

CNEP Annual Retreat, December 2, 2016

Genentech Hall

UCSF Mission Bay Campus

- 8:30 – 9:00 Continental breakfast
- 9:00 – 9:10 Opening remarks: Jose Carmena and Edward Chang, CNEP Co-directors
- 9:10 – 9:30 Ben Dichter (Chang Lab, UCSF), *"Human larynx cortex in speech production"*
- 9:30 – 9:50 Samantha Santacruz (Carmena Lab, UCB), *"Characterizing neural and emotional state shifts with closed-loop stimulation"*
- 9:50 – 10:10 Dhakshin Ramanathan (Ganguly Lab, UCSF), *"Closed-loop enhancement of movement control after stroke"*
- 10:10 – 10:30 Prof. Michel Maharbiz (UCB), *"Recent Advances in Neural Dust, a platform for peripheral and central nervous system recording"*
- 10:30 – 10:50 **Coffee break**
- 10:50 – 12:00 Keynote Speaker: Prof. John Rogers, Director, Center for Bio-Integrated Electronics, Northwestern University, *"Soft, biocompatible optoelectronic interfaces to the brain"*
- 12:00 – 1:00 **Lunch break**
- 1:00 – 1:20 Nicki Swann (Starr Lab, UCSF), *"Feedback controlled DBS in Parkinson's disease"*
- 1:20 – 1:40 Prof. Rikky Muller (UCB), *"OMNI: 128-channel wireless closed-loop neuromodulator"*
- 1:40 – 2:00 Tim Hanson (Sabes Lab, UCSF), *"Development and in-vivo testing of the neural sewing machine for inserting fine, flexible probes"*
- 2:00 – 2:20 Prof. Frederic Theunissen (UCB), *"Identifying degraded communication sounds: insights from birds and humans"*
- 2:20 – 2:40 Prof. Kristofer Bouchard (LBNL), *"The union of intersections (Uoi) method for interpretable data driven discovery and prediction at scale"*
- 2:40 – 3:00 Michael Oliver (Gallant Lab, UCB), *"Reverse engineering the visual cortex"*
- 3:00 – 3:30 **Coffee break**
- 3:30 – 3:50 Winston Chiong (UCSF Neurology), *"Neuroethics in emerging human neuroscience"*
- 3:50 – 4:10 Chris Holdgraf (Knight Lab, UCB), *"Using perceptual enhancement to study receptive field plasticity in ECoG"*
- 4:10 – 6:00 Reception
- 6:00 Adjourn