Differentiation of Bacteria. *Science* 336: 48-51. PMID: 22491847

B. Jesse Shapiro Canada Research Chair // Chaire de recherche du Canada Microbial Evolutionary Genomics // Génomique microbienne évolutionnaire Assistant Professor // Professeur adjoint Department of Biological sciences // Département de sciences biologiques Université de Montréal www.shapirolab.ca
Jesse Shapiro <jesse.shapiro@gmail.com>

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 ful-

fill 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

UPennsylvania HumanEvolGenomics

HUMAN EVOLUTIONARY GENOMICS POSTDOC POSITIONS AT UPENN

The Tishkoff lab at the University of Pennsylvania is seeking candidates for postdoctoral positions. We are integrating genomic, transcriptomic, epigenetic, metabolomic, and microbiome analyses in a large sample of ethnically diverse Africans with the aim of using an evolutionary and systems biology approach towards understanding the genetic architecture of a number of adaptive traits for which we have detailed phenotype data. We are also applying in vitro and in vivo functional genomics approaches to identify causal variants. Additionally, we are interested in inferring demographic history of Africans, and testing models of human evolutionary history using large genome-scale datasets. Candidates will have an opportunity to develop creative independent projects and novel methodology. There will be opportunities to work together with an outstanding team of collaborators with expertise in statistical and population genetics theory and methodology. See laboratory website for more information: <http://www.med.upenn.edu/tishkoff/> Wet lab and dry lab positions are available but all candidates should have strong computational skills. Familiarity with population genetics theory, functional genomics and/or quantitative analyses of complex traits is a plus. Ability to

work with large genome-scale datasets will be required. Candidates working on model organisms who want to obtain experience working with human data are also encouraged to apply. Salaries are commensurate with qualifications and experience.

The Department of Genetics is centrally located at the School of Medicine within the UPenn campus and is within short walking distance to the Children's Hospital of Pennsylvania, the Biology, Computer Science, and Anthropology Departments, and translational genomics facilities. Outstanding core facilities are available for high throughput sequencing, genotyping, and gene expression studies and for bioinformatics and computational biology analyses. UPenn has an interactive community of researchers with interests in evolutionary biology and genomics, the genetics of complex traits, and translational medicine. Additionally, there is a rapidly expanding group of scientists at neighboring colleges with shared interests in population genetics and molecular evolution (for example, see <https://bio.cst.temple.edu/-biology-welcomes-new-faculty-and-newinstitute-of-genomics-and-evolutionary-medicine/> https://bio.cst.temple.edu/~hey/ccgg_page_in_hey_lab_site/-ccgg_page_in_hey_lab_site.htm) and we are establishing a Philadelphia Population Genetics group that will meet regulatory to discuss research projects and publications. Philadelphia is a vibrant city with excellent cultural events and plenty of parks and hiking/biking trails and a relatively low cost of living compared to other urban cities. It is centrally located between New York City and Washington DC, with easy access via a short train or bus ride.

Candidates should send curriculum vitae, a statement of interest, and contact information for three references via e-mail to Dr. Sarah Tishkoff, Departments of Genetics and Biology, University of Pennsylvania, tishkoff@mail.med.upenn.edu. The starting dates of positions are flexible and those who may be looking for a position within the next year are encouraged to apply.

Sarah Tishkoff, Ph.D. David and Lyn Silfen University Professor Departments of Genetics and Biology University of Pennsylvania Tel: 215-746-2670 tishkoff@mail.med.upenn.edu <http://www.med.upenn.edu/tishkoff/>
tishkoff@mail.med.upenn.edu

UPennsylvania HumanGenomics

Postdoctoral fellowship in human genomics University of Pennsylvania, Perelman School of Medicine

Postdoctoral positions are available in Christopher Brown's lab in the Genetics Department at the University of Pennsylvania. Current research in the Brown lab is focused on identifying and characterizing non-coding variants that affect complex phenotypes. Successful applicants will have the opportunity to design their own projects relating to the genetics of gene expression regulation, eQTLs, or post-GWAS fine mapping and functional interpretation. The fellow will also have the opportunity to work as a part of the GTEx consortium and related projects.

Candidates with expertise in experimental or computational biology will be considered, but the ideal candidate will have significant wet and dry experience.

Applicants must have an MD, PhD, or equivalent degree in genetics/genomics, evolutionary biology, bioinformatics, computational biology, or a related discipline. Candidates with backgrounds in statistics, computer science, physics, or other quantitative fields will be considered if they have experience with biological data. Experience with next-generation sequencing techniques and data, ChIP and related functional genomics techniques, and/or scientific programming are desired.

