

## **Posters**

Jeffrey R. Begley<sup>1</sup> & Michael A. Arbib<sup>1,2</sup>: “Modeling Salamander Vision and Locomotion Interaction” 1. Computer Science; 2. Neuroscience Graduate Program

Gerald Sun<sup>1</sup>, Susana T.L. Chung<sup>5</sup>, & Bosco S. Tjan<sup>2,3,4</sup>: “Mechanisms of Crowding and Learning to “Uncrowd” 1. Biology; 2. Neuroscience Graduate Program; 3. Psychology; 4. T-lab; 5. Univ. of Houston, College of Optometry

Luis Andres Lesmes<sup>1</sup>, Zhong-lin Lu<sup>2,3,4</sup>, Jongsoo Baek<sup>2,3</sup>, & Thomas Albright<sup>1</sup>: “Efficient Adaptive Measurement and Classification of Contrast Sensitivity Functions” 1. Vision Center Laboratory, Salk Institute for Biological Studies; 2. Laboratory of Brain Processes (LOBES); 3. Psychology; 4. Neuroscience Graduate Program

Leallyn Murtagh<sup>1</sup>, Brandon Wong<sup>3</sup>, Jessica Gonzales<sup>4,5</sup>, & Bosco S. Tjan<sup>2,4,6</sup>: “Spatial Summation in Visual Noise and Natural Scene” 1. Biomedical Engineering; 2. Neuroscience Graduate Program; 3. Biological Sciences; 4. Psychology; 5. Theatre; 6. T-lab

Allison Zumberge<sup>2</sup>, Jennifer Lynn Bruno<sup>1</sup>, Frank Manis<sup>1,2</sup>, Zhong-lin Lu<sup>1,2,3</sup> & Jason Goldman<sup>1</sup>: “fMRI Activation Patterns Predict Reading Ability in Adults With and Without Developmental Dyslexia” 1. Psychology; 2. Neuroscience Graduate Program; 3. Laboratory of Brain Processes (LOBES)

W. Mao<sup>1</sup>, K. Miyagishima<sup>2</sup>, H. Moaven<sup>1</sup>, A. Sampath<sup>2</sup>, & J. Chen<sup>3</sup>: “Distinct Isoforms of Transducin-Alpha Subunits Contribute to the Different Light Sensitivities in Rods and Cones” 1. Zilkha Neurogenic Institute, Dept. of Neuroscience, KSoM; 2. Zilkha Neurogenic Institute, Dept. of Physiology & Biophysics, KSoM; 3. Zilkha Neurogenic Institute, Dept. of Cell & Neurobiology, KSoM

Susmita Chatterjee<sup>1,4</sup>, David Merwine<sup>2</sup> & Norberto Grzywacz<sup>1,3,4</sup>: “Low Contrast Synchrony in Retinal Ganglion Cells” 1. Biomedical Engineering; 2. Univ. of Pittsburg, Bradford; 3. Neuroscience Graduate Program; 4. Center for Vision Science and Technology

Eun-Jin Lee<sup>1,3</sup>, Gerald Sun<sup>4</sup>, Biju Thomas<sup>5</sup>, Aditi Ray<sup>1</sup>, James Weiland<sup>1</sup> & Norberto Grzywacz<sup>1,2,3</sup>: “Expression of Melanopsin-Containing Ganglion Cells in Degenerative Retina” 1. Biomedical Engineering; 2. Neuroscience Graduate Program; 3. Center for Vision Science and Technology; 4. Biology; 5. Doheny Eye Institute

Anirvan S. Nandy<sup>1</sup> & Bosco S. Tjan<sup>1,2,3</sup>: “The Origin of Visual Crowding Zones” 1. Psychology; 2. Neuroscience Graduate Program; 3. T-lab

Chaithanya Ramachandra<sup>2</sup> & Bartlett Mel<sup>1,2</sup>: “Divisive Normalization for Cue Combination” 1. Neuroscience Graduate Program; 2. Biomedical Engineering

