

BIOMOTION Research Laboratory

Director:

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DPT Student Members:

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The Biomotion Research Laboratory is located in Robinson Hall within the Department of Physical Therapy at Northeastern University. The mission of the lab is to investigate neuromuscular and biomechanical mechanisms of upper quarter disorders, the impact of treatment and associated outcomes in the general population, overhead athletes, and laborers. The lab pursues collaborative research in the fields of biomedical engineering, orthopedics, sports medicine, motor control and human movement science.

Research Equipment

- Rehabilitative Ultrasound Imaging unit: GE LogiQ e portable diagnostic ultrasound unit with 12L-RS linear array transducer
- Kinematics system: Ascension electromagnetic motion analysis unit, six degrees of freedom 8-channel system.
- Kinesiological Electromyography (EMG) System: Noraxon 8 channel unit
- Motion Monitor System: records, synchronizes and analyzes kinematic & EMG data
- Data reduction and analysis software: Matlab, SPSS, SAS
- Force Transducer: Hand Held Dynamometer

