

CURRICULUM VITAE

University of Idaho

NAME: Joshua P. Bailey, PhD

DATE: January 17, 2019

RANK OR TITLE: Assistant Professor

DEPARTMENT: Movement Sciences

OFFICE LOCATION AND CAMPUS ZIP: ED 308; PEB113A
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DATE OF FIRST EMPLOYMENT AT UI: 8/7/2017

DATE OF TENURE: Untenured

DATE OF PRESENT RANK OR TITLE: 8/7/2017

EDUCATION BEYOND HIGH SCHOOL:

Degrees:

Doctor of Philosophy in Kinesiology, University of Nevada, Las Vegas, Las Vegas, NV, 2017.

Master of Science, University of Nevada, Las Vegas, Las Vegas, NV, 2014, Kinesiology – Biomechanics.

Bachelor of Science, University of Nevada, Las Vegas, Las Vegas, NV, 2011, Kinesiology – Fitness Management

Certificates and Licenses:

National Strength & Conditioning Association – Certified Personal Trainer 2007 - Present

IRONMAN Certified Coach – 2016-2018

UNLV Graduate College Mentorship Certificate – 2017

UNLV Graduate College Research Certificate – 2017

EXPERIENCE:

Teaching, Extension and Research Appointments:

Assistant Professor, College of Education, Health and Human Sciences, Department of Movement Sciences, University of Idaho, Moscow, ID, August 2017 – Present.

Graduate assistant, Department of Kinesiology and Nutrition Sciences, University of Nevada, Las Vegas, NV, 2012-2017.

TEACHING ACCOMPLISHMENTS:

Areas of Specialization: Biomechanics, Human Motion, Strength & Conditioning

Courses Taught:

University of Idaho, Department of Movement Sciences

PEP 404/504 – Sports Biomechanics (Fall 2018) Grad/UG

PEP 300 – Applied Human Anatomy & Biomechanics (Fall, 2017 - Present)

PEP 300 – Online Applied Human Anatomy & Biomechanics (Summer 2018)

PEP 360 – Motor Behavior (Spring, 2018 - Present)

PEP 409 – Concepts of Strength & Conditioning (Spring, 2018-Present)

University of Nevada Las Vegas, Department of Kinesiology and Nutrition Sciences

KIN 456/656 Biomechanics of Endurance Performance (Spring 2017)

KIN 356 Undergraduate Biomechanics (Spring 2016)

KIN 457/657 Physiology of Endurance Performance (Fall 2015 & 2016)

KIN 743 Research Techniques of Biomechanics, TA (Spring 2015)

KIN 346L Undergraduate Biomechanics Lab (Fall 2012 – Spring 2014)

Students Advised:**Undergraduate Students:** (number per year, advised to completion)University of Idaho

14 students, 1 BS-ESHS (Fall 2018)

5 students (Spring 2018)

Graduate Students:**Advised to completion of degree-major professor** (student name, degree, and date)**Advised as major professor, in progress** (student name, degree, and date)

Youngmin Chun, PhD, Education, Health and Human Sciences – Exercise Science (2018 – Present)

Served on graduate committee (student name, degree, and date)**Graduate student committee member, in progress** (student name, degree, and date)

Chad Skiles, MS, Movement and Leisure Science, (2018 – Present)

Emilie Miley, PhD, Education, Health and Human Sciences – Exercise Science (2018 – Present)

Sam Brooks, PhD, Education, Health and Human Sciences – Exercise Science (2018 – Present)

Ike Brown, MS, Biology – Biological Sciences (2018-Present)

Research Mentor:University of Idaho*Undergraduate Student Research Mentor*

Shayna Allert, Movement Sciences Program Practicum, 2019

Alexis Creighton, Movement Sciences Program Practicum, 2019

Jared Gott, Movement Sciences Program Practicum, 2019

Katelyn Lechtenberg, Movement Sciences Program Internship (180 hours), 2019

Elmer Chavez, Movement Sciences, 2018-Present

Madeline Bryant, Movement Sciences, 2018-Present

Madeline Dustin, Movement Sciences Program Practicum, 2018-present

Rebecca Adami, Movement Sciences, 2018-Present

Georgia Filler, Movement Sciences Program Practicum, 2018

Valerie Zwaanstra, Movement Sciences Program Practicum, 2018

Leah Fisk, Movement Sciences Program Practicum, 2018

Alex Gwin, Movement Sciences Program Practicum, 2018

Liz Short, Movement Sciences Program Internship (200 hours), 2018

Rebecca Storm, Movement Sciences 2018

Graduate Student Research Mentor

Youngmin Chun, PhD, Education, Health & Human Sciences- Exercise Science, 2018-Present

Courses Developed:

University of Idaho

PEP 404/504 Sports Biomechanics (Fall 2018)

