

**F. Joseph Halcomb III, MD Department of Biomedical Engineering  
Spring 2021 Seminar Series**

**Wednesdays at 3:00 PM unless otherwise stated<sup>1</sup>  
Robotics and Manufacturing Building, Room 323**

- Feb 3 Sridhar Sunderam: "*Seminar curriculum, expectations, and responsibilities for grad students*"
- Feb 10 Karthik Vishwanath, University of Miami-Ohio:  
"*Optical spectroscopy of turbid, scattering media: an overview of diffuse optical sensing*"
- Feb 17 Raja Krishnan, Office of Technology Commercialization, UK:  
"*Startup and commercialization opportunities for BME students.*"
- Feb 24 Tommy Roussel, Department of Bioengineering, University of Louisville:  
"*Rockin' Rehab: Monitoring improvement in trunk control enabled by locomotor therapy for pediatric SCI*"
- Mar 3 Kate Montgomery, EnSpectra Health, Inc.:  
"*Nonlinear pathways: research to commercialization of biomedical technologies*"
- Mar 10 Catalina Velez-Ortega, Department of Physiology, UK:  
"*Activity-dependent remodeling of the cytoskeleton in auditory mechanotransduction organelles*"
- Mar 17 Dillon Huffman, PhD<sup>2</sup>: "*Non-invasive tremor characterization in rats using piezoelectric sensors*"  
Xuhui Liu, PhD<sup>2</sup>: "*A wearable fiber-free optical sensor for continuous monitoring of cerebral blood flow in freely moving mice*"
- Mar 24 Chase Haddix, PhD<sup>2</sup>: "*The neural representation of finger extension in chronic stroke*"  
Harshini Sureshkumar, PhD<sup>2</sup>: "*Magnetic nanocarrier-induced immunomodulation for fracture healing*"
- Mar 31 Ramnarayan Ramachandran, Hearing and Speech Sciences, Vanderbilt University:  
"*Auditory perception, neural correlates, and noise induced hearing loss*"
- Apr 7 *CCTS Virtual Spring Conference* (all BME grad students attend)
- Apr 14 Lauren Bell, MS<sup>2</sup>: "*An electrochemical sensor for in-situ application*"  
Erik Davis, MS<sup>2</sup>: "*Probing the Connections between Micro-Vasculature of Bone and its Mechanical Integrity and Pathology*"
- Apr 21 Justin Pol, PhD<sup>2</sup>: "*Lumbopelvic coordination of subjects with and without chronic hip pain*"  
Mehrana Mohtasebi, PhD<sup>2</sup>: "*Mapping brain functional connectivity using speckle contrast diffuse correlation tomography*"
- Apr 28 Zhongchao Yi, PhD<sup>2</sup>: "*The effect of ROS production of Iron oxide nanoparticles for cancer therapy*"  
Jun Wang, PhD<sup>2</sup>: "*Effect of sleep enhancement on Alzheimer's pathology in a transgenic mouse model*"
- May 5 No seminar scheduled

**Notes:**

1. Special seminars may have a different location, day, or time than those on the regular schedule.
2. Current BME graduate student

Seminars delivered via Zoom can be accessed by registering in advance through the following link:

<https://uky.zoom.us/meeting/register/tZAqceCgrzkoGdVGoXnR0iqUKCjATO3nj2Rp>

After registering, you will receive a confirmation email containing information about joining the meeting.