Post-Doctoral Position in Imaging and Biomechanics of Muscle Aging

The Center for Biomedical Imaging (CBI) at New York University (NYU) Langone Medical Center is seeking one (potentially two) motivated post-doctoral researcher(s) to join our interdisciplinary team. This position offers a unique opportunity for individuals with backgrounds in biomedical imaging, biomechanics, biomedical physics, bioengineering, and electrical engineering to contribute to cutting-edge research.

**Project:** Join our highly interdisciplinary project that combines advanced MRI methods with biomechanical modeling to improve muscle health across the lifespan. As a post-doctoral researcher, you will primarily focus on the development, testing, and validation of fast quantitative musculoskeletal MRI methods and/or the acquisition and analysis of biomechanics data, to improve our understanding of skeletal muscle aging.

**NYU Radiology:** You will be based at the NYU Department of Radiology, located in the heart of Manhattan. Our state-of-the-art facilities include a 7T MR scanner, two 3T whole-body MR scanners, a 3T MR-PET scanner, and a fully equipped radiofrequency engineering laboratory. You will be part of the Center for Advanced Imaging Innovation and Research (CAI²R, http://cai2r.net/), a collaborative hub focused on developing novel imaging methods, reconstruction strategies, RF detectors and transmitters, and quantitative biomarkers. You will also have access to the Human Performance Laboratory, equipped with isokinetic dynamometers and motion capture systems. We strongly encourage collaboration across research groups within CBI, fostering an environment of creativity and breakthrough innovations at the forefront of biomedical research.

The postdoctoral fellows will have ample opportunities to establish a diverse interdisciplinary scientific network. This position offers professional development prospects, including mentoring graduate and undergraduate students, grant writing, and presenting research findings at international scientific meetings. As a postdoctoral fellow, you will have the autonomy to engage in independent research within the context of the study.

**Qualifications:** We are seeking self-driven, creative, and collaborative scientists who are passionate about acquiring new skills and conducting interdisciplinary research. The ideal candidates hold a Ph.D. or M.D./Ph.D. degree with a background in biomedical engineering, biomedical physics, mechanical engineering, or related fields. Desirable but not required skills include experience in deep learning, exercise physiology, MRI pulse sequence programming, or musculoskeletal imaging.

**Salary/Benefits:** This position offers a two-year or longer contract, contingent on performance. The salary will be commensurate with experience. Full benefits will be provided.

**To Apply:** We welcome informal inquiries, and prompt responses will be provided. For the complete application, please email a cover letter, CV, and a list of publications to Dr. Valentina Mazzoli (Assistant Professor of Radiology) at vmazzoli2@gmail.com.