

BIOMEDICAL ENGINEERING

RESEARCH AREAS

RESEARCH LABORATORIES

RESEARCH

AI and deep learning

Control systems

Device development

Engineering physiology

Imaging

Drug development/delivery

Tissue engineering

Neural engineering

Dr. Jennifer Kang-Mieler		Imaging, hemodynamics, electrophysiology and drug delivery for retinal diseases	Yellow					Red	Red	Light Blue	Blue	Dark Blue
Dr. Jinho Kim		Tissue engineering for repairing diseased or damaged lung tissue		Yellow		Orange		Red			Blue	
Dr. Simon Mahler		Optical laser imaging for monitoring blood flow dynamics in the brain and other tissues.	Yellow			Orange	Red	Red				Dark Blue
Dr. Raviraj Nataraj		Control systems for user integration with rehabilitative movement devices		Yellow	Orange	Orange		Red				Dark Blue
Dr. Carrie E. Perlman		Surface-tension-reducing therapeutic for ventilation injury in acute lung disease		Yellow			Red	Red	Light Blue			
Dr. William Querido		Infrared spectral imaging for elucidating bone health		Yellow				Red			Blue	
Dr. Ilke Uguz		Neural implants for brain-machine interfaces and neurodegenerative diseases				Orange	Red		Light Blue			Dark Blue
Dr. Hongjun Wang		Tissue engineering, including 3D printing of bioscaffolds, and regenerative medicine							Light Blue	Blue		
Dr. Shang Wang		Optical bioimaging for understanding mammalian reproduction and development	Yellow		Orange	Orange	Red					
Dr. Xiaojun Yu		Polymeric biomaterials for tissue engineering and drug delivery								Light Blue	Blue	Dark Blue
Dr. Antonia Zaferiou		Biomechanics of mobility and agility for design of human-centered movement training		Yellow	Orange	Orange						