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The Black Box ToolKit
The INCF coordinates collaborative neuroinformatics infrastructure, integrating neuroscience data from genes to behavior.

Live demos at the INCF booth #4128 at SfN in San Diego!

Social & Satellite Events:

Sunday, November 10th 18:30 - 21:30
Neuroinformatics Social
Cat Eye Club, 370 Seventh Avenue

Monday, November 11th 18:30 - 20:30
Tackling the Terabyte: How Should Research Adapt to the Era of Big Data?
Hilton San Diego Bayfront, Sapphire 400

Tuesday, November 12th 18:45 - 20:45
Computational Neuroscience Social
San Diego Marquis: Marriott 3

Sunday, Nov. 10th
09:30 - 12:30
New Methods Power the SenseLab Portal and Modelers Experience

13:30 - 16:30
Computing, querying, and visualizing brains, shape features, metrics, and templates: A prototype webapp infrastructure built on NIDM
Stoner R, Nichols N, Klein A, Ghosh S

Monday, Nov. 11th
09:30 - 12:30
The Multi-modal Australian ScienceS Imaging and Visualisation Environment (MASSIVE) high performance computing infrastructure: applications in neuroscience and neuroinformatics research

Open source web-based infrastructure for brain atlas reconstruction, visualization and mining: 3D Brain Atlas Reconstructor, Scalable Brain Atlas and a new marmoset brain template
Wójcik DK, Bakker R, Chan J, Chaplin T, Chłodzińska N, Kowalski JM, Rosa M, Yu HH, Maška P

13:30 - 16:30
Web services and software for management and sharing of neurophysiological data
Wachtler T, Sobolev A

Tuesday, Nov. 12th
09:30 - 12:30
The INCF Data Space (IDS): Connect and share neuroscience data
Smith C, Valls Guimera R

NeuroDebian: from disjoint tools and data to robust turnkey platform for neuroimaging and beyond
Halchenko YO

13:30 - 16:30
Waxholm Space Atlas of the Sprague Dawley Rat Brain
Papp EA, Leergaard TL, Johnson GA, Bjadie JG

OpenWorm: An open science approach to computational neuroscience
Larson S

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The Department of Neuroscience at Baylor College of Medicine invites applications for multiple faculty positions in broad areas of neuroscience, including circuit analysis and imaging. The department is seeking applications at the assistant professor level, but accomplished mid-career or senior scientists at the level of associate or full professor with strong records of research productivity, grant support and a demonstrated collaborative spirit are also encouraged to apply. Research interests may focus on basic or disease related neuroscience, and special attention will be given to those applying state-of-the-art imaging, cellular, molecular and/or electrophysiological approaches.

The Department of Neuroscience at BCM is located within a dynamic collaborative research environment on the Texas Medical Center, with one of the highest densities of clinical, translational, and basic science research facilities in the world. The Neuroscience Department, including primary and affiliated faculty, is a vibrant community with strong ties to Psychiatry, Neurology and the Neurological Research Institute (NRI), as well as Rice University.

Applicants should submit a cover letter with a research statement and CV, as well as a list of at least 3 references as a single PDF file to Dr. Meg Ferris at mferris@cns.bcm.edu. First consideration will be given to applications received by December 1, 2013, but applications will be accepted until the positions are filled. BCM is an equal opportunity employer, committed to building a culturally diverse intellectual community, and encourages applications from women and minorities.
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Meeting Outline

The 37th Annual Meeting of the Japan Neuroscience Society

Date: September 11(Thu.)-13(Sat.), 2014
Venue: PACIFICO YOKOHAMA
Chairperson: Ryosuke Takahashi

Program(tentative)

1 Plenary Lectures

- Karl Deisseroth (Howard Hughes Medical Institute, Stanford University)
- Paolo Sassone-Corsi (University of California, Irvine)
- Ann M. Graybiel (Department of Brain and Cognitive Sciences, Massachusetts Institute of Technology)