Applications (including CV, statement of research interests, and references) and informal inquiries should be emailed to Christopher Brown (chrbro@upenn.edu). Applications will be considered as they are received; positions are available now.

Christopher Brown Assistant Professor Department of Genetics University of Pennsylvania chrbro@upenn.edu www.med.upenn.edu/brownlab
chrbro@mail.med.upenn.edu

UPorto Portugal PopulationGenetics

Population Genetics, Conservation Genetics & Phylogeography

One Postdoctoral Fellowship is available at CIBIO (<http://cibio.up.pt>), University of Porto, Portugal, in the field of population genetics and phylogeography, under the Program ON2.

Candidates should have a solid research background in the interface between population genetics/genomics, phylogeography and conservation biology, as well as experience in fieldwork. They should master molecular biology techniques including genotyping (microsatellites) and sequencing, preferably using both Sanger and Next Generation Sequencing procedures, and be familiar with multiple and commonly used population genetics software tools. Topics to be developed during the Post-doc include but are not limited to i) analysis of population structure and relevance for conservation, ii) analysis of hybrid zones using multiple types of molecular markers in spatially explicit contexts, iii) genetic differentiation of populations and description of hidden biodiversity, particularly possible new species or subspecies, iv) identifying genes or genomic regions associated with incipient speciation processes, v) understanding of the domestication process and the genes/genomic regions underlying it. Projects can include a variety of species, both model and non-model organisms. Candidates should have a PhD in biology, preferably a minimum of 3 years of Post-doc and solid background in the field. They should have a good publication record in SCI journals in this area. Candidates should be good communicators, and speak and write fluently in English.

The ranking of candidates will result from a global appreciation of the Curriculum vitae, possibly followed by an interview. The Fellowship will correspond to 1450 per month (free of taxes). The contract will end on the 30th of June 2015.

Applications are open between the 15th and the 31st of July 2014.

Applications should be sent to bolsas.cibio@cibio.up.pt and will include a motivation letter, a detailed CV and the email contact of three referees. The jury is composed by: Dr. Raquel Godinho, Dr. Paulo Célio Alves and Prof. Nuno Ferrand de Almeida. Dr. Natália Dias is a substitute member.

The selected candidate is expected to start immediately after selection. Candidates will be informed about the result of their application by email.

Job Reference: ON2 - CIBIO_FCOMP-01-0124-FEDER-000030

Natália Dias Executive Coordinator CIBIO

Natalia Dias <natalia.dias@cibio.up.pt>

USheffield PlantGenomics

A three-year postdoc funded by NERC is available at the University of Sheffield (United Kingdom), in the department of Animal and Plant Sciences. The postdoc will work with Pascal-Antoine Christin (<http://www.shef.ac.uk/aps/staff-and-students/acadstaff/christin>), in collaboration with Patrik Nosil (<http://nosil-lab.group.shef.ac.uk/>) and Colin Osborne (<http://osbornelab.group.shef.ac.uk/-people/colin-osborne/>).

* The project The goal of this project is to understand the drivers of lateral gene transfers among land plants and their impact on the evolution of novel adaptations. Genome data will be generated for closely related species of grasses (members of the *Alloteropsis* genus) that differ in their photosynthetic type as well as the number of lateral gene transfers they underwent. Phylogenetic analyses and bioinformatic tools will be applied to analyse (i) the events that allowed the lateral gene transfers, (ii) the history of mutations that diversified photosynthesis in the group, and (iii) the links between these two evolutionary processes.

* What we require The postdoc will be responsible for generating the genomic data, and leading hypothesis-driven genomic analyses in an evolutionary context. He will perform innovative data analyses and disseminate the results of the project. Applications are invited from candidates with interests in molecular evolution and the use of large genetic datasets to address important questions in evolutionary biology. A PhD is required, as well as a demonstrated expertise in genomics, phylogenetics, or bioinformatics. Experience in UNIX and programming is preferred.

* What we offer A three-year contract is offered. The postdoc will integrate into a thriving department, and will collaborate with groups studying evolution, genomics, ecology and physiology.

Preferred start date: 1st Nov 2014. The position will remain open until a suitable candidate is found.

To apply, contact Pascal-Antoine Christin by email (p.christin@sheffield.ac.uk) and include a CV and brief (1-page) statement of research interests.

