David Melcher, NYU. The role of prediction in naturalistic visual perception.
Mike Landy, NYU. Sensory-motor confidence.
Michael Frank, Brown. Beyond drift diffusion: fitting a broad class of neurally informed decision making models with likelihood approximation networks.
Frederike Petzchner, Brown. Computational models of compulsive behavior.
Josh Brown, IU. fMRI studies of non-invasive deep brain temporal-interference neurostimulation in humans.

**Thursday Feb 2, 2023**

**Friday Feb 3, 2023 - Organizer: Fulvio Domini**

“3D Vision: modeling and psychophysics”

Johannes Burge, U Penn. Temporal processing and 3D vision.
Jovan Kemp, Brown. Evidence that Just-Noticeable Differences do not reflect perceptual uncertainty in depth discrimination.
Michele Rucci, Univ of Rochester. Influences of eye movements on stereopsis.
Zyg Pizlo, UC Irvine. Recovering shapes of 3D real objects from a single image.

**Saturday Feb 4, 2023 - Organizer: Anne Churchland**

“Seeing neural activity through the lens of decision, movements and moral behavior”

Anne Churchland, UCLA. What determines decision accuracy in rats, mice and humans?
Mark Churchland, Columbia U. From spikes to factors: understanding large-scale neural computations.
Patricia Churchland, UCSD. The neurobiological platform for moral behavior.
Adina Roskies, Dartmouth. Agency as a framework for thinking about neuropsychiatric disorders.
Tim McNamara, Vanderbilt. Bayesian priors in spatial memory and spatial causal inference.
George Sperling, UC Irvine. Discovering how many salience maps we have.
Sunday Feb 5, 2023 - Organizers: Bruno Averbeck & Veronica Alvarez
“Synaptic Pathophysiology Underlying Psychiatric Disorders”

Bruno Averbeck, NIMH. Synaptic pruning and developmental neurodynamics.
Veronica A. Alvarez, NIMH/NIAAA. A circuit mechanism for cortical control over striatal dopamine that is targeted by drugs of abuse.
Katherine M. Nautiyal, Dartmouth College. It’s not just dopamine - Serotonin also modulates brain reward systems.
Daniel Wonjae Chung, U Pitt. Combining postmortem studies and computational modeling to decipher cortical circuit abnormalities in schizophrenia.
Yevgenia Kozorovitskiy, Northwestern. Dopamine dynamics and neuroplasticity across behavioral states.
Matthew Chafee, U of Minn. Spike timing and prefrontal circuit disconnection in schizophrenia models.
Alberto Cruz-Martin, Boston U. Cell Type Specific Contributions to Anxiety Deficits in a Mouse Model of Complement 4 Overexpression.

8:00 Pizza Banquet – Conference Room

Monday Feb 6, 2023

Brian Garibaldi, Johns Hopins U. Applying Precision Medicine to COVID-19.
Cris Niell, U of Oregon. Neural circuits for natural behavior and active vision in the mouse.
Cory Miller, UCSD. Cross-Modal Representation of Identity in Primate Hippocampus.
Shihab Shamma, U of MD, Predictive Decoding of the Auditory Mind.

Attending the meeting:

Kerry Jordan, Utah State U
Jude Mitchel, U of Rochester