ICN2016

Postdoctoral Positions available at principal investigator (PI) laboratories and Training Programs

(In alphabetical order by PI last name or Institution)
PI(s): Romina B. Barrozo (rbarrozo@bg.fcen.uba.ar)

Institution: University of Buenos Aires, Buenos Aires, Argentina

Research Area: Neuroethology, Sensory Processing, Electrophysiology, Insect, Neuroanatomy, Learning, Taste sense.

PI at ICN2016:
Yes

Lab presentations at ICN 2016:
Poster: Cano, Agustina; Roldan, Nahuel; Magallanes, Amorina; Barrozo, Romina; Minoli, Sebastián "Spatial learning in kissing bugs: appetitive and aversive conditioning.

Satellite meeting: Neuroethology of disease vector insects: Romina B Barrozo, "Taste recognition in kissing bugs: from peripheral detection to feeding decisions"

Lab Webpage:
http://ibbea.fcen.uba.ar/research/physiology/insect-physiology/neuroethology-of-vector-insects/

Job Description:
A postdoctoral position is open in our lab. In the lab we study the mechanisms of taste processing from the sensory input to the behavioral output. We focus in different aspects of the taste sensory physiology, by using tools like electrophysiology, neuroanatomy and behavior. Experience in electrophysiology is desired. A curriculum vitae, including research background, interests, and names and contact information for references should be send to rbarrozo@bg.fcen.uba.ar. The position will remain open until June.

Expiration date: N/A
PI(s): Ari Berkowitz (ari@ou.edu)

Institution: University of Oklahoma, Norman, OK, USA

Research Area: Neuroethology, Neural Control of Movement, Sensorimotor Integration, Central Pattern Generation, In Vivo Electrophysiology.

PI at ICN2016: Yes

Lab presentations at ICN 2016:
Poster: Berkowitz, A. and Elson, M. S., "Flexion reflex can interrupt and reset the swimming rhythm in turtles"

Lab Webpage:
http://ari.oucreate.com/home.html

Job Description:
A postdoctoral position is available immediately for up to 3 years under an NSF-funded project in Ari Berkowitz's lab at the University of Oklahoma. The Berkowitz lab studies how a combination of multifunctional and behaviorally specialized spinal cord interneurons selects and generates limb movements, including swimming, scratching, and leg withdrawal, in turtles. Turtles are unusually resistant to hypoxia, making them ideal for electrophysiology experiments. This project will use in vivo intracellular recording and dye injection to investigate the neurotransmitters and synaptic targets of specific types of multifunctional and specialized interneurons, in collaboration with David Maxwell’s lab at the University of Glasgow.

Electrophysiology experience is required. Intracellular recording experience is preferred. For more information on neurobiology at OU, see http://www.ou.edu/cbn/. Email questions to ari@ou.edu

To apply, please provide a short description of research experience and interests, CV, and contact information for three references to ari at ou dot edu. The position is available immediately and will remain open until filled.

The University of Oklahoma is an Equal Opportunity Employer. Protected veterans and individuals with disabilities are encouraged to apply.

Expiration date: N/A
PI(s): Angel Caputi (caputiangel@gmail.com)

Institution: Instituto de Investigaciones Biologicas Clemente Estable, Montevideo, Uruguay

Job Description:

In our Lab we are able to accept post docs in any of the below mentioned fields of research. If you are interested please email caputiangel@gmail.com or contact me at the meeting in order to discuss how plausible would be a potential project in my lab.

The funds can be provided by the ANII (National Agency for Research) under competitive basis. See: http://www.anii.org.uy/apoyos/formacion/6/posdoctorados-en-uruguay/ Calls are usually in June / July every year. The duration of the fellowship is two years. Salary is about USS 2000 which is a enough money for a couple having an easy life in Uruguay. Candidates must have obtained their Doctoral Degrees within a period not exceeding six years prior to the date of the Call for Applications.

The potential subjects to be addressed in the project are:

1) Analysis of electric image processing in pulse gymnotiformes (includes two potential projects). We approach this research combining anatomy, physiology and modelling. At the present stage we are interested in to evaluate the process at the electrosensory lobe of Gymnotus omarorum using anatomy and intracellular recording in vivo and in vitro to explore the neurons of the ELL and also extracellular recordings in decerebrated and chronically implanted freely moving animals (in principle tethered but ideally wireless if we can get a grant to afford the equipment). The questions are: A) what are the functional connections of the ELL and how they determine the different extracellular patterns of activity already recorded in the decerebrated fish (see Pereira et al, 2014) and confirmed also in still non published recordings made in chronically implanted freely moving animals. B) what is the role of praeminentialis nucei and pyramidal cell plasticity in detecting novelty (see Caputi et al., 2003) ?

