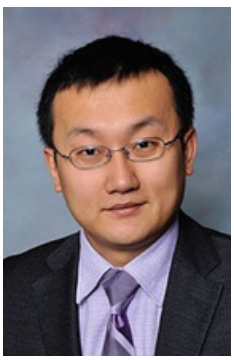
Integrated Imaging & Cyberphysical System Lab

The lab is developing new technologies to guide medical diagnoses and treatments. Intraoperative imaging, augmented reality, biophotonics, artificial intelligence, and translational research are focal points of the research program. Interdisciplinary approaches interfacing medical imaging, biophotonics, augmented reality, computer vision, edge computing, and medicine, are central to the lab's efforts to solve challenging clinical problems. The overall goal is to bring novel technologies and algorithms from the benchtop to the bedside of patients.

Who We Work With

- Air Force Research Laboratory
- Army Medicine
- Cleveland Clinic
- Congressionally Directed Medical Research Programs, Department of Defense
- National Aeronautics and Space Administration
- National Institutes of Health
- University of Iowa Hospitals and Clinics

Director: Yang Liu



- Associate Professor of Electrical and Computer Engineering, University of Iowa
- PhD: Biomedical Engineering, Washington University

IOWA Technology Institute

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RESEARCH FOCUS & HIGHLIGHTS

- **Augmented Reality & Intraoperative Optical Imaging**
- **Real-time Intraoperative Optical Imaging and Multimodal Surgical Navigation**
- **Deep Learning and Medical Computer Vision**
- **Wearable Thermal-Color Dual Modal Imaging System for COVID-19 Temperature Screening**
- **Translational Research**

LEARN MORE

SCHEDULE A VISIT

by contacting Yang Liu at **yang-liu-ece@uiowa.edu** or **319-467-0918**

CONNECT WITH US

on our website **sites.google.com/site/opticaldiagnosticslab**