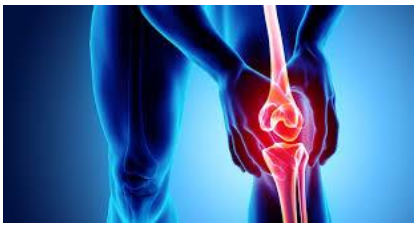
Biomechanics and Wearable Tech Lab

Asst. Prof. Arielle Fischer

Biomedical Engineering Department, Technion

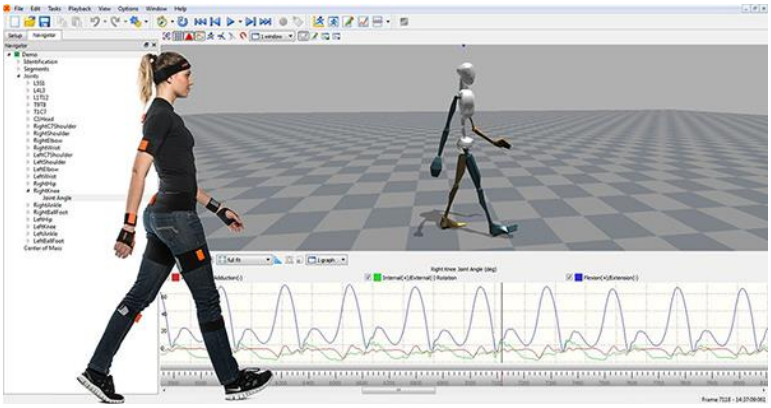
Lab website: fischerlab.net.technion.ac.il

Graduate Student Position (MSc/PhD)



Research Topics:

1) Biomechanics- Human motion analysis
2) Serum biomarker analysis
3) Biomedical Imaging
4) Robotics
5) Wearable technology
6) Subject recruitment and testing (athletes/military/muscle-skeletal injuries).



Our team is developing and applying biomechanics, robotics, biomedical imaging, and machine learning to study how humans move to achieve athletic performance, recover from injuries, and improve health and wellbeing. For example, we develop work in collaboration with Rambam and Loewenstein hospitals and Wingate to treat orthopedic disorders and improve rehabilitation after injury.

We are searching for outstanding individuals to join our team and develop new methods to track and analyze human movement. Our interdisciplinary approach will leverage novel data sources, such as real-world wearable sensors, advanced biomedical imaging, and state-of-the-art stimulation devices.

Candidates must have:

- BSc in engineering, computer science, neuroscience, biology or related fields
- Strong research skills

Experience in the following areas is an advantage; biomechanics, exercise physiology, control of movement, multi-scale modeling, wearable sensors, musculoskeletal modeling, biomedical imaging, computer vision, reinforcement learning, machine learning, computer animation, physics-based simulation, robotics and controls, biomarker analysis (blood sample ELISA testing)

To Apply, please submit:

1. Qualifications, relevant experience, research interests
2. CV
3. Grades (in relevant courses)

Send to: ariellef@technion.ac.il