



CURRICULUM VITÆ

MOHAMMAD SHOURIJEH

“Dr. Shourijeh is highly experienced in musculoskeletal and neuromusculoskeletal modeling, design of treatment for musculoskeletal injuries, gait analysis, rehabilitation, sports injuries, motion prediction, and ergonomics.”

Ph.D. Biomechanical Engineering

M.Sc. Biomechanical Engineering

B.Sc. Mechanical Engineering

1. BIOGRAPHY

Dr. Shourijeh is a member of the Injury Biomechanics group at LISKE Accident & Injury Experts and is highly experienced in musculoskeletal and neuromusculoskeletal modeling, design of treatment for musculoskeletal injuries using data-driven computer simulations, gait analysis, rehabilitation, sports injuries, motion prediction, and ergonomics. Additionally, Dr. Shourijeh has extensive experience in computational biomechanics and has developed numerous algorithms and models related to multibody dynamics and musculoskeletal modeling. Dr. Shourijeh is an adept user of OpenSim, AnyBody, MapleSim, and Adams software packages.

Dr. Shourijeh is a postdoctoral research associate in mechanical engineering at Rice University where he specializes in neuromusculoskeletal predictive modeling, treatment design, and machine learning. Prior to that, Dr. Shourijeh was a research associate in rehabilitation sciences at the University of Ottawa with a focus on musculoskeletal and neural modeling. Dr. Shourijeh received his Ph.D. in biomechanical engineering from the University of Waterloo specializing in biomechanics, musculoskeletal dynamic modeling, and optimal control. Dr. Shourijeh has mentored many students at the Ph.D. and master's levels.

Dr. Shourijeh is a published biomechanical expert and has authored/co-authored various peer-reviewed papers in distinguished and respected journals such as *Frontiers in Bioengineering and Biotechnology*, *Journal of Electromyography and Kinesiology*, *Medical Engineering & Physics*, *Frontiers in Computational Neuroscience*, *Gait & Posture*, *Journal of Biomechanical Engineering*, *Frontiers in Neurorobotics*, *Clinical Biomechanics*, *Journal of Biomechanics*, *Journal of Computational and Nonlinear Dynamics*, and more. Dr. Shourijeh has authored the book *Modeling and Dynamic Simulation of the Human Musculoskeletal system* and holds the US patent *Removable Cast Walker with Ankle Lock and Use Detection and Reporting Means.*

Dr. Shourijeh is a guest associate editor for the *Frontiers in Neurorobotics* and a manuscript reviewer for several journals including *IEEE Transactions on Biomedical Engineering*, *ASME Journal of Biomechanical Engineering*, *Journal of Computer Methods in Biomechanics and Biomedical Engineering*, *Scandinavian Journal of Medicine & Science in Sports*, *Journal of Applied Biomechanics*, and *Journal of Computer Methods in Biomechanics, Biomedical Engineering*, and more.

[Click here to request the full CV of Dr. Mohammad Shourijeh](#)