PIZZA WITH THE PROFS

Wednesday, May 22, 2019
12:00 pm - 1:00 pm
Sunlife Town Hall
Grand River Hospital
Freeport Campus



DR. JAMES TUNG

SHOULD WE WORRY ABOUT AUTOMATION AND ARTIFICIAL INTELLIGENCE IN REHABILITATION? LESSONS FROM RESEARCH CONDUCTED AT THE UW NEURAL AND REHABILITATION ENGINEERING (NRE) LAB

DR. JAMES TUNG

The Neural and Rehabilitation Engineering Lab focuses on the advancement of human movement research methods and development of assistive technology for independent mobility and rehabilitation. With a scientific background in neuroscience, biomechanics, and rehabilitation, Dr. James Tung works closely with investigators and clinicians in human movement control, with an emphasis on ambulatory measurement to understand complex mobility patterns in real-world conditions. Drawing on technical knowledge in automation, robotics, and artificial intelligence (AI), Dr. Tung's technical contributions include developing novel measurement approaches related to human mobility, locomotion, and postural control. These contributions have led to innovations in neuromotor screening tools, robotic mobility aids, wearable sensor systems, and prosthetics design. Innovations are supported by knowledge translation activities through active collaboration with medical scientists, practitioners, and industry.

To attend RSVP via Eventbrite Questions? Please contact parisa.hamilton@uwaterloo.ca or sarah.laferriere@grhosp.on.ca

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ABSTRACT

With the age of Automation and Artificial Intelligence (AI) upon us, these powerful tools are actively being explored to advance rehabilitation care. In this talk, Dr. Tung introduces on-going research projects using automation and Al tools at the UW NRE Lab and examines the potential implications on the delivery and practice of rehabilitation care. In particular, anticipated benefits and pitfalls associated with these advances on the scope of practice will be discussed.