



**Boston University** Office of Research

# Research on Tap Light as Medicine

Wednesday, November 20, 2019 | 4-6 PM | Barristers Hall

## WELCOME

Gloria Waters

Vice President and Associate Provost for Research

Ji-Xin Cheng

Professor, Biomedical Engineering and Electrical & Computer Engineering

## PRESENTATIONS

Interferometric Reflectance Imaging – From Molecular Kinetics to Digital Molecular Detection  
Selim Ünlü, PhD, Professor, Electrical & Computer Engineering, ENG

High Precision Photoacoustic Brain Stimulation  
Chen Yang, PhD, Associate Professor, Electrical & Computer Engineering, ENG

Birefringence Microscopy: Imaging Neuropathies and Anisotropic Tissues  
Irving Bigio, PhD, Professor, Biomedical Engineering and Electrical & Computer Engineering, ENG

Recovery of Brain Function Following Stroke  
David Boas, PhD, Professor, Biomedical Engineering, ENG; Director, Neurophotonics Center

Semiconductor Nanocrystals for Biomedical Imaging and Biosensing  
Allison Dennis, PhD, Assistant Professor, Biomedical Engineering, ENG

Multimodal Analysis of Biological Neural Networks Across Scales  
Xue Han, PhD, Associate Professor, Biomedical Engineering, ENG

Diffuse Optics for Precision Cancer Imaging  
Darren Roblyer, PhD, Associate Professor, Biomedical Engineering, ENG

Photothermal Light Interactions for Nerve Inhibition and Tissue Characterization  
Michelle Sander, PhD, Assistant Professor, Electrical & Computer Engineering, ENG

Computational Biophotonics: Integrating Optics and Algorithms for Biomedical Imaging  
Lei Tian, PhD, Assistant Professor, Electrical & Computer Engineering, ENG

Microvascular Functions by Volumetric Optical Imaging  
Ji Yi, PhD, Assistant Professor, Medicine, MED

# Upcoming Events

## RESEARCH ON TAP

### Accelerating the Energy Transition

Wednesday, December 4, 2019 | 4-6 pm

Kilachand Center, Eichenbaum Colloquium Room  
610 Commonwealth Avenue

As the effects of climate change increase in frequency and severity, the need to curb greenhouse gas emissions is more pressing than ever. Globally, the fossil-fuel dependent energy sector is the top source of emissions.

Join us as BU researchers explore solutions and challenges for accelerating our energy future, including electric vehicle infrastructure, emerging technologies, just transitions to clean energy, sustainable water management, and the relationship between technological innovation and environmental regulation.

**Learn more and RSVP:**

[bu.edu/research/events](https://bu.edu/research/events)



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