

# MATTHEW P. BUMAN, PHD, FACSM

## Curriculum Vitae

### CONTACT INFORMATION

College of Health Solutions  
Arizona State University  
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matthew.buman@asu.edu

**CURRENT RANK:** Associate Professor

**UNIT:** Arizona State University, College of Health Solutions

## BACKGROUND

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### ACADEMIC APPOINTMENTS

*Associate Professor*, Arizona State University, College of Health Solutions, Phoenix, AZ, 2017-present.

Adjunct Assistant Professor, University of Minnesota, School of Public Health, Division of Epidemiology and Community Health, Minnesota, MN, 2015-present.

*Barrett Honors Faculty*, Arizona State University, College of Health Solutions, Phoenix, AZ, 2011-present.

*Senior Sustainability Scientist*, Arizona State University, School of Sustainability, Tempe, AZ, 2015-present.

*Affiliate Faculty*, Mayo Clinic Arizona, Scottsdale, AZ, 2014-present.

*Postdoctoral Research Fellow in Cardiovascular Disease Epidemiology and Prevention NIH T32-HL007034*. Stanford University School of Medicine, Stanford Prevention Research Center; Stanford, CA, 2008-2011.

*Assistant Professor*, Arizona State University, School of Nutrition and Health Promotion, Exercise Science and Health Promotion Program, Phoenix, AZ, 2011-2017.

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### EDUCATION

*Postdoctoral Research Fellowship* (2008-2011). Stanford University School of Medicine, Department of Medicine, Stanford, CA; Mentors: Abby C. King, PhD, William L. Haskell, PhD, Christopher Gardner, PhD

*Ph.D. Sport and Exercise Psychology* (2005-2008). Department of Applied Physiology and Kinesiology, University of Florida, Gainesville, FL. Mentors: Peter R. Giacobbi, Jr., PhD, Heather A. Hausenblas, PhD, Michael Marsiske, PhD, Michael G. Perri, PhD

Dissertation title: "*Evaluation of a peer-assisted social-cognitive physical activity intervention for older adults*"

*Certificate in Public Health, Concentration in Social and Behavioral Science*, College of Public Health and Health Professions, University of Florida

*M.S. Counseling Psychology, Concentration in Athletic Counseling (2002-2004).* Springfield College, Springfield, MA. Cumulative GPA: 3.95. Mentor: Britton W. Brewer, PhD

Thesis title: "*The phenomenological nature of The Wall: expectancy among marathon runners*"

*B.S. Exercise and Sport Science (1998-2002).* University of Utah, Salt Lake City, UT. *Cum Laude.* Major GPA: 3.81. Cumulative GPA: 3.69. Mentor: Maria Newton, PhD

Senior thesis: "*Motivations and cognitive orientations of recreational marathon runners*"

*B.S. Psychology (1998-2002).* University of Utah, Salt Lake City, UT. *Cum Laude.* Major GPA: 3.80. Cumulative GPA: 3.69.

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## **AWARDS AND HONORS**

*Endeavour Fellowship Award,* Australian Department of Education and Training, 2018

*Faculty Research Excellence Award,* School of Nutrition and Health Promotion, 2016.

*Fellow,* American College of Sports Medicine, 2015-present.

*Center for Active Design: Excellence Winner,* Stanford Health Neighborhood Discovery Tool, 2015.

*New Investigator of the Year,* American College of Sports Medicine, 2013.

*President's Medal for Social Embeddedness,* Arizona State University, 2013.

*Best Paper Award,* Association of Computing Machinery Computer-Human Interaction (CHI) Conference, 2013.

*Citation Award,* Society of Behavioral Medicine, 2010.

*Outstanding Student Investigator Award,* Society of Behavioral Medicine, Evidence-Based Behavioral Medicine Special Interest Group, 2010.

*Scholarship for Postgraduate Course on Research Directions and Strategies,* American Heart Association's Council on Nutrition, Physical Activity, and Metabolism, 2009.

*Outstanding Student Investigator Award,* Society of Behavioral Medicine, Pain Special Interest Group, 2008

*Lee-McCachren Endowed Graduate Scholarship,* University of Florida, College of Health and Human Performance, 2007.

*Named Presidential Fellowship,* University of Florida, 2005

*Edward J. Keyes Graduate Fellowship in Psychology,* Springfield College, 2003

## **RESEARCH**

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### **SPONSORED RESEARCH FUNDING**

#### **Primary Investigator or Subcontract Primary Investigator (n = 21)**

21. Arizona Biomedical Research Commission. “*Dissemination and Implementation Science Training Proposal.*” \$19,000 (0% indirect costs recovered, 0% FTE) 1/1/2019-12/31/2019.
20. Arizona State University, College of Health Solutions. “*Metabolic Translational Team.*” \$38,000 (0% indirect costs recovered, 0% FTE) 1/1/2019-12/31/2019.
19. National Institutes of Health, National Cancer Institute. “*Supplemental funding: Stand & Move at Work: A Group Randomized Trial.*” \$126,731 (54% indirect costs recovered, 0% FTE) 7/1/2017 – 6/30/2018. [PI: Buman].
18. Project Honeybee, Center for Sustainable Health, Arizona State University. 2017 “*Real-World Validation of a Novel Multisensor Wearable for Heart Failure.*” \$27,500 (indirect costs waived) 7/1/17-6/30/18. [PI: Buman, Ross, & LaBelle]
17. National Institutes of Health, National Institute on Alcohol Abuse and Alcoholism (1R21DA041553) “*Peer-Facilitated Physical Activity Intervention Delivered During Methadone Maintenance*” 2016 \$61,686 (54% indirect costs recovered, 10% FTE) 9/30/2016-8/31/2018. [PI: Abrantes & Stein].
16. National Institutes of Health, National Institute of Diabetes and Digestive and Kidney Diseases (R18DK109516) “*Smartphone-Based Diabetes Prevention in the VA: A Cluster-Randomized Trial*” 2016 \$766,816 (54% indirect costs recovered, 15% FTE) 9/1/2016-8/31/2019 [PI: Buman & Reaven].
15. National Institutes of Health, National Institute for Nursing Research (R21NR016046). “*SleepWell24: An Innovative Smartphone Application to Improve PAP Adherence.*” 2016 \$443,214 (54% indirect costs recovered, 15% FTE) 8/15/2016-7/31/2018 [PI: Buman & Petrov].
14. National Institutes of Health, National Cancer Institute (R01CA198971). “*Stand & Move at Work: A Group Randomized Trial.*” 2015 \$2,982,656 (54% indirect costs recovered, 30% FTE) 07/02/15 – 06/30/19 [PI: Buman & Pereira].
13. National Institutes of Health, National Institute on Alcohol Abuse and Alcoholism (1R21AA024295). “*A tailored physical activity smartphone app for patients with alcohol dependence*” 2016 \$62,239 (54% indirect costs recovered, 10% FTE) 09/01/16-08/31/21 [Consortium PI: Buman].
12. National Institutes of Health, National Heart Lung and Blood Institute (R01HL1122460). “*Neighborhood Change: Impact on Sleep and Obesity-Related Health Disparities.*” 2015 \$66,901 (54% indirect costs recovered, 30% Summer FTE) 11/01/2015 – 10/31/2019 [Consortium PI: Buman].
11. Aliphcom Inc. (Jawbone) “*Jawbone Validation and Calibration of Strength and Yoga Activities*” 2016 \$89,933 (67% indirect costs recovered; 30% FTE) 7/1/16-12/31/16 [PI: Buman].
10. Project Honeybee, Center for Sustainable Health, Arizona State University. 2016 “*Toward a portable wearable system for detection and diagnosis of obstructive sleep apnea.*” \$27,500 (indirect costs waived) 7/1/16-6/30/17. [PI: Buman & Turaga]
9. Steelcase, Inc. “*Stand and Move ASU.*” 2015 \$5,031 (67% indirect costs recovered, 0% FTE). [PI: Buman]
8. Project Honeybee, Center for Sustainable Health, Arizona State University. 2015 “*Development of machine-learning algorithms from wrist-worn accelerometry activity identification.*” \$25,000 (indirect costs waived) 7/1/15-6/30/16. [PI: Buman & Turaga]
7. Aliphcom Inc. (Jawbone) “*Activity Classification and Device Calibration*” 2014 \$149,979 (67% indirect costs recovered; 30% FTE) 7/1/14-12/15/14 [PI: Buman].

6. Phoenix Veterans Administration Health Care System Polytrauma/Blast-related Injuries Quality Enhancement Research Initiative. 2015 *"Development and User Feedback of a Patient- and Provider-facing Smartphone Application for Insomnia Treatment in Returning Veterans."* \$7,925 (indirect costs waived) 8/8/14-9/30/14. [PI: Dana Epstein; Sub PI: Buman]
5. Project Honeybee, Center for Sustainable Health, Arizona State University. 2014 *"Inpatient Mobility as a Novel Predictor of Functional Independence and 30-day Hospital Readmission in Heart Failure Patients."* \$25,000 (indirect costs waived) 7/1/14-6/30/15. [PI: Buman]
4. Aliphcom Inc. (Jawbone) *"Jawbone Step and Sleep Validation Study."* 2013 (\$107,255; 67% indirect costs recovered; 30% FTE for 4 months) [PI: Buman].
3. Phoenix Veterans Administration Health Care System Polytrauma/Blast-related Injuries Quality Enhancement Research Initiative. 2013 *"Iterative Design and Adaptation of the CBTi Coach Smartphone Application for Returning Veterans."* (\$11,500; indirect costs waived) [PI: Dana Epstein; Sub PI: Buman]
2. School of Nutrition and Health Promotion Virginia G. Piper Health Initiative Seed Grant. 2013 *"Biobehavioral activity-sleep synergies for cardiometabolic health."* (\$48,667.47; internal funding) [PI: Buman]
1. Arizona State University Obesity Solutions Funding Challenge. 2013 *"Stand and Move ASU."* (\$5,000; internal funding) [PI: Buman]

**Mentored applications (student or postdoc; n = 1)**

1. American College of Sports Medicine. *"Ecological momentary determinants of sedentary behavior."* 2016 \$5,000 [PI: Toledo].

**Co-Investigator (n = 9)**

9. Canadian Institute of Health Research. *"Exploring the associations between lung function and sedentary time among middle-aged and older Canadian Men and Women."* 2016. [PI: Dogra].
8. National Institutes of Health, National Center for Complementary and Integrative Health (R34AT008808). *"Yoga online: Inter-conception care to prevent PTSD symptoms after stillbirth."* 2016 \$697,793 (54% indirect costs recovered, 5% FTE) 8/1/2016-5/31/2019 [PI: Huberty].
7. Project Honeybee, Center for Sustainable Health, Arizona State University. 2016 *"Mayo 360 Personalized Support System (Mayo 360PSP). Patient-Driven Lifestyle Solutions for Weight and Wellness."* \$24,951 (indirect costs waived) 7/1/16-6/30/17. [PI: Foxx-Orenstein & Runger]
6. Project Honeybee, Center for Sustainable Health, Arizona State University. 2016 *"Measurement of medical staff and trainees' sleep and physical activity during various call and shift schedules"* \$24,943 (indirect costs waived) 7/1/16-6/30/17. [PI: Poterack]
5. Project Honeybee, Center for Sustainable Health, Arizona State University. 2015 *"Accelerometry to better monitor success of elective inguinal hernia."* \$25,000 (indirect costs waived) 7/1/14-6/30/15. [PI: Poterack]
4. Robert Wood Johnson Foundation. *"Speeding the Development of Behavioral Interventions: A Case Study of Agile Science"* 2014 \$329,635 (10% indirect costs recovered, 10% FTE) 8/15/14-8/14/15. [Role: Co-Investigator; PI: Hekler]
3. United Nations International Children's Emergency Fund (UNICEF). *"Evaluation of Kid Power Bands"* 2014 \$27,982 (10% indirect costs, 5% FTE) 8/1/14-12/31/15 [Role: Co-Investigator; PI: Huberty]

2. School of Nutrition and Health Promotion Virginia G. Piper Health Initiative Seed Grant. “*Development of a mHealth physical activity real-time adaptive intervention.*” 2013 (\$49,348.50; indirect costs waived) [PI: Eric Hekler]
1. National Institute of Nursing Research (NIH T32). “*Scholars training for the advancement of research (STAR) health disparities program*” (\$1,178,506) [Co-PI: Keller and Reifsnider]

**Consultant (n = 2)**

2. National Heart, Lung, and Blood Institute (NHI R01) 2014 “*Neighborhood Change: Impact on Sleep and Obesity-Related Health Disparities*” [PI: Dubowitz & Troxel]
1. National Heart, Lung, and Blood Institute (NIH R01) 2013 “*Virtual advisors to promote physical activity in Latino older adults*” [PI: King]

**PENDING RESEARCH PROPOSALS**

**Primary Investigator or Subcontract Primary Investigator (n = 8)**

8. National Institutes of Health, National Cancer Institute. “*Stand & Move at Work II: Effectiveness and Implementation.*” Resubmission - 2018 (\$3,708,908). [PI: Buman/Pereira].
7. National Institutes of Health, National Cancer Institute. “*StandUpTV: Reducing sedentary screen time in adults.*” Resubmission - 2018 (\$2,201,206). [PI: Buman/Keadle].
6. National Institutes of Health, National Cancer Institute. “*StandUpTV: Reducing sedentary screen time in adults.*” 2018 (\$2,201,206). [PI: Buman/Keadle].
5. National Institutes of Health, National Institute of Child Health and Human Development. “*Motivational determinants of postpartum lifestyle behaviors, weight retention, and metabolic syndrome.*” 2018 (\$48,107). [Consortium PI: Buman].
4. National Science Foundation, SCH:INT. “*Self-powered and scalable lifelogging for contextual health and lifestyle interventions.*” 2018 (\$749,999). [PI: Turaga/Buman/Suren].
3. National Science Foundation, SCH:INT. “*Smart and Connected Shoe for Ankle Injury Prevention.*” 2018 (\$1,199,813). [PI: Buman/Chae/Yong]
2. National Institutes of Health, National Institute of Child Health and Human Development. “*JustMoveMom: A mobile app intervention to reduce sitting and increase light-intensity physical activity during pregnancy.*” 2018 (\$1,395,741). [PI: Huberty/Buman].
1. National Institutes of Health, National Institute of Child Health and Human Development. “*Family Economic Insecurity, Biobehavioral Rhythmicity, and Academic/cognitive Out*” 2018 (\$102,128). [PI: Buman, Prime: RAND Corporation). [Consortium PI: Buman].

