



Biomedical Engineering Graduate Program Newsletter

School of Science and Engineering | Saint Louis University

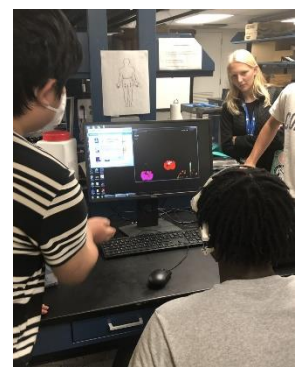
Welcome High School Students!

Welcome to the **high school students** who spent one week in July taking on a variety of engineering projects.

Pictured below, the students are working on a 'helping hand' prosthetics activity.



In Dr. Gai's lab, students are learning electroencephalography (EEG) signaling.



Recent Graduates

Congratulations to **Touba Taheri**, advisor Dr. Scott Sell, who successfully defended her master's thesis "Development of Functional Personalized Facemasks Using Electrospinning and 3D Printing" on Friday, July 22nd.

Grants Awarded

Yan Gai, Ph.D., was awarded a five-year National Science foundation grant (**Award Number (FAIN): 2217032**) in the amount of \$200,000, entitled "Collaborative Research: PPOSS: LARGE: Co-designing Hardware, Software, and Algorithms to Enable Extreme-Scale Machine Learning Systems." This is a collaboration with University of Virginia and University of Pittsburg on machine learning with Internet of Things. Saint Louis University will be one of the distributed terminals to test the enhancement of human hearing and vision using the large-scale artificial intelligence network.

Submitted Grant Proposals

"Development of Injectable Super-Lubricious Microgels for Sustained Release of Platelet-Rich Plasma to Treat Post-Traumatic Osteoarthritis", Parent R01, NIAMS/NIH, \$3,055,809, Dates: 04/01/2023 – 03/31/2028, 1.8 Calendar months; **PI - Silviya P Zustiak co-I - Scott Sell; collaborator - Gary Bledsoe**

2022 BME Seminar Series Cont.

Time: Wednesdays at 11 AM

Location: MDH Rm. 1016

Date	Speaker 1	Speaker 2
August 3	Jamshid Tadiwala (Dr. Bledsoe Lab)	Elena Castiaux (Dr. Sell Lab)