

Lance Frazer, PhD

Dr. Frazer has over five years of experience in basic and applied research in computational mechanics, bone mechanics, osteoarthritis, and medical implant design and testing. As a recipient of the Self Graduate Fellowship at the University of Kansas, Dr. Frazer has several years of leadership, communication, and management training for projects both large and small, and both focused and highly interdisciplinary. He has worked closely with doctors to inform and propose novel surgical treatments, as well as better understand possible target patient populations. At SwRI, Dr. Frazer is working on developing and implementing high fidelity human body computational models for government and commercial clients, as well as providing engineering support in biomechanics related research topics.

Dr. Frazer defended his Ph.D. with honors at the University of Kansas in 2019 where he primarily investigated bone mechanics, bone pathologies, and novel surgical treatment strategies using finite element analysis. Earning a nomination for the University of Kansas' best STEM dissertation, Dr. Frazer's work has been highly disseminated among the medical community and has informed surgeons across the country on treating debilitating bone defects.