**Co-Investigator (n = 1)**

1. National Institutes of Health, National Cancer Institute. “*Can consumer-based online yoga improve fatigue?*” 2018 (\$3,882,687). [PI: Huberty].

**Consultant (n = 1)**

1. National Institutes of Health, National Institute of Child Health and Human Development. “*My Baby, My Move: A community wellness intervention.*” 2018. [Consortium PI: Huberty].

**GRANTS SUBMITTED BUT NOT FUNDED**

**Primary Investigator or Subcontract Primary Investigator**

23. National Institutes of Health, National Cancer Institute. “*Stand & Move at Work II: Effectiveness and Implementation.*” 2018 (\$3,708,908). [PI: Buman/Pereira].
22. National Science Foundation, DMS/NIGMS. “*Dense lifelog health analytics from wearable sensors using functional data analysis and Riemannian geometry.*” 2018 – resubmission. (\$999,984). [PI: Turaga/Buman].
21. National Science Foundation, DMS/NIGMS. “*Dense lifelog health analytics from wearable sensors using functional data analysis and Riemannian geometry.*” 2017 (\$999,997). [PI: Turaga/Buman].
20. National Institutes of Health, National Institute of Nursing. “A mHealth app intervention to improve health-related outcomes for people with pre-diabetes in Thailand.” 2017 (\$368,566). [PI: Buman]
19. Arizona Biomedical Research Commission. “*Pilot study of a smartphone-based intervention for diabetes prevention.*” 2016 (\$750,000). [PI: Buman].
18. National Institutes of Health, National Institute of Child Health and Human Development. “Family Economic Insecurity, Biobehavioral Rhythmicity, and Academic/cognitive Out.” 2016 (\$71,272). [PI: Buman, Prime: RAND Corporation].
17. United States Department of Veterans Affairs. “Smartphone-delivered Behavior Change for Diabetes Prevention.” 2015 (\$316, 469). [PI: Reaven; Subcontract PI: Buman].
16. National Institutes of Health. “Smartphone-based diabetes prevention in the VA: A cluster-randomized trial” 2015 (\$3,399,617). [Multiple PI: Buman & Reaven].
15. American Diabetes Association. “*Pilot study of smartphone-delivered behavior change for diabetes prevention.*” 2015 (\$599,797). [PI: Buman].
14. National Institutes of Health. “*A tailored physical activity smartphone app for patients with alcohol dependence.*” 2015 (\$62,256). [PI: Abrantes; Subcontract PI: Buman].
13. National Institutes of Health. “Peer-Facilitated Physical Activity Intervention Delivered During Methadone Maintenance Clinic” 2015 (\$61,686). [PI: Abrantes; Subcontract PI: Buman].
12. National Institutes of Health. “BeWell24 Optimizing a smartphone app for health in breast cancer survivors” 2014 (\$1,395,355). [Multiple PI: Buman & Huberty].
11. Arizona State University and Mayo Clinic Partnership for Collaborative Research Seed Grant Program 2015. “*BeWell24: An innovative smartphone application for improved Type 2 diabetes disease management*” (\$39,743; indirect costs waived) [Multiple PI: Buman and Cook].
10. GlaxoSmithKline, Inc. “Smartphone delivered disease management and medication adherence” 2014. (\$1,200,000) [Multiple PI: Buman & Reaven].
9. National Institutes of Health (NIH R01). “Natural Experiment on extended health outcomes of adjustable-height workstations.” 2014 (\$70,077). [PI: Conroy; Subcontract PI: Buman].
8. Arizona Biomedical Research Council Biomedical Investigator Grant (‘AZ BIG’). “*Smartphone delivered interventions for diabetes prevention*” 2014 (Subcontract: \$307,275) [Multiple PI: Buman & Reaven].
7. American Heart Association. 2013. Pilot study of smartphone-delivered interventions for prevention of diabetes. AHA Collaborative Science Award Letter of Intent. [Multiple PI: Buman & Reaven].

6. Arizona State University and Mayo Clinic Partnership for Collaborative Research Seed Grant Program 2014. "Continuous positive airway pressure therapy to improve weight, physical activity and dietary behaviors in patients with type 2 diabetes mellitus" (\$40,000; indirect costs waived) [Co-PI: Buman and Parish].
5. National Institute of Nursing Research (NIH R21) 2013. "Cloud-based monitoring of obstructive sleep apnea to enhance patient-provider communication" (\$397,085) [PI: Buman].
4. National Institute of Nursing Research (NIH R21) 2011. "Feasibility study of portable assessment of obstructive sleep apnea" (\$383,014) [PI: Buman]
3. National Heart, Lung, and Blood Institute (NIH R21) 2012. "Effect modification of obstructive sleep apnea on physical fitness" (\$488,820) [Co-PI: Buman and Summers].
2. Arizona State University and Mayo Clinic Partnership for Collaborative Research Seed Grant Program 2012. "Feasibility study for portable assessment of obstructive sleep apnea" (\$40,000; indirect costs waived) [Co-PI: Buman & Parish].
1. National Institute of Nursing Research (NIH R21) 2012. Feasibility study of portable assessment of sleep apnea (\$149,925) [Pilot Project PI: Buman; PI: Menon & Fonseca]

**Mentored applications (student or postdoc)**

3. National Institutes of Health, National Heart, Lung, and Blood Institute. "Sleep and hemodynamic mechanisms of sedentary behavior." 2018. (\$146,222). [PI: Hasanaj].
2. American Diabetes Association. "Occupational sedentary behavior and the insulinemic effects of standing: A bio-behavioral perspective" 2016. [PI: Mullane].
1. American College of Sports Medicine. "Sedentary behavior and insulin sensitivity: Chronic effects in a randomized controlled trial." 2016. [PI: Mullane].

**Co-Investigator**

34. National Science Foundation. "Strategies: STEM: Journeys in Health Exploration" 2018. (\$1,199,782). [PI: Greenes].
33. National Institutes of Health, National Center for Complementary and Integrative Health. "*Can online yoga improve fatigue in MPN patients? The Mindful health for MPN study.*" Resubmission - 2017 (\$3,629,477). [PI: Huberty].
32. National Science Foundation. "SCH: INT: Collaborative Research: Just-in-Time State Estimation for Notifications" 2016. (\$1,281,316). [PI: Hekler].
31. National Institutes of Health. "Integrated research training in biomedical informatics & data science (BMI x DS)" 2016. (\$5,577,873). [PI: Wang].
30. National Institutes of Health, National Center for Complementary and Integrative Health. "*Can online yoga improve fatigue in MPN patients? The Mindful health for MPN study.*" 2016 (\$3,503,248). [PI: Huberty].
29. National Institutes of Health. "New Transdisciplinary Modeling Frameworks for Fusing Behavioral Theory and Multiscale Data to Inform the Design of Just-in-Time Adaptive Interventions." 2017 (\$767,372). [PI: Rivera; Prime: University of Southern California].
28. Department of Defense. "Smart warfighter optimal readiness diagnostic (SWORD) system." 2017 (\$3,929,595). [PI: Ross]

27. Mayo Clinic Scottsdale. "Mayo 360 Personalized Support Platform (Mayo 360PSP)" 2016 (\$600,726). [PI: Runger]
26. National Institutes of Health. "Predictive multiscale models for Just-In-Time interventions" 2016. (\$767,021). [PI: Rivera].
25. Department of Defense. "Signal processing strategies for ear-based monitoring of physiological signals." 2016 (\$49, 967). [PI: Paxauris; Sub PI: Berisha].
24. National Institutes of Health. "Participant technologies for sustainable and integrative personal precision medicine" 2016 (\$54,622,289). [PI: Forzani].
23. National Institutes of Health. "Yoga online: Inter-conception care to prevent PTSD symptoms after stillbirth" 2015. (\$693,793). [PI: Huberty].
22. National Science Foundation. Development and validation of a state estimation strategy for inferring just in time moments." 2015 (\$1,493,104). [PI: Hekler].
21. Health and Human Services (Office of the Secretary). "*An Innovative Data Model and Platform for Patient-Directed Sensor Data to Support.*" 2015. (\$1,483,486). [PI: Birt].
20. American Sleep Medicine Foundation. 2014 "BeWell24: An Innovative Smartphone Application to Improve CPAP Adherence." \$249,992. [PI: Petrov]
19. National Institutes of Health. "Effects of Posture Change and Light-intensity Physical Activity on Glycemic Control." (\$424,875). [PI: Crespo].
18. National Institutes of Health (NIH R01) "Development and evaluation of a multi-functional platform for mHealth apps." 2014. (Subcontract: \$633,390) [PI: Ozwala]
17. American Diabetes Association. "Effects of Posture Change and Light-intensity Physical Activity on Glycemic Control." (\$600,000). [PI: Crespo].
16. National Institutes of Health (NIH R21) "Yoga online: Inter-conception care to prevent PTSD symptoms after stillbirth" 2014 (\$696,429). [PI: Huberty]
15. The Obesity Society. "Smartphone-supported book club for increasing physical activity and decreasing health risk in middle aged women." 2014. (\$39,926). [PI: Swan].
14. National Institutes of Health (NIH R15) "Health choices: An intervention for overweight and obese school age children" 2014 (\$415,207). [PI: Jacobson].
13. National Science Foundation/National Institutes of Health (Smart and Connected Health). "Theoretically Informed Adaptive mHealth via Control-Systems Engineering: Illustration with a Physical Activity Intervention" [PI: Hekler].
12. University of California San Diego, National Skeletal Muscle Research Center (NSMRC). "The role of sleep on the performance, recovery and adaptive response of aging muscle to exercise rehabilitation" 2014 (\$25,000) [PI: Dickinson].
11. National Science Foundation. "IGERT: Person-centered technologies and practices for individuals with disabilities." 2014 (\$2,972,183). [PI: Panchanathan].



10. Mayo Clinic Arizona (E10 educational initiative). "Exercise is Medicine' in a Primary Care Setting: The introduction of the physical activity as a vital sign (PAVS)" (\$10,000) [PI: Scales].
9. School of Nutrition and Health Promotion Virginia G. Piper Health Initiative Seed Grant. "Three behavioral intervention modalities to reduce occupational sitting time and increase energy expenditure." 2013 (\$50,000; indirect costs waived) [PI: Noe Crespo].
8. National Institute of Nursing Research (NIH R15) 2013. "Healthy Choices: An intervention for overweight and obese school age children" (\$300,000) [PI: Jacobson].
7. National Institute of Child Health and Development (NIH R01) 2012. "Motivational interviewing to prevent obesity in young children" (\$3,687,940) [Co-PI: Gance-Cleveland and Reifsnider].
6. American Heart Association (AHA) 2012. "COPE Mobile Intervention for Obese Teens to Increase Physical Activity, Improve Dietary Intake & Reduce CV Risk Factors" (\$360,462) [PI: Kelly].
5. National Institute of Nursing Research (NIH R01) 2012. "Efficacy of a Pediatric Primary Care Healthy Choices Intervention" (\$1,824,710) [PI: Jacobson].
4. National Institute of Nursing Research (NIH R21) 2012. "Using Mobile Technology to Increase Physical Activity and Improve Dietary Intake" (\$436,818) [PI: Kelly].
3. The California Endowment 2012. "Evaluation of the California FreshWorks Fund – A public-private partnership to bring fresh food retail to underserved areas in California" (\$299,992) [PI: Ohri-Vachaspati].
2. Federal Highway Administration 2012. "Development of a web-based transportation and health index" [PI: Porter].
1. National Institute of General Medical Sciences (NIH) 2011. "Developing methods to speed design of effective mHealth Behavioral Interventions" (\$2,140,411) [PI: Hekler].

#### **Consultant**

2. National Institutes of Health (NIH P01) "Combined behavioral interventions to enhance functional wellbeing in breast cancer survivors" 2014 [PI: King].
1. Aetna Foundation 2013. "Changing obesity in reproductive age women" (\$149,422) [PI: Coonrod].

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#### **SPONSORED RESEARCH FUNDING (PRIOR TO ASU)**

7. Google. "Improving objective health indicator feedback via smart phones and the 'cloud'" 2010 (\$106,812) [PI: King]. Role: Co-Investigator.
6. National Heart, Lung, and Blood Institute (NIH R01). 2009. "Modifying physical activity and sedentary behavior via mobile phone technology. [PI: King] Role: Co-Investigator.
5. Foundation for Physical Medicine and Rehabilitation. 2010 "Objective measures of activity in patients with lumbar canal stenosis. [PI: Smuck] Role: Co-Investigator.
4. The Obesity Society. 2010. "Assessing the impact of 2010 Santa Clara County Ordinance banning toys and other incentives with unhealthy restaurant food purchases" [PI: Otten]. Role: Co-Investigator.

3. Stanford University Office of Community Health. 2010. "Developing Community Participatory-Based Neighborhood Audit Tools to Promote Healthful Eating and Active Living in Local Counties" [PI:King] Role: Co-Investigator and Director.
2. New England Women's Foundation. 2004. "Rowing strong, rowing together." [Co-PI: Buman & Valenzuela].
1. Office of Adolescent Health (HHS). 2004. "Building developmental assets in young father's and their families." [PI: Cox] Role: Program Evaluator.

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### PEER-REVIEWED PUBLICATIONS (TOTAL N = 118 IN PRESS OR PUBLISHED)

*Notes:* Authors are generally listed in decreasing order of contribution. The first author is usually the person who conducted most of the work and wrote the main contents of the manuscript. Depending upon the discipline in which the work is published, the senior author whom is responsible for securing funding is listed in either the 2<sup>nd</sup> or last position.

