GOAL:

sEMG-based fatigue estimation for exoskeleton control

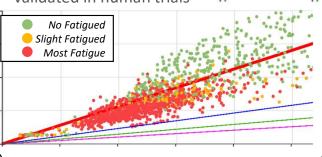
Target Muscles: Flexor digitorum superficialis, Extensor digitorum



Prior Work:

Novel fatigue estimation algorithm developed and validated in human trials

 $V = W \cdot H$ $||V - W \cdot H||$



Pending Steps:

- Design and fabricate a robotic testbed for control validation
- Develop sEMG-based control modes for hand grasp assistance
- Instrument and control with sEMG

e.g. NASA Spacesuit RoboGlove exoskeleton, not EMG controlled

