

# Research

## Illuminating How the Brain Works—With the Help of BU Neurophotonics

November 29, 2017 | 4-6 PM

### Introductions:

Gloria Waters

Vice President and Associate Provost for Research

David Boas

Director of Neurophotonics Center and Professor, Biomedical Engineering and Electrical & Computer Engineering, ENG

### Research Presentations:

- **Seeing More with Microscopy**  
*Jerome Mertz, Professor, Biomedical Engineering, ENG*
- **In vivo Imaging of the Diseased Nervous System**  
*Alberto Cruz-Martín, Assistant Professor, Biology, CAS*
- **Dissecting Long-Range Cortical Networks During Behavior**  
*Jerry Chen, Assistant Professor, Biology, CAS*
- **Novel Laser Sources for Nerve Stimulation**  
*Michelle Sander, Assistant Professor, Electrical & Computer Engineering, ENG*
- **Neural Circuits for Social Behavior**  
*Ian Davison, Assistant Professor, Biology, CAS*
- **Conversing with the Nervous System: Tools and Findings**  
*John White, Professor and Chair, Biomedical Engineering, ENG*
- **Worms Under Duress: Imaging Small Neuronal Circuits in *C. elegans***  
*Christopher Gabel, Assistant Professor, Physiology & Biophysics, MED*
- **Multi-dimensional Neuroretinal Optical Imaging for Humans and Small Animals**  
*Ji Yi, Assistant Professor, Medicine, MED*
- **Artificially Activating Memories to Prevent the Return of Fear**  
*Steve Ramirez, Assistant Professor, Psychological & Brain Sciences, CAS*
- **Investigating the Neural Basis of Learned Temporal Relationships**  
*Jeffrey Gavornik, Assistant Professor, Biology, CAS*

- **Birefringence Imaging of Neuronal Activity and Myelin Degeneration**  
*Irving Bigio, Professor, Biomedical Engineering and Electrical & Computer Engineering, ENG*
- **fNIRS at BU**  
*Meryem Ayşe Yücel, Research Assistant Professor, Biomedical Engineering, ENG*
- **Optics and Photonics for BRAIN Science: BRAIN Initiative Funding Priorities**  
*Edmund "Ned" Tally, Program Director, National Institute of Neurological Disorders and Stroke (NINDS), NIH*

*Thank you for your participation*



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