
**This Is To Certify That
Mohammadreza Rezaie
Has Successfully Completed
C-STAR Course: Machine Learning and Sensors to Enhance Rehabilitation Research
May 17, 2023**

Course Description: Over recent years, there has been an explosion of interest in wearable sensors, video, and computer vision for healthcare and patient monitoring. Many commercial and research-grade wearables can now capture continuous, high-resolution measurements about vital signs, activity, sleep, biomechanical metrics, and even physiological signals such as from the muscles or brain. However, translating this complex data into meaningful clinical information poses many substantial challenges. Machine learning is a powerful tool to address some of these challenges. In machine learning, computers themselves are learning from data and create models to make predictions about that data. In this introductory course, we will take a practical approach to understand how machine learning and sensors can be applied in the rehabilitation field, pitfalls to avoid, how to get started, and how these tools can create reliable digital biomarkers.

Course Faculty: Arun Jayaraman PT, Ph.D., Joy Ku Ph.D., Eric Perreault Ph.D., Matt Petucci Ph.D., Paolo Bonato Ph.D., Scott Delp Ph.D., Jennifer Hicks Ph.D., Konrad Kording Ph.D., Richard L Lieber Ph.D., Megan K. O'Brien Ph.D., Aiden Arnold Ph.D., Joseph Hitt Ph.D., Hulya Emir-Farinas Ph.D., Steve Xu, MD, MSc

Physical Therapists:

This course has been approved by the Illinois Physical Therapy Board 6.0 Contact Hours. Approval #216-000069

The Shirley Ryan AbilityLab is recognized by the New York State Education Department's State Board for Physical Therapy as an approved provider of physical therapy and physical therapist assistant continuing education. This course has been approved for 6.0 Contact Hours

Physicians:



The Rehabilitation Institute of Chicago DBA Shirley Ryan AbilityLab is accredited by the Illinois State Medical Society (ISMS) to provide continuing medical education for physicians.

The Rehabilitation Institute of Chicago DBA Shirley Ryan AbilityLab designates this live activity for a maximum of 6.25 *AMA PRA Category 1 Credit(s)*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.


Melissa Kolski, PT, OCS


Benjamin Friedman, MD