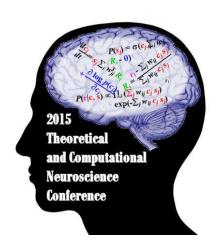
12th Annual Theoretical and **Computational Neuroscience Conference**

February 6-7, 2015

BioScience Research Collaborative (BRC)

Organizers:

Harel Shouval, University of Texas Health Science Center at Houston Krešimir Josić, University of Houston Fabrizio Gabbiani, Baylor College of Medicine Steve Cox, Rice University Zachary Kilpatrick, University of Houston Xaq Pitkow, Rice University and Baylor College of Medicine Melissa Thompson, Gulf Coast Consortia



Conference Agenda

Friday, February 6, 2015

Unless otherwise noted, proceedings will take place in the Auditorium

Reverse-engineering Common Sense: Modeling Human Intelligence with

Probabilistic Programs and Program Induction

Josh Tenenbaum, Massachusetts Institute of Technology

5:00 pm Reception and Networking

Saturday, February 7, 2015

9:00 am	Welcome and Introduction
9:10 am	The Private Lives of Neurons Nicholas Priebe, University of Texas at Austin
10:00 am	Inferring Rules of Interactions between Neurons from Population Recordings Dimitri Yatsenko, Baylor College of Medicine
10:20 am	Break
10:40 am	A New Test for Optimal Nonlinear Decoding Xaq Pitkow, Baylor College of Medicine and Rice University
11:20 am	Group Discussions
11:50 am	Lunch and Posters (BRC 1 st Floor Event Space)
1:10 pm	Learning to Predict Larry Abbott, Columbia University
2:00 pm	Stable Reinforcement Learning via Temporal Competition of LTP and LTD Traces Marco Huertas, University of Texas Health Science Center at Houston
2:20 pm	Break
2:50 pm	Nanotechnology for Neural Interfaces Jacob Robinson, Rice University
3:30 pm	Group Discussion and Closing Remarks

Sponsored by: Gulf Coast Consortium

Theoretical and Computational Neuroscience

a research consortium of the Gulf Coast Consortia for Quantitative Biomedical Sciences