2) Diversity of the electrogenic mechanisms in South American electric fish. We have made an extensive survey of the genus Gymnotus and a less extensive and still not published survey of Hypopomus and Rhamphychthis as well (see the Electric Organs chapter in Fish Encyclopedia or Rodriguez Cattaneo et al. several articles in J. Exp. Biol. in the last decade).

We are particularly interested in a postdoc with strong roots in any Amazonian country (Brazil, Peru, Colombia, Ecuador, Guyana or Venezuela) with the possibility to get electric fish from her/his mother country and with the intention to return there after the postdoctoral period. The main idea is to continue advancing in the complete description of electric organs, electric organ discharges and the potential novel mechanisms involved in electrogeneration (either at the level of the electrocytes or the spinal and peripheral network coordination) of the largest possible number of species in Southamerica. Ideally, if the post doc previous formation is in evolution it would be a perfect combination to start setting up a long run project based on a latinoamerican network of complementary expertise after the postdoc return to the mother country.
PI(s): Ruben Coen-Cagli (ruben.coencagli@gmail.com)

Institution: Albert Einstein College of Medicine, Bronx, New York, USA

Research Area: Computational and Systems Neuroscience; neural coding; visual cortex; probabilistic inference; natural scene statistics; machine learning and computer vision; Bayesian models.

PI at ICN2016: No

Lab Webpage: https://sites.google.com/site/rubencoencagli/

Job Description:
We are looking for a highly creative and motivated postdoctoral fellow to work in the field of computational and systems neuroscience in the laboratory of Ruben Coen-Cagli - Department of Systems and Computational Biology and Department of Neuroscience at Albert Einstein College of Medicine (AECOM) in New York City.

Our lab studies how biological sensory systems interpret the surrounding environment. Topics include probabilistic representations of natural images; models of selectivity and variability in large cortical populations; the behavioral consequences of neuronal variability; and uncertainty in visual and auditory perception. We combine theories of probabilistic neural coding, tools from computer vision and machine learning, eye-tracking experiments, and neurophysiology through collaborations. The candidate is expected to perform research related to these topics. The lab features state of the art computing and eye-tracking facilities. Close interaction and collaboration with other members of the department is anticipated.

Applicants must have a Ph.D. in a relevant discipline, with an academic record of scientific excellence and independent research. Prior experience should include areas such as computational neuroscience, machine learning, computer vision, or statistics. Applicants should have a keen interest in interdisciplinary approaches to biological and neural systems.

AECOM offers a vibrant interdisciplinary environment, with a growing systems and computational contingent. It is located in a quiet neighborhood of New York, only a short subway ride from Manhattan. Information about working at the AECOM, including benefits and housing for postdocs, can be found at: https://www.einstein.yu.edu/research/belfer-institute/

The position starts in or after August 2016, and is funded for several years, with an initial one year appointment and expectation of extension given satisfactory performance. Salary is competitive and will be commensurate with experience.

Candidates should send a single pdf file, consisting of a 1-page motivation letter, CV, and publication list to ruben.coencagli@gmail.com. Furthermore, candidates should organize two letters of reference, to be sent to the same e-mail address. The position is open until filled.

Albert Einstein College of Medicine, Inc. is an equal opportunity employer committed to hiring minorities, women, individuals with disabilities and protected veterans.
PI(s): Hugo Cousillas (hugo.cousillas@univ-rennes1.fr) Martine Hausberger (martine.hausberger@univ-rennes1.fr)

Institution: CNRS Université de Rennes 1, EthoS Animale and Human Ethology, France.