Further reading: Christin PA, et al. 2012. Adaptive evolution of C4 photosynthesis through recurrent lateral gene transfer. *Current Biology* 22: 445-449. Christin PA, et al. 2012. Multiple photosynthetic transitions, polyploidy, and lateral gene transfer in the grass subtribe Neurachninae. *Journal of Experimental Botany* 63: 6297-6308. Soria-Carrasco V, et al. 2014. Stick insect genomes reveal natural selection's role in parallel speciation. *Science* 344: 738-742.

p.christin@sheffield.ac.uk

USouthampton EnvironmentalBioinformatics

Marine Biogeochemistry <https://www.jobs.soton.ac.uk/Vacancy.aspx?ref=3D439314HN>

Location: National Oceanography Centre Southampton
Salary: £28,695 to £31,342 Full Time Fixed Term (1 year)
Closing Date: Monday 01 September 2014
Interview Date: To be confirmed Reference: 439314HN

We are looking for a Post-Doctoral Research Fellow undertake research and analysis in accordance with the requirements of bioinformatics data analysis for samples generated from the Environmental Sequencing Facility. The successful candidate will also take a leading role in the management and implementation of the data analysis and handling aspects of the facility.

You should have a PhD or equivalent professional qualification and experience in bioinformatics and also experience in the development and use of high-throughput pipelines for analysis of 'omic' datasets. A detailed understanding and knowledge of bioinformatics and computational biology is also required.

For additional information/informal enquiries before submitting your application, contact Tom Bibby, tsb@noc.soton.ac.uk

Dr. Mark A. Chapman M.Chapman@soton.ac.uk +44 (0)2380 594396

Centre for Biological Sciences University of Southampton
Life Sciences Building 85 Highfield Campus
Southampton SO17 1BJ

M.Chapman@soton.ac.uk

UZurich ComputationalSystemsBiology

Postdoctoral fellowship in Computational Systems Biology in the laboratory of Andreas Wagner at the University of Zurich.

The project's focus is to understand the robustness of developmental pattern formation in growing epithelia through spatially explicit computational models. The postdoctoral fellow will refine existing computational models of geometric and mechanical influences on the formation of vertebrate skin appendages such as hairs, spines, scales, and feathers. He or she will study the robustness of pattern formation to stochastic variation in tissue properties, as well as to genetic changes that influence these properties.

We are looking for an outstanding, creative, and self-motivated individual who has received his or her PhD within the last five years in fields such as biology, physics, or computer science. He or she has a research record in numerical simulations of physical phenomena in biological systems, extensive experience in scientific programming, and excellent mathematical modeling skills. A strong publication record in the mathematical or computational modeling of spatially extended systems of developmental biology is required. Familiarity with the molecular biology of organismal development will be a plus.

The project is part of EpiPhysX, a research consortium at the University of Geneva and the University of Zurich, funded by the SystemsX initiative of the Swiss National Science Foundation. It will be conducted in close collaboration with the laboratory of Bastien Chopard and Michel Milinkovitch (University of Geneva), and other researchers of the consortium. Because the successful candidate will be embedded in an interdisciplinary team of researchers (Biology, Physics, Computer Science), a willingness to work at the interface of several research groups and areas of expertise is required.

The Wagner lab at the University of Zurich (<http://www.ieu.uzh.ch/wagner/>) studies biological systems on all levels of organization, from genes, genomes, and genetic networks to whole organisms. Several ongoing projects aim to understand the robustness of biological systems to environmental and genetic change, and its

implications for evolution. Lab members are a group with very diverse backgrounds and research projects, unified by their interests in fundamental organizational principles of life.

The working language in the laboratory is English. German skills, although helpful, are not essential. Zurich is a highly attractive city in beautiful surroundings, with a multinational population, and many educational and recreational opportunities.

To be considered, please send a single (!) PDF file merged from the following parts to annette.schmid@uzh.ch: CV including publication list, a statement of research interests not exceeding three pages, as well as the contact information of three academic references. Please include the word "EPI" in the subject line. The application deadline is September 15, 2014. The position is available as of January 2015, with funding through the end of 2016.