2 Special Lectures

- Mitsuo Kawato (ATR Brain Information Communication Research Laboratory Group)
- Atsushi Miyawaki (RIKEN Brain Science Institute)
- Shoji Tsuji (Department of Neurology, Graduate School of Medicine, The University of Tokyo)

3 Symposia

- Symposia planned by Program Committee
- Call for Symposia (Opens October, 2013, tentative)

4 Award Lectures

- Nakaakira Tsukahara Memorial Award
- Toshihiko Tokizane Memorial Award

5 Oral Presentations / Poster Sessions

- Call for abstracts: From February to April, 2014 (Tentative)

6 Sponsored Seminars

Application for Luncheon Seminar sponsorship: opens June, 2013

7 Exhibition for Equipments & Publications

Exhibitor booth sales: opens June, 2013
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**Charles Bailey** is trained in psychiatry and clinical pharmacology research and is on the psychiatry faculty at the University of Central Florida College of Medicine.
The Department of Bioengineering at the University of Illinois at Urbana-Champaign (UIUC) seeks full-time senior and junior Bioengineering faculty for tenured or tenure-track positions in three specific areas: 1) neuroengineering for optical stimulation and control of neural circuits and systems, 2) cancer bioengineering, and 3) synthetic biology.

Please visit http://jobs.illinois.edu to view the complete position announcement and application instructions. The closing date for this position is December 31, 2013.

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Virginia Tech has an opening at the senior level to lead its new Neuroscience program (www.science.vt.edu/ais/neuro). We seek an outstanding scientist and educator with the vision and drive to grow our Division of Neuroscience. The successful candidate will be a recognized leader with an exceptional academic record, have a demonstrated commitment to education and to mentoring junior faculty, and possess proven leadership and management skills. Applicants from all areas of neuroscience are welcome.

The Division of Neuroscience, a multi-department effort, resides within the College of Science’s Academy of Integrated Science (http://www.science.vt.edu/ais). As the college’s home for interdisciplinary degrees, the Academy works with academic departments across campus to develop and support new interdisciplinary directions in scientific research and education. The leader of the Division will work closely with the leadership and an established group of neuroscience faculty at the Virginia Tech Carilion Research Institute (http://research.vtc.vt.edu) to further develop the growing campus-wide emphasis in neuroscience research and training. Further information is available at the links above; questions may be directed to Prof. Michael Friedlander (friedlan@vtc.vt.edu).

Applications must be submitted online at http://listings.jobs.vt.edu (TR0130103) and should include a cover letter, curriculum vitae, contact information for at least three references, a research program description, and a statement of teaching philosophy that describes an integrated vision for neuroscience education and possibilities for development of a neuroscience department. Review of applications will begin on December 2, 2013 and continue until the position is filled.

Virginia Tech is an EEO/AA university, and offers a wide range of networking and development opportunities to women and minorities in science and engineering. Individuals with disabilities desiring accommodation in the application process should notify Ms. Mikhelle Taylor, College of Science, (540) 231-5422, or call TTY 1-800-828-1120.

The Park Aging Mind Lab (directed by Dr. Denise Park) at the Center for Vital Longevity has a position available for a postdoctoral research associate. The lab is located in a state-of-the-art research facility with excellent access to both MRI and PET scanners. The laboratory is focused on the cognitive neuroscience of aging. The postdoc will be free to pursue a broad range of topics and interests within this domain with access to a large, already-collected data set: the Dallas Lifespan Brain Study. Intervention research is also a topic of interest. The candidate must hold an earned PhD in Cognitive Neuroscience and have prior neuroimaging experience, preferably with fMRI or amyloid imaging with PET.

The University of Texas at Dallas is an Equal Opportunity, Affirmative Action employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability, age, citizenship status, Vietnam era or special disabled veteran’s status, or sexual orientation.

Review of applicants will begin immediately. Indication of gender and ethnicity for affirmative action statistical purposes is requested as part of the application but is not required for consideration.