*Annotations for individual citations:*

- Students/trainees are noted by underline
- First, senior, or corresponding author for Buman are in **bolded italics**
- Impact factor is noted in *italics* for each journal (median impact factor for behavioral sciences = 2.457; psychology = 2.075; sport sciences = 1.191; endocrinology and metabolism = 2.796 [source: ISI Web of Science Journal Citation Reports, 2011])
- MPB's specific contributions to each manuscript are noted in *italics*

### **2018 or in press (n total = 28; n first author = 0; n senior/corresponding author = 7)**

118. Troxel WM, DeSantis A, Richardson AS, Beckman R, Ghosh-Dastidar B, Nugroho A, Hale L, Buysse DJ, **Buman MP**, Dubowitz T. Neighborhood disadvantage is associated with actigraphy-assessed sleep continuity and short sleep duration. *Sleep*. 2018;41(10). doi:10.1093/sleep/zsy140 *Impact factor = 5.135; MPB performed actigraphy analysis, contributed to data analysis plan, and manuscript preparation.*
117. Dogra S, Good J, **Buman MP**, Gardiner PA, Copeland JL, Stickland MK. Physical activity and sedentary time are related to clinically relevant health outcomes among adults with obstructive lung disease. *BMC Pulm Med*. 2018;18(1):98. doi:10.1186/s12890-018-0659-8 *Impact factor = 2.721; MPB contributed to data analysis plan, data analysis, and manuscript preparation.*
116. Abrantes AM, Blevins C, Lindsay C, Battle CL, **Buman MP**, Agu E, Stein M. Formative work in the development of a physical activity smartphone app targeted for patients with alcohol use disorders. *Psychol Sport Exerc*. February 2018. doi:10.1016/j.psychsport.2018.02.007 *Impact factor = 2.878; MPB contributed to study design and manuscript preparation.*
115. Brooks Holliday S, Dubowitz T, Ghosh-Dastidar B, Beckman R, Buysse D, Hale L, **Buman MP**, Troxel W. Do Sleep and Psychological Distress Mediate the Association Between Neighborhood Factors and Pain? *Pain Med*. 2018;(May):1-12. doi:10.1093/pm/pny075 *Impact factor = 2.782; MPB performed actigraphy analysis, contributed to data analysis plan, and manuscript preparation.*
114. Dempsey PC, Hadgraft NT, Winkler EAH, Clark BK, **Buman MP**, Gardiner PA, Owen N, Lynch BM, Dunstan DW. Associations of context-specific sitting time with markers of cardiometabolic risk in Australian adults. *Int J Behav Nutr Phys Act*. 2018;15(1):114. doi:10.1186/s12966-018-0748-3 *Impact factor = 5.548; MPB contributed to data analysis plan and execution and manuscript preparation.*

113. Dogra S, Good J, **Buman MP**, Gardiner PA, Stickland MK, Copeland JL. Movement behaviours are associated with lung function in middle-aged and older adults: A cross-sectional analysis of the Canadian longitudinal study on aging. BMC Public Health. 2018;18(1):818. doi:10.1186/s12889-018-5739-4bm  
*Impact factor = 2.420; MPB contributed to data analysis plan, data analysis, and manuscript preparation.*
112. Dutta A, Ma O, Toledo M, Pregonero A, Ainsworth B, **Buman MP**, Bliss D. Identifying Free-Living Physical Activities Using Lab-Based Models with Wearable Accelerometers. Sensors. 2018;18(11):3893. doi:10.3390/s18113893  
*Impact factor = 2.475; MPB secured funding for a portion of the project, led study design, contributed to data analysis plan, and manuscript preparation.*
111. Floegel TA, Allen KD, **Buman MP**. A pilot study examining activity monitor use in older adults with heart failure during and after hospitalization. Geriatr Nurs. October 2018. doi:10.1016/j.gerinurse.2018.10.001  
*Impact factor = 1.541; MPB mentored first author, contributed to study design, data analysis, and manuscript preparation.*
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**2007 (n total = 0; n first author = 0; n senior/corresponding author = 0)**

**2006 (n total = 1; n first author = 0; n senior/corresponding author = 0)**

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8. Dogra S, Good J, Gardiner PA, Copeland JL, Stickland MK, Rudoler D, **Buman MP**. Effects of replacing sitting time with physical activity on lung function: An analysis of the Canadian Longitudinal Study on Aging. *Health Reports*.
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3. Toledo MJ, Mullane S, Rydell S, Pereira M, **Buman MP**. Workplace sedentary behavior questionnaire: Validity and responsiveness to change. *Annals of Epidemiology*.
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4. Mullane SL; Toledo MJL, Hadjimichael M, Qian T, Hekler EB, **Buman MP**. Email-based prompts to interrupt prolonged sitting in office workers with sit-stand workstations: A micro-randomized trial. *Annals of Behavioral Medicine*. In preparation.
3. Mullane SM, Toledo MJ, Rydell S, Estabrooks P, Pereira M, **Buman MP**. Implementation strategies for a workplace sedentary behavior intervention. *Implementation Science*. In preparation.
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**CONFERENCE PROCEEDINGS IN ENGINEERING AND DESIGN FIELDS**

In Engineering and Design fields, the selection, visibility, and impact of papers from conference proceedings are often on par or higher than many journals in kinesiology, behavioral science, and medicine as this is the conventional method for publishing in these fields. For more information:

<http://dl.acm.org/citation.cfm?id=1743546.1743569>

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11. Yazdansepas D, Niazi AH, Gay JL, Maier FW, Ramaswamy L, Rasheed K, **Buman MP**. A multi-featured approach for wearable sensors-based human activity recognition. *2016 IEEE International Conference on Healthcare Informatics (ICHI)*. 2016.
10. Niazi AH, Yazdansepas D, Gay JL, Maier FW, Ramaswamy L, Rasheed K, **Buman MP**. A hierarchical meta-classifier for human activity recognition. *International Conference on Machine Learning and Applications*. 2016.
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6. Dutta A, Ma O, Bliss DW, **Buman MP**. Learning Approach for Classification of GENEactiv Accelerometer Data for Unique Activity Identification. *Body Sensor Networks Conference*. 2016.
5. Hu F, Smeaton AF, Newman E, **Buman MP**. Using periodicity intensity to detect long term behaviour change. *Proceedings of the 2015 ACM International Joint Conference on Pervasive and Ubiquitous Computing and Proceedings of the 2015 ACM International Symposium on Wearable Computers*. 2015:1069-1074.
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## BOOK CHAPTERS

4. Mullane SL, Pereira MA, **Buman MP**. Sedentary Behaviour at the Community Level: Correlates, Theories, and Interventions. In: Sedentary Behaviour Epidemiology. Springer; 2018:509-543. doi:10.1007/978-3-319-61552-3\_16
3. Scales R, **Buman MP**. Paradigms of lifestyle medicine and wellness. In: Mechanick J, Kushner R, eds. *Lifestyle medicine – Manual for clinical practice*. New York: Springer, 2016.
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1. King AC, **Buman MP**, Hekler EB. Physical activity strategies in populations. In: Green L, Kahan S, Gielen A, Fagan P, eds. *Health behavior change in populations: The state of the evidence and roles for key stakeholders*. Baltimore: Johns Hopkins University Press; 2014. (*MPB and EBH contributed equally to this chapter, with the order of co-authorship listed alphabetically*)

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## PEER-REVIEWED ENCYCLOPEDIA ENTRIES

2. **Buman MP**, Hekler EB. Mixed-effects models. *Encyclopedia of Quality of Life Research*. 2014.
1. Hekler EB, **Buman MP**. Power to detect meaningful effects. *Encyclopedia of Quality of Life Research*. 2014.

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## INTERNATIONAL PEER-REVIEWED ABSTRACTS AND CONFERENCE PRESENTATIONS

### **2018 (n total = 6; n first author = 3)**

32. **Buman MP**. Implementation outcomes in a large workplace sedentary behavior cluster randomized trial. Paper presented at the International Society of Physical Activity and Health, October 2018.
31. **Buman MP**. Health promotion across the 24 hours: New messages and strategies for sleep, sedentary and more active behaviors. Paper presented at the International Society of Physical Activity and Health, October 2018.
30. Dogra S, Good J, **Buman MP**, Gardiner P, Stickland M, Copeland J. Movement Behaviours and the Age Associated Decline in Lung Function. Paper presented at the International Society of Behavioral Nutrition and Physical Activity, Hong Kong, China, June 2018.
29. Nguyen NH, **Buman MP**, Moore MM, Rosenberg DE, Reeves MM, Boyle T, Vallance JK, Friedenreich CM, English DR, Lynch BM. Effects of a wearable technology-based physical activity/sedentary intervention on sleep quality: the ACTIVATE trial. Paper presented at the International Society of Behavioral Nutrition and Physical Activity, Hong Kong, China, June 2018.
28. Dogra S, Good J, **Buman MP**, Gardiner P, Copeland J, Stickland M. Movement behaviours and clinically relevant measures among adults with obstructive lung conditions: A cross-sectional analysis of the Canadian Longitudinal Study on Aging. Paper presented at the International Society of Behavioral Nutrition and Physical Activity, Hong Kong, China, June 2018.

27. **Buman MP**, Hadgraft N, Dempsey P, Owen N, Dunstan D, Lynch B. Associations of context-specific sitting time with cardio-metabolic risk and glucose tolerance in Australian Adults. Paper presented at the International Society of Behavioral Nutrition and Physical Activity, Hong Kong, China, June 2018.

**2017 (n total = 7; n first author = 1)**

26. Florez Pregonero A, **Buman MP**, Hooker SP, Riviere F, De Souza M, Ainsworth B. Accuracy of the GENEActiv and Actigraph to classify posture-based sedentary behavior estimates in free-living settings. Paper Submitted to the Centro de Estudos do Laboratório de Aptidão Física de São Caetano do Sul – CELAFISCS, Sau Paulo, Brazil, October 2017.
25. Gupta M, Salazar E, Wang Q, Toledo ML, **Buman MP**, Turaga P. Detection of obstructive sleep apnea events from a wearable sensor using dynamical analysis. Paper presented at the International Conference on Ambulatory Monitoring of Physical Activity and Movement, Bethesda, MD, June 2017.
24. Duncan B, Florez Pregonero A, Toledo ML, **Buman MP**. Free-living validity of the Zephyr Bioharness 3 measuring energy expenditure relative to the physical activity compendium. Paper presented at the International Conference on Ambulatory Monitoring of Physical Activity and Movement, Bethesda, MD, June 2017.
23. Healy G., Gommersall S, Winkler E, **Buman MP**. Using activity monitors to develop, evaluate and refine whole-day interventions. Paper presented at the International Conference on Ambulatory Monitoring of Physical Activity and Movement, Bethesda, MD, June 2017.
22. Toledo ML, Wang Q, Florez-Pregonero A, Ainsworth BA, Turaga P, **Buman MP**. Validity of a statistical estimation framework for energy expenditure estimation of lab-based and free-living physical activities from a wrist-worn accelerometer. Paper presented at the International Conference on Ambulatory Monitoring of Physical Activity and Movement, Bethesda, MD, June 2017.
21. **Buman MP**. The isotemporal substitution paradigm: Opportunities and limitations for estimating 'replacement' effects in 24 hour sensor data. Paper presented at the International Conference on Ambulatory Monitoring of Physical Activity and Movement, Bethesda, MD, June 2017.
20. Johnson ST, Mathe N, Avedzi H, **Buman MP**, Vallance JK, Johnson JA. Sleep duration and quality and dietary intake among older adults with type 2 diabetes. Paper presented at the International Society of Behavioral Nutrition and Physical Activity, Victoria, British Columbia, Canada, June 2017.

**2016 (n total = 1; n first author = 0)**

19. Lynch BM, Lynch C, Rosenberg D, Cadmus-Bertram L, **Buman MP**. Wearable technology for increasing physical activity and reducing sedentary behavior in chronic disease populations: help or hype? Symposium presented at the World Congress on Active Aging, Melbourne, Australia, June 2016.

**2015 (n total = 6; n first author = 2)**

18. **Buman MP**, *Hu F*, *Newman E*, Smeaton E, Epstein DR. Behavioral periodicity detection from 24h waveform wrist accelerometry. Paper presented at the 4th International Conference on Ambulatory Monitoring of Physical Activity and Movement, Limerick, Ireland, June 2015.
17. Boyle T, Vallance JK, **Buman MP**, Lynch BM. Reallocation of sleep, sedentary, and active behaviors on waist circumference in breast cancer survivors: An isotemporal substitution analysis. Paper presented at the 4th International Conference on Ambulatory Monitoring of Physical Activity and Movement, Limerick, Ireland, June 2015.
16. **Buman MP**, Smuck M, Kao MC, Tomkins-Lane C, Ma A, Haskell WL. Objective measures of physical performance normalize following surgery for lumbar spinal stenosis. Paper presented at the 4th



International Conference on Ambulatory Monitoring of Physical Activity and Movement, Limerick, Ireland, June 2015.

15. Manini T, Tudor-Locke C, Axtell R, **Buman MP**, Fielding R, Glynn N, Hire D, Guralnik J, King AC, White D, Miller M, Siddique J, Brubaker P, Rejeski WJ, Ranshous S, Kheirkahan M, Pahor M, Ranka S. Actigraphy features for predicting mobility function in older adults. Paper presented at the 4th International Conference on Ambulatory Monitoring of Physical Activity and Movement, Limerick, Ireland, June 2015.
14. King AC, Winter SJ, Goldman-Rosas L, Sheats JL, Salvo D, **Buman MP**, Moran M. Harnessing the power of 'citizen scientists' to promote active living in underserved communities using the Stanford Discovery Tool. Paper presented at the International Society of Behavioral Nutrition and Physical Activity, Edinburgh, Scotland, May 2015.
13. Ehlers D, Huberty JL, **Buman MP**, Hooker S, Todd M, de Vreede GJ. Acute relationships between daily self-efficacy, physical activity, and self-worth in middle-aged women. Paper presented at the International Society of Behavioral Nutrition and Physical Activity, Edinburgh, Scotland, May 2015.

**2014 (n total = 1; n first author = 0)**

12. Floegel T, Giacobbi PR, Dzierzewski JD, Aiken-Morgan A, Roberts B, Marsiske M, McCrae CS, **Buman MP**. A mixed-method approach to identifying intervention-related markers of long-term physical activity maintenance in older adults. Presented at the International Society for Behavioral Nutrition and Physical Activity, May 2014, San Diego, CA.