Annette Schmid Administrative Assistant of Prof. A. Wagner University of Zurich Institute of Evolutionary Biology and Environmental Studies Wagner lab, Y27-J52 Winterthurerstrasse 190 CH-8057 Zurich Switzerland Mail to: annette.schmid@ieu.uzh.ch Phone +41 (0)44 635 61 42 Fax +41 (0)44 635 61 44 at the office on Tuesday and Thursday

annette.schmid@ieu.uzh.ch

VirginiaTech BehaviourEvolution

Postdoctoral Researcher, Behavioral Neurobiology, Biological Sciences, Virginia Tech

*Position Summary: *A postdoctoral position is available in the lab of Dr. Kendra Sewall in the Department of Biological Sciences at Virginia Tech in Blacksburg,

Virginia. The candidate will work on a project examining the effect of the ecological and social environment on neural plasticity, communication and social behavior in songbirds. The successful applicant will conduct field and captive research on songbird communication and cognition, as well as histology and bench laboratory work to examine makers of neural plasticity.

***Position Duties and Responsibilities*:** The project will require that the postdoc carrying out field research, which may require periods of travel. Additionally he or she will complete extensive behavioral experiments in captivity including bioacoustics recordings and analysis, and assays of cognition. Finally, the successful candidate will conduct histological work including immunohistochemistry and gene expression studies, in the lab. The aim of the study is to understand the cellular and molecular mechanisms by which environmental factors impact the brain and behavior. The postdoc will be involved in all aspects of the project and thus will receive broad training in field and laboratory methods. The successful applicant will join a group of exceptional researchers in organismal biology, including Drs. Joel McGlothlin, Ignacio Moore, Dana Hawley and Bill Hopkins.

***To Apply:** *Visit www.hr.vt.edu, posting #015965SR. Attach your cover letter summarizing your professional goals and research interests and your CV. Please send contact information for at least two professional references to Kendra Sewall (ksewall@vt.edu). *Review of applications will begin on August 15, 2014.* Virginia Tech is an Equal Opportunity/Affirmative Action Institution. Individuals with disabilities desiring accommodations in the application process should notify the search chair by the review begin date.

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.htm> ksewall@vt.edu

AustralianNatIU ComputationalPhylogenetics Sep15-17	92	Pittsburgh ReptileConservation Oct25	95
Barcelona PhylogeneticAnalysisUsingR May4-8	92	Tucson PlantBreeding Jan5-9	95
CzechRepublic MolEvol Jan25-Feb7	93	UNBogota ProgrammingForEvolutionaryBiology Nov24-Dec12	96
LakeheadU PaleoDNABasics Oct-Nov	93	Vigo Spain MarineEvolutionaryGenomics Oct14-16	96
MacquarieU ModelSelection Oct29-30	94	WashDC NatlMuseum FrontiersPhylogenetics Sep15 update	97
MonashU Bioinformatics Dec1-5	94		
NIMBioS Knoxville EvolutionaryQuantitativeGenetics Aug4-6	95		

AustralianNatIU ComputationalPhylogenetics Sep15-17

Dr Claire Stephens Coordinator | Centre for Biodiversity Analysis

Research School of Biology | Evolution, Ecology & Genetics Gould Building (Bldg 116 Rm 223), Daley Road | The Australian National University | Canberra ACT 0200 T +61 2 612 59492 | E claire.stephens@anu.edu.au | W cba.anu.edu.au < <http://hcba.anu.edu.au/> >

Please note: monday - wednesday only

The Centre for Biodiversity Analysis is offering an intensive three day short course (Sept 15-17) at the Australian National University on Computational macroevolution and phylogenetic comparative methods, led by Dan Rabosky (University of Michigan).

The workshop will be a mix of application and theory, but will focus heavily on the analysis of macroevolutionary rates on phylogenetic trees. Most applications will focus on time-calibrated phylogenetic trees of extant species.

Specific topics will include:

- A general introduction to scientific computing in the R programming language.
- Working with phylogenetic data in R (tree manipulation and visualization).
- Overview of maximum likelihood and Bayesian approaches.
- Statistical models for studying the evolution of discrete and continuous characters on trees.
- Statistical models for the analysis of speciation and extinction rates on phylogenetic trees.
- Bayesian methods for the analysis and visualization of complex macroevolutionary dynamics, using the BAMM software developed by the Rabosky lab.

Please see the website for more information, including how to apply: <http://cba.anu.edu.au/>-

news-events/computational-macroevo-lution-and-phylogenetic-comparative-methods Claire Stephens <claire.stephens@anu.edu.au>

Barcelona PhylogeneticAnalysisUsingR May4-8

Dear Colleagues,

Registration is open for the course “AN INTRODUCTION TO PHYLOGENETICS ANALYSIS USING R - Second Edition”.

