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QUALIFICATIONS: Expert in biomechanics testing and analysis
Specialized in neuromuscular physiology
Over 5 years of experimental design experience
Strong background in Biomedical Engineering
Strong foundation in physiology and engineering

EDUCATION: Ph.D. Georgia Institute of Technology.....2016
BSBME..... The College of New Jersey.....2010

EXPERIENCE: 2016 – Present Forensic Engineer, Technology Associates
2010 – 2016 Graduate Assistant, Georgia Institute of Technology

PUBLICATIONS: Lee S. J., **Mehta-Desai R.**, Oh K., Sanford J., Prilutsky B. I. (2018). Effects of bilateral swing-away grab bars on the biomechanics of stand-to-sit and sit-to-stand toilet transfers. *Disability and Rehabilitation: Assistive Technology*, 1-9.

Mehta, R., Maas, H., Gregor, R. J., & Prilutsky, B. I. (2015). Unexpected fascicle length changes in denervated feline soleus muscle during stance phase of walking. *Scientific Reports*, 5.

Mehta, R., & Prilutsky, B. I. (2014). Task-dependent inhibition of slow-twitch soleus and excitation of fast-twitch gastrocnemius do not require high movement speed and velocity-dependent sensory feedback. *Frontiers in Physiology*, 5.

Mehta, R., Rohrs, E. L., Lipat, K. F., Reed, E. C., & Paliwal, M. (2010). An improved smart ankle foot orthosis design using dual fluid power cylinders. *Journal of Medical Devices*, 4(2).

PRESENTATIONS: Park H., **Mehta, R.**, DeWeerth, S. P., & Prilutsky, B. I. “*Modulation of sensory feedback from paw pad and quadriceps-sartorius afferents affects interlimb coordination and adaptation to split-belt treadmill locomotion in the cat.*” Society for Neuroscience Meeting, Chicago, IL. **2015.**

Mehta, R., et al. “*Effects of stretch-reflex removal by self-reinnervation of one-joint vastii and two-joint rectus femoris on hindlimb muscle activity and mechanics during walking in the cat.*” Society for Neuroscience Meeting, Washington, DC. **2014.**

Mehta, R. et al. “*Fascicle shortening in denervated feline soleus muscle during stance phase of walking.*” 7th World Congress of Biomechanics Conference, Boston, MA. **2014.**

Mehta, R. and Prilutsky, B. I. “*Coordination of Activity Between One-Joint, Slow Soleus and Two-Joint, Fast Gastrocnemius Muscles.*” Biomedical Engineering Society Conference, Atlanta, GA. **2012.**

Mehta, R., et al. “*An Improved Smart AFO Design Using Dual Fluid Power Cylinders.*” Design of Medical Devices Conference, Minneapolis, MN. **2010.**