DOCTORAL PROGRAM
BIOMEDICAL ENGINEERING
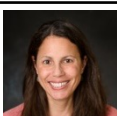
DEPARTMENT OF BIOMEDICAL ENGINEERING
RESEARCH LABORATORIES

RESEARCH AREAS

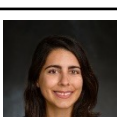| LABORATORY	PROFESSOR	RESEARCH	AI and deep learning	Biomechanics	Control systems	Device development	Engineering physiology	Imaging	Drug development/delivery	Tissue engineering	Neural engineering
Gan Laboratory	Dr. Yu Gan	Machine and deep learning techniques for biomedical image analysis	■					■			
Laboratory of Opthalmic Research Development (LORD)	Dr. Jennifer J. Kang-Mieler	Imaging, hemodynamics, electrophysiology and drug delivery for retinal diseases	■				■		■	■	■
Translational Lung Bioengineering Laboratory	Dr. Jinho Kim	Tissue engineering for repairing diseased or damaged lung tissue	■			■	■			■	
Laboratory for NeuroInnovation	Dr. George C. McConnell	Deep brain stimulation therapies for neural and psychiatric disease			■	■	■				■
MOvement COntrol REhabilitation Laboratory (MOCORE)	Dr. Raviraj Nataraj	Control systems for user integration with rehabilitative movement devices	■		■	■		■			■
Lung Microscopic Mechanics Laboratory	Dr. Carrie E. Perlman	Surface tension effects on injury during mechanical ventilation in lung disease	■				■	■		■	
Tissue Reconstruction Laboratory	Dr. Hongjun Wang	Tissue engineering, including 3D printing of bioscaffolds, and regenerative medicine								■	■
Biophotonic Imaging and Manipulation Laboratory	Dr. Shang Wang	Optical coherence tomography imaging of the female reproductive tract	■			■	■	■			
Yu Laboratory	Dr. Xiaojun Yu	Polymeric biomaterials development for tissue engineering and drug delivery							■	■	■
Musculoskeletal Control and Dynamics Laboratory	Dr. Antonia Zaferiou	Understanding and using sound feedback to improve movement mechanics	■	■		■					

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