PI at ICN2016:
Yes

Lab presentations at ICN 2016
Poster: Isabelle GEORGE, Hugo COUSILLAS, Laurence HENRY & Martine HAUSBERGER "Multisensory representation of social familiarity in the songbird brain"

Lab Webpage:

Job Description:
A postdoctoral position is available for a CNRS – University of Rennes1 project at the Laboratory of Animal and Human behavior (EthoS). EthoS is one of the largest research units focusing its research entirely on ethology with a broad expertise of animal models ranging from invertebrates to humans and an integrative approach going from neuron to population level. EthoS is well known in particular for its important contributions to current international scientific debates on development vocal communication and origin of language, brain plasticity and welfare measures. The postdoctoral fellow will join a collaborative research team “Perception, coGnition, Attention, Sociality and Evolution” (Pegase) interested I the study ofn cognitive processes and the effect of social factors on aspects such as communication, brain plasticity, perception and understanding of conspecific signals. More specifically, the postdoc would be involved in the neuroethological approaches of the team, which involves recording from neural populations using multi-electrode arrays while broadcasting complex sounds as species-specific songs as well as artificial sounds. The project aims at understanding the mechanisms that link social influences and brain plasticity in a songbird species. Experience in electrophysiology and neural data analysis are wished, competencies in Matlab programming would be welcome. The candidate should have a background in ethology and master ethological theoretical and methodological concepts. According to the candidate characteristics, funding may be applied for on different sources. Inquiries about the position and applications (including research background and interests, curriculum vitae, and names and contact information for references) should be sent to hugo.cousillas@univ-rennes1.fr or martine.hausberger@univ-rennes1.fr. The position will remain open until filled.
PI(s): Jessica Fox (jlf88@case.edu)

Institution: Case Western Reserve University, Cleveland, USA

Job Description:
A postdoctoral position is available in the lab of Dr. Jessica Fox at Case Western Reserve University in Cleveland, OH, USA. The lab asks questions on sensory function, multimodal sensory integration, and flight control in insect models using quantitative analysis of behavior, electrophysiology, and computational techniques. A background in biology, animal behavior, neuroscience, or computational biology is helpful; curiosity, creativity, and enthusiasm are essential. Interested applicants should contact Dr. Jessica Fox at jlf88@case.edu.
PI(s): Jan Hemmi (jan.hemmi@uwa.edu.au), Julian Partridge (julian.partridge@uwa.edu.au), Barbara Webb (bwebb@staffmail.ed.ac.uk)

Institution: The University of Western Australia, School of Animal Biology, Perth, Australia


PIs at ICN2016:
Yes (Hemmi & Webb)

Lab presentations at ICN 2016:
Poster: Hemmi, J “Behavioural and physiological estimates of spatial contrast sensitivity in fiddler crabs.”
See also posters from the Webb lab: Tom Stone (PI-71), Benjamin Risse (PI-70), Michael Mangan (PI-66) and Antoine Wystrach (PII-68)

Lab Webpage:
www.animals.uwa.edu.au/research/neuroecology

Job Description:
A 2-3 year postdoctoral position is available for an ARC -funded project with the Neuroecology group at the University of Western Australia. We are interested in the interactions between vision and animal behaviour. Using a combination of comparative, behavioural, anatomical, and physiological techniques we explore the visual sensory and processing capabilities of a range of animals, with a focus on fiddler crabs. The project, “RoboCrab: An integrative approach to the natural ecology of decision making”, is part of collaboration with Prof. Barbara Webb from the University of Edinburgh. The project will explore and test our understanding of the ecology, the information processing requirements, and the mechanics of the fiddler crab escape response in its natural environment, including testing on a robot model of the crab. The postdoctoral fellow will conduct electrophysiological, behavioural and possibly modelling experiments. We encourage applications from applicants with experience in electrophysiology, data analysis, programming and/or modelling. The fellow will be stationed in Perth, Australia but will have the opportunity to spend time at the University of Edinburgh. Please direct any inquiries to jan.hemmi@uwa.edu.au. An official job application process will commence soon.

Expiration date: N/A
PI(s): Common Themes in Reproductive Diversity Core Training Faculty (http://www.indiana.edu/~reprodiv/faculty.php)

Institution: Indiana University, Bloomington, Indiana, USA

Research Areas: 1) Genetic, epigenetic, parental and environmental contributions to reproductive and social behavior; 2) Origins and expression of differences among the sexes; and 3) Sex and immunity in health and disease.

PI at ICN2016:
One of the possible PIs (Smith) will be at ICN 2016.

