WEDNESDAY, MAY 27, 2015

SESSION I
1:00 – 5:00 pm

343 Alumni Hall, University of Pittsburgh, 4227 5th Avenue

Byron Yu, Carnegie Mellon University
Keynote Lecture: Neural constraints on learning

Adam C. Snyder, University of Pittsburgh
Decoding time-varying attentional states using high-dimensional population activity

Nathaniel C. Wright, Washington University, St. Louis
Dynamics of cortical noise correlations during vision

~2:45 pm

Break

Matt Wilson, MIT
KEYNOTE LECTURE: TBA

Discussant: Uri Eden, Boston University

Kensuke Arai, Boston University
Oscillations at various frequency bands are present in bulk, continuous-valued neural recordings like electroencephalograms (EEG) and local field potential (LFP)

Behtash Babadi, University of Maryland, College Park
Robust estimation of compressible point process models with application to neuronal modeling

5:00-7:00 pm

Informal Discussion & Social (Snacks & cash bar)
Bridges Lounge at the Wyndham University Center, 100 Lytton Avenue

7:00
Dinner (on your own)
THURSDAY, MAY 28, 2015

SESSION II
9:00 – 11:35 am
343 Alumni Hall, University of Pittsburgh, 4227 5th Avenue

**Michael I. Miller,** Johns Hopkins University
KEYNOTE LECTURE: *Neuroinformatics, computational anatomy and brain clouds at the morphome scale*

Discussant: **Sri Sarma,** Johns Hopkins University

**Santosh Chandrasekaran,** Carnegie Mellon University
*Unbiased, high-throughput electron microscopy analysis of experience-dependent synaptic changes*

~10:25 am

**Break**

~10:25 am

**Xinyi Deng,** Boston University
*Clusterless decoding of position from multiunit activity using a marked point process filter*

**Patrick N. Lawlor,** Northwestern University
*Time warping as a source of trial-to-trial variability*

11:35 am

Lunch *(on your own)*

SESSION III
1:30 – 4:25 pm
343 Alumni Hall, University of Pittsburgh, 4227 5th Avenue

**Mohammad Azar,** Northwestern University
*Training brain-machine interfaces without supervised data: A distribution alignment approach*

**Tamar Melman,** Weill Cornell Medical College
*Robust multitaper spectral analysis of EEG signals with Bayesian confidence limits*

**Burcin Simsek,** University of Pittsburgh
*On the distribution of photon counts with censoring in two-photon laser scanning microscopy*

~2:50 pm

**Break**

~2:50 pm

**Mark Schnitzer,** Stanford University
KEYNOTE LECTURE: *Reading the neural code in behaving animals ~1000 neurons at a time*
Discussant: **Susanne Ahmari**, University of Pittsburgh

4:25-5:00 pm  Free Time / Presenters set up posters

5:00-6:30 pm  Poster Session (even numbered) begins  
Ballroom B, The University Club, 123 University Place

6:30-7:30 pm  Dinner  
Ballroom A, The University Club, 123 University Place

7:30-9:00 pm  Poster Session (odd numbered) continues with Dessert

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**FRIDAY, MAY 29, 2015**

SESSION IV  
9:00 am - 12:20 pm  
343 Alumni Hall, University of Pittsburgh, 4227 5\textsuperscript{th} Avenue

**Adrienne Fairhall**, University of Washington  
KEYNOTE LECTURE: *TBA*

Discussant: **Jonathan Victor**, Weill Cornell Medical College

**Giuseppe Vinci**, Carnegie Mellon University  
*Separating spike correlation from trial-to-trial firing rate correlation*

**Leila Wehbe**, Carnegie Mellon University  
*One-step hypothesis testing for functional neuroimaging*

~10:45 am  
Break

**Sebastian Seung**, Princeton University  
Title: *Structural clues to a visual function: Direction selectivity in the retina*

Discussant: *TBA*

12:30 pm  
Adjourn