**2013 (n total = 9; n first author = 3)**

11. **Buman MP**, Kline CE, Youngstedt SD, Phillips B, de Mello MT, Hirshkowitz M. Sitting time associations with sleep and apnea risk: Results from the 2013 National Sleep Foundation Sleep in America Poll. Presented at the International Conference on Physical Activity and Public Health, April 2014, Rio de Janeiro, Brasil.
10. **Buman MP**, Gordon A, Swan P, Der Ananian C. A theory-based pilot study to decrease sitting time in the workplace. Presented at the International Conference on Physical Activity and Public Health, April 2014, Rio de Janeiro, Brasil.
9. Vallance J, **Buman MP**, Stevinson C, Lynch B. Associations of accelerometer-assessed sedentary time with sleep: NHANES (2005-2006). Presented at the International Conference on Physical Activity and Public Health, April 2014, Rio de Janeiro, Brasil.
8. **Buman MP**, Cellini N, McDevitt EA, Gutierrez M, Brinkman J, Ricker A, Mednick SC. Free-living cross validation of Actigraph-GT3x+ and Actiwatch-64 for 24h monitoring in healthy young adults. Presented at the International Conference on Ambulatory Monitoring of Physical Activity and Movement, June 2013, Amherst, MA.
7. Salazar E, Parish JM, Brinkman J, Spillman A, Hekler EB, Baldwin CM, Miller B, **Buman MP**. Validation of the Zephyr Bioharness to measure obstructive sleep apnea compared to laboratory-based polysomnography. Presented at the International Conference on Ambulatory Monitoring of Physical Activity and Movement, June 2013, Amherst, MA.
6. Manini TM, Tudor-Locke C, Ambrosius WT, Axtell R, **Buman MP**, Fielding R, Glynn N, Haskell WL, Hire D, King AC, Marsh A, White D, Miller ME, Siddique J, Pahor M. Comparison of generalized and individualized approaches to estimating physical activity using accelerometers in older adults. Presented at the International Conference on Ambulatory Monitoring of Physical Activity and Movement, June 2013, Amherst, MA.

5. Giacobbi PR, *Floegel T*, Dzierzewski JM, Aiken Morgan A, Roberts BL, McCrae CS, Marsiske M, **Buman MP**. Evaluation of need satisfaction as an intervention strategy in a peer-assisted physical activity trial. Paper presented at the International Conference on Self-Determination Theory, June 2013, Rochester, NY.
4. Smuck M, **Buman MP**, Martinez-lth A, Haskell WL, Kao MJ. Surgical decompression of lumbar spinal stenosis normalizes impairment in objective measures of physical activity: A case-control study. Presented at the International Society for the Study of the Lumbar Spine, May 2013, Scottsdale, AZ.
3. Smuck M, **Buman MP**, Martinez-lth A, Haskell WL, Kao MJ. Correlations between self-report, laboratory, and accelerometry measures 6-months following decompression surgery for lumbar spinal stenosis. Presented at the International Society for the Study of the Lumbar Spine, May 2013, Scottsdale, AZ.

**2012 (n total = 2; n first author = 1)**

2. **Buman MP**, *Kurka J*, Winkler EH, Gardiner P, Hekler EB, Healy G, Owen N, Baldwin C, Ainsworth B. Estimated replacement effects of accelerometer-derived physical activity and self-reported sleep duration on chronic disease biomarkers. Presented at the International Congress on Physical Activity and Public Health, November 2012, Sydney, New South Wales, Australia.
1. King AC, Hekler EB, Grieco LA, Winter SJ, **Buman MP**, Banerjee B, Cirimele J, Robinson TN, Meziar B, Chen F. Promoting physical activity through motivationally distinct mobile phone applications. International Congress of Behavioral Medicine, August 2012, Budapest, Hungary.

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**NATIONAL PEER-REVIEWED ABSTRACTS AND CONFERENCE PRESENTATIONS**

**2018 (n total = 13; n first author = 2)**

124. Toledo MJL, Mullane SL, Phatak S, Hekler EB, **Buman MP**. Momentary affective predictors of sedentary and active behaviors in the workplace. Paper presented at the Society of Behavioral Medicine Annual Meeting, New Orleans, LA, April 2018.
123. Wharton C, Leischow S, **Buman MP**, Liss J, Broman T, McCullough M, Sanchez A, Jones M, Kessler R, Barto H, Scotch H, Buhrman Y, Helitzer D. Syncopated pandemonium: Redesigning a college for translational science and learning. Paper presented at the Science of Team Science Conference, Galveston, TX, 2018.
122. Meyer J, Ellingson L, **Buman MP**, Shook R, Hand G, Blair S. Effects of isotemporal substitution of sedentary time (total and prolonged bouts) on mental wellbeing. Paper presented at the American College of Sports Medicine Annual Meeting, Minneapolis, MN, May 2018.
121. Larouche ML, Toledo MJL, Mullane SL, Hasanaj K, Rydell SA, Pereira MA, **Buman MP**. Impact on 3-month changes in sedentary time and light-intensity physical activity on subjective sleep quality. Paper presented at the American College of Sports Medicine Annual Meeting, Minneapolis, MN, May 2018.
120. Toledo MJL, Mullane SL, Phatak SS, Hadjimichael M, Hekler EB, **Buman MP**. Informing workplace sedentary behavior interventions through momentary affective states and email-based prompts. Paper presented at the American College of Sports Medicine Annual Meeting, Minneapolis, MN, May 2018.
119. Mullane SL, Rydell SA, Larouche ML, Toledo MJL, Feltes LH, Vuong B, Crespo NC, Pereira MA, **Buman MP**. Recruitment strategies for cluster randomized trials targeting workplace sedentary behavior – a retrospective review. Paper presented at the American College of Sports Medicine Annual Meeting, Minneapolis, MN, May 2018.

118. **Buman MP**. Stand & Move at Work group randomized trial: Design and rationale. Paper presented at the American College of Sports Medicine Annual Meeting, Minneapolis, MN, May 2018.
117. Dutta N, Mitchell NR, Rydell SA, Toledo MJL, Mullane SL, Larouche ML, **Buman MP**, Pereira MA. Sitting time and quality of life in office workers undergoing a sedentary behavior intervention. Paper presented at the American College of Sports Medicine Annual Meeting, Minneapolis, MN, May 2018.
116. Brito JN, Mitchell NR, Rydell SA, Mullane SL, Toledo MJL, Larouche ML, **Buman MP**, Pereira MA. Effect of a worksite sedentary behavior intervention on energy intake in adult men and women. Paper presented at the American College of Sports Medicine Annual Meeting, Minneapolis, MN, May 2018.
115. Hasanaj K, Toledo MJL, Mullane SL, Larouche ML, Rydell SA, Pereira MA, **Buman MP**. Within-day trajectories of sedentary time at work among sedentary office workers. Paper presented at the American College of Sports Medicine Annual Meeting, Minneapolis, MN, May 2018.
114. **Buman MP**. Promoting Physical Activity across levels of impact: Review & synthesis for physical activity guidelines: Sedentary behavior. Paper presented at the American College of Sports Medicine Annual Meeting, Minneapolis, MN, May 2018.
113. Gavin KL, Linde JA, Sherwood NE, Wolfson J, **Buman MP**, Pereira MA. Weight status differences in light intensity physical activity increases from a workplace behavioral intervention. Paper presented at the American College of Sports Medicine Annual Meeting, Minneapolis, MN, May 2018.
112. Perez E, Dzierzewski JM, Aiken-Morgan, AT, McCrae CS, **Buman MP**, Giacobbi PR, Roberts BL, Marsiske M. Does Good Sleep Efficiency Protect Against the Cognitive Consequences of Anxiety Symptoms in Older Adults? SLEEP annual conference, Baltimore, MD, June 2018.

**2017 (n total = 14; n first author = 1)**

111. Grah SC, Dzierzewski JM, Ravyts SG, **Buman MP**, Aiken-Morgan AT, Giacobbi PR, Roberts BL, Marsiske M, McCrae CS. General and domain-specific self-efficacy and sleep in older adults. SLEEP annual conference, Boston, MA, June 2017.
110. Ravyts SG, Dzierzewski JM, Grah SC, **Buman MP**, Aiken-Morgan AT, Giacobbi PR, Roberts BL, Marsiske M, McCrae CS. Is pain inconsistency or overage pain more associated with sleep in older adults? SLEEP annual conference, Boston, MA, June 2017.
109. Roman G, **Buman MP**. What predicts graduation success from a physical therapy education program? Paper presented at the American Physical Therapy Educational Leadership Conference, Columbus, OH, October 2017.
108. Zeigler Z, Swan P, Angadi S, Moukaddam F, **Buman MP**. Hemodynamic response to acute and chronic exercise in obese and lean prehypertensive men. Paper presented at the American College of Sports Medicine Annual Meeting, Denver, CO, May 2017.
107. **Buman MP**. Health promotion across the 24 hours: Biobehavioral synergies among sleep, sedentary, and more active behaviors. Paper presented at the American College of Sports Medicine Annual Meeting, Denver, CO, May 2017.
106. Whitaker KM, Odegaard AO, Carpenter KC, Jacobs DR, Sidney S, **Buman MP**, Pereira MA. Sedentary behavior and cardiometabolic risk, An isometabolic substitution analysis. Paper presented at the American College of Sports Medicine Annual Meeting, Denver, CO, May 2017.

105. Toledo ML, Mullane SL, Larouche ML, Rydell S, Pereira M, **Buman MP**. Workplace sedentary behavior questionnaire: validity and responsiveness to change. Paper presented at the American College of Sports Medicine Annual Meeting, Denver, CO, May 2017.
104. Moreno K, Swan PD, **Buman MP**, Zeigler Z. Association of cardiorespiratory fitness visceral fat, and weight cycling in pre-menopausal women. Paper presented at the American College of Sports Medicine Annual Meeting, Denver, CO, May 2017.
103. Huwa KE, Sawyer BJ, **Buman MP**, Gaesser GA. Effects of high-intensity interval training and moderate-intensity continuous training on sleep in sedentary obese adults. Paper presented at the American College of Sports Medicine Annual Meeting, Denver, CO, May 2017.
102. Eckert R, Huberty JL, Gowin K, Larkey L, **Buman MP**, Mesa R. Description of physical activity levels among myeloproliferative neoplasm patients engaging in an online yoga intervention. Paper presented at the Society of Behavioral Medicine Annual Meeting, San Diego, CA, April 2017.
101. Larouche ML, Mullane SL, Toledo MJ, Rydell SA, Feltes L, Vuong B, Bryant A, Crespo NC, Pereira MA, **Buman MP**. Objectively measured e-newsletter engagement and workplace sedentary behavior. Paper presented at the Society of Behavioral Medicine Annual Meeting, San Diego, CA, April 2017.
100. Toledo ML, Mullane SL, Rydell SA, Larouche ML, **Buman MP**, Pereira MA. Ecological momentary correlates of workplace sedentary behavior. Paper presented at the Society of Behavioral Medicine Annual Meeting, San Diego, CA, April 2017.
99. Mullane SL, Toledo ML, Rydell SA, Feltes L, Vuong B, Crespo NC, Pereira MA, **Buman MP**. Environmental and individual level correlates of sedentary behavior in the workplace. Paper presented at the Society of Behavioral Medicine Annual Meeting, San Diego, CA, April 2017.
98. Troxel WM, **Buman MP**, Beckman R, Ghosh-Dastidar B, Buysse DJ, Hale L, Dubowitz T. Perceived neighborhood disadvantage is associated with poorer objectively measured sleep efficiency in a probability sample of African American adults. Paper presented at the *American Psychosomatic Society* annual meeting, Sevilla Spain, March 2017.

**2016 (n total = 10; n first author = 2)**

97. Scales R, Lew K, Parker C, **Buman MP**, Akalan C, Vucicevic D, Steidley E, Raad A, Lester S. Connected Health Exercise Consultations in a Heart Failure Telemanagement Program. Paper presented at the American Association of Cardiovascular and Pulmonary Rehabilitation Annual Meeting, New Orleans, LA, September 2016.
96. Floegel T, **Buman MP**. Feasibility of Activity Monitor Use During and After Hospitalization in Older Heart Failure Patients. Paper presented at the Gerontological Society of America annual meeting, Denver, COL, November 2016.
95. Floegel T, Dickinson J, Der Ananian C, McCarthy M, Hooker S, **Buman MP**. Posture, ambulation, and 30-day readmission and function in older patients with heart failure. Paper presented at the Heart Failure Society of America annual conference, Orlando, FL, September 2016.
94. Corbett DB, Chen Z, Tudor-Locke C, **Buman MP**, Marsh AP, Gill TM, Hsu F, Pahor M, Manini TM. Using hip-worn accelerometry to predict walking speed in older adults: Results from the LIFE study. Paper presented at the Gerontological Society of America Annual Meeting, Denver, CO, November 2016.

93. Floegel T, **Buman MP**. Posture, ambulation, and hospital length of stay in older adults with heart failure. Paper presented at the Southern Nursing Research Society annual conference, Williamsburg, VA, February 2016.
92. Mullane SL, Toledo MJ, Rydell S, Feltes L, Vuong B, Crespo NC, Pereira M, **Buman MP**. Environmental and individual level correlates of sedentary behavior in the workplace. Paper presented at the American College of Sports Medicine Annual Meeting, Boston, MA, May 2016.
91. Toledo MJ, Hekler EB, Hollingshead K, Epstein DR, **Buman MP**. Accuracy of a smartphone-based "App" for the assessment of sedentary and more active behaviors. Paper presented at the American College of Sports Medicine Annual Meeting, Boston, MA, May 2016.
90. Mullen SP, Cohen JD, Bullard T, Woods J, Wilund K, Schroyer R, Angadi SS, **Buman MP**, Wong B. Effects of exercise combined with thermal therapy on blood pressure and psychosocial outcomes: A pilot RCT. Paper presented at the Annual Meeting for the Society for Behavioral Medicine. Washington, DC, April 2016.
89. **Buman MP**, Park A, Zhu W, Diemar R, Gutierrez M, Pereira M, Crespo N, Buman K. Long-term effects of sit-stand workstations on workplace sedentary time and cardiometabolic health: A natural experiment. Paper presented at the Society of Behavioral Medicine Annual Meeting, Washington, DC, April 2016.
88. **Buman MP**, Epstein DR, Hekler EB, Herb C, Hekler A, Gutierrez M, Vega Lopez S, Ohri-Vachaspati P, Hollingshead K. Validation of the Stanford Leisure-Time Activity Categorical Item as a Screening Tool for Sedentary Behavior. Paper presented at the Society of Behavioral Medicine Annual Meeting, Washington, DC, April 2016.

