Agenda
Friday, January 26, 2018
BioScience Research Collaborative, 6500 Main St, First Floor Auditorium

8:30  Poster Set-up and Light Breakfast
9:00  Welcome

9:10-10:00  Shaul Druckmann, PhD, Group Leader, Janelia Research Campus
Relating Circuit Dynamics to Computation: Robustness and Dimension-specific Computation in Cortical Dynamics

10:00-10:20  Kaushik Lakshminarasimhan, Predoctoral Student, Neuroscience, Baylor College of Medicine
Task Representation in the Macaque Posterior Parietal Cortex during Virtual Navigation

10:20-10:40  Coffee/Networking Break

10:40-11:20  Robert Rosenbaum, PhD, Assistant Professor, Applied and Computational Mathematics and Statistics, University of Notre Dame
A Reservoir Computing Model of Motor Learning with Parallel Cortical and Basal Ganglia Pathways

11:20-12:20  Poster Session and Poster Judging
12:20-1:00  Lunch and Posters

1:00-1:50  Cristina Savin, PhD, Assistant Professor, Neural Science and Data Science, New York University
Spike-based Probabilistic Computation

1:50-2:10  Etienne Akermann, Predoctoral Student, Electrical & Computer Engineering, Rice University
O Replay, Replay! Wherefore Art Thou Replay?

2:10-2:30  Hongxia Wang, PhD, Postdoctoral Fellow, Neuroscience, Baylor College of Medicine
Feed Forward Inhibition Conveys Time-varying Stimulus Information in a Collision Detection Circuit

2:30-2:55  Coffee/Networking Break

2:55-3:55  Group Discussion

3:55 – 4:45  Keynote/Keck Seminar Speaker:
Stuart Geman, PhD, Professor, Applied Mathematics, Brown University

4:45 – 5:00  Poster Awards and Closing Remarks
5:00  Reception

Organizing Committee:
Fabrizio Gabbiani, Professor, Neuroscience, Baylor College of Medicine
Krešimir Josić, Professor, Mathematics, University of Houston
Xaq Pitkow, Assistant Professor, Neuroscience, Baylor College of Medicine / Electrical & Computer Engineering, Rice, University
Harel Shouval, Professor, Neurobiology & Anatomy, UT Health Science Center at Houston