

# Annual Interdisciplinary Conference, 2019

## Teton Village, WY: Feb 1-4

### **Friday, February 1.**

#### **4:00 Reception.**

4:30 Jeffrey Mulligan (NASA) The Optoretinogram at 38.5.

5:00 Timothy P. McNamara (Vanderbilt U.) Bayesian Decision Theory and Navigation.

5:30 Zygmunt Pizlo (UC Irvine) Symmetry is the *sine qua non* of 3D vision.

#### **6:00 Break.**

6:30 Barbara Doshier (UC Irvine) Modeling n-alternative judgments.

7:00 Johannes Burge (U. Penn) The Reverse Pulfrich Effect.

#### **7:30 Business Meeting.**

### **Saturday, February 2. Neural basis of attention – special session.**

4:00 Farran Briggs (U. Rochester) Understanding attention at different neuronal scales.

4:30 Shreesh P. Mysore (Johns Hopkins U) Selection for attention: Neural circuits and computations in owls and mice.

5:00 John Reynolds (Salk Institute) Spontaneous Traveling Cortical Waves Gate Perception.

5:30 Douglas A. Ruff (U. Pittsburgh) Using simultaneous multi-area neuronal recordings to investigate how attention improves behavioral performance.

#### **6:00 Break.**

6:30 Lawrence Cormack (UT Austin) Attentional filters for object motion revealed by dynamic tracking responses.

7:00 Michael Silver (UC Berkeley) Spatial attention, visual perception, and slow fluctuations in endogenous brain activity.

7:30 Michele Basso (UCLA) A Role for the Superior Colliculus in Decision-Making and Decision Confidence.

**Banquet – Alpenhof**

## **Sunday, February 3.**

- 4:15 Franco Pestilli (IU Bloomington) A Public Cloud Platform for Large-Scale Data Analysis, Visualization and Sharing of Reproducible Neuroscience Research.
- 4:45 Jihyun Yeonan-Kim (National Eye Institute) Retinal Center-Surround Processing: Spatiotemporal Dynamics and Influence on Perception.
- 5:15 Zhong-Lin Lu (Ohio State U.) Assessing the detailed time course of perceptual sensitivity change in perceptual learning.

### **5:45 Break.**

- 6:15 Susanne Ressler (IU Bloomington) C1QL-mediated complexes, a novel molecular logic in synapse adhesion.
- 6:45 Nicholas Port (IU Bloomington) The Clinical Utility of Using Involuntary Eye Movements to Assess Concussion.
- 7:15 Andrew P. Yonelinas (UC, Davis) The Effects of Acute Stress on Episodic Memory.

## **Monday, February 4.**

- 4:15 Misha Pavel (Northeastern U.) Modeling Dual Task Interference using Information-Theoretic Approach.
- 4:45 Justin Halberda (Johns Hopkins U.) Re-understanding internal noise as internal confidence for time, space and number.
- 5:15 Jessica K. Witt (Colorado State U.) The Perceptual Experience of Variability.

### **5:45 Break.**

- 6:15 Peter Dixon (U. Alberta) Mind Wandering and Temporal Focus in Task Switching.
- 6:45 Cory Miller (UC San Diego) Who is Where? Representing Social Space in the Primate Brain.
- 7:15 James Elder (York U., Canada) LS3D: Single-View Gestalt 3D Manhattan Surface Reconstruction.