Do lower-extremity joint dynamics change when stair negotiation is initiated with a self-selected comfortable gait speed?

Srikant Vallabhajosula\textsuperscript{a}, Jennifer M. Yentes\textsuperscript{a}, Mira Momcilovic\textsuperscript{a}, Daniel J. Blanke\textsuperscript{a}, Nicholas Stergiou\textsuperscript{a,b}

\textsuperscript{a} Nebraska Biomechanics Core Facility, School of Health, Physical Education and Recreation, College of Education, University of Nebraska at Omaha, Omaha, NE, United States

\textsuperscript{b} College of Public Health, University of Nebraska Medical Center, Omaha, NE, United States

**Corresponding Author:**

Nicholas Stergiou, PhD

Nebraska Biomechanics Core Facility

School of Health, Physical Education and Recreation

University of Nebraska at Omaha

6001 Dodge Street, Omaha, NE 68182.

Phone: 402.554.3247, Fax: 402.554.3693

Email: nstergiou@unomaha.edu

**Acknowledgements**

This study was supported by the Nebraska Biomechanics Core Facility. SV and MM are supported by the Nebraska Research Initiative. NS and JY are supported by National Institute on Disability and Rehabilitation Research (Grant No. H133G080023), the Nebraska Research Initiative and the NIH (Grant No. HD 047194-01A1). The authors are grateful to Chi Wei Tan
and Ryan Hasenkamp of the Nebraska Biomechanics Core Facility for assistance with data processing.

Word Count: Total (Introduction to Conclusion) = 2999  
Abstract = 186