



Biomedical Engineering Graduate Program & Research Newsletter

School of Science and Engineering | Saint Louis University

Patents

Provisional patent: **S. P. Zustiak, A. Hall, K. Pereira**, “Fabrication of radiopaque resorbable hydrogel beads via microfluidics for catheter embolization applications”, U.S. Patent Application Serial No. 63/514,199, July 18, 2023

WashU Optical Lab Visit

Dr. Gai’s summer lab visited Dr. Lan Yang’s optical lab at Washington University in St. Louis on July 21, 2023. Attending students included **Qi Chen, Jakeh Orr, Eleanor McAuthur, Elizabeth Flad, and Sage Gatewood**.



Summer High School Interns

Welcome to **Ankita Pandurangi**, a Senior at Francis Howell North High School hosted by **Dr. Zustiak’s** lab this summer. She is aiding **Rebekah Boos** in analyzing and testing of degradation of nanocomposite gels.

She states that she “is interested in biomedical research because it is interesting that people can use this kind of technology to help people and to discover new concepts and techniques in a lab and determine how certain aspects in lab work together.” Be sure to say hello if you see her around this summer!



Welcome **Malak Kamil Qastoma** from Lafayette High School in Dr. Garg’s lab as well! She helped out with David Johnson’s project of implementing stem cells

with biomaterials for muscle trauma treatment.
Welcome!

New Graduate Students

Welcome to **Bradley Bromet Ph.D.**, who received his master's from Missouri S&T this year and will continue his research in **Dr. Zustiak's** lab in creating spheroid and organoid models to mimic natural human tissues. Be sure to give him a warm welcome if you see him!



Thank you for the collaboration opportunity, the department is looking forward to sharing and inspiring individuals with current research! Check out behind the scenes of bringing STEM booths to life at the Science Center!



Saint Louis Science Center Development Workshop

Thank you to **Dr. Sell, Dr. Case, Dr. Gorlewicz, Sam Stealey Ph.D., Michael Borovik.**, and accompanying faculty and graduate students who participated in the Science Communication Training Faculty Development Workshop hosted at the **Saint Louis Science Center** this Monday July 31st and Friday August 4th!

This workshop brainstormed how SLU's School of Science and Engineering research would be showcased to the public from the many different labs we have on campus, from concepts including hydrogels to biomedical technologies such as haptic devices to assist with touch!

Be on the lookout for possible presentation dates for our students and professors presenting their work at the **Saint Louis Science Center**.

Graduate student **Michael Borovik** will be presenting on behalf of **SLU CAM** at their **SciFest** on **Saturday, August 12th**, please feel free to attend if you are able!

