

50th Annual Interdisciplinary Conference

Jackson, Wyoming

Jan 15-Jan 19, 2025

Organizer: Nicholas Port and Zyg Pizlo

Thursday Jan 15th. 4:00-8:00

Misha Pavel, *Northeastern*.

Brian Garibaldi, *Johns Hopkins*.

Cory Miller, *UCSD*. A gaze map in marmoset hippocampus

Kevin Lande, *York*.

Peter Kohler, *York U*, Is symmetry processing constrained by familiarity?

Jacob Beck, *York U*, Resurrecting a primary–secondary quality distinction

Friday Jan 16th, 4:00-8:00

Laura Soter, *York U*.

Kimberly A. Jameson, *UCI*. Color perception genes and their clinical relevance.

Lynne Kiorpes, *NYU*. Functional attentional mechanisms in amblyopia

Indie Garwood, *U Penn*.

Shih-Wei, *National Yang Chiao U*. Detecting regime shifts: under- and overreactions to change

Sam Clarke, *UC Santa Barbara*.

Michael Rudd, *UNR*. Quantitative neural model of lightness perception

Saturday Jan 17, 4:00-8:00 - 50th Anniversary Special Symposium

Christopher (Ex Bill) Tyler.

Barbra Doshier, *UCI*.

Richard Shiffrin, *Indiana U*. A model for recognition accuracy and response time that includes time to collect features.

Tony Movshon, *NYU*. From stuff to things in the visual cortex

Roger Ratcliff, *OSU*.

James Townsend, *Indiana U*. Constructing a Theory-Driven Methodology that Assesses Architecture, Decisional Stopping Rule, Workload Capacity and Various Types of Independence: Unifying General Recognition Theory with Systems Factorial Technology

George Sperling, *UCI*. Parvo versus magno Isoluminance

Sunday Jan 18, 4:00-8:00 - Special Symposium, Temporal Interference Organizer: Josh Brown

Kari Theurer, *Trinity College*.

Colin Allen & Adina Roskies, *UCSB*.

Temporal Interference Session:

Josh Brown, *Indiana U*. Characterizing the BOLD fMRI response to temporal interference stimulation in humans

Andy Huang, *Soterix Medical*. TI stimulation - pros, cons, and future directions

Jon Ryan, *Emory U*. Converging Evidence That Ventral Striatal Theta-Range Temporal Interference Enhances Reward Positivity

Christopher Pack, *McGill U*. Single-neuron effects of temporal interference stimulation

Temporal Interference Panel Discussion

Monday Jan 19 4:00-8:00

Nicholas Port, *Indiana U*. The Effect of Concussion on the Pupillary Light Reflex

Franco Pestilli, *UT Austin*.

Jessi Witt, *Colorado State*. .

Mike Landy, *NYU*. Temporal integration in visual and somatosensory cortex is consistent with normalization

Matt Chaffee, *U MN*,

Ellen Payne, *Moravian U*.

David Barack, *Carnegie Mellon*. Foraging, Inquiry, and Cognitive Architecture

In attendance:

Holly Jimison, *Northeastern*.

Jeff Mulligan, *NASA Ames (ret)*.

Tim McNamara, *Vanderbilt*.

Kerry Jordan, *UT State U*.

Abby McArthur, *Sunshine Coast U*.

Dominick Krepski

Ethan Jacobs