Curriculum vitae, a letter of interest, up to three scholarly publications, and three letters of reference (or the names and contact information for at least three professional references) should be submitted via the online application (under Position Title: Research Associate) at: www.utdallasjobs.com

Informal inquiries should be directed to Dr. Denise Park at denise@utdallas.edu or 972-883-3255.
Lab website: www.agingmind.utdallas.edu
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Applicants will be reviewed until the position is filled. Indiana University is an Affirmative Action Employer. Applications from women and minority candidates are especially encouraged.

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Institute for Memory Impairments and Neurological Disorders

The University of California, Irvine’s Institute for Memory Impairments and Neurological Disorders has an opportunity for a Director of Education. The Director of Education holds primary responsibility for educating the UCI community as well as the local community and special targeted audiences about MCI, AD and related dementias, as well as the activities of the Institute, through oral and written vehicles including, but not limited to, presentations, publications, and on-line tools. Activities of the Director of Education are designed to support the clinical research and fund development efforts of the Institute. The successful candidate will be expected to develop and maintain an independent and extramurally funded program of research at UCI and will be immediately responsible for drafting manuscripts for research using longitudinal cohort data. In addition, the candidate will have teaching assignments and will be expected to participate in the design of the curriculum of the department. Lastly, the successful candidate will support fund-raising activities through the development of foundation, corporate, and research grant proposals.

Requirements: Ph.D. in Neuroscience with expertise in the fields of aging, mild cognitive impairment and Alzheimer’s disease. Also required is extensive experience in program development, advanced writing skills, and many years of experience with grant writing, including R01 and foundation grants. The applicant must have a strong background in community networking and presentations, developing and nurturing community partnerships, and developing and editing newsletters and must have knowledge of the current social media and how to use these as tools for communicating. The job requires strong organizational skills as well as mentoring skills for graduate research students.

The successful candidate will be appointed at the full Professor level in the Professor In-Residence Series in a school of medicine department and at the level that is commensurate with the education and experience of the individual candidate.

Application Procedure – Interested applicants should apply online through UCI RECRUIT at the following link: https://recruit.ap.uci.edu/apply/JPF02134. Please upload a letter of interest, curriculum vitae with record of research experience, and the names of three references before 12/1/2013.

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Molecular Neurology and Therapeutics
12–18 July 2014
Wellcome Trust Genome Campus, Hinxton, Cambridge, UK

This popular Wellcome Trust course offers a unique opportunity to learn the latest concepts associated with the study of both rare and common neurological disorders, including Alzheimer’s disease, Parkinson’s disease, Huntington’s disease, amyotrophic lateral sclerosis, stroke, mitochondrial diseases, the ataxias and Fragile X syndrome.

Places are limited to twenty and bursaries are available (up to 50% of the course fee).

For full details, please visit: www.wellcome.ac.uk/hinxton

Course instructors
Mark Cookson (NIH, USA)
Beverly Davidson (University of Iowa, USA)
Harry Orr (University of Minnesota, USA)
Nicholas Wood (University College London, UK)

Guest speakers
Andrea Ballabio (TIGEM, Italy)
Patrick Chinnery (Newcastle University, UK)
Karen Duff (Columbia University, USA)
Costantino Iadecola (Weill Cornell Medical College, USA),
Su Metcalfe (University of Cambridge, UK)
Huw Morris (University of Cardiff, UK)
Dave Nelson (Baylor College of Medicine, USA)
Bryan Traynor (NIH, USA)
Steve Warren (Emory University, USA)

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a graduate of Natural Sciences, Mathematics, or Computer Science?
Looking for a chance to start your scientific career as a PhD student?
Interested in crossing scientific boundaries?

Deadline for students wishing to enter the program in the fall of 2014 is January 15, 2014
For further information, please consult www.ist.ac.at/gradschool

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Princeton University is committed to the continued expansion and development of neuroscience on its campus. In addition to other outstanding resources, a newly constructed 248,000 square foot building will open in late fall 2013 housing state-of-the-art facilities for the full range of neuroscientific methods, including human brain imaging, cellular and circuit level imaging in model organisms, structural neurobiology, studies of non-human primates, and computation and theory. These new facilities will support the continued growth of neuroscience at Princeton, including the three new positions described below. We are seeking qualified individuals working at all levels of neuroscience, to study development, learning, memory, perception, attention and higher level cognitive functions in humans and non-human species.