Lab presentations at ICN 2016:
Poster: PII-19 G. Troy Smith "Co-adaptation of electric organ discharges and chirps in South American ghost knifefishes (Apterontidae)"

Training Grant Webpage:
http://www.indiana.edu/~reprodiv/

Job Description:
THE COMMON THEMES IN REPRODUCTIVE DIVERSITY PROGRAM has 2 open positions for 2-year NIH postdoctoral traineeships to support broadly integrative training in the areas of sexual reproduction and development. Training will focus on behavior in both humans and other animals and will address key questions in three related themes: (1) genetic, epigenetic, environmental, and parental contributions to reproductive and social behavior; (2) the origins and expression of differences among the sexes; and (3) sex and immunity in health and disease. Indiana University's excellent support for research and its globally recognized strengths in animal behavior, endocrinology, human sexual health, and evolution of development will ensure high quality training. PhD in anthropology, biology, gender studies, neuroscience, psychology or a related field is required. Funding is from NIH T32 training grant, "Common Themes in Reproductive Diversity." For more information, make initial contact with one or more of the training faculty who might serve as primary mentors (http://www.indiana.edu/~reprodiv/faculty.php ). Supported trainees must be US citizens or permanent residents. Positions begin as early as June 2016. Evaluations will begin as early as April 1, 2016, but positions will remain open until filled. Please check back for updates on timing. Applicants from groups underrepresented in science are encouraged. Indiana University is an equal opportunity employer.

Expiration date: Consideration of applications begins in early April and will continue until positions are filled.
PI(s): Adam Kohn (adam.kohn@einstein.yu.edu)

Institution: Albert Einstein College of Medicine, Bronx, New York, USA

Research Area: Visual neurophysiology, cortical plasticity/adaptation, population coding, perceptual decision making, corticocortical communication

PI at ICN2016 No

Lab Webpage: http://www.einstein.yu.edu/faculty/10522/adam-kohn/

Job Description:
A postdoctoral position is available in the Kohn lab, at the Albert Einstein College of Medicine in New York City. The lab investigates visual processing, cortical plasticity, population coding, perceptual decision making, and corticocortical communication and circuitry. Our experiments involve multielectrode recordings from the visual system of anesthetized and awake, behaving non-human primates. We complement neurophysiological recordings with human perceptual experiments, computational modeling, and optogenetic manipulations. We have robust collaborations with several computational and theoretical neuroscience groups, developing new methods for understanding population codes. The Neuroscience department at Einstein offers a vibrant, supportive community of researchers. The New York City area offers a wealth of opportunities to learn about a broad range of neuroscience topics (i.e. seminars, meetings, etc).

Experience in electrophysiology, Matlab programming, quantitative methods, or behavioral training are desired. Inquiries about the position and applications (CV and names and contact information for references) should be sent to adam.kohn@einstein.yu.edu. The position will remain open until filled.

Expiration date: N/A
Applications are invited for a postdoctoral scholar position in the Kreiman lab. We are looking for an innovative and enthusiastic researcher with a strong quantitative background (e.g. Math, Physics, Computer Science) and experience in Neuroscience research.

The research efforts will involve studying high-level vision and learning using a combination of computational models, neurophysiology and behavioral experiments. For information about the Kreiman lab and recent publications, see: [http://klab.tch.harvard.edu](http://klab.tch.harvard.edu)

The postdoc will be part of an energetic and intellectually vibrant community of researchers including the Center for Brains, Minds and Machines. The position is funded for 2 years, with an initial one-year appointment and expectation of extension contingent on satisfactory progress.

To be considered for this position please submit your application to gabriel.kreiman@tch.harvard.edu, including CV and names of three people that are familiar with your work.

Expiration date: N/A
PI(s): Michael A. Long (mlong@nyumc.org)

Institution: NYU School of Medicine, New York, USA


PI at ICN2016: No

Lab Webpage: http://longlab.med.nyu.edu/

Job Description:
A postdoctoral position is available in the Long lab (http://longlab.med.nyu.edu/) at the NYU Neuroscience Institute to study the cellular and circuit mechanisms that enable the brain to generate complex behaviors. We have traditionally worked with the zebra finch, where we regularly perform electrophysiological recordings and 2-photon imaging in singing birds. Recently, we have expanded our scope to consider human speech production as well as singing behavior in a nontraditional rodent species.

We are interested in individuals with significant experience in the investigation of neural circuits regardless of model system. An ideal candidate should have experience with intracellular electrophysiology, multielectrode recordings, or fluorescence imaging as well as a practical knowledge of analytical software (e.g., MATLAB). Interested candidates should send their CVs and the names and contact information of three references to Michael Long (mlong@nyumc.org).