PEP 300 (Online) Applied Human Anatomy & Biomechanics (Summer 2018)

Non-credit Classes, Workshops, Seminars, Invited Lectures, etc.:

Bailey, JP. (Fall 2018). *Proper running form...does one size fit all?* University of Idaho, *NROTC*

Bailey, JP. (Spring 2018). *Do you run the way you were intended?* University of Idaho, *ISEM 301: The Holistic Athlete.*

Bailey, JP. (September 2016). *Gait & Footwear.* University of Nevada, Las Vegas undergraduate course. *SIM 386 – Assessment and Evaluation of Lower Extremity Injuries.*

Bailey, JP & Soucy, M. (Summer 2016). *Research Misconduct.* Stanford University, NIH/NIDDK & Short-Term Research Experience for Underrepresented Persons (STEP-UP) webinar series.

Bailey, JP & Soucy, M. (Summer 2015). *Organization: as it relates to research design.* Stanford University, NIH/NIDDK & Short-Term Research Experience for Underrepresented Persons (STEP-UP) webinar series.

Honors and Awards:

SCHOLARSHIP ACCOMPLISHMENTS:

Publications, Exhibitions, Performances, Recitals:

Refereed/Adjudicated: (i.e. books, book chaps., journals, proc., abstr., etc.; provide citations-author, date, title, publisher)

Bailey, J.P., Freedman-Silvermail, J., Dufek, J.S., & Mercer, J.A. (2018). Effects of perceived fatigue on coordination patterns and variability during an interval treadmill run. *Sports Biomechanics*. DOI: [10.1080/14763141.2018.1508489](https://doi.org/10.1080/14763141.2018.1508489).

Bailey, J.P., Freedman-Silvermail, J., Dufek, J.S., & Mercer, J.A. (2018). Effects of treadmill running velocity on lower extremity coordination variability in healthy runners. *Human Movement Science*, 61, 144-150. DOI: [10.1016/j.humov.2018.07.013](https://doi.org/10.1016/j.humov.2018.07.013).

Lee, SP, **Bailey, J.P.**, Barton, S., Brown, D., & Joyce, T. (2018). Adaptations of lumbar biomechanics after a four-week running training with minimalist shoes and techniques: implications for running-related lower back pain. *Physical Therapy in Sport*, 29, 101-107. DOI [10.1016/j.ptsp.2016.11.004](https://doi.org/10.1016/j.ptsp.2016.11.004)

Masumoto, K., Soucy, M.T., **Bailey, J.P.** & Mercer, J.A. (2017). Muscle activity during backward and forward running with body weight support. *Human Movement Science*, 55, 276-286. DOI: [10.1016/j.humov.2017.08.015](https://doi.org/10.1016/j.humov.2017.08.015).

Bailey, J., Mata, T. & Mercer, J. (2017). Is the relationship between stride length, frequency, and velocity influenced by running on a treadmill or overground. *International Journal of Exercise Science*, 10(7), 1067- 1075. [PMC5685089](https://pubmed.ncbi.nlm.nih.gov/3685089/)

Bailey, J.P., Mercer, J.A., and Dufek, J.S. (2016). A Comprehensive Kinematic Analysis During a 15 km Submaximal Training Run. *Int J Sports and Exerc Med.*, 2:039. [ISSN: 2469-5718](#).

Masumoto, K., **Bailey, J.P.,** & Mercer, J.A. (2015). Determining if muscle activity is related to preferred stride frequency during running in the water and on land. *Eur J Appl Physiol*, 115, 2691-2700. [DOI 10.1007/s00421-015-3234-5](#).

Peer Reviewed/Evaluated: (i.e. journals, articles, proceedings, abstracts, etc.)

Other: (reports, proceedings, papers, citations and references, performances)

Nordin A.D., **Bailey, J.P.,** & Dufek, J.S. Implications of increased lower extremity movement variability on fall susceptibility at increased stride lengths during locomotion. *2013 American Society of Mechanical Engineers International Mechanical Engineering Congress and Exposition Conference Proceedings*, November 2013.

Refereed/Adjudicated (currently scheduled or submitted):

Gidley, L & Bailey, J.P. **Submitted to *Journal of Applied Biomechanics 11/2018***

Catena, R.D., **Bailey, J.P.,** Campbell, N., & Music, H.E. Stand-to-sit kinematic changes during pregnancy revolve around reduced hip motion. **Submitted to *Clinical Biomechanics 11/2018***.

