BME 580 Group Project

Jefferson Bercaw,

**Meetings**: 1/31/2023 at 9:45a, and 2/2/2023 at 9:45a

**Group Summary:** Jefferson is a first-year PhD student researching Injury Biomechanics in the Bass Lab. He works closely with a novel in-ear kinematic sensor that measures head impact exposure in a variety of scenarios. Our group comes from a diverse background of experiences and skills, which will enable us to succeed on this project.

**Project Ideas:** Our group discussed analyzing a wide array of data. Jefferson proposed analyzing kinematic data from an ongoing study analyzing the validity of two popular instrumented mouthguard (iMGs) in simulated football impacts in a cadaveric model. Data here comes in a variety of formats and would need to be transformed to the center of gravity of the head.

**Github Repository Link:** https://github.com/jefferson-bercaw/BME\_580\_Project.git