Lampe Joint Department of Biomedical Engineering

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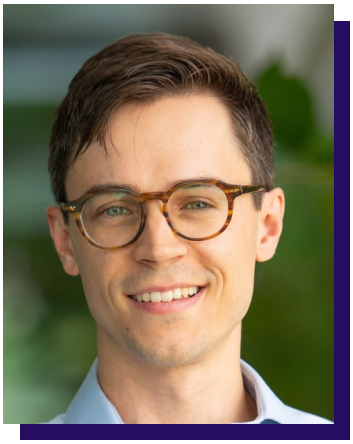
Coulter Seminar Series Presents

Rehabilitation Engineering

Towards Personalizing Assistive Technology in the Real World

Patrick Slade Ph.D.
Assistant Professor
Bioengineering
Harvard University



Patrick Slade is an Assistant Professor of Bioengineering at Harvard University. He received his bachelor's at University of Illinois at Urbana-Champaign and completed his M.Sc., Ph.D., and postdoctoral studies at Stanford University. He directs the Harvard Slade Lab that combines robotics, biomechanics, and human-centered AI to build intelligent health models and assistive devices. His work explores how to understand the biomechanics of mobility-related challenges and personalize technology to improve people's independence. His work focuses on solutions that are open-source and low-cost to make care accessible whenever possible.

ABSTRACT

Assistive technology offers promise to improve personal mobility for hundreds of millions of people. However, determining how to assist people to accommodate their unique needs across everyday mobility scenarios is an open challenge. Personalizing assistance to each user has helped meet these needs and systematically improve mobility outcomes in laboratory settings. To address these challenges, our group performs biomechanical studies to understand people's movement goals and needs, develops real-world personalization methods, and applies these findings to assist patient populations including people post-stroke, people with knee osteoarthritis, and people with blindness.

CLEAR Core
Closed Loop Engineering for Advanced Rehabilitation
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Presented from: MacNider Hall, Room 321 —UNC
Video conferenced to
EB3, Room 4142 (NCSU)