Expiration date: N/A
PI(s): Daniel Margoliash (dan@bigbird.uchicago.edu)

Institution: University of Chicago, Chicago, USA


PI at ICN2016: Yes

Lab presentations at ICN 2016:
Auditory processing, sound production and motor control satellite meeting; Lecture: "Local and global distributed representations in birdsong sensorimotor control"

Lab Webpage: margoliashlab@uchicago.edu

Job Description:
We have a new result that indicates how information regarding realtime assessment of zebra finch singing behavior is represented in the intrinsic properties of the population of basal ganglia projecting neurons in the forebrain nucleus HVC. To date most of the work has involved in vitro intracellular recordings but is now expanding to include in vivo intracellular recordings and other techniques. I am seeking an individual to continue these studies once the postdoc who has been conducting the work (Arij Daou) leaves the lab.

Expiration date: N/A
PI(s): Jose L Pena (jose.pena@einstein.yu.edu)

Institution: Albert Einstein College of Medicine, Bronx, NY


PI at ICN2016
Yes

Lab presentations at ICN 2016
Poster: Beckert M, Pena JL. "Representation of auditory space in the owl’s forebrain"
Poster: Batista G, Dominguez E, Johnson J, Costa-Matiolli M, Pena JL. "Translational control of learning and structural plasticity during the sensitive period for imprinting in chickens"
Poster: Cazettes F, Fischer BJ, Pena JL. "Shared coding strategies for spatial hearing in birds and mammals"

Lab Webpage:
http://www.einstein.yu.edu/labs/jose-pena/research/

Job Description:
A postdoctoral position is available for an NIH-funded project at the Pena lab, at the Albert Einstein College of Medicine in New York. The lab investigates the sensory processing and stimulus-driven behavior, with a focus on neural coding and the neuroethological approach. The postdoctoral fellow will join a collaborative research team interested in the coding of sensory cues and their statistics in the auditory system of barn owls. The project will require recording from neural populations using multi-electrode arrays while manipulating the auditory scene. Brian J. Fischer at Seattle University will collaborate on the theoretical approach. Experience in electrophysiology and familiarity with data analysis and Matlab programming is desired. Inquiries about the position and applications (including research background and interests, curriculum vitae, and names and contact information for references) should be sent to jose.pena@einstein.yu.edu. The position will remain open until filled.

Expiration date: N/A
PI: Michael Reiser (reiserm@janelia.hhmi.org)

Institution: Janelia Research Campus, Howard Hughes Medical Institute, Ashburn, VA.


PI at ICN2016: Yes

Lab presentations at ICN 2016:
Poster: Kit Longden, Michael Reiser. The role of color vision in flight orientation in Drosophila melanogaster.

Participant Symposium B: Michael Reiser; James Strother; Shiuan-tze Wu; Aljoscha Nern; Allan Wong; Edward Rogers. “The circuit basis of directional selectivity in the Drosophila visual system.”

Lab Webpage:
https://www.janelia.org/lab/reiser-lab

Job Description:
The Reiser lab at the Janelia Research Campus seeks a creative scientist to join us in our endeavor to understand circuit transformation in the Drosophila visual system. This is an exciting time to be working on the fly visual system—one of the best described complex circuits in neuroscience—now perfectly suited for a deep functional investigation cutting across several layers from the photoreceptors to the output neurons.

The Reiser lab uses imaging, electrophysiological, behavioral, and computational techniques to crack the neural circuits that support vision and navigation in Drosophila. You would apply the latest tools from in vivo two-photon calcium imaging (during behavior) and Drosophila genetics, to functionally map the encoding properties of the output neurons in the fly visual system in response to controlled visual stimuli. After this characterization you may explore either the mechanisms of stimulus selectivity by mapping upstream circuits and/or pursue the pathways that link the detection of specific visual features to defined behavioral programs. Both explorations will make use of optogenetics and neuronal silencing tools to establish functional connectivity. This investigation of visual system circuits will be greatly aided by a unique set of collaborations at Janelia. We work closely with Gerry Rubin’s lab on developing genetic tools to target specific cell types, with the Jayaraman and Card labs on behavioral and physiological methods, and with the FlyEM project that is producing connectomes at the electron microscopic level of the fly visual system.

This position is ideal for someone who is interested in creatively applying the latest tools to
bear on a fundamental question in neuroscience: how do networks of neurons transform simple sensory inputs into more complex representations relevant for behavior?