INSTRUCTORS: Dr. Emmanuel Paradis (Institut de Recherche pour le Développement, France) and Dr. Klaus Schliep (Universidad de Vigo, Spain).

DATES: May 4-8, 2015

More information: <http://www.transmittingscience.org/courses/-phylo/phylogeny-with-r/> or writing to courses@transmittingscience.org.

This course is for biologists dealing with the analysis of multiple molecular sequences at several levels: Populations, species, clades, communities. These biologists address questions relative to the evolutionary relationships among these sequences, as well as the evolutionary forces structuring biodiversity at different scales. The objectives are: (i) to learn the theoretical bases phylogenetic analysis, (ii) to know how to choose a strategy of molecular data analysis at the interâ or intraspecific levels, (iii) to be able to initiate a phylogenetic analysis starting from the files of molecular sequences until the interpretation of the results and the graphics. The software used for this course will be centered on the R language for statistics. This will include the use of specialized packages particularly ape, phangorn, and adegenet.

PLACE: Facilities of the Centre of Restauració i Interpretació Paleontologica, Els Hostalets de Pierola, Barcelona (Spain).

Organized by: Transmitting Science, the Institut Català de Paleontologia M. Crusafont and the Centre de Restauració i Interpretació Paleontologica de Els Hostalets de Pierola.

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

Dr. Soledad De Esteban-Trivigno
courses@transmittingscience.org Transmitting Science < <http://www.transmittingscience.org/> >

soledad.esteban@transmittingscience.org

CzechRepublic MolEvol Jan25-Feb7

2015 Workshop on Molecular Evolution, Èeský Krumlov, Czech Republic

Dates: 25 January - 7 February, 2015

Application Deadline: 15 October, 2014 is the preferred application deadline, after which time people will be admitted to the course following application review by the admissions committee. However, later applications will certainly be considered for admittance or for placement on a waiting list.

Registration Fee: \$1500 USD. Fee includes opening reception and access to all course material, but does not include other meals or housing. Special discounted pricing has been arranged for hotels, pensions and hostels. Information regarding housing and travel will be made to applicants following acceptance.

APPLY HERE: <http://evomics.org/registration-form/application-2015-workshop-on-molecular-evolution-cesky-krumlov/> *Useful Links:* Direct Link to the Full Workshop Schedule: <http://evomics.org/workshops/workshop-on-molecular-evolution/2015-workshop-on-molecular-evolution-cesky-krumlov/> General Workshop information: <http://evomics.org> Frequently Asked Questions (FAQ) about the Workshop and Èeský Krumlov can be found here: <http://evomics.org/workshops/faq/> *Confirmed Faculty:*

*Walter Salzburger: *Universitat Basel *Toni Gabaldon:* CRG @ Barcelona *Paul Lewis:* University of Connecticut *David Swofford: *Duke University *Joseph Bielawski:* Dalhousie University *Adam Bazinet:* University of Maryland *Sebastian Hohna:* Stockholm University *Alexei Drummond:* University of Auckland *Laura Kubatko: *The Ohio State University *Peter Beerli: *Florida State University *Tanja Stadler:* ETH Zurich

Workshop Overview:

The 2015 Workshop on Molecular Evolution brings together an international collection of faculty members and Workshop participants to study and discuss current ideas and techniques for exploring molecular evolution. The Workshop on Molecular Evolution consists of a series of lectures, demonstrations and computer laboratories that cover theoretical and conceptual aspects of molecular evolution with a strong emphasis on data analysis.

The Workshop has a strong focus on molecular phylogenetics, and covers all aspects of phylogenetic workflow, including marker selection, phylogeny reconstruction, time-calibration, as well as detection of natural selection, phylogeography, diversification rates, and trait evolution patterns. A majority of the schedule is dedicated to hands-on learning activities designed by faculty and the workshop team. This interactive experience provides Workshop participants with the practical experience required to meet the challenges presented by modern evolutionary sciences.

*Co-directors: *Walter Salzburger, Michael Matschiner, Jan Stefka and Scott Handley

*For more information and online application see the Workshop web site *- <http://evomics.org> Scott Handley <handley.scott@gmail.com>

LakeheadU PaleoDNABasics Oct-Nov

The Lakehead University Paleo-DNA Laboratory Practical DNA Training Program.

Please post the following information about the training program on the EvoDir website and direct it towards evolutionary biologists:

Practical DNA Training Program:

A two-week (9 business days) intensive laboratory-

based training program designed to teach participants the fundamentals of molecular techniques including DNA extraction, amplification (using PCR), sequencing and interpretation.

