

# Global Perspectives on Medicine, Rehabilitation and Robotics Webinar Series

September 20<sup>th</sup>, 2023, 5pm-6:00pm CAT, 10am-11:00am EST

## Robotic hand orthoses for assistance and rehabilitation after stroke



Co-sponsored by  
TC-Rehabilitation and  
Assistive Robotics

**Ava Chen, MS, PhD student, Department of Mechanical Engineering, Columbia University.**

**Jingxi Xu, MS, PhD student, Department of Computer Science, Columbia University.**

**Lauren Winterbottom, MS, OTR/L, Research Occupational Therapist and Instructor, Department of Rehabilitation and Regenerative Medicine, Columbia University.**



Ava Chen is a mechanical engineering doctoral student at Columbia University and is a member of the Robotic Manipulation and Mobility Lab. She researches hardware design of robotic exoskeletons to assist and rehabilitate hand dexterity after stroke, and human-robot coordination to control these devices.



Jingxi Xu is a third-year PhD student in Computer Science at Columbia University. He works at the intersection of machine learning and robotics, with various applications in assistive robots, navigation, manipulation, etc. He has published in many top robotics conferences such as ICRA, IROS, and CoRL.



Lauren Winterbottom is a licensed and registered occupational therapist and Certified Stroke Rehabilitation Specialist. She collaborates on a multidisciplinary research team to develop wearable robotic hand orthoses for individuals with stroke and spinal cord injury. She is an EdD candidate in Movement Science/ Occupational Therapy at Teachers College, Columbia University.

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