

Caelyn E. Hirschman, MS

E: Caelyn.Hirschman@colorado.edu

C: (720)-238-9453

EDUCATION

Ph.D., Integrative Physiology

University of Colorado Boulder, Boulder, CO

2021 – Current

M.S., Integrative Physiology

University of Colorado Boulder, Boulder, CO

2019 - 2021

B.S., Health and Exercise Science

Regis University, Denver, CO

2014 - 2018

GRADUATE RESEARCH EXPERIENCE

Graduate Student Researcher, Applied Biomechanics Lab

2019 – Current

Director: Dr. Alena Grabowski

University of Colorado Boulder, Boulder, CO

Postbaccalaureate Researcher, Biomechanics Lab

2018 – 2019

Director: Dr. Brian Baum

Regis University, Denver, CO

HONORS AND AWARDS

Best Master's Student Poster, Rocky Mountain ASB Conference

2021

PUBLICATIONS

Manuscripts in Progress (1)

1. Hirschman, C.E., Montgomery, J., Grabowski, A.M. The contribution of joint quasi stiffness to theoretical leg stiffness changes during level, uphill and downhill running. To be submitted to *Royal Society Interface*

CONFERENCE PRESENTATIONS

1. Hirschman, C.E., Grabowski, A.M. (2021, August). Effects of joint quasi-stiffness on leg stiffness when running uphill/downhill. Podium presented at the American Society of Biomechanics Conference, Virtual.
2. Hirschman, C.E., Zhang, J., Grabowski, A.M. (2021, August). Effects of real time visual feedback on metabolic cost and symmetry during walking in

people with a transtibial amputation. Poster presented at the American Society of Biomechanics Conference, Virtual.

3. Hirschman, C.E., Grabowski, A.M. (2021, August). Effects of ankle and knee joint quasi-stiffness on leg stiffness when running uphill/downhill. Podium presented at the Rocky Mountain American Society of Biomechanics Conference, Virtual.
4. Hirschman, C.E., Zhang, J., Grabowski, A.M. (2021, August). Effects of real time visual feedback on metabolic cost during walking in people with a transtibial amputation. Poster presented at the Rocky Mountain American Society of Biomechanics Conference, Virtual.
5. Hirschman, C.E., Grabowski, A.M. (2021, August). Joint quasi-stiffness and mechanical joint work changes when running uphill/downhill. Podium presented at the Rocky Mountain American Society of Biomechanics Conference, Virtual.

SERVICE

Member, Institutional Review Board

2019 -

SKILLS

Instrumented force treadmill, motion capture, EMG, indirect calorimetry, IMU's, Biodex, stiffness testing, machine shop, MATLAB, RStudio.

REFERENCES

Dr. Alena Grabowski, PHD

Phone:

Email: Alena.Grabowski@colorado.edu

Principle Investigator of the Applied Biomechanics Lab, University of Colorado Boulder

Dr. Brian Baum, PhD

Phone: (303) 964-6791

Email: bbaum@regis.edu

Regis University Professor/Research Mentor