Tenured Full Professor Position

The Princeton Neuroscience Institute invites applications for a tenured appointment at the associate or full professor level to begin on or after September 2014.

Key selection criteria will be research excellence, originality of science, and future impact on the field of neuroscience and related disciplines. We seek applicants pursuing research directions with significant conceptual and/or empirical integration across traditional disciplinary boundaries. The appointee could be either an experimentalist or theorist. The successful candidate will join the Neuroscience Institute and may also join a department appropriate to the individual’s background and interests, with possibilities including (but not limited to) Psychology, Molecular Biology, Mathematics, Physics, Electrical Engineering and Computer Science. Applicants should be prepared to teach courses both at the undergraduate and graduate levels in neuroscience.

Please submit a curriculum vitae, a brief research description, and contact information for three references at http://jobs.princeton.edu, requisition #1300694. Applications will be considered on a rolling basis, and the search will remain open until the position is filled.

Tenure Track Assistant Professor Position

The Princeton Neuroscience Institute invites applications for a tenure track appointment at the assistant professor level to begin on or after September 2014.

Key selection criteria will be research excellence, originality of science, and future impact on the field of neuroscience and related disciplines. We seek applicants pursuing research directions with significant conceptual and/or empirical integration across traditional disciplinary boundaries. The successful candidate will join the Neuroscience Institute and may also join a department appropriate to the individual’s background and interests, with possibilities including (but not limited to) Psychology, Molecular Biology, Mathematics, Physics, Electrical Engineering and Computer Science. Applicants should be prepared to teach courses both at the undergraduate and graduate levels in neuroscience.

Please submit a curriculum vitae, a brief research description, and contact information for three references at http://jobs.princeton.edu, requisition #1300702. Applications will be considered on a rolling basis, and the search will remain open until the position is filled.

Position in Theoretical Neuroscience

The Princeton Neuroscience Institute invites applications for a tenure track appointment at the assistant professor level to begin on or after September 2014.

Key selection criteria will be research excellence, originality of science, and future impact on the field of neuroscience and related disciplines. The appointee would be expected to make contributions to theoretical and/or computational neuroscience and to engage with theoretically, computationally, and empirically inclined neuroscience researchers and trainees across a wide range of departments. The successful candidate will join the Neuroscience Institute and may also join a department appropriate to the individual’s background and interests, with possibilities including (but not limited to) Psychology, Molecular Biology, Mathematics, Physics, Electrical Engineering and Computer Science. The applicant would be expected to participate in the graduate and undergraduate training programs in neuroscience and should be prepared to teach courses as part of each.

Please submit a curriculum vitae, a brief research description, and contact information for three references at http://jobs.princeton.edu, requisition #1300701. Applications will be considered on a rolling basis, and the search will remain open until the position is filled.
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NeuroJobs — the premier online neuroscience career center — helps you find jobs and manage your career. NeuroJobs is now part of the National Healthcare Career Network* providing access to even more career opportunities.

For your next career search, visit NeuroJobs first!

SfN.org/neurojobs

*The National Healthcare Career Network (NHCN) is a consortium of healthcare association job boards working together to provide the most effective recruitment resource.

SfN members enjoy premium services, including resume posting and job alert e-mail notices.
The Center for Neural Science at New York University invites applications for the position of Assistant Professor/Faculty Fellow. The appointment will be for one year beginning January 15, 2014, renewable annually for a maximum of 3 years, pending administrative and budgetary approval. The successful applicant will hold a PhD in neuroscience or a related discipline and will contribute to the education of undergraduate Neural Science majors in three ways. First, the Fellow will be the point person for academic advising for current and potential Neural Science majors, and will also help advise students about research possibilities. Second, the Fellow will be expected to contribute to the undergraduate elective courses taught in the department. Third, the Fellow will assist in running the department’s summer undergraduate research program. Applicants must expect to receive their Ph.D. by Fall of 2013, and may not have received it before September 1, 2009. Applicants should submit a C.V., a cover letter describing their interest in this position, and the names of three individuals willing to provide letters of reference to the NYU Center for Neural Science website at www.cns.nyu.edu/faculty-search/. All applications should be submitted by December 2, 2013.