This training program is offered at various times throughout the year and we will work with you to find a suitable time for training.

The next two scheduled courses for the Practical DNA Training Program are October 14 - 24, 2014 and November 10 - 20, 2014.

For more information please contact us at 807-343-8877 or paleodna@lakeheadu.ca or visit our website www.ancientdna.com and click on 'Training Programs'.

Thank you.

Karen.

Karen Maa Administrative Assistant Paleo-DNA Laboratory 1294 Balmoral Street, 3rd Floor Thunder Bay, Ontario P7B 5Z5 Telephone: 1-866-DNA-LABS or 1-807-343-8616

Karen Maa <kmaa@lakeheadu.ca>

MacquarieU ModelSelection Oct29-30

Macquarie University is hosting a class on model selection and multimodel inference, to be held at Macquarie University on October 29th and 30th. The class will be taught by Prof. David Anderson, who has been instrumental in developing these methods and advancing them in biology. He literally wrote the book on model selection and multimodel inference (>23K citations and counting), and his workshops are very highly rated, so this is an opportunity to get straight to the cutting edge of these methods.

The purpose of the course is to walk through the reasoning behind information criterion-based model selection and many of the pitfalls that arise in the application of those methods. The goal is to give users a deeper understanding of these methods, rather than to focus on any particular statistical software package. Course attendance includes a free copy of Prof. Anderson's excellent book on model selection.

The cost of attendance will be \$300 AUD. We are taking bookings through Eventbrite, just search for 'model selection' at eventbrite.com.au or visit <http://alturl.com/jc5ty>. For more information contact Dan

Warren, dan.l.warren@gmail.com.

Dan Warren, Ph.D. Department of Biology Macquarie University Email: dan.warren@mq.edu.au Phone (US): 530-848-3809 Phone (Australia) 0468 696 897 Skype: dan.l.warren

dan.l.warren@gmail.com

MonashU Bioinformatics Dec1-5

BioInfoSummer 2014

1-5 December 2014 Monash University (Caulfield), Melbourne

Bioinformatics is an exciting, fast-moving area analysing and simulating the structures and processes of biological systems. BioInfoSummer introduces students, researchers and others working in related areas to the discipline.

The program features: Introduction to molecular biosciences and bioinformatics Next-generation DNA sequencing and sequence evolution High-throughput technology and omics data analysis Methods in bioinformatics Systems biology

Speakers include: Professor Mark Ragan (Institute for Molecular Bioscience) Professor Chris Overall (University of British Columbia) Professor Roger Daly (Monash University) Associate Professor Barbara Holland (University of Tasmania) Dr Alicia Oshlack, Murdoch Childrens Research Institute

Website: www.amsi.org.au/bis It would be greatly appreciated.

Best Regards, Liam

Liam Williamson Research & Higher Education Administrative Assistant (I am in the office Tuesday and Friday)

Australian Mathematical Sciences Institute Building 161, C/- The University of Melbourne, Victoria 3010 Australia P: +61 (3) 83441780 | F: +61 (3) 8344 6324 | E: liam@amsi.org.au | W: www.amsi.org.au Join us on Facebook: www.amsi.org.au/facebook AMSI - Events <events@amsi.org.au>

NIMBioS Knoxville
Evolutionary Quantitative Genetics
Aug4-6

This week the Tutorial on Evolutionary Quantitative Genetics is under way at the National Institute for Mathematical and Biological Synthesis (NIMBioS) in Knoxville, Tennessee. This is the fourth iteration of this course, which occurred the previous three times at the National Evolutionary Synthesis Center (NES-CENT) in Durham, North Carolina.

The tutorial will continue through Saturday, August 6.

This time much of the content of the tutorial is available as a live video stream from the auditorium. To watch it see: http://www.nimbios.org/tutorials/TT_egg The lectures will later also be made available as Youtube videos. At the tutorial web site Powerpoint or PDF files of the lecture projections are being posted, as are audio files of the lectures.

Stevan Arnold and Joe Felsenstein Co-leaders of the tutorial

Joe Felsenstein <joe@gs.washington.edu>

Pittsburgh Reptile Conservation
Oct25

Dear Colleagues,

We are writing to invite you to participate in a one-day workshop to be held at the 21st Annual Conference of The Wildlife Society in Pittsburgh, Pennsylvania on 25 October 2014. The workshop will take place on Saturday, October 25th, and is titled 'Research and Management of Novel Infectious Diseases in Reptiles and Amphibians.' We are sponsored by the Association of Reptile and Amphibian Veterinarians, The Wildlife Society's Wildlife Disease Working Group, and Partners in Amphibian and Reptile Conservation, and. We are looking for participation from the broadest group of wildlife researchers, managers, veterinarians, and educators as possible in order to strengthen knowledge, communication, and collaboration among this diverse

group of professionals who are dealing with the threat of emerging diseases in ectothermic vertebrates.

