



“Computation, Cognition and the Brain”

A Computational Neuroscience Workshop

Wednesday, May 30 - Friday, June 1, 2018

Room 2400, Academic Building, College Avenue Campus
15 Seminary Pl, New Brunswick, NJ 08901



RUTGERS
UNIVERSITY

This 2 1/2 day workshop focuses on how the brain codes different aspects of experience. The workshop is jointly sponsored by the Center for Cognitive Science and the Psychology and Computer Science Departments at Rutgers University. The workshop will have 5 sessions, with three eminent experimental or computational neuroscience speakers per session. We will address big questions surrounding coding, representation, and decision-making from both neurobiological and computational perspectives. Discussion and audience participation will be encouraged. Attendees will include faculty and students from over 20 institutions, representing nearly 40 different departments.

Wednesday, May 30th

“Processing Levels: What mechanisms for encoding experiential statistics operate at the circuit versus cellular levels?”

Moderator: David Vicario (Rutgers)

- Daniel Margoliash (U of Chicago)
- Michael Long (NYU School of Medicine)
- Adrienne Fairhall (U of Washington)

“Decision Making: How is accumulating evidence represented and how are decisions based on those representations?”

Moderator: Randy Gallistel (Rutgers)

- Michael Shadlen (Columbia)
- Jonathan Pillow (Princeton)
- Konrad Kording (UPenn)

Thursday, May 31st

“Space and Time: How are simple quantities coded in neural firing and stored in memory for subsequent access?”

Moderator: John McGann (Rutgers)

- Randy Gallistel (Rutgers)
- Russell Epstein (UPenn)
- David Huber (UMass)

“Higher Visual Perception: How do visual statistics subserve object encoding in the brain?”

Moderator: Dimitri Metaxas (Rutgers)

- Anitha Pasupathy (U of Washington)
- Jack Gallant (Berkeley)
- James DiCarlo (MIT)

Friday, June 1st

“Encoding Theory: What are computational mechanisms for information processing in the brain?”

Moderator: Pernille Hemmer (Rutgers)

Speakers:

- Aurel Lazar (Columbia)
- Eero Simoncelli (NYU)
- Tatyana Sharpee (Salk)

RSVP, Detailed Program & More Info

Seating is limited. Please RSVP to reserve your seat.

To RSVP and for more info, please visit the event website - <https://goo.gl/JsBrGA> (case-sensitive)

Organizers

Drs. Randy Gallistel, Brian McLaughlin, Dimitris Metaxas, Sara Pixley, and David Vicario.