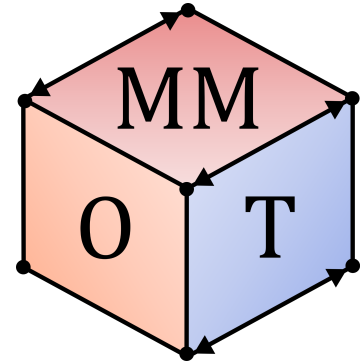


MMOT Lab Group Mission and Values

The Mechanics and Modeling of Orthopaedics Tissues (MMOT) Laboratory at Bucknell focuses on orthopaedic and musculoskeletal biomechanics and computational modeling projects by emphasizing the undergraduate student experience. The group is led by Prof. Ben Wheatley in the Department of Mechanical Engineering.



Our lab mission is to foster individual personal and professional growth through an interdisciplinary, inclusive, and group-oriented culture that performs rigorous, student-led biomechanics research.

We value:

- *Personal and professional growth.* We enable students and trainees to pursue their passions and develop technical skills, problem solving capabilities, and confidence in their trajectory. We embrace failure and iteration as part of the research and learning process. We believe our environment fosters broad personal and professional growth, enabling success after Bucknell.
- *Performing biomechanics research that is of high caliber.* We expect to externally disseminate biomechanics research at the forefront of our field that is founded in rigorous experimental and computational methods. We believe our work is of high quality and that external review of our research is a crucial step in our continued growth.
- *Initiative and grit.* All members of the group must develop project ownership. While we welcome students of all academic and technical ability levels, a willingness to take initiative, persevere through roadblocks, and exhibit curiosity towards research is key. We believe this approach leads to better project and personal growth outcomes.
- *Diversity in all its forms.* Our lab is rooted in interdisciplinarity, with students across colleges and departments at Bucknell. We must continually seek to develop and maintain diversity and an inclusive environment for all persons regardless of race, ethnicity, gender identity, ability, nationality, etc. We believe diversity is a key contributor to our problem solving, productivity, and capabilities, and strengthens our impact at and outside Bucknell.
- *Teamwork, collaboration, and group culture.* We are a group-oriented laboratory. It is expected that all members will support and contribute to the success of each other personally and professionally. Student peer-to-peer mentoring, external collaborations, and resource sharing are essential. We believe that developing and maintaining group culture based on the above values is key to individual and collective success.