A full description of the program can be found in the attached document. Also attached is a questionnaire on reptile and amphibian disease observations that we are asking each participant to fill out and bring to the workshop. If you have relevant information that is not published and would be willing to share, please consider sending us back the questionnaire even if you cannot attend the workshop.

We have arranged for this workshop to be offered at the minimal expense (\$10 for students, \$25 for professionals).

We hope to see many of you in October!

-Kimberly, Anna, Terry, Matthew, and Valorie

For questions, feedback, and to submit questionnaires, please contact us at:

herpdisease@gmail.com

Valorie Titus <vtitus7@mac.com>

Tucson Plant Breeding Jan5-9

Announcing the 2015 Tucson Plant Breeding Institute, meeting in Tucson on January 5-9, 2015, the week before PAG (San Diego is a roughly 60 minute flight from Tucson).

For more information: Website: <http://www.plantbreedinginstitute.bio5.org> Or email (jbowalsh@u.arizona.edu)

This year's institute offers the following modules:

Module 1: Introduction to Plant Quantitative Genetics
Target audience: Geneticists and molecular biologists with an interest in classic approaches to plant breeding that are critical for molecular breeding. Goals: An introduction to the basic machinery of quantitative genetics useful for plant breeders Assumed background: Some exposure to statistics (regressions, ANOVA, covariances).

Lectures: (1) Introduction to Modern Plant Breeding (2) Basic Genetics (3) Basic Statistics (4) Variance Decomposition (5) Resemblance Between Relatives (6) Heritability and Field Designs (7) QTL Mapping (8) Association Mapping (9) Inbreeding, Heterosis (10) Mass and Family Selection

Module 2: Advanced Statistical Plant Breeding Target audience: Geneticists and molecular biologists with an interest in classic approaches to plant breeding critical for molecular breeding. Goals: An introduction to advanced methods for gene detection, mapping, and selection with a focus on marker-based approaches. Assumed background: Introduction to Plant Quantitative Genetics module or similar background.

Lectures: (1) Linear Algebra (2) Multivariate Selection (3) Index Selection (4) Mixed Models (5) Association Mapping in Structured Populations (6) BLUP (7) Marker-Assisted and Genomic Selection (8) G x E I: Stability Measures and AMMI (9) G x E II: Mixed Models (10) BiPlots

Instructors for both modules: Prof. Bruce Walsh, Depts. of Ecology & Evolutionary Biology, Plant Science, Animal Science, Molecular & Cellular Biology, University of Arizona

Prof. Michael Gore, Associate Professor of Molecular Breeding and Genetics, Cornell University Prof. Lucia Gutierrez, Facultad de Agronomia, Universidad de la Republica Montevideo, Uruguay

“Walsh, James Bruce - (jbwalsh)”
<jbwalsh@email.arizona.edu>

UNBogota ProgrammingForEvolutionaryBiology Nov24-Dec12

Course on Programming for Evolutionary Biology

When: November 24th - December 12th 2014

Location: Bogota, Colombia; Universidad Nacional de Colombia

Application deadline: August 30th 2014

For the first time, this course is going to take place in the Americas. It is closely modeled after our successfully established course in Leipzig, Germany.

Detailed information about the course content and how to apply: <http://evopco.bioinf.uni-leipzig.de/> “Nothing in Biology Makes Sense Except in the Light of Evolution” (Dobzhansky, 1973). Today, evolutionary biology often involves the analysis of an unprecedented amount of information and supports many other disciplines, such as medicine (evolutionary medicine), behavioral biology (evolutionary psychology), ecology,

and information transfer. Scientists have to analyze large datasets, which requires computational programming skills to design and apply own ideas into customized algorithms.

