



Joseph Krebs

joseph.krebs@slu.edu

ADVISOR/MENTOR: Dr. Case
PROGRAM START: Summer 2018

BIOGRAPHY

Joseph is in the process of finishing his masters work under his primary investigator Dr. Natasha Case. His interests in nature, biology, and medicine – specifically surgery – as well as his proficiency in mathematics and passion for problem-solving have made the premed track in biomedical engineering a worthwhile commitment. In his free time, he enjoys exercising, travelling, camping, listening to music, reading and watching some of his favorite TV programs. His favorite thing to do is to make people laugh. He practices meditation daily and is extremely interested in the study of consciousness in psychology, neuroscience, and philosophy. With this diverse set of interests and motivations, he is eager to see where his passions carry him in the future, both professionally and otherwise. Regardless of where he lands, he is confident that he will be in a position to help and care for others, however that may be.

RESEARCH

Joseph's current research is in orthopedic bioengineering, aiming to develop a novel method for augmenting the efficiency of collagen deposition in lab-cultured cells. The achievement of this goal could be a step in the direction of a new, less invasive surgical treatment option for those suffering from degenerative diseases which effect musculoskeletal tissue. His experience in Dr. Case's lab has inspired a growing interest in degenerative diseases in general. He plans to continue his academic endeavors into medical school after receiving his master's degree in biomedical engineering. His favorite organ is the brain, which is why he presumes he will take a special interest in neurodegenerative diseases, including Alzheimer's and Parkinson's disease. He also hopes to have a lab of his own one day so that he may conduct groundbreaking research relating to these neurodegenerative disease states.



SAINT LOUIS UNIVERSITY
—
PARKS COLLEGE OF ENGINEERING,
AVIATION AND TECHNOLOGY