**2015 (n total = 12; n first author = 3)**

87. **Buman MP**, Epstein DR, Herb C, Hollingshead K, Hekler EB, Hekler EC, Baldwin CM, Ohri-Vachaspati P, Vega-Lopez S, Babcock-Parziale J. BeWell24: Development and evaluation design of a smartphone application for US Veterans with metabolic syndrome. Paper presented at the Society of Behavioral Medicine Annual Meeting, San Antonio, TX, April 2015.
86. **Buman MP**. Smartphones and wearables: Extending the reach of the clinic for physical activity promotion. Paper presented at the Society of Behavioral Medicine Annual Meeting, San Antonio, TX, April 2015.
85. Zeigler Z, Mullane S, Crespo N, **Buman MP**, Gaesser GA. Accumulation of light-intensity activity or standing during a workday reduces ambulatory blood pressure in prehypertension. Paper presented at the American College of Sports Medicine, San Diego, CA, June 2015.
84. Mullane S, Crespo N, Zeigler Z, **Buman MP**, Gaesser GA. Blood Glucose Response to Intermittent Posture Change and Light Activity During an 8hr Work Day. Paper presented at the American College of Sports Medicine, San Diego, CA, June 2015.
83. Rosenberger M, **Buman MP**, Haskell WL, Carstensen L. 24-hour measurement of sleep, sedentary, and physical activity behaviors with wearable monitors. Paper presented at the American College of Sports Medicine, San Diego, CA, June 2015.
82. **Buman MP**, Epstein DR, Baldwin CM, Herb C, Hollingshead K, Gutierrez M, Hekler EB, Ohri-Vachaspati P, Vega-Lopez S, Babcock-Parziale J. Design and iterative testing of a sleep/physical activity smartphone app for US Veterans. Paper presented at the SLEEP Annual meeting, Seattle, WA, June 2015.

81. Ehlers DK, Huberty JL, **Buman MP**, de Vreede GJ, Todd M, Hooker S. Feasibility of employing widely available technology for ecological momentary assessment. Paper presented at the Society of Behavioral Medicine, San Antonio, TX, April 2015.
80. Ehlers DK, Huberty JL, **Buman MP**, Todd M, Hooker S, de Vreede GJ. Temporal relationships between self-worth and physical activity in middle-aged women. Paper Session Society of Behavioral Medicine, San Antonio, TX, April 2015.
79. Ehlers DK, Huberty J, **Buman MP**, Hooker S, de Vreede GJ, Todd M. Is physical activity type related to immediate perceptions of self-worth in middle-aged women? Poster Session Society of Behavioral Medicine, San Antonio, TX, April 2015.
78. Melton BM, **Buman MP**, Wilson CW, Bigham LB. Feasibility and Acceptability of Smartphone as an Intervention Tool for Late Adolescent African American Females in an Experimental Physical Activity Study. Georgia SHAPE. Athens, GA, October 2015.
77. Melton BM, **Buman MP**, Bland HB, Harris BH, Bigham LB. Efficacy of Jawbone UP for improving physical activity and sleep in young African American women. Paper Session Society of Behavioral Medicine, San Antonio, TX, April 2015.
76. Melton BM, **Buman MP**, Bland H, Harris BS, Chandler K. Feasibility of Mobile Phones linked Accelerometers in Young African American Women: A Experimental Study. Southern District SHAPE America, Atlanta, GA, February 2015.

**2014 (n total = 11; n first author = 1)**

75. Kline CE, **Buman MP**, Youngstedt SD, Phillips B, de Mello, MT, Hirshkowitz M. Self-reported physical activity intensity and sleep apnea risk: The 2013 'Sleep in America' poll. Presented at the American College of Sports Medicine, May 2014, Orlando, FL.
74. **Buman MP**, Hekler EB, Floegel T, Florez Pregonero A, Gutierrez M, Riley K. Step validation of a commercially-available wrist-worn accelerometer in normal, overweight, and obese adults. Presented at the American College of Sports Medicine, May 2014, Orlando, FL.
73. Kurka JM, **Buman MP**, Crespo NC, Ainsworth BE. Moderate-to-vigorous physical activity and sleep duration associate with greater odds of hypertension: NHANES 2005-2006. Presented at the American College of Sports Medicine, May 2014, Orlando, FL.
72. Ehlers D, Huberty J, Todd M, **Buman MP**, Hooker S, de Vreede GJ. Feasibility of a simple, inexpensive ecological momentary assessment to examine relationships between self-worth and physical activity. Presented at the Society of Behavioral Medicine, April 2014, Philadelphia, PA.
71. King AC, Hekler EB, Winter SJ, Grieco LA, Sheats JL, **Buman MP**. Harnessing the potential of mobile devices in promoting healthy lifestyles: Highlighting current evidence and perspectives. Presented at the Society of Behavioral Medicine, April 2014, Philadelphia, PA.
70. Gordon AA, Swan P, Der Ananian C, **Buman MP**. A theory-based approach to decreasing sitting time in the workplace: A randomized controlled pilot trial. Presented at the Society of Behavioral Medicine, April 2014, Philadelphia, PA.
69. Floegel TA, Florez Pregonero A, Hekler EB, **Buman MP**. Simultaneous validation of five consumer-based wearable monitors in older adults with varied ambulatory abilities. Presented at the Gerontological Society of America, November 2014, Washington, D.C.
68. Petrov M, **Buman MP**. Sleep duration associated with markers of kidney function in persons without kidney disease: NHANES 2007-2010. Presented at SLEEP, May 2014, Minneapolis, MN.

67. Petrov M., **Buman MP**, Grander M, Youngstedt SD, Baldwin CM. Short sleep duration is associated with greater homocysteine levels. Presented at the American Heart Association Annual Meeting, November 2014, Chicago, IL.
66. Tucker WJ, Bhammar DM, Sawyer BJ, **Buman MP**, Gaesser GA. Validity and reliability of consumer-based physical activity monitoris for estimating energy expenditure during physical activity in older adults. Presented at the Southwest Chapter Meeting of the American College of Sports Medicine, October 2014, Costa Mesa, CA.
65. Epstein DR, Babcock-Parziale J, **Buman MP**, Hekler EB, Herb CA, Hekler AC. Using Stakeholder Feedback to Modify a VA Smartphone App for Insomnia Self-Management in Iraq and Afghanistan Veterans. Presented at the VISN 18 Research Forum; August 2014; Tucson, AZ.

**2013 (n total = 11; n first author = 1)**

64. King AC, Hekler EB, Winter SJ, Grieco LA, Sheats JL, **Buman MP**. Harnessing the potential of mobile devices in promoting healthy lifestyles: Highlighting current evidence and perspectives. Presented at the Society of Behavioral Medicine, April 2014, Philadelphia, PA.
63. Gordon A, Swan P, Der Ananian CD, **Buman MP**. A theory-based pilot study to decrease sitting time in the workplace. Presented at the Society of Behavioral Medicine, April 2014, Philadelphia, PA.
62. Kelly SB, Hooker SP, Swan PD, **Buman MP**, Alvar BA, Black LE. Comparison of 1-repetition maximum in concentric and eccentric bench press. Presented at the Southwest Chapter of the American College of Sports Medicine Meeting, October 2013, Newport Beach, CA.
61. Winter SJ, Goldman Rosas L, Romero P, Sheats J, **Buman MP**, Perez C, Hesketh M, Umeh N, Chazar A, King AC. Citizen scientists crowd-source built environment data using innovative technology to advocate for improvements in a low-income immigrant neighborhood. Presented at the Active Living Research Conference, March 2014, San Diego, CA.
60. **Buman MP**, Bertmann F, Winter SJ, Wharton CM, Hekler EB, Sheats JL, King AC. Ethnographic study of shoppers' experiences at an urban farmers' market. Presented at the Society of Behavioral Medicine, March 2013, San Francisco, CA.
59. Giacobbi PR, **Buman MP**, Romney KJ, Klatt MR, Stoddard MJ. Scope, disease processes, and research methods employed with National Institutes of Health funded research in Kinesiology departments. Presented at the Society of Behavioral Medicine, March 2013, San Francisco, CA.
58. Grieco LA, Sheats JL, Winter SJ, Hekler EB, **Buman MP**, King AC. Changing discretionary sedentary leisure time using smartphone apps. Presented at the Society of Behavioral Medicine, March 2013, San Francisco, CA.
57. Hekler EB, Grieco LA, Winter SJ, Sheats, JL, **Buman MP**, King AC. Results of a randomized pilot trial of Calorific: A commercially available, diet-tracking smartphone application. Presented at the Society of Behavioral Medicine, March 2013, San Francisco, CA.
56. Kurka J, **Buman MP**, Gevirtz B, Erickson S, Overlin A, Ainsworth BE. Assessment of eating behavior patterns using factor analysis in NCAA athletes. Presented at the American College of Sports Medicine, May 2013, Indianapolis, IN.
55. Sheats JL, Winter SJ, Grieco LA, Hekler EB, **Buman MP**, King AC. Design and testing of health-promoting mobile applications: User experience (UE) and satisfaction among mid-life and older adults. Presented at the Society of Behavioral Medicine, March 2013, San Francisco, CA.

54. Winter SJ, Sheats JL, Grieco LA, Hekler EB, **Buman MP**, King AC. A naturalistic study exploring continued use of smartphones to promote less sedentary behavior over time. Presented at the Society of Behavioral Medicine, March 2013, San Francisco, CA.

**2012 (n total = 10; n first author = 3)**

53. **Buman MP**, Goodrich DE, Richardson CR, Ainsworth BE, King AC. Planning an evidence-based population-level physical activity program for the Exercise is Medicine initiative. Presented at the Society of Behavioral Medicine, April 2012, New Orleans, LA.
52. **Buman MP**, Martinez Ith MA, Haskell WL, Smuck M. Accelerometer- derived physical activity and lower extremity functional changes in patients undergoing spinal decompression surgery. Presented at the American College of Sports Medicine, May 2012, San Francisco, CA.
51. **Buman MP**, Sheats, JL, Winter, SJ, Hekler, EB, Grieco, LA, Otten, JJ, King AC. The Stanford Healthy Neighborhood Discovery Tool: A computerized audit tool to assess neighborhood barriers and facilitators for physical activity. Paper presented at the Society of Behavioral Medicine, April 2012, New Orleans, LA.
50. Dzierzewski JM, Marsiske M, **Buman MP**, Aiken Morgan AT, Giacobbi PR, Roberts BL, McCrae CS. Intensive Cognitive Practice in Older Adults: Gains, Structure, Predictors, and Transfer, Presented at the Gerontological Society of America, November 2012, San Diego, CA.
49. Dzierzewski JM, Marsiske M, **Buman MP**, Aiken Morgan AT, Giacobbi PR, Roberts BL, McCrae CS. Sleep and Practice-Related Learning in Community-Dwelling Older Adults. Presented at SLEEP, June 2012, Boston, MA.
48. King AC, Hekler EB, Grieco LA, Winter SJ, **Buman MP**, Banerjee B. Mobile phone applications to promote physical activity increases: Preliminary results of the MILES pilot study. Presented at the Society of Behavioral Medicine, April 2012, New Orleans, LA.
47. King AC, Hekler EB, Grieco LA, Winter SJ, **Buman MP**, Banerjee B, Cirimele J, Robinson TN, Mezas B, Chen F. Preliminary Effects of Three Different Motivational Frames in Promoting Physical Activity Using Smartphones. Presented at the Medicine X Conference, October 2012, Palo Alto, CA.
46. Otten JJ, Hekler EB, **Buman MP**, Saelens BE, Krukowski RA, Gardner C, King AC. Food purchases and attitudes in response to toy giveaway legislation of adults and children at affected fast food restaurants in San Francisco, CA. American Public Health Association, October 2012, San Francisco, CA.
45. Otten JJ, Hekler E, **Buman MP**, Saelens BE, Krukowski RA, Gardner C, King AC. Response of Fast Food Restaurants to the First US Toy Ordinance: Year One Results. Presented at the Society of Behavioral Medicine, April 2012, New Orleans, LA.
44. Winter SJ, Sheats JL, **Buman MP**, Hekler EB, Otten JJ, Woof A, Youngman K, King AC. Stanford Healthy Neighborhood Discovery Tool: Reliability testing of a computerized tool used by older adults to audit their neighborhood environment. Presented at the American Public Health Association, October 2012, San Francisco, CA.

**2011 (n total = 6; n first author = 3)**

43. **Buman MP**, Giacobbi PR, Dzierzewski JM, Marsiske M, Aiken Morgan A, McCrae CM, Roberts BL. Peer volunteers improve maintenance of physical activity: A Randomized Controlled Trial. Paper presented at the Society of Behavioral Medicine, April 2011, Washington, DC.



42. **Buman MP**, Hannah J, Anderson J, Kim S, Stefanick M, King AC. Improved Physical Function and Quality of Life among Cancer Survivors Participating in a Community-Based “Living Strong Living Well” Program. Paper presented at the Society of Behavioral Medicine, April 2011, Washington, DC.
41. **Buman MP**, Palesh O, Doyle C, King AC. Associations between cancer screening and other health behaviors: Results from an ACS National Survey. Paper presented at the Society of Behavioral Medicine, April 2011, Washington, DC.
40. Hekler EB, **Buman MP**, Otten JJ, Castro C, Ahn D, Marcus B, Friedman R, King AC. Who responds better to a computer-delivered vs. human-delivered physical activity intervention? Paper presented at the Society of Behavioral Medicine, April 2011, Washington, DC.
39. Otten JJ, **Buman MP**, Krukowski R, Hekler EB, Saelens B, Gardner C, King AC. Changes at Fast-Food Restaurants in Response to the 2010 Santa Clara County, CA Toy Ordinance. Paper presented at the Society of Behavioral Medicine, April 2011, Washington, DC.
38. Winter S, **Buman MP**, Otten JJ, Hekler EB, King AC. Links between perceived social and built environments in a sample of older adult sliving in low-income communal senior housing. Paper presented at the Society of Behavioral Medicine, April 2011, Washington, DC.

