

# Ongoing Clinical Trials at UM Robotics

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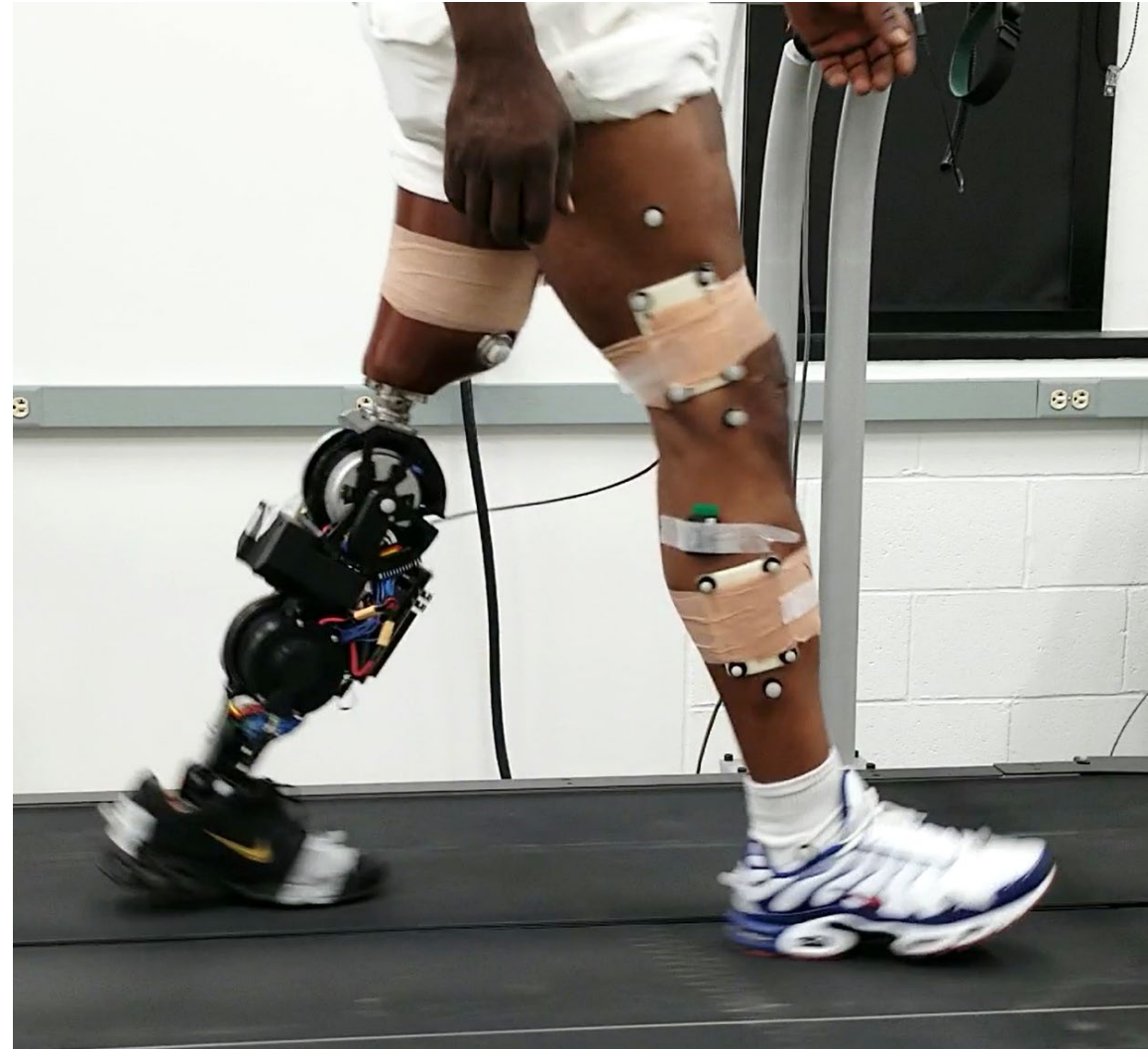
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# Robotic Legs for Above-Knee Limb Loss

