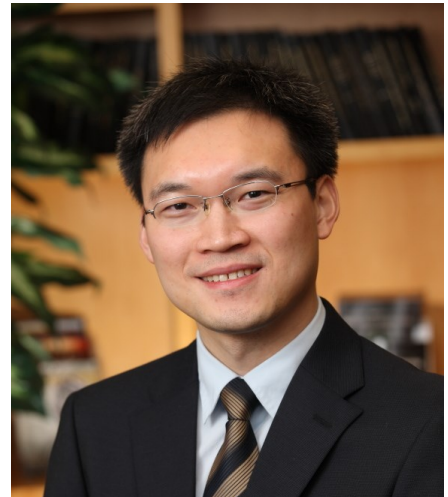




## **Photoacoustic Microscopy: Auscultating Cancer and Ischemia with Endogenous Biomarkers**

**Dr. Song Hu, Ph.D.**  
**Assistant Professor**  
**Department of Biomedical Engineering**  
**Cardiovascular Research Center**  
**University of Virginia**

**Friday, October 4th, 2013**  
**LECTURE: 9:00 AM - 10:00 AM**  
**ENGINEERING CENTER**  
**ROOM EC 1112**  
**10555 WEST FLAGLER STREET**  
**MIAMI, FL 33174**



### **Abstract:**

Photoacoustic microscopy combines optics and ultrasound for label-free, high-resolution, and multi-parametric interrogation of anatomical, functional, and metabolic disease biomarkers at multiple temporal scales ranging from fast hemodynamics to chronic developmental or aging processes. In this talk, Dr. Song Hu will present their recent progress on four-dimensional (time and three-dimensional space) monitoring of tumor responses to chemotherapy and on decrypting the hemodynamic signatures of ischemic tissue viability.

### **Biography:**

Dr. Song Hu received his B.S. and M.S. degrees in Electronic Engineering at Tsinghua University in 2002 and 2005, respectively. After receiving his Ph.D. in Biomedical Engineering at Washington University in St. Louis in 2010, Dr. Hu continued his postdoctoral research with Dr. Lihong Wang, extending his doctoral work to multi-parametric photoacoustic microscopy. Dr. Hu joined the Department of Biomedical Engineering at the University of Virginia as an assistant professor in May of 2013 and is a faculty member of the Robert M. Berne Cardiovascular Research Center.

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