Corina Shtir<sup>2,7</sup>, Heather Volk<sup>2,7</sup>, Paul Marjoram<sup>2</sup>, Tim Triche<sup>3,5,6</sup>, David Hinton<sup>1,3,4</sup> & Rohit Varma<sup>1,2,7</sup>: “Identification of Novel Genes for Early Age-Related Macular Degeneration: Genome-Wide Association Results from the Los Angeles Latino Eye Study” 1. Dept. of Ophthalmology, KSoM; 2. Dept. of Preventive Medicine, KSoM; 3. Dept. of Pathology, KSoM; 4. Dept. of Neurosurgery, KSoM; 5. Dept. of Cancer Biology, KSoM; 6. Dept. of Pediatrics, KSoM; 7. Doheny Eye Institute, KSoM

Jiajuan Liu<sup>2</sup>, Zhong-lin Lu<sup>1,2</sup> & Barbara Doshier<sup>3</sup>: “Augmented Hebbian Learning Hypothesis in Perceptual Learning: Interaction Between Feedback and Training Accuracy” 1. Psychology; 2. Neuroscience Graduate Program; 3. Univ. of California, Irvine; 4. Laboratory of Brain Processes (LOBES)

Xin Wang<sup>1</sup>, Judith A. Hirsch<sup>1</sup>, & Friedrich T. Sommer<sup>2</sup>: “Identification of Retinal and Extraretinal Contributions to the LGN by a Phenomenological Model of Retinogeniculate Transformation” 1. Neuroscience Graduate Program; 2. Univ. of California, Berkeley

Pinglei Bao<sup>1</sup>, Xiaomin Yue<sup>4</sup>, & Bosco S. Tjan<sup>1,2,3</sup>: “BOLD Signal Response Functions for Object and Face Processing in Noise” 1. Neuroscience Graduate Program; 2. Psychology; 3. T-lab; 4. NMR Athinoula A. Martinos Center, Massachusetts General Hospital, Harvard Medical School

Jun Kwan Lee<sup>1</sup> & Norberto M. Grzywacz<sup>1,2,3</sup>: “Failure of Decomposition and Expansion/Rotation in Optic-Flow Perception” 1. Biomedical Engineering; 2. Neuroscience Graduate Program; 3. Center for Vision Science and Technology

L.H. Chan<sup>1</sup>, E.J. Lee<sup>1,2</sup>, A. Ray<sup>1</sup>, A. M. Humayun<sup>1</sup>, & J. Weiland<sup>1</sup>: “Correlation of Morphological and Electrophysiological Changes in Degenerate Retina” 1. Biomedical Engineering; 2. Center for Vision Science and Technology

Glenn R. Fox<sup>1,2</sup> & Bosco S. Tjan<sup>1,3,4</sup> “High Resolution Retinotopy: What is Gained by Reducing Voxel Size?” 1. Neuroscience Graduate Program; 2. Brain and Creativity Institute; 3. Psychology; 4. T-lab

Xiwu Cao<sup>1,4</sup>, David Merwine<sup>2</sup> & Norberto Grzywacz<sup>1,3,4</sup> “Asymmetric Responses of Retinal Ganglion Cells to Onset and Offset of Natural Images” 1. Biomedical Engineering; 2. Univ. of Pittsburg, Bradford; 3. Neuroscience Graduate Program; 4. Center for Vision Science and Technology

Joaquin Rapela<sup>1</sup>, Jon Touryan<sup>2</sup>, Gidon Felsen<sup>3</sup>, Jerry M. Mendel<sup>1</sup>, & Norberto M. Grzywacz<sup>4,5,6</sup>: “What do Complex Cells Look for in Natural Scenes: Results from a Novel Algorithm for the Estimation of Excitatory and Inhibitory Relevant Dimensions from Natural Data” 1. Electrical Engineering; 2. Yale; 3. Cold Spring Harbor Laboratories; 4. Biomedical Engineering; 5. Neuroscience Graduate Program; 6. Center for Vision Science and Technology