Requirements:
1) Ph.D. in neuroscience, biophysics, or a related area
2) Demonstrated expertise in two-photon imaging and/or electrophysiology
3) Significant experience with designing and adapting instrumentation
4) Strong quantitative background

Applicants with previous experience working on visual or other sensory systems, and an interest in quantitative animal behavior are especially encouraged to apply. Applicants who do not meet these requirements, but possess related interests and talents should send an email. Janelia is an exciting research environment (near Washington, D.C.), with abundant opportunities for collaboration. We work closely with many other labs, as well as Janelia’s Scientific Computing and Instrumentation Design groups. You should expect to contribute to projects in/with other labs, and your own work will benefit from working with nearby colleagues. Interested applicants should apply by email; please include your curriculum vitae and research interests, and arrange for three letters of reference to be sent to:

Michael Reiser (reiserm@janelia.hhmi.org). Janelia Janelia Research Campus/Howard Hughes Medical Institute 19700 Helix Drive Ashburn, VA 20147

If you have specific salary requirements, please include them in your e-mail; all information is confidential. HHMI is an equal opportunity employer.
PL(s): Adam Smith, adam_smith@gwu.edu, Marc Seid, marc.seid@scranton.edu

Institution: George Washington University, Dept. of Biological Sciences, Washington DC USA

Research Area: Brain evolution, Social evolution

PI at ICN2016: Yes (Seid)

Lab presentations at ICN: (Seid)

Lab Webpage:
https://biology.columbian.gwu.edu/adam-r-smith

Job Description:
A postdoctoral position is available in the Adam Smith lab at George Washington University to study brain evolution and social behavior in bees in collaboration with Marc Seid at the University of Scranton and researchers at other institutions. The postdoctoral fellow will measure brain volumes, amine expression, and receptor profiles across phylogenetic gains and losses of sociality in bees. The project will require measuring brain sub-unit volumes through confocal microscopy and/or micro C-T scanning. Experience in volumetric measurements and an interest in the evolution of social behavior is desired. Inquiries about the position and applications (including research background and interests, curriculum vitae, and names and contact information for references) should be sent to adam_smith@gwu.edu.
PI(s): Vytas Verselis (vytas.verselis@einstein.yu.edu)

Institution: Albert Einstein College of Medicine, Bronx, NY


PI at ICN2016: No

Lab Webpage: http://www.einstein.yu.edu/faculty/3846/vytautas-verselis/

Job Description:
A postdoctoral position is available for an NIH-funded project in the Verselis lab at the Albert Einstein College of Medicine, Bronx, NY. This project is focuses on the study of genetic mutations in the GJB2 gene encoding the Cx26 gap junction protein that are associated with syndromic deafness. We have identified several mutants that exhibit differential effects on Cx channel function, particularly those of undocked hemichannels whose aberrant functional properties appear to underlie the notable phenotypic differences among patients. Using electrophysiological recording and fluorescence imaging, we are continuing our investigations of aberrant channel characteristics to gain insights into mechanisms of disease pathogenesis. The common association of mutations with the aqueous pore has implicated altered permeability as a key contributor to cell dysfunction and using both exogenous expression systems and cochlear explants, we are examining altered signaling of Ca\(^{2+}\) and ATP, which play vital roles in cochlear development and function. Collaborative projects with Dr. Thomas White at SUNY Stony Brook, NY and Dr. Miduturu Srinivas at SUNY College of Optometry, NY, include generation of the first mouse model expressing a functional variant of Cx26 that exhibits enhanced Ca\(^{2+}\) permeability and the development of a high throughput screen to identify specific Cx channel blockers. Experience with two-electrode voltage clamp and patch-clamp recording, fluorescence imaging and cell culture work is desired. Inquiries about the position and applications (including research background and interests, curriculum vitae, and names and contact information for references) should be sent to vytas.verselis@einstein.yu.edu.

Expiration date: N/A
PI(s): Sara Wasserman (smwasser@gmail.com)

Institution: Wellesley College, Wellesley, MA, USA

Research Area: *Drosophila*, Neuroethology, Multi-sensory Processing (vision, olfaction, thermotaxis), Genetics, Optogenetics, quantitative real-time behavior, computer programming, and instrumentation.

PI at ICN2016: Yes

Lab presentations at ICN 2016:
Young Investigators Symposium: Multimodal sensory integration underlying decision-making in flying *Drosophila*.