**2010 (n total = 7; n first author = 1)**

37. **Buman MP**, Hekler EB, Bliwise DL, King AC. Exploring moderators and mediators of exercise-induced objective sleep improvements in older adults with sleep complaints. Paper presented at the Society of Behavioral Medicine, April 2010, Seattle, WA.
36. Giacobbi PR, **Buman MP**, Stoddard MJ. Evaluating the “gap” between research and practice with Kinesiology studies funded by the National Institutes of Health. Paper presented at the Society of Behavioral Medicine, April 2010, Seattle, WA.
35. Hekler EB, **Buman MP**, Castro CM, Prosak C, King AC. The choice study: A “taste-test” of utilitarian vs. leisure walking in older adults. Paper presented at the Society of Behavioral Medicine, April 2010, Seattle, WA.
34. Hekler EB, **Buman MP**, Dunton G, Atienza AA, King AC. Are daily fluctuations in perceived environment associated with walking? Paper presented at the Society of Behavioral Medicine, April 2010, Seattle, WA.
33. Hekler EB, **Buman MP**, Haskell W, Rosenberger M, King AC. Validity of Android-Based Mobile Phones as Assessment Devices of Physical Activity. Paper presented at the 2010 mHealth Summit, November 2010, Washington, DC.
32. King AC, Sallis JF, Frank LD, Saelens BE, Ahn DK, Conway TL, Cain, K, **Buman MP**, Hekler EB. The built environment and health in older adults; Associations between walkable neighborhoods, mobility impairment, and physical activity. Paper presented at the Society of Behavioral Medicine, April 2010, Seattle, WA.
31. Otten JJ, **Buman MP**, Kiernan M, Gardner C, King AC. Comparison of a Very Low-Carbohydrate Diet and a Low-Fat Diet on Eating-Related Disinhibition, Restraint, and Hunger. Paper presented at The Obesity Society, October 2010, San Diego, CA.

**2009 (n total = 6; n first author = 2)**

30. **Buman MP**, Giacobbi PR, Dzierzewski JM, Marsiske M, Aiken Morgan AT, Roberts BL, McCrae CS. A Peer-Assisted Social Cognitive Based Physical Activity Intervention for Older Adults. Paper presented at the Society of Behavioral Medicine, April 2009, Montreal, Quebec, Canada.
29. **Buman MP**, Giles-Corti B, Hekler EB, Saelens BE, Frank LD, Sallis JF, King AC. Evaluating physical activity differences by housing setting in community-dwelling seniors: Social and perceived built

environmental influences. Paper presented at the Active Living Research Conference, February 2009, San Diego, CA.

28. Dzierzewski JM, McCrae CS, Marsiske M, Aiken Morgan AT, **Buman MP**, Giacobbi, PR, Roberts, BL. A Growth Model Approach to the Examination of Cognitive Intraindividual Variability in Older Adults: Does Cognitive Inconsistency Reflect Cognitive Vulnerability or Adaptability? Paper presented at the meeting of the American Psychological Association, April 2009, Toronto, Ontario, Canada.
27. Giacobbi PR, **Buman MP**, Hausenblas HA, & Stoddard MJ. Evaluating the “gap” between research and practice with Kinesiology studies funded by the National Institutes of Health. Paper presented at the Society of Behavioral Medicine, April 2009, Montreal, Quebec, Canada.
26. Hekler EB, **Buman MP**, Haskell WL, Sallis JF., Frank L, Saelens BE, King AC. Descriptive analysis of the CHAMPS Physical Activity Questionnaire with a large sample of older adults. Paper presented at the Society of Behavioral Medicine, April 2009, Montreal, Quebec, Canada.
25. King AC, Castro CM, Pruitt LA, Ahn D, Prosak C, **Buman MP**, Hekler EB. Optimizing diet and exercise changes in chronically stressed adults: Major results of the CALM trial. Paper presented at the Society of Behavioral Medicine, April 2009, Montreal, Quebec, Canada.

**2008 (n total = 3; n first author = 1)**

24. **Buman MP**, Giacobbi PR, Dzierzewski JM, Marsiske M, Aiken Morgan AT, Roberts BL, McCrae CS. Predicting daily reports of leisure-time exercise from pain and fatigue in community-dwelling older adults. Paper presented at the Society of Behavioral Medicine, March 2008, San Diego, CA.
23. Dzierzewski JM, McCrae CS, Marsiske M, Aiken Morgan AT, **Buman MP**, Giacobbi PR, Roberts BL. A Growth Model Approach to the Examination of Cognitive Intraindividual Variability in Older Adults. Paper presented at the meeting of the Gerontological Society of America, November 2008, National Harbor, MD.
22. Giacobbi PR, **Buman MP**, Tuccitto DE, Dzierzewski JM. Predicting exercise behavior from stress appraisals and coping responses. Paper presented at the Society of Behavioral Medicine, March 2008, San Diego, CA.

**2007 (n total = 9; n first author = 3)**

21. Aiken Morgan AT, **Buman MP**, Dzierzewski JM, Marsiske M, Roberts BL, McCrae CS, Giacobbi PR. Relationship between aerobic fitness and executive cognitive function in sedentary, community-dwelling older adults. Paper presented at the meeting of the Gerontological Society of America, December 2007, San Francisco, CA.
20. Brown JD, Woods ER, **Buman MP**, Harris SK, Cox JE. Depression and social support over time in adolescent mothers. Presented at the Society of Adolescent Health and Medicine, 2007.
19. **Buman MP**, Giacobbi PR. Predicting daily reports of leisure-time exercise from stress appraisals and coping using a multilevel modeling approach. Paper presented at North American Society for the Psychology of Sport and Physical Activity, June 2007, San Diego, CA.
18. **Buman MP**, Giacobbi PR. Using the constructive narrative perspective to view avoidance and maintenance behaviors in physical activity among middle-aged and older adults. Paper presented at the meeting of the Association of Applied Sport Psychology, October 2007, Louisville, KY.
17. **Buman MP**, Tuccitto D, Munroe-Chandler K, Giacobbi PR. Barriers self-efficacy mediates the relationship between exercise imagery and exercise behavior. Paper presented at the Society of Behavioral Medicine, March 2007, Washington, DC.

16. Cox JE, Pierre-Joseph N, **Buman MP**, Valenzuela J, Mitchell AM, Vyavaharkar A, Federico A, Woods ER. The impact of psychoeducational parenting groups on adolescent parenting skills, self-esteem, depression and social support. Paper presented at Pediatric Academic Society, May 2007, Toronto, Canada.
15. Hubbard SL, Chow J, Tillman M, Giacobbi P, Stancil MA, Fournier K, **Buman MP**, Dietrich F, Levy CE. Characterizing successful pushrim-activated power-assist wheelchair (PAPAW) users. Paper presented at the meeting of the American Congress of Rehabilitation Medicine and American Society of Neuro-Rehabilitation Annual Conference, October 2007, Washington, DC.
14. Hubbard S, Levy CE, Giacobbi PR, Chow J, Stancil MA, Fournier K, **Buman MP**, Dietrich F, Tillman M. Using qualitative methods to characterize pushrim-activated power-assist wheelchair users. Paper presented at the meeting of the International Seating Symposium, March 2007, Orlando, FL.
13. Merrell RS, Hannah DJ, Van Arsdale AC, **Buman MP**, Rice KG. Emergent themes in the writing of perfectionists: A qualitative analysis. Paper presented at the meeting of the American Psychological Association, August 2007, San Francisco, CA.

**2006 (n total = 7; n first author = 3)**

12. **Buman MP**, Giacobbi PR. A theoretical integration of social cognitive theory and psychological skills training with older adults in an exercise setting. Paper presented at the meeting of the Association of Applied Sport Psychology, September 2006, Miami, FL.
11. **Buman MP**, Omli JW, Giacobbi PR, Brewer BW. Coping responses to hitting the wall for recreational marathon runners. Paper presented at the meeting of the American Psychological Association, August 2006, New Orleans, LA.
10. Giacobbi PR, **Buman MP**. A theoretically derived analysis of the Exercise Imagery Inventory – Revised. Paper presented at the meeting of the Association of Applied Sport Psychology, September 2006, Miami, FL.
9. Giacobbi PR, **Buman MP**. Fostering exercise frequency and intensity with older adults: Testing a new theoretically derived approach. Paper presented at the North American Society for the Psychology of Sport and Physical Activity, June 2006, Denver, CO.
8. Powers ME, **Buman MP**, Joseph N, Cox JE. Predictors of repeat pregnancies among adolescent mothers in a teen-tot clinic. Paper presented at Pediatric Academic Society, April 2006, San Francisco, CA.
7. Sherry MK, Keenan P, **Buman MP**, Michonski AT, Cox JE. Program evaluation of a young fathers program. Presented at Pediatric Academic Society, April 2006, San Francisco, CA.

**2005 (n total = 4; n first author = 2)**

6. **Buman MP**. Building character in sport: how to understand your child's motivation and capitalize on teachable moments. Paper presented at the meeting of the New England Fathering Conference, November 2005, Framingham, MA.
5. **Buman MP**, Valenzuela J, Missal SM, Cox JE. Rowing strong, rowing together: An innovative approach to combating depression in adolescent mothers of color. Paper presented at the meeting of the Association for the Advancement of Applied Sport Psychology, September 2005, Vancouver, BC.
4. Cox JE, **Buman MP**, Sherry MK, Michonski AT, Harris SK, Woods ER. Preliminary validation of a youth assets scale in a young fathers program. Presented at Pediatric Academic Society, May 2005, Washington, DC.

3. Cox JE, **Buman MP**, Valenzuela J, Missal SM. Findings and limitations of Rowing Strong, Rowing Together: An innovative approach to combating depression in adolescent mothers of color. Paper presented at the meeting of the Office of Adolescent Pregnancy Prevention Grantee Conference, August 2005, Washington, DC.

**2004 (n total = 1; n first author = 1)**

2. **Buman MP**, Hays K, Brown J, Giges B. Marathons from start to finish: research and practice. Paper presented at the meeting of the Association of the Advancement of Applied Sport Psychology, September 2004, Minneapolis, MN.

**2003 (n total = 1; n first author = 0)**

1. Newton M, **Buman MP**. An online study of marathoner's motives, achievement goals, and cognitive strategies. Paper presented at the Association for the Advancement of Applied Sport Psychology, September 2003, Philadelphia, PA.

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**SYMPOSIUM PANELIST/LEADER**

19. **Buman MP**. Stand and moving at work: Large-scale efficacy/effectiveness trials to reduce sitting and increase activity at work. Symposium presented at the American College of Sports Medicine Annual Meeting, Minneapolis, MN, May 2018.
18. Lewis B, Napolitano M, **Buman MP**, Williams D, Nigg C. The future of physical activity intervention research: Expanding focus to sedentary behavior, technology, and dissemination. Symposium presented at the Society of Behavioral Medicine, April 2017, San Diego, CA.
17. Hekler EB, **Buman MP**, Coleman A, Jain P. Strategies for integrating wearable technologies into behavior change interventions. Panel discussion presented at the Society of Behavioral Medicine, April 2016, Washington, DC.
16. **Buman MP**, Montonaro E. (co-chairs). Online and mHealth interventions. Paper session at the Society of Behavioral Medicine, April 2016, Washington, DC.
15. Cole-Lewis H, **Buman MP**, Ayzenberg Y. Accessing and analyzing non-traditional data: Challenges, considerations, and funding opportunities. Panel discussion presented at the Society of Behavioral Medicine, April 2015, San Antonio, TX.
14. **Buman MP**, Tate DF. (Co-Chairs). Adherence to self-monitoring. Paper session at the Society of Behavioral Medicine, April 2015, San Antonio, TX.
13. **Buman MP**. (Chair). Building and evaluating personal technology physical activity interventions in diverse populations. Paper session at the Society of Behavioral Medicine, April 2015, San Antonio, TX.
12. **Buman MP**, King AC, Marcus BH, Estabrooks PA. Use and misuse of randomized controlled trials in physical activity intervention research. Panel discussion presented at the Society of Behavioral Medicine, April 2015, San Antonio, TX.
11. **Buman MP**, King AC, Marcus BH, Motl R. "Compared to what?" Choosing the right control/comparison group in physical activity intervention research. Panel discussion presented at the Society of Behavioral Medicine, April 2014, Philadelphia, PA.
10. **Buman MP**, Goldstein MG, Rickman A, Richardson C, Craft LL. Evidence-based behavior change strategies for exercise specialists working in healthcare settings. Symposium presented at the American College of Sports Medicine, May 2014, Orlando, FL.

9. **Buman MP**, Williams DM. Physical Activity Special Interest Group Breakfast Roundtable. Conference meeting presented at the Society of Behavioral Medicine, April 2014, Philadelphia, PA.
8. **Buman MP**. Diet, Physical Activity, and Obesity among youth. Paper session chair at the Society of Behavioral Medicine, April 2014, Philadelphia, PA.
7. Marquez DX, **Buman MP**. Physical Activity Special Interest Group Breakfast Roundtable. Conference meeting presented at the Society of Behavioral Medicine, March 2013, San Francisco, CA.
6. Fitzpatrick S, **Buman MP**, Marquez DX, Gorin A, Marsh S, Michie S. Role of behavior change theories in behavioral interventions for obesity. Conference symposium at the Society of Behavioral Medicine, March 2013, San Francisco, CA.
5. Beatty DL, **Buman MP**, Forsythe LP, Hoy M, Revenson, TA (2012) How to get the most out of a postdoctoral fellowship in behavioral medicine: Choosing, using, and moving on. Panel discussion presented at the Society of Behavioral Medicine, April 2012, New Orleans, LA.
4. **Buman MP**, Hekler EB, Hunter R, Marquez DX, Otten JJ, Rufo M, Rung A, Winter SJ. Behavioral Medicine in Action: A practical experience in using environmental audit tools in research and applied settings. Pre-conference seminar presented at the Society of Behavioral Medicine, April 2012, New Orleans, LA.
3. Goodrich DE, Richardson CE, **Buman MP**, Jones K, Knight SK, Goldstein M. Translating Physical Activity and Weight Management Research into Population-Level Health Care Interventions. Conference symposium presented at the Society of Behavioral Medicine, April 2012, New Orleans, LA.
2. Grieco LA, Sheats JL, Winter SJ, **Buman MP**, Hekler EB, King, AC. Health technology development and research in older adults: Challenges and solutions. Panel discussion presented at the Society of Behavioral Medicine, April 2012, New Orleans, LA.
1. **Buman MP**, Winter SJ, King, AC. Senior advocacy for health: The Neighborhood Eating and Activity Advocacy Team Project. Presented with Aging Special Interest Group: Changing behavior in older adults: Using research to impact policy. Pre-conference Seminar presented at the Society of Behavioral Medicine, April 2011, Washington, DC.