The Department of Biology and Center for Neural Science at New York University invite applications for a junior-level tenure track faculty position from candidates with research programs in neurobiology. We are particularly interested in individuals using model systems such as C. elegans, Drosophila or zebrafish in their research. Candidates must have completed a Ph.D. or equivalent by the time of application. Appointments can begin as early as September 1, 2014, pending administrative and budgetary approval. Applications will be considered as they are submitted, and the deadline for submission is January 15, 2014. To apply, see the NYU Department of Biology web site at: http://biology.as.nyu.edu/page/employment or Center for Neural Science web site at http://www.cns.nyu.edu/faculty-search/.

Faculty Position in Human Behavioral Neuroscience

The Department of Psychology at the University of Oklahoma invites applicants for a tenure-track position in human behavioral neuroscience at the rank of assistant professor. The successful applicant must have a doctoral degree in human behavioral neuroscience or an equivalent field and strong interests in at least one of the current areas of graduate research in the department (cognitive, developmental, industrial/organizational, personality, quantitative, social). It is highly desirable that the candidate have a substantive fit with the research interests of current faculty, both within Psychology and within other areas of the University that intersect within contemporary neuroscience (e.g., Biology, Engineering, Computer Science, Health and Exercise Science, etc.), including faculty at the OU Health Sciences Center in nearby Oklahoma City. The successful candidate must be qualified to teach undergraduate and graduate courses primarily in neuroscience and secondarily in other areas of interest to the applicant. A teaching course load of two courses per semester is expected. A strong record of productivity and a program of research that can attract external funding are expected, along with a commitment to excellence in teaching. The University of Oklahoma is especially interested in candidates who can contribute to the diversity and inclusive excellence of the academic community through their research, teaching, and service.

Please submit a curriculum vitae, at least three letters of recommendation, reprints/preprints of published research, a statement of research interests, and a statement of teaching interests. In both statements, applicants should indicate how their research and teaching will be integrated into one or more of the programs and areas with which they propose to collaborate. All application materials should be submitted electronically using the OU Career web site: jobs.ou.edu/applicants/Central?quickFind=82169

Questions about the position, including questions regarding the potential resources and infrastructure available should be directed to Michael Wenger (michael.j.wenger@ou.edu). Applications will be reviewed as received and the position will remain open until filled.

The University of Oklahoma is an Affirmative Action/Equal Opportunity Employer.
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Seeking resources to communicate with the public about neuroscience? Educating others through Brain Awareness activities?

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INTRODUCTION TO BIOELECTRICITY

Course Description: Fundamentals of bioelectricity of the mammalian nervous system. Passive and active forms of electric signaling in both intra and inter-cellular communication at the atomic, molecular, and engineered device level. Mathematical analysis including the Nernst equation, core conductors, cable theory, and the Hodgkin-Huxley Model of the action potential. Neuromodulation with nano-engineered sensors and actuators.

Course Schedule: February 13 - March 20
- Week 1: Fundamentals of bioelectricity
- Week 2: Bioelectric signaling
- Week 3: Passive conduction
- Week 4: Active conduction
- Week 5: Nano-engineering therapeutic interventions

Pedro Irazoqui is Associate Head for Research, and Associate Professor of the Weldon School of Biomedical Engineering, as well as Associate Professor of Electrical and Computer Engineering and Director of the Center for Implantable Devices at Purdue University. His research focuses on implantable networks of wireless nanoelectronic devices to enable multi-pathology treatment through physically distributed networks of sensors and actuators for the clinical treatment of physiological disorders. Specific research and clinical applications explored in the center include: epilepsy, addiction, glaucoma, motor disorders, and neural control of prostheses.

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