Lab Webpage:
Outreach: [http://www.swirlss.org/](http://www.swirlss.org/)

Job Description:
A postdoctoral position is available in the Wasserman lab, opening July 1, 2016 at Wellesley College in Wellesley, MA ([http://www.wellesley.edu/neuroscience/faculty](http://www.wellesley.edu/neuroscience/faculty)). Wellesley College is a four year all women’s undergraduate institution with a strong research program and is located just 15 miles west of Boston, MA, a hub of scientific research. The lab is focused on identifying how well-defined sensory circuits demonstrate both the robustness and flexibility required to generate appropriate behavior in the face of changing internal and external environments. We utilize the high-performance behaviors and numerically limited nervous system of the fruit fly, *Drosophila melanogaster* alongside state-of-the-art behavioral, genetic, and physiological tools to examine general computational algorithms and neuronal circuitry for transforming sensory inputs to dynamical state-dependent behavioral outputs. The project will investigate the neuronal computations that drive in-flight navigation of thermal gradients and the integration of thermal and visual stimuli. Dr. Jamie Theobald at Florida International University will collaborate. Experience in instrumentation, Matlab or Python coding, behavioral assays, and genetics is desired. Inquiries about the position and applications (including research background and interests, curriculum vitae, and names and contact information for references) should be sent to smwasser@gmail.com. The position will remain open until filled.

Expiration date: N/A
PI: Jayne E Yack (jayneyack@cunet.carleton.ca)

Institution: Carleton University, Ottawa, ON, Canada

Research Area: Neuroethology, Insect sensory systems, Hearing, Vibration, Electrophysiology, Neuroanatomy, Behaviour

PI at ICN2016: Yes

Lab presentations at ICN 2016:
Poster: Yadav C, Matheson S, Yack JE. "Invitation by vibration: Social caterpillars use vibroacoustic signals to advertise ‘accommodations’ to potential shelter mates."
Poster: Yack JE, Taylor C. "How and Why Do Caterpillars Hear?"

Lab Webpage: http://http-server.carleton.ca/~jyack/

Job Description:
A postdoctoral position is available in the Department of Biology at Carleton University to study the neurophysiology of hearing and vibration reception in insects. The invertebrate neuroethology and bioacoustics laboratory focuses on acoustic communication in a variety of organisms including moths, butterflies, caterpillars, beetles, and earthworms. The lab is equipped with facilities for extracellular neurophysiology, sound and vibration recording and playback, light and electron microscopy, and high-speed videography. Experience or familiarity with invertebrate sensory electrophysiology and bioacoustics is required.

Carleton University Biology offers an academically enriching and collegial environment, with faculty members conduct cutting-edge research at all levels of biological organization. Ottawa is Canada’s Capital City and home to two internationally recognized universities, and several government facilities (National Entomology Collection, National Wildlife Service and the National Science Council).

Inquiries about the position and applications (including a cover letter, curriculum vitae, and names and contact information for 2 references) should be sent to jayneyack@cunet.carleton.ca. The position is available as of July 1 2016 (negotiable) and will remain open until filled.

Expiration date: N/A
Sensory Ecology
An International Course for Postgraduate Students at Lund University, Sweden

The senses of animals are essential for every aspect of daily life. Whether detecting a mate or a prey, escaping the attentions of a predator or simply monitoring the surrounding habitat, an animal’s senses are critical to its survival. To respond to the opportunities and dangers of the world quickly and effectively, each species must possess a sensory system that is uniquely optimised to its particular ecology. This “sensory ecology” has driven the remarkable range of sensory systems we find in Nature today.

Now in its third decade, the international postgraduate course Sensory Ecology is known throughout the world. The two-week course – which is limited to 40 participants – is organised at the Department of Biology at Lund University. The course is held every second year in Autumn. The world’s leading authorities in sensory ecology are invited to Lund to deliver an outstanding program of lectures covering all animal senses.

**The next course will take place from September 25 - October 8, 2016.**

Places will be allocated on a first-in first-served basis until the maximum number of places is filled (40 places). The closing date for applications is August 1st 2016, although the course is likely to fill before this date.

Please see the course web site for application procedures, details of the course contents and other practical information:

[http://www.biology.lu.se/education/phd-studies/phd-courses/sensory-ecology](http://www.biology.lu.se/education/phd-studies/phd-courses/sensory-ecology)

One can also contact the organisers via the following e-mail address: 
[Sensory.Ecology@cob.lu.se](mailto:Sensory.Ecology@cob.lu.se)