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#### CREATIVE SCHOLARLY WORKS AND CONTRIBUTIONS TO POPULAR MEDIA

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27. Colorita, Rita (2018). Please don't be seated: How prolonged sitting hurts your health; plus, strategies to break up common sedentary bouts. Retrieved January 7, 2019. <https://www.weightwatchers.com/us/article/health-risks-sitting>.
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22. Flam, Faye (2018). Sitting is not worse than smoking: But we can agree that smoking all day while sitting all day would certainly be worse than not smoking a lot and not sitting a lot. Retrieved January 7, 2019. <https://www.bloomberg.com/opinion/articles/2018-10-22/sitting-is-not-worse-for-your-health-than-smoking>.
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20. Glaser, Georgina (2016). Too tired to stay awake and too tired to fall asleep. Retrieved March 20, 2016: <http://askforevidence.org/articles/too-tired-to-stay-awake-and-too-tired-to-fall-asleep>.
19. American College of Sports Medicine (2016). New brief recommends increased insurance coverage for exercise programming for individuals with mental illness. Retrieved January 16, 2016: <http://www.acsm.org/about-acsm/media-room/acsm-in-the-news/2016/01/07/new-brief-recommends-increased-insurance-coverage-for-exercise-programming-for-individuals-with-mental-illness>
18. Terrill, Marshall (2015). New smartphone app encourages vets to BeWell. Retrieved November 5, 2015: [https://asunow.asu.edu/20151105-solutions-new-smartphone-app-encourages-vets-bewell?utm\\_campaign=HUB\\_ASU+NOW+11-6-15&utm\\_medium=email&utm\\_source=Now%20publication%20list&utm\\_term=HUB&utm\\_content=%20https%3a%2f%2fasunow.asu.edu%2f20151105-solutions-new-smartphone-app-encourages-vets-bewell](https://asunow.asu.edu/20151105-solutions-new-smartphone-app-encourages-vets-bewell?utm_campaign=HUB_ASU+NOW+11-6-15&utm_medium=email&utm_source=Now%20publication%20list&utm_term=HUB&utm_content=%20https%3a%2f%2fasunow.asu.edu%2f20151105-solutions-new-smartphone-app-encourages-vets-bewell).
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13. **Buman MP**. (2014). Small Changes Big Rewards. Runner's World.
12. Juntti, M. (2014). Exercise at night won't hurt your sleep. Men's Journal. <http://www.mensjournal.com/health-fitness/exercise/exercise-at-night-won-t-hurt-your-sleep-20140320>.

11. Bond, A. (2014). Evening workouts don't disturb sleep. Reuters. <http://www.reuters.com/article/2014/02/26/us-evening-workouts-dont-disturb-sleep-idUSBREA1P1SE20140226>
10. **Buman MP**, Kline CE, Youngstedt SD. Is Sleep a sedentary behavior? Prioritizing the interplay of the full 24-hour spectrum of behaviors in sedentary behavior research. Request for Information (RFI) for High-Priority Research topics for Sedentary Behavior (NOT-HL-13-66), 2013.
9. Huberty J, **Buman MP**, Marquez DX. Society of Behavioral Medicine response to Physical Activity Guidelines for Americans Mid-Course Report: Strategies to Increase Physical Activity among Youth, March 2013.
8. *Bertmann FMW*, Ohri-Vachaspati P, **Buman MP**, Wharton CM. Letter to the Editor re: Implementation of wireless terminals at farmers' markets: Impact on SNAP redemption and overall sales. *American Journal of Public Health*. 2012;102(11):e2. 10.2105/AJPH.2012.300727.
7. **Buman MP**, Sheats JL, Winter SJ, Hekler EB, Grieco, LA, Otten JJ, King AC. Stanford Neighborhood Discovery Tool: A Computerized Audit Tool to Assess Neighborhood Barriers and Facilitators for Physical Activity. <http://youtu.be/HUqR4cZwz88>. Society of Behavioral Medicine Short Video Contest Entry. Producer: Benjamin Munson, April 2012, New Orleans, LA.
6. Senick, Joel. (2012) *Efforts to revolutionize physical fitness*. 90.9 WBUR : Boston's NPR news station. Aired throughout May 2012: <http://worldofideas.wbur.org/2012/05/20/innovation>.
5. PRWeb. (2012). Programs that make exercise a form of medical therapy for large segments of the population. <http://www.prweb.com/releases/prweb2012/4/prweb9378333.htm>
4. **Buman MP**, Marquez DX, Lee R. Five ways to engage in physical activity-related policy: It's time to take action! Society of Behavioral Medicine Physical Activity Special Interest Group Blog Entry, May 2012, <http://www.sbm.org/resources/connection-center/sig-blog/past-sig-blog-entries>.
3. **Buman MP**, Valenzuela J. YPP is Rowing Strong, Rowing Together. Children's Hospital Boston's Medicine Patient Services Newsletter, Summer 2004.
2. **Buman, MP**. *Review of Virtual Brands Video's Virtual Chicago*. Appeared in the Association for the Advancement of Applied Sport Psychology (AAASP) Newsletter, 2002.
1. **Buman MP**. Hitting the wall – and finishing. *Men's Health*. May 2009.

## TEACHING

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### COURSES TAUGHT AT ASU

*EXW 700, Research Methods* (Fall 2018): This course provides first-semester doctoral students with foundational instruction in research methods needed to critically read and comprehend published research in physical activity, nutrition, and disease. The course provides students with epidemiologic skills needed to design studies and develop a research proposal. This course is the first of two required courses (EXW 700 and 701).

*EXW 446, Health Promotion and Program Evaluation* (Fall 2011, Spring 2012, Fall 2012, Spring 2013, Spring 2014, Spring 2015, Spring 2016): Applies theory-based concepts and methods of health promotion and program evaluation across health domains including program planning concepts (frameworks, needs assessments, use of behavioral theory), practical issues of program implementation, and program evaluation concepts including frameworks for research design, data analysis and data reporting.

*EXW 645, Advanced Applied Methods and Data Analysis* (Fall 2013, Fall 2014, Fall 2015, Fall 2016, Fall 2017): This course heavily applies focus on implementing research methods and statistical modeling techniques in the health promotion sciences. The course addresses practical issues in specifying, interpreting, and presenting research findings using appropriate statistical techniques. Analytical methods covered include multiple regression, ANOVA, mediation and moderation, exploratory factor analysis, multilevel models for hierarchical data and intensive longitudinal data, basic time-to-event analyses (i.e., survival), and meta-analysis, but also remains flexible to address critical and emerging methodologies in the health promotion sciences.

*HCD 501, Health Behavior and Statistical Tools in Health Environments* (Fall 2013, Fall 2014): Provides an understanding of the statistical tools and principles of research design and methods in health behavior research in health environments. Encompasses an overview of quantitative, qualitative and mixed designs and focuses on the interpretation and communication of health behavior research through published reports and presentations.

*HSC 310, Applied Medical and Healthcare Ethics* (Summer 2014, Summer 2015): This course is designed to explore the theory and practice of ethics in health care and medical settings. Throughout the course, students develop skills necessary to view ethical issues from a variety of perspectives, distinguish between better or worse ethical positions and to choose the best alternative. At the conclusion of the course, students gain an appreciation and understanding of the methods used to explore complex ethical issues and develop critical reasoning skills necessary to participate in ethical discussions.

*School of Nutrition and Health Promotion MOOC Course Module (Fall 2015): "Sleep: How much is enough and tips to improve?"* (Fall 2015): This massive online course module discussed the role of sleep in health and behavioral and environmental strategies to improve sleep health.

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## **GRADUATE AND UNDERGRADUATE MENTORSHIP**

### **Postdoctoral research fellow mentorship (n total = 2; n current = 0)**

Sarah Mullane, PhD, 2015-2018.

Carolina Diaz-Piedra, PhD, 2014-2016.

### **Graduate Committee Chair (n total = 9; n current = 3)**

Kristina Hasanaj, PhD in Exercise and Nutritional Sciences, 2017-present.

Meynard John Toledo, PhD in Exercise and Nutritional Sciences, 2015-present.

Miranda Larouche, PhD in Exercise and Nutritional Sciences, 2018-present.

Boyd Lanich, MS in Obesity Prevention, Graduated 2017.

Miranda Larouche, MS in EXW, 2016-2018.

Theresa Floegel, PhD in PANW, Graduated 2015.

Anna Park, MS in EXW, Graduated 2014.

Sarah Bryant, MS in EXW, 2013-2016.

Amanda Gordon, MS in EXW, Graduated 2013.

### **Graduate Committee Member (n total = 15, n current = 3)**

Karen Moreno, PhD in ENS, 2016-present.

Jeni Matthews, PhD in ENS, 2016-present.

Kiley Vander Wyst, PhD in ENS, 2017-present.

Andrew D'Lougos, PhD in ENS, Graduated 2018.

Jonathan Kurka, PhD in PANW, Graduated 2016.

Alberto Florez-Pregonero, PhD in PANW, Graduated 2017.

Zach Zeigler, PhD in PANW, Graduated 2016.

Wenfei Zhu, PhD in PANW, Graduated 2015.

Keith Semken, MS in EXW, Graduate 2015.



Diane Ehlers, PhD in PANW, Graduated 2014.  
Brandon Sawyer, PhD in PANW, Graduated 2013.  
Zach Zeigler, MS in EXW, Graduated 2013.  
Dharini Bhammar, PhD in PANW, Graduated 2013.  
Stephen Kelly, PhD in PANW, Graduated 2013.  
Nathanael Meckes, PhD in PANW, Graduated 2012.

**Undergraduate Honors Project Committee Chair (n total = 13, n current = 8)**

Abby Wojtas, Patient-provider communication via wearables and smartphones, 2016-present.  
Alyssa Tong, Implementation outcomes in a workplace behavioral intervention, 2017-present.  
Clayton Hui, TBD, 2017-present.  
Emily Meyer, Sedentary behavior and glucose control, 2017-present.  
Kiley Davis, Smartphone interventions to improve PAP adherence, 2017-present.  
Logan Martin, TBD, 2017-present.  
Ren Dwyer, TBD, 2017-present.  
Urmi Mota, TBD, 2017-present.  
Asael Jimenez, Integration of wearable and smartphones in clinical practice, Graduated 2018  
Aarthi Rameshkumar, Validation of wearable monitors for sleep, Graduated 2018.  
Joseph Brinkman, Measurement of Sleep and Physical Activity, Graduated 2015.  
Cody Kramer, Measurement of Physical Activity, Graduated 2014.  
Justin Zeien, Neighborhood environment and physical activity, Graduated 2015.

**Undergraduate mentees (n total = 20, n current = 3)**

Cesar Delgado, 2018-present.  
Tanner Whiting, 2018-present.  
Zoe Festa-Woods, 2018-present.  
Matthew Pace, 2017-2018.  
Rachael Tjahjo, Computer Sciences, 2016-2018.  
Britni Porter, Biological Sciences, 2016-2017.  
Abigail Barbera, Kinesiology Student, Graduated 2016.  
Miranda Larouche, Kinesiology student, Graduated 2016.  
Marcel Putrus, Biological Sciences, Graduate 2016.  
Maham Haq, Biological Sciences, Graduated 2017.  
Boyd Lanich, EXW student, Graduated 2015.  
Sean Branscome, EXW student, Graduated 2015.  
Benjamin Duncan, EXW, Graduated 2015.  
Rachel Polombo, Biological Sciences, Graduated 2015.  
Pooja Raghani, Nutrition, Graduated 2014.  
Joseph Moreno, EXW student, Graduated 2014.  
Gina Lacagnina, Nutrition student, Graduated 2014.  
Sarah Bryant, EXW Student, 2012-2013.  
Amanda Dougan, EXW, Graduated 2012.  
Ravi Patel, Biological Sciences, Graduated 2013.

**Other mentees (n total = 10; n current = 3)**

Kelby Laurel Scaeffler, University of Arizona Medical Student, 2016-present.  
Ariana Rose Felici Cook, University of Arizona Medical Student, 2015-present.  
Meghan Hicks, University of Arizona Medical Student, 2014-present.  
Eduardo Salazar, University of Arizona Medical Student, 2011-2017.  
Giselle Cayme, The University of Texas at Paso Undergraduate Student, 2016 (Summer intern)  
Kory Russell, Stanford School of Engineering PhD student, 2009-2017.  
Daniel Pardi, Stanford PhD student, 2010-2015.  
Eduardo Rocha de Rodrigues de los Santos, Foreign Student, 2013.  
Rickman Fish, ASU School of Design student, 2013-2015.  
Amy Woof, ASU MPH student, Graduated 2013.

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## INVITED LECTURES

51. Smartphone and wearable device interventions to impact health on the population scale. School of Population Health, University of Queensland, Brisbane, Australia, March 2018.
50. Leveraging technology to understand and intervene upon prolonged sitting in the workplace. Translational Research Institute, University of Queensland, Brisbane, Australia, May 2018.
49. Smartphones and wearables: Using technology to assess and intervene across the 24 hours. Baker Heart and Diabetes Institute, Melbourne, Australia, February 2018.
48. Assessment using smartphones and wearable sensors. University of Newcastle, Newcastle, Australia, April 2018.
47. Sedentary behavior: The science of sitting from the lab to the workplace. Shaanxi Normal University, Xian City, China, April 2018.
46. Smartphones and wearables: Health promotion across the 24 hours. Invited Mid-Career Research Presentation, International Society of Behavioral Nutrition and Physical Activity, Hong Kong, China, June 2018.
45. Sedentary behavior: The science of sitting from the lab to the workplace. Phoenix VA Healthcare System, Endocrine Grand Grounds, Phoenix, AZ, USA. August 2018.
44. Digital technologies: Friend or foe to promote physical activity globally? Agita Mundo Network Meeting, Centro de Estudos do Laboratório de Aptidão Física de São Caetano do Sul – CELAFISCS, Sau Paulo, Brazil, October 2018.
43. Smartphones and Wearables: Using technology to assess and intervene across the 24 hours. Centro de Estudos do Laboratório de Aptidão Física de São Caetano do Sul – CELAFISCS, Sau Paulo, Brazil, October 2018.
42. Wearable devices in research: Assessment, validation, and novel analytic strategies for 24 hour data. Centro de Estudos do Laboratório de Aptidão Física de São Caetano do Sul – CELAFISCS, Sau Paulo, Brazil, October 2018.
41. Smartphones and wearables: Interventions to improve health targeting behaviors across the 24 hours. Glasgow Caledonian University, Glasgow, UK, October 2018.
40. *Behind the Scenes of an NIH Proposal*. Office of Knowledge Enterprise Development, Arizona State University, September 2017.
39. *Isotemporal Substitution Paradigm*. University of Ontario Institute of Technology, Oshawa, Ontario, Canada, August 2017.
38. *Smartphones and Wearables: Using Technology to Assess and Intervene across the 24 Hours*. International Sport Sciences Congress, Antalya, Turkey, November 2017.
37. *Equipping the physical activity workforce for breakthroughs in public health research*. NIH National Cancer Institute (webinar), November 2017.
36. *Smartphones and Wearables: Health Promotion across the 24 Hours*. Society of Behavioral Medicine Grand Rounds (webinar), November 2017.

