

CENTER FOR SENSORIMOTOR NEURAL ENGINEERING

Improving lives by connecting brains and technology

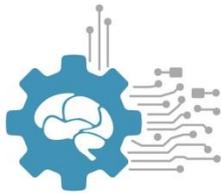
May, 2016

Awards

- Congratulations to CSNE Director **Rajesh Rao** for being selected as a John Simon Guggenheim Fellow: <http://www.gf.org/fellows/all-fellows/rajesh-p-n-rao/>
- Congratulations to CSNE/Philosophy graduate student **Matthew Sample**, who has accepted a postdoctoral position at the neuroethics research unit at the Institut de recherches cliniques de Montréal (under the supervision of Eric Racine). This position will involve leading research efforts to examine ethical and social issues in the use of brain-computer interfaces.

Upcoming Seminars, Lectures, Courses, Conferences

- **Exhibit: Art Neureau**, a neuroscience art exhibit will take place on May 3, 2016 (7-9 pm) at the Fremont Abbey, Seattle, WA.
- **Discussion:** University of Washington Institute of Neuroengineering Faculty Entrepreneurship Panel featuring **Josh Smith, Chet Moritz, and Beth Buffalo**, Wednesday, May 4, 3:30 pm, UW PAA-A110.
- **Seminar:** University of Washington Computational Neuroscience seminar, **Dr. Jeff Siskind** (Associate Professor, School of Electrical and Computer Engineering, Purdue University), "Decoding the Brain to Help Build Machines," May 11, 3:30 pm, UW CSE 305.
- **Symposium:** Save the date! The annual Spring Neuroscience Symposium is scheduled for Tuesday May 24, 2016, 9 am-4 pm at the UW Waterfront Activity Center. This year's theme is: **Neural Mechanisms of Fear and Loathing**.
- **Workshop:** 9th Bernstein Sparks Workshop: Recent advances in recurrent network theory: fluctuating correlated dynamics across scales (May 25 - 27, 2016, Göttingen, Germany; Tutorials: May 24, 2016): <http://www.nncn.de/en/news/events/9th-bernstein-sparks-workshop>
- **Conference: NeuroFutures 2016**, an annual conference designed to explore the advances in neurotechnology, (June 20-21, 2016, Allen Institute headquarters building, Seattle, WA). Registration is now open at <http://neurofutures.us>
- **Conference:** 2nd Summer Institute in **Statistics for Big Data** (University of Washington, Seattle, WA, July 11-29, 2016): <http://www.biostat.washington.edu/suminst/sisbid/register>
- **Workshop: Summer Workshop on the Dynamic Brain**, co-hosted by University of Washington Computational Neuroscience Training Program and the Allen Institute for Brain Science, August 20-September 4, 2016, UW Friday Harbor Laboratories:



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<http://alleninstitute.org/what-we-do/brain-science/events-training/events/summer-workshop-dynamic-brain-2016>

- **Conference: 2016 Annual Meeting of the International Neuroethics Society** (San Diego, CA, November 10-11, 2016); call for abstracts is now open: <http://www.neuroethicssociety.org/abstracts>
- **Conference: 2016 Society for Neuroscience Annual Meeting** (San Diego, CA, November 12-16, 2016); call for abstracts closes on May 5, 2016: <http://www.sfn.org/Annual-Meeting/Neuroscience-2016>

New CSNE Publications

- **Casimo, K., Darvas, F., Wander, J., Ko, A., Grabowski, T., Novotny, E., Poliakov, A., Ojemann, J. and Weaver, K.**, Regional patterns of cortical phase synchrony in the resting state, *Brain Connect.*, March 28, 2016.
- **Jazayeri, M. and Remington, E.**, Optogenetics advances in primate visual pathway, *Neuron*, 90:8-10, 2016 doi: 10.1016/j.neuron.2016.03.024.
- **Patel, P., Sarkar, M., Nagaraj, S.** and Kushalad, K., Channel modelling based on statistical analysis for brain-computer-interface (BCI) applications, In *International Conference on Computer Communications*, IEEE INFOCOM 10-15th April 2016, San Francisco, California.
- **Patel, P., Sarkar, M., and Nagaraj, S.**, Ultra wideband channel characterization for invasive biomedical applications, In *Wireless and Microwave Technology Conference, IEEE WAMICON*, 11-13th April 2016, Clearwater Beach, Florida.
- **Moorjani, S.**, Miniaturized technologies for enhancement of motor plasticity, *Front. Bioeng. Biotechnol.*, 18 April 2016 | <http://dx.doi.org/10.3389/fbioe.2016.00030>

CSNE in the News

- Deep brain stimulation helps UW prof live with Parkinson's (Andrew Ko; UW Health Sciences NewsBeat): <http://hsnewsbeat.uw.edu/story/deep-brain-stimulation-helps-uw-prof-live-parkinsons>
- 3 University of Washington professors recognized by Guggenheim Foundation (Rajesh Rao, UW Today): <http://www.washington.edu/news/2016/04/06/3-university-of-washington-professors-recognized-by-guggenheim-foundation/>
- Chip, implanted in brain, helps paralyzed man regain control of hand (Rajesh Rao; New York Times): <http://www.nytimes.com/2016/04/14/health/paralysis-limb-reanimation-brain-chip.html?smid=tw-nytimes&smtyp=cur&r=1>



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New CSNE Blog Posts

- The CSNE Neuroethics Roundtable explores tough ethical issues
<http://csne-erc.org/engage-enable/post/csne-neuroethics-roundtable-explores-tough-ethical-issues>
- Neuroethics symposium features internationally-known speakers
<http://csne-erc.org/engage-enable/post/neuroethics-symposium-features-internationally-known-speakers>
- Decoding brain signals
<http://csne-erc.org/engage-enable/post/decoding-brain-signals>

Recent Papers of Interest to the CSNE Community

- Davis et al., Restoring motor control and sensory feedback in people with upper extremity amputations using arrays of 96 microelectrodes implanted in the median and ulnar nerves, *J. Neural Eng.*, 13, June 2016.
- Bouton, C.E., et al., Restoring cortical control of functional movement in a human with quadriplegia, *Nature*, (2016), doi:10.1038/nature17435

Grant Opportunities

- NIH Mentored Research Scientist Development Award (Parent K01) Grant:
<http://www.grants.gov/web/grants/view-opportunity.html?oppld=283038>
- NIH Pathway to Independence Award (Parent K99/R00) Grant:
<http://www.grants.gov/web/grants/view-opportunity.html?oppld=283042>
- NIH Independent Scientist Award (Parent K02), Grant:
<http://www.grants.gov/web/grants/view-opportunity.html?oppld=283047>
- NSF Innovative Computational Infrastructure for Understanding the Brain
<http://www.nsf.gov/pubs/2016/nsf16076/nsf16076.jsp>

Join the CSNE Facebook site at:
<https://www.facebook.com/groups/134997836537779/>

Please send additional news and events items for inclusion in this newsletter to Dr. Eric Chudler (CSNE, Executive Director) at chudler@uw.edu.