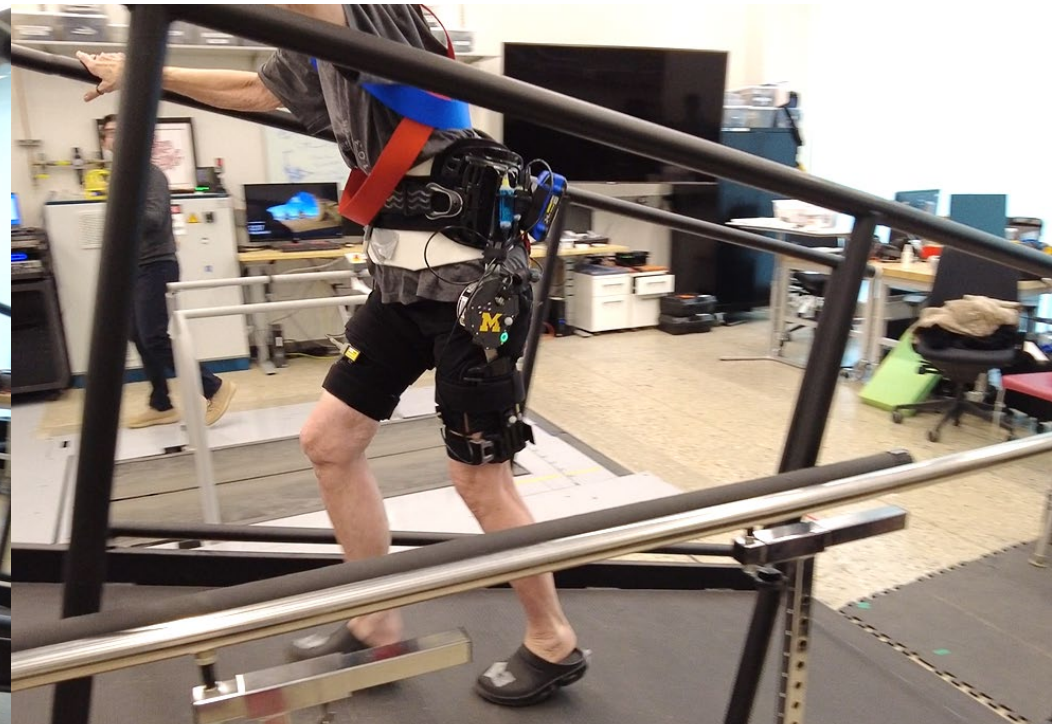
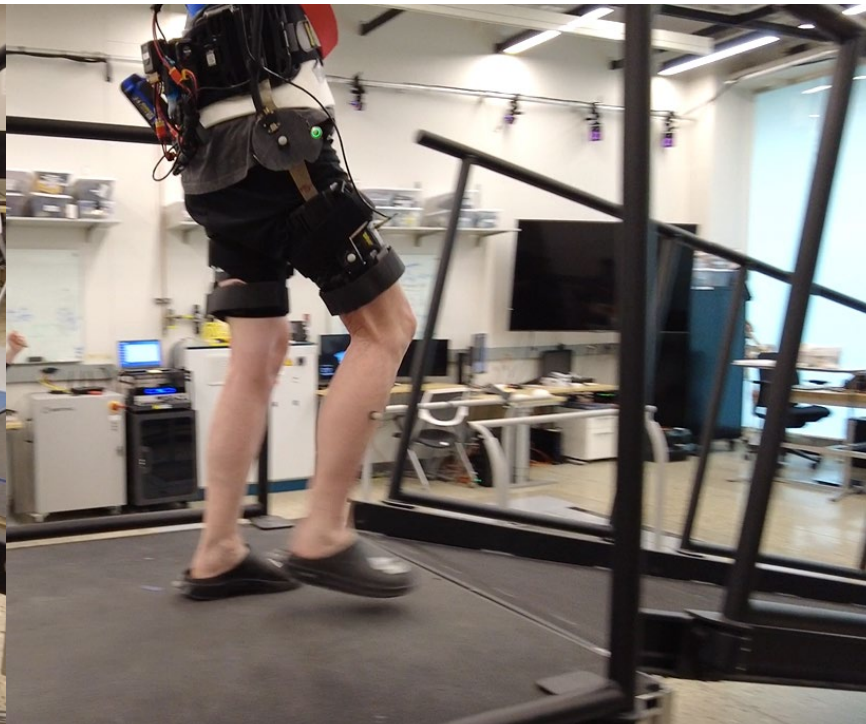
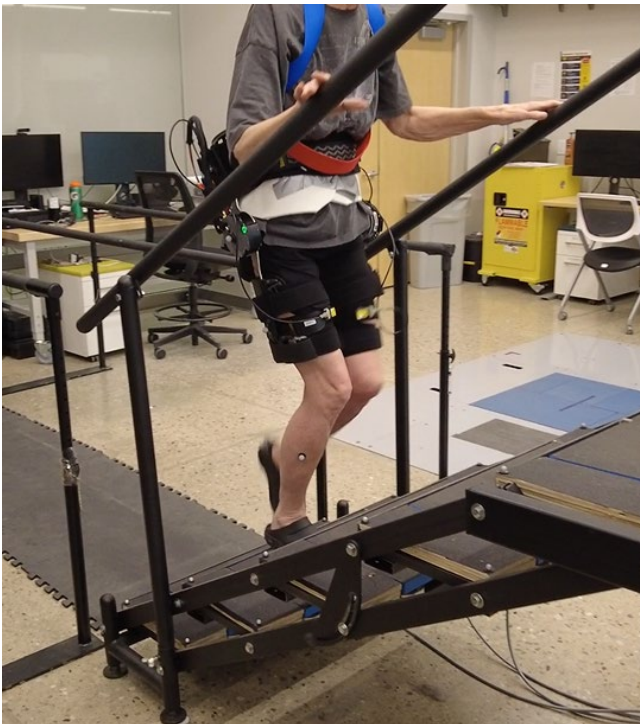