In this intensive 3 weeks course, students will learn how to survive in a Linux environment, get hands-on experience in two widely used programming languages (Perl and R), and statistical data analysis. The classes will be given by experts in the field and consist of lectures and exercises with the computer. The aim of the course is to provide the students with the necessary background and skills to perform computational analyses with a focus on solving research questions related to genomics and evolution. The philosophy of the course will be “learning by doing”, which means that the computational skills will be taught using examples and real data from evolutionary biology for the exercises. During the course, students will also propose projects of their own interest and perform them as final projects in small groups under the supervision of a teaching assistant. This summer school is open for students from all countries and targeted toward PhD students and postdocs of evolutionary biology or related research fields with no or little programming experience who want to become proficient in computational evolutionary biology in a couple of weeks.

The course takes place at the Universidad Nacional de Colombia.

– Dr. Katja Nowick

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Katja Nowick <nowick@bioinf.uni-leipzig.de>

Vigo Spain MarineEvolutionaryGenomics Oct14-16

Workshop on Marine Ecological and Evolutionary Genomics (MEEG 2014), Vigo, Spain, 14-16 October 2014

Dear colleagues,

We are pleased to announce the MEEG 2014 workshop which will be held at ECIMAT marine station and at the University of Vigo, both in Vigo (Spain).

This workshop aims to introduce ecologists, marine biologists, geneticists and evolutionary biologists into the use of Next Generation Sequencing (NGS) data for population genetics analyses commonly used in the field of ecology and evolution, and also give the attendants a hands-on experience of such analyses. The workshop will include 6 talks from the invited speakers and organisers and 6 practical sessions where the attendants will be assisted by the invited speakers in the analysis of different datasets.

The practical sessions are of general interest for ecologist and evolutionary biologists and therefore not only marine biologists.

Speakers:

Nicolas Bierne, University of Montpellier (France) Juan Galindo, University of Vigo (Spain) Patrik Nosil, University of Sheffield (UK) Angel Perez-Diz, University of Vigo (Spain) Victor Soria-Carrasco, University of Sheffield (UK) Stevan Springer, University of California San Diego (USA) Anamaria Stambuk, University of Zagreb (Croatia)

Organisers:

Armando Caballero, University of Vigo (Spain) (armando@uvigo.es) Angel Perez-Diz, University of Vigo (Spain) (angel.p.diz@uvigo.es) Juan Galindo, University of Vigo (Spain) (galindo@uvigo.es)

For more information about the workshop, programme and registration please visit:

<http://meeg2014.webs2.uvigo.es/home.html> or contact us at meeg2014@uvigo.es

APPLICATION DEADLINE 15 September 2014

armando.caballero.rrua@gmail.com

**WashDC NatlMuseum
FrontiersPhylogenetics Sep15
update**

UPDATE - Frontiers in Phylogenetics Fourth Annual

Symposium. Full schedule, speakers and titles have been updated - see below

“Genome-Scale Phylogenetics: Analysing the Data”

Symposium Location: Warner Brothers Theatre, National Museum of American History, Washington, DC
Time and Date: 9 AM to 5 PM, Monday September 15, 2014

REGISTRATION IS FREE BUT REQUIRED. Please visit the link below to register. <http://bit.ly/-FIPSymposium>

8:00 Coffee and Continental Breakfast Service in Constitution Café
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 Gnathostome 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

National Museum of Natural History Smithsonian Institution Washington DC

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 notification of the availability of a monthly review pdf file.

To be removed from the EvolDir mailing list please send an email message to Golding@McMaster.CA. Note that ‘on vacation’, etc, style messages are automatically filtered and should not be transmitted to the list (I hope), but should you wish to avoid the e-mail’s your code can be temporarily changed to 000000.

To send messages to the EvolDir direct them to the email `evolDir@evol.biology.McMaster.CA`. Do not include encoded attachments and do not send it as Word files, as HTML files, as L^AT_EX files, Excel files, etc. . . . plain old ASCII will work great and can be read by everyone. Add a subject header that contains the correct category “Conference:, Graduate position:, Job:, Other:, Postdoc:, Workshop:” and then the message stands a better chance of being correctly parsed. Note that the colon is mandatory.

The message will be stored until the middle of the night (local time). At a predetermined time, the collected messages will be captured and then processed by programs and filters. If the message is caught by one of the filters (e.g. a subject header is not correctly formatted) the message will be sent to me at Golding@McMaster.CA and processed later. In either case, please do not expect an instant response.

Afterword

This program is an attempt to automatically process a broad variety of e-mail messages. Most preformatting is collapsed to save space. At the current time, many features may be incorrectly handled and some email messages may be positively mauled. Although this is being produced by L^AT_EX do not try to embed L^AT_EX or T_EX in your message (or other formats) since my program will strip these from the message.