Ryan Alcantara

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EDUCATION

2017-Pres M.Sc. in Integrative Physiology – University of Colorado Boulder

Advisor: Dr. Alena Grabowski – Applied Biomechanics Lab

2011-15 B.Sc. in Applied Human Biology, Kinesiology Minor – Seattle Pacific University

Advisor: Dr. Cara Wall-Scheffler

PROFESSIONAL EXPERIENCE

2018-Pres Graduate Research Assistant – University of Colorado Boulder

Funding Organization: NCAA PAC 12 Conference

2017-18 Graduate Teaching Assistant – University of Colorado Boulder

Human Anatomy Laboratory, Department of Integrative Physiology

2016-17 Biomechanics Research Technician – Brooks Running Company

Lab Director: Eric Rohr. Performed 3D motion capture data collections, developed custom

MATLAB scripts for data analysis, reported findings to Footwear R&D teams.

2015-16 Biomechanics Lab Intern – Brooks Running Company

Lab Director: Eric Rohr. Assisted with mechanical footwear testing, subject recruitment, and

data processing in Cortex and Visual 3D.

2015-16 Research Assistant – Seattle Pacific University

Principal Investigator: Dr. Cara Wall-Scheffler. Developed undergraduate research study,

performed subject recruitment, data collection, analysis, and prepared academic manuscript.

2014-15 Teaching Assistant – Seattle Pacific University

Introductory Physics I & II

HONORS & AWARDS

2019	IPHY Fellowship Travel Award (MSc), University of Colorado Boulder (\$600)
2018	Diversity Travel Award, American Society of Biomechanics (\$750)
2018	Best MSc Poster Presentation, American Society of Biomechanics – Rocky Mountain Meeting
	Mass added to running-specific prosthesis increases metabolic power during running (\$100)
2018	Graduate Student Travel Grant, University of Colorado Boulder
	Mass added to running-specific prosthesis increases metabolic power during running (\$300)
2017	Graduate Dean's Fellowship, University of Colorado Boulder (\$3,000)
2012	Oregon Latino Scholarship, Hispanic Metropolitan Chamber of Commerce (\$2,250)
2011-2015	President's Scholar Award, Seattle Pacific University (\$12,000/year)

PEER-REVIEWED PUBLICATIONS

Alcantara R., Trudeau M., Rohr E. (2018). Calcaneus range of motion underestimated by markers on running shoe heel. *Gait & Posture 63: 68-72*

Alcantara R. & Wall-Scheffler C. (2017). Stroller Running: Energetic and kinematic changes across pushing methods. *PLoS One* 12(7): e0180575.

CONFERENCE PRESENTATIONS

Alcantara R., Day E., Hahn M., Grabowski A. (2019). Sacral Accelerations Predict Whole Body Kinetics and Stride Kinematics During Running. *American Society of Biomechanics, Rocky Mountain Meeting.* (podium)

Alcantara R., Beck O., Grabowski A. (2018). Mass added to a running-specific prosthesis increases metabolic power during running. *American Society of Biomechanics, National Meeting.* (thematic)

Alcantara R., Beck O., Grabowski A. (2018). Mass added to a running-specific prosthesis increases metabolic power during running. *American Society of Biomechanics, Rocky Mountain Meeting.* (poster)

Alcantara R., Trudeau M., Brüggemann G., Hamill J., Rohr E. (2016) Running Shoe Forefoot Bending Stiffness Affects Calf Muscle EMG. American Society of Biomechanics, Northwest Meeting. (poster)

Alcantara R. & Wall-Scheffler C. (2016). Running With A Stroller: Kinematic and Energetic Changes Across Different Stroller Pushing Techniques. American College of Sports Medicine Annual Meeting. (poster)

Alcantara R. & Wall-Scheffler C. (2015). Push it, Push it Real Good: The energetic cost of running with a stroller. *Murdock College Science Research Program*. (poster)

Alcantara R. & Wall-Scheffler C. (2015). Push it, Push it Real Good: The energetic cost of running with a stroller. Seattle Pacific University Summer Research Symposium. (podium)

INVITED PRESENTATIONS

2019	Department of Integrative Physiology Colloquium – University of Colorado Boulder
2018	Guest Lecturer, Introductory Biomechanics – Colorado School of Mines
2018	Guest Speaker, Capstone Seminar – George Fox University
2016	Guest Speaker, Disciplinary Research and Writing Seminar – Seattle Pacific University

ACADEMIC SERVICE

2018	Co-Chair, PhD Competition Session – American Society of Biomechanics (ASB) National Meeting
2018	Co-Chair, Sports Session – ASB, Rocky Mountain Regional Meeting
2017 - 18	Member, ASB Student Advisory Committee for Biomechanics Advocacy
2016	Panel Speaker, Biology Cornerstone Seminar – Seattle Pacific University

COMMUNITY OUTREACH

2019	Organizer, National Biomechanics Day at Silver Creek HS, Longmont, CO
2018	Organizer, University of Colorado Boulder National Biomechanics Day

SPECIALIZED SKILLS

Programming Tools MATLAB, R, Python, Github Version Control, Tableau, LaTeX

Laboratory Equipment Motion Analysis Cortex, Vicon Nexus 2.x, Visual 3D, Novel Pedar, Instron

Material Testing, Delsys & Noraxon EMG, IMeasureU, Treadmetrix, Bertec,

Parvo Medics, Oxycon Mobile

MEDIA

Selected Press for Energetic Cost of Stroller Running:

New York Times Inside Science

Society Magazine (Paris, France), by Emmanuelle Andreani

Personal Interview - SPU etc. Magazine:

https://voices.spu.edu/articles/dream-career-reality-college-etc