Bailey, J.P. & Catena, R. Effects of downhill running on lower extremity running patterns. ***In Progress***

Bailey, J.P. Changes in gait mechanics due to volitional fatigue. ***In Progress***

Bailey J.P. & Brown, A. Does dance performance relate to mechanical characteristics? ***In Progress***

Peer Reviewed/Evaluated (currently scheduled or submitted):

Presentations and Other Creative Activities: (i.e. slide sets, web pages, video productions, etc., provide date and location)

Professional Meeting Papers, Workshops, Showings, Recitals: (provide date and location)

Grants and Contracts Awarded:

Grants in Review

Vakanski, A., Paul, D., Baker, R., **Bailey, J.P.,** & Min, X.. (2018). National Science Foundation [NSF 18-541]: Smart and Connected Health (SCH). *SCH:INT: A system for assessment of patient performance in physical rehabilitation*. \$507,377 Submitted 12/2018.

Unfunded Grants

Dousay, T., **Bailey, J.P.,** & Egan, C. (2018) Spencer Foundation. *VR & Somatic Learning for re-engagment*. \$750,000 - \$1,000,000 (unfunded).

Bailey, J.P. (2018). W.M. Keck Foundation – Undergraduate Education. *Undergraduate Biomechanics Teaching Laboratory*. \$275,000 (unfunded).

Mercer, JA, Zhan, J, Navalta, J, Lough, N, Gatlin, T, **Bailey, JP,** Barker, L, & Craig-Jones, A. (2016) NSF: Partnerships for Innovation: Building Innovation Capacity. \$1,000,000 (unfunded).

Mercer, J.A., **Bailey, J.P.,** and Barker, L. (2016) United States of America Track and Field. \$123,217 (unfunded)

Mercer, J.A., **Bailey, J.P.**, Barker, L., and Soucy, M. (2015) Arthritis foundation. \$75,000 (unfunded).

Bailey, J.P. and Mercer, J.A. (2015) National Strength & Conditioning Association Doctoral Research Grant \$15,000 (unfunded).

Student Mentored Grants

University of Idaho – Summer Undergraduate Research Fellowship

Student: Alex Holmes

Title:

Total funding: \$5000 (\$4000 fellowship, \$1000 equipment) (unfunded)

University of Idaho – OUR Undergraduate Research Grant

Student: Liz Short

Title:

Total funding: \$1000

Honors and Awards:

SWACSM Student Research Award. Oral Presentation: A Comprehensive Kinematic Analysis of a 15 km Training Run. Southwest Chapter of American College of Sports Medicine (SWACSM). Orange Count, CA, USA, October, 2014.

SERVICE:

Major Committee Assignments:

Multi-Campus Communications Committee (University, Committee Member, December 2018 – Present)

Faculty Affairs Committee (College, Committee Member, November 2018 – Present)

MVSC Scholarship Committee (Department, Committee Member, January 2019 – Present)

M.S. Movement and Leisure Sciences Assessment Committee (Department, Committee Member, September 2017 – Present)

Promotion & Tenure Committee (Departmental, non-tenured assignment for Full Professor review, Spring 2018)

Promotion & Tenure Committee (Departmental, non-tenured assignment for Full Professor review, Fall 2017)

Professional and Scholarly Organizations (including memberships, committee assignments, editorial services, offices held and dates)

Memberships:

Member, American Society of Biomechanics, 2017 – Present.

Member, American College of Sports Medicine, 2016 – Present.

Member, National Strength & Conditioning Association, 2017 – Present.

Reviewer, Journal of Applied Biomechanics

Reviewer, Human Movement Sciences

Reviewer, Journal of Biomechanics

Reviewer, Sports Biomechanics

Reviewer, Gait & Posture

Reviewer, International Journal of Exercise

Reviewer, Journal of Pain Research

Outreach Service:

Formed Movement Sciences Undergraduate Research Fund Club, December 2018

Organized Undergraduate Research Conference Travel Fund 5k, March 2018.

National Biomechanics Day, American Society of Biomechanics event. OneStone students attended a day in the research lab. April 2018.

UI Idaho Bound Tours, University of Idaho, College of Education, Health and Human Sciences (2018)

Community Service:

Palouse Road Runners Run Clinic, Track workout teaching technique and warm-up drills.
Mobilizing Men, Women's Center Subcommittee. (2018 – Present)

Honors and Awards:

PROFESSIONAL DEVELOPMENT: (workshops and seminars attended)

Teaching:

Vandal Star Orientation/Training, Fall 2018
UI All Employee Training (A), Fall 2018
UI IT Security, Fall 2017
UI Search Committee Training, Fall 2017
UI Diversity & Inclusion at UI, Fall 2017
UI Stewardship of Resources & Ethical Conduct, Fall 2017
UI Inclusive Workplace Discrimination & Sexual Harassment Prevention Training, Fall 2017

Scholarship:

Northwest Biomechanics Conference, April 2018
American College of Sport Medicine Northwest Regional Conference, Feb 2018

Outreach:

Safezone Training, 01/2019
QPR Training: Question, Persuade, Refer for Suicide Prevention, Fall 2017