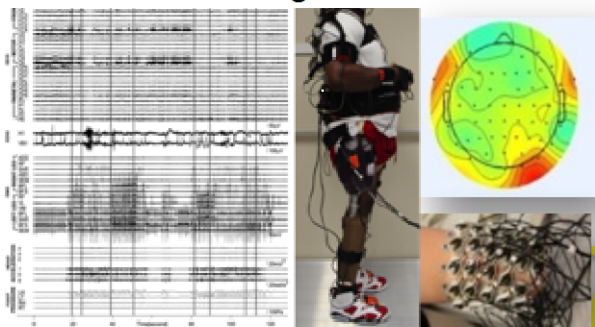


Neural-machine interfaces

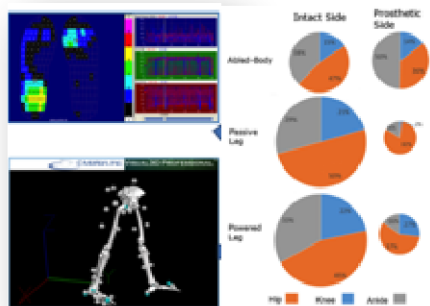
Efficient neural information transfer
between man and machine

User intent recognition



Biomechanics

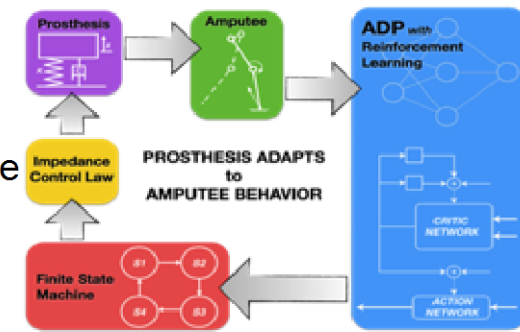
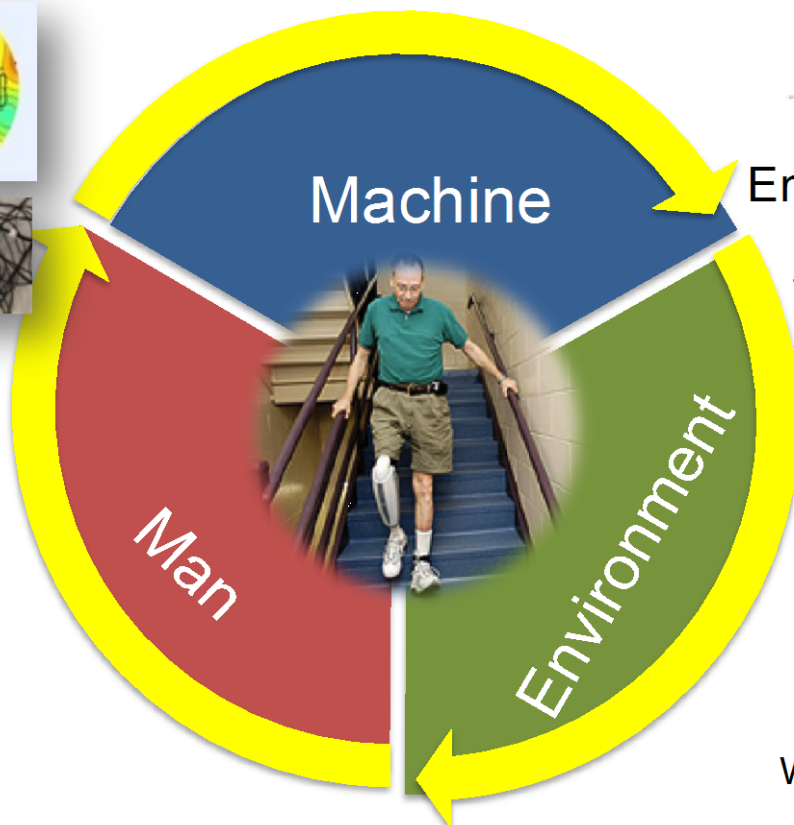
Energy transfer among man,
machine, and environment



Man-machine Interactions

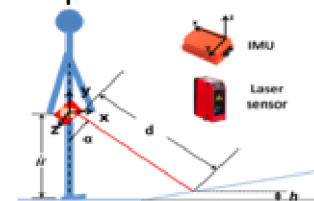
Man-Machine co-adaptation

Optimal and adaptive control of wearable
robots (prosthetics and orthotics)



Environment-aware robotic
prosthetics and orthotics

Terrain Recognition, wearable
sensors, smart prostheses



Research-technology
translation

Patent application

Working with patients, clinicians,
and industrial partners

Neuromuscular Rehabilitation Engineering Laboratory PI: He (Helen) Huang

Research goal: Improve quality of life of individuals with physical
disabilities

Education goals: Train next-generation leaders in Rehabilitation
Engineering and promote STEM to underrepresented groups

