

43rd Annual Interdisciplinary Conference
February 2-5, 2018
Jackson Hole Mountain Resort
Olympic Room

Friday, Feb. 2, 4-8pm.

Timothy P. McNamara (Vanderbilt U.): Spatial Reference Systems in Spatial Updating.
Jeffrey B. Mulligan (NASA): Discovery of activities via statistical clustering of fixation patterns.
Laurie M. Wilcox (York U.): Binocular vision requirements for aircrew.
Jessica K. Witt (Colorado State U.): Mechanisms of Action's Effect on Spatial Perception Illuminated by Individual Differences.
Franco Pestilli (Indiana U.): Multidimensional encoding of brain connectomes: building biological networks with preserved edge properties to study the visual white matter
Steven Zucker (Yale U.): When Color and Shading Flow Together.

Saturday, Feb. 3, 4-8pm.

James H. Elder (York U.): Scaling of shape perception.
Wilson S. Geisler (U. Texas, Austin): Decision-Variable Correlation.
Natalie A. Kacinik (Brooklyn College): Examining the invariance of word processing: Do manipulations of size affect size judgments?
Keith Schneider (U. Delaware): Segmenting the human LGN using a temporal response model
Michael S. Landy (NYU): Estimation of gloss and shape from vision and touch
Zhong-Lin Lu (Ohio State U.): Efficient Assessment of the Time Course of Perceptual Sensitivity Change.

Banquet.

Sunday, Feb 4, 4-8pm.

Barbara Doshier (UC Irvine): Perceptual learning in n-alternative forced choice with response and accuracy feedback, and a reweighting model.
David Heeger (NYU): Attention model of binocular rivalry.
Xiaoping Hu (UC Riverside): Individual Identification Using Functional Brain Fingerprint Detected by Recurrent Neural Network.
Roger Ratcliff (Ohio State U.): Modeling Numeracy Decisions on a Continuous Scale.
Farran Briggs (Rochester U.): Network mechanisms of visual attention.
Adina L. Roskies (Dartmouth College): Assessing Consciousness in the Vegetative State: A proposal.

Monday, Feb 5, 4-8pm.

Bruce Brown (Brigham Young University): A Comparison of Three Cognitive Tasks and Five Analytical Methods in Identifying Infectious Diseases from ERP Measures.
Allan Dobbins (U. Alabama): The Ocular Dominance Architecture: A Functional Theory.
Misha Pavel (Northeastern U.): Computational model based approaches to monitoring affective states and their dynamics.
George Sperling (UC Irvine): A brief review, with demos, of the evidence that there are three independent systems that compute a perceived direction of motion from visual inputs.
Jenny Read (Newcastle U.): The encoding of binocular disparity in primary visual cortex.
Susanne Ressler (Indiana U.): Exploring Structural Mechanisms of Synapse Connectivity.