- Robotic prostheses can inject energy and actively contribute to gait
- Potential to improve gait symmetry and endurance, offload intact joints
- Recruiting individuals 18-70 years old with a single above-knee amputation who are prosthesis users



# Exoskeletons for Age-Related Mobility Limitations

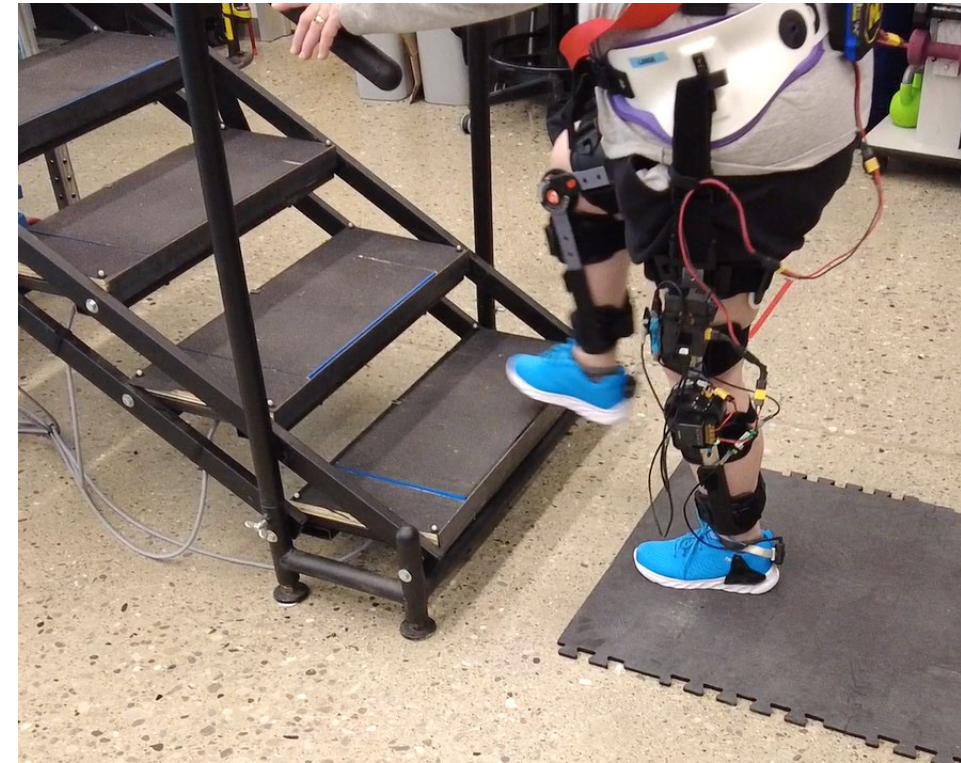
- Exoskeletons can augment weakness due to advanced age
- Potential to improve mobility and endurance
- Recruiting individuals 65 – 85 years old who have age-related reductions in mobility, e.g., difficulty climbing stairs.



# Exoskeletons for Osteoarthritis



- Exoskeletons can partially offload muscle contractions that cause painful compression of joint articular surfaces
- Potential for pain reduction and increased mobility
- Recruiting individuals 18-85 years old who have diagnosed knee or ankle osteoarthritis





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