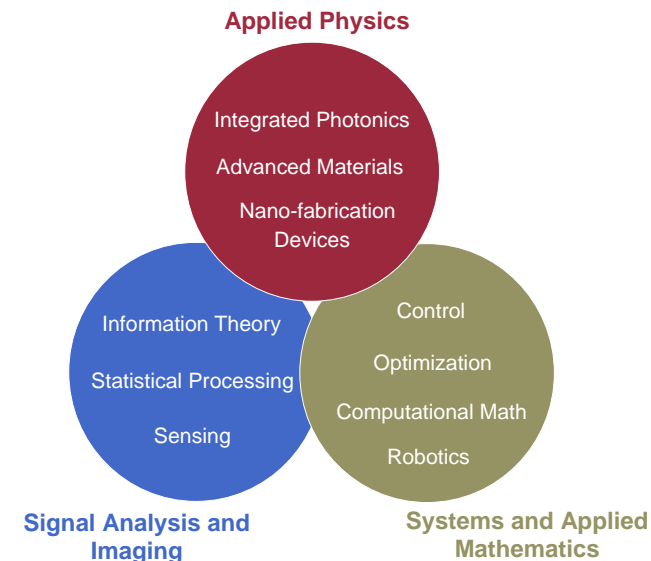


<http://www.eese.wustl.edu/Research/UndergradResearch.asp>

Advisor	Projects
R. Martin Arthur	Temperature Imaging Using Change in Backscattered Ultrasound Energy Body-surface and Inverse Electrocardiography for Assessing Risk of VT and Electrical Consequences of Diabetes
Jr-Shin Li	Feedback Control of Climate Dynamics Development of Control and Optimization Methods for NMR and MRI Systems
Arye Nehorai	MIMO Radar Using Acoustic Vector Sensors Microphone Amplifier for Photo-acoustic Infrared Gas Detector Classification of Smells Using New "Electronic Nose" Sensors Modeling 3D Distortion of a Fluorescence Microscope and CCD Imaging: Theory to Practice Design Assistive Technology for People with Cognitive Disabilities Automated Music Generation for Sight Reading
Youngin Oh	Real Time BPSK Modulation and Demodulation of Voice Signals Through the AD/DA Channels
William Pickard	Independent Learning Group on Sustainable Energy
Barry Spielman	Electromagnetic Analysis of Metamaterials
Lan Yang	A Novel Photonic Tool for Sensing Novel Photonic Structure to Enhance Solar Energy Conversion for Electricity and Hydrogen Production



Common applications: sensor networks, defense, security, medical imaging, genomics, proteomics, wireless communications, energy, environment.