35. *Behaviors across the 24 Hours*. Arizona Wellness Commons, September 2017, Arizona State University, Tempe, AZ.
34. *Smartphones and Wearables: Health Promotion across the 24 Hours*. Oregon Institute of Occupational Health Sciences, Oregon Health Sciences University, April 2017, Portland, OR.
33. *Sedentary Behavior: Science of Sitting from the Lab to the Workplace*. National Institute of Diabetes and Digestive and Kidney Disease Phoenix Epidemiology and Clinical Research Branch, May 2017, Phoenix, AZ.
32. *Smartphones and Wearables: Health Promotion across the 24 Hours*. Research Frontiers in Nutritional Science, February 2017, University of Arizona, Tucson, AZ.
31. *Stand & Move at Work: Advancing the Science of Sitting from the Lab to the Workplace*. Building Healthy Lifestyles Research Conference, February 2017, Arizona State University, Tempe, AZ.
30. *Smartphones and wearables: Health promotion across the 24 hours*. Cancer Council Victoria, June 2016, Melbourne, Victoria, Australia.
29. *Smartphones and wearables: Improving sleep and physical activity in community settings*. Icahn School of Medicine at Mount Sinai Hospital, July 2016, New York City, NY.
28. *BeWell24: Scaling a lifestyle behavior change "app" for clinical settings*. School of Nutrition and Health Promotion Seminar Series, September 2016, Phoenix, AZ.
27. *Isotemporal substitution models*. Wearable devices and the 24-hour Activity Cycle. Stanford University, April 2016, Stanford, CA.
26. *Benefits of standing and moving at your desk*. Arizona State University School of Life Sciences, April 2016, Tempe, AZ.
25. *Improving your health 24 hours a day*. Arizona State University Night of the Open Door, February 2016, Phoenix, AZ.
24. *Smartphones and wearables: Disease detection and health promotion across the 24 hours*. Arizona State University School of Arts, Design, and Engineering, February 2016, Tempe, AZ.
23. *Let's get moving (or standing)*, President's Weekend, Ingredients for Health, November 2015, Phoenix, AZ.
22. *Moving your way to a good night's rest*, Lincoln Family Downtown YMCA, October 2015, Phoenix, AZ.
21. *Stand and Move at Work: A Group Randomized Trial*, School of Nutrition and Health Promotion Seminar Series, August 2015, Phoenix, AZ.
20. *Smartphones and wearables: Health promotion across the 24 hours*, Sophiahemmet University, October 2015, Stockholm, Sweden.
19. *Let's get moving (or standing)*, Arizona State University Foundation, September 2015, Tempe, AZ.
18. *Wearables and smartphones: Promise to improve health behaviors or just hype?*, Florida Academy of Nutrition and Dietetics, July 2015, Orlando, FL.

17. *Behavioral periodicity detection from 24h waveform wrist accelerometry*, Dublin City University, June 2015, Dublin, Ireland.
16. *Smartphones and wearables: Disease detection and health promotion across the 24 hours*, Chang Gung University and Hospital, May 2015, Taipei, Taiwan.
15. *Smartphones and wearables: Health promotion across the 24 hours*, Phoenix Veterans Affairs Health Care System Grand Rounds, May 2015, Phoenix, AZ.
14. *Wearable sensors for health promotion*, Diabetes Epidemiology and Clinical Research Section, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), April 2015, Phoenix, AZ.
13. *Moving your way to a good night's rest*, Arizona State University Foundation, March 2015, Tempe, AZ.
12. *Wearables and smartphones: Strategies to get people moving*, Nutrition and Health Conference, May 2015, Phoenix, AZ.
11. *Wearable Sensors*, Center for the Science of Healthcare Delivery and Arizona State University Joint Meeting, February 2015, Scottsdale, AZ.
10. *Physical activity interventions for public health*. Arizona Department of Health Services, AzNN Physical Activity Subcommittee Meeting. January 2014, Phoenix, AZ.
9. *Wearables and smartphones: Strategies to promote health across the 24 hours*. Center for Sustainable Health, November 2014, Tempe, AZ.
8. *Exercise and sleep synergies for optimal health*. Arizona Sleep Society, October 2014, Phoenix, AZ.
7. *Exercise-sleep synergies for health promotion*. The Pennsylvania State University, Kinesiology Colloquium Series, December 2013, State College, PA.
6. *Building a healthy environment: Working with communities for change*. Presented to the Tulane University Prevention Research Center, April 2013, Tulane University, New Orleans, LA.
5. *Exercise-sleep synergies for chronic disease prevention*. Healthy Lifestyles Research Center weekly seminar, Arizona State University, October 2012, Phoenix, AZ.
4. *Physical activity strategies in populations*. Presented to the Veterans' Affairs National Center for Health Promotion and Disease Prevention, January 2012.
3. *Harnessing technology to promote healthy lifestyles for individuals and communities*. Building Healthy Lifestyles Conference, February 2012, Tempe, AZ.
2. *Research Update: Physical Activity for Older Adults*. Elder Nutrition and Food Safety, Institute of Food and Agricultural Sciences, Extension Services, University of Florida, August 2007, Gainesville, FL.
1. *Implementing a Physical Activity Program for Older Adults*. Elder Nutrition and Food Safety, Institute of Food and Agricultural Sciences, Extension Services, University of Florida, August 2007, Gainesville, FL.

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## GUEST LECTURES

30. Exercise and sleep synergies for health. Exercise Psychology (KIN 452), Arizona State University, November 2018.
29. *Health Promotion across the 24 Hours*. Exercise and Wellness Seminar (EXW 591), Arizona State University, November 2018.
28. *Health Promotion across the 24 Hours*. Exercise and Wellness Seminar (EXW 591), Arizona State University, October 2017.
27. *Stand and Move at Work: Advancing the science of sitting from the lab to the workplace*. EXW 450, Arizona State University, October 2017.
26. *Health Promotion across the 24 Hours*. Nursing Research (NUR 606), Arizona State University, September 2017.
25. *Wearable Technology: Help or hype?* Exercise and Wellness Seminar (EXW 591), Arizona State University, April 2017.
24. *Getting funded*. Exercise and Nutritional Sciences Doctoral Seminar (EXW 671), Arizona State University, February 2017, Phoenix, AZ.
23. *Wearable Technology: Help or hype?* Exercise and Wellness Seminar (EXW 591), Arizona State University, November 14, 2016.
22. *Health Promotion across the 24 Hours*. Exercise and Wellness Seminar (EXW 591), Arizona State University, August 29, 2016.
21. *Exercise and Sleep synergies for health*. Exercise Psychology (KIN 452), Arizona State University, April 11, 2016, Phoenix, AZ.
20. *Getting funded*. Physical Activity, Nutrition and Wellness Doctoral Seminar (EXW 671), Arizona State University, February 2016, Phoenix, AZ.
19. *Round the Clock Wellness*. Exercise and Wellness (EXW 598), Arizona State University, November 2015, Phoenix, AZ.
18. *Wearables and smartphones: strategies to promote health across the 24 hours*, Biomedical Informatics (BMI 201), Arizona State University, April 2015, Tempe, AZ.
17. *Exercise-Sleep synergies for health*. Introduction to Clinical Informatics (BMI 201), Arizona State University, April 16, 2015, Tempe, AZ.
16. *Exercise and Sleep synergies for health*. Exercise Psychology (KIN 452), Arizona State University, April 8, 2015, Phoenix, AZ.
15. *Top 12 things I learned as a postdoc (that I might have never learned otherwise)*. Physical Activity, Nutrition and Wellness Doctoral Seminar (EXW 691), Arizona State University, December 2013, Phoenix, AZ.
14. *Exercise-sleep synergies for health promotion*. Exercise and Wellness (EXW 598), Arizona State University, October 2013, Phoenix, AZ.
13. *Multilevel models for change*. Physical Activity, Nutrition and Wellness Doctoral Seminar (EXW 691), Arizona State University, April 2012, Phoenix, AZ.

12. *Ecological methods and strategies for health promotion*. Exercise and Wellness (EXW 598), Arizona State University, October 2012, Phoenix, AZ.
11. *Novel methods for physical activity intervention design*. Transdisciplinary Training in Health Disparities Science T32 Program, College of Nursing and Health Innovation, Arizona State University, September 2011, Phoenix, AZ.
10. *Novel methods for physical activity intervention design*. Masters Seminar (EXW 598) Exercise and Wellness, Arizona State University, October 2011, Phoenix, AZ.
9. *Social support interventions for physical activity*. Health Promotion Theory (EXW 542), Exercise and Wellness, Arizona State University, October 2011, Phoenix, AZ.
8. *Health promotion problems only engineers can solve*. Center for Bioelectronics and Biosensors, BioDesign Institute, Arizona State University, November 2011, Phoenix, AZ.
7. *Physical activity strategies across the lifespan*. Physical Activity, Nutrition and Wellness Doctoral Seminar (EXW 691), Arizona State University, November 2011, Phoenix, AZ.
6. *Future directions in physical activity and public health*. Graduate Seminar in Physical Activity, San Francisco State University, Winter 2010, San Francisco, CA.
5. *Physical Activity Interventions for Public Health*. Community Health Psychology (PSYCH 101), Stanford University, Winter 2010, Stanford, CA.
4. *Best analyses for change in physical activity*. Graduate seminar in research methods in physical activity, University of Florida, Spring 2008, Gainesville, FL.
3. *Mental Imagery in Gymnastics*. Coaching Gymnastics (PET 3912), University of Florida, Spring 2007, Gainesville, FL.
2. *Career Explorations in Sport and Exercise Psychology*. Introduction to Psychology for Honors Students (PSY 2012), Santa Fe Community College, September 2005, Gainesville, FL
1. *Cognitive Orientations of Marathon Runners*. Psychology and Sociology of Sport (KIN 3126), University of Minnesota, September 2004, Minneapolis, MN.

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#### **COURSES TAUGHT (PRIOR TO ASU)**

*APK 4232: Measurement and Evaluation* (Fall 2007): A 50-student, senior-level course designed with an emphasis on applied measurement and research design. Integration of SPSS instruction lab and assignment into coursework. Student evaluations were 4.62/5.00.

*APK 3400: Sport Psychology* (Spring 2007): A 35-student, upper-division course which was facilitated through student-led group presentations and discussions with integration of technology including video, internet, YouTube. Student evaluations were 4.57/5.00.

#### **SERVICE**

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##### **SERVICE TO ASU: COLLEGE OF HEALTH SOLUTIONS**

*Committee Member*, College of Health Solutions Executive Visioning Team 2 – to provided ongoing evaluation of CHS' new vision and structure, provide feedback directly to the Dean, and be a liaison to CHS faculty and staff, 2018-present.

*Committee Member*, College of Health Solutions Research Council – develop a strategic plan for research-related initiatives within the college and address policies related to research, 2016-present.

*Committee Member*, College of Health Solutions Translation Team Structure, Process, and Evaluation Committee, 2018-present.

*Committee Member*, College of Health Solutions Mentoring Committee, 2018-present.

*Committee Member*, Exercise and Wellness Master's Degree Curriculum Committee – Develop new degree programs, discuss course objectives and alignment, 2017-present.

*Committee Member*, Health Education and Health Promotion Curriculum Committee – developed new degree programs, discussed course objectives and alignment, 2014-present.

*Member*, Movement Science Neighborhood, College of Health Solutions, 2018-present.

*Member*, Public Health Neighborhood, College of Health Solutions, 2018-present.

*Member*, College of Health Solutions Executive Visioning Team – oversee the re-visioning process of CHS vision, structures, and functions, 2017-2018.

*Committee Member*, College of Health Solutions Policy Committee – develop policies related to online teaching and course development compensation, 2016-2018.

*Member*, Health Education and Health Promotion Instructor Search Committee – reviewed candidate applications and recommended to chair top candidate, 2014

*Committee Member*, Healthy Aging MS Planning Committee – developed curriculum and proposal for a new MS in Healthy Aging offered by SNHP, 2012.

*Committee Member*, Clinical Exercise Physiology MS Planning Committee - developed curriculum and proposal for a new MS in Clinical Exercise Physiology offered by SNHP, 2012.

*ad hoc Committee Member*, ACSM/ASU Comparative Effectiveness Research Roundtable and Conference – served as a member of the planning committee, identifying experts and developing the program, 2012.

*Committee Member*, EXW Master's Program Curriculum Committee –prepared comprehensive exams, reviewed student progress, 2011-2013.

*ad hoc Committee Member*, Undergraduate EXW Curriculum Committee – temporarily served on this Committee to develop new course curricula to align with requirements to sit to Certified Health Education Specialist (CHES) certification, 2012.

*Fire preparedness captain*, Arizona Biomedical Cooperative Building 2<sup>nd</sup> floor – reviewed policies and procedures with faculty regarding fire evacuation, 2012-2016.

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## **SERVICE TO ASU: UNIVERSITY**

*Member*, Sun Devil Athletics Board – advises President Crow and Senior Vice President Wilkinson on student-athlete issues, inclusive of academics, competition, and physical well-being, 2018-present.

*Member*, Open Access Task Force – develop guiding documents and policies for university faculty on the use of open access media and publication standards, 2016-2017.

*Member*, Waggle Committee for Project Honeybee – steering committee member for \$5m cross-university initiative to increase research productivity in the area of wearable sensors for clinical application, 2014-2017.

*Co-Chair*, Master's in the Science of Healthcare Delivery, Health Behavior and Statistical Tools in Health Subcommittee – co-chaired this committee with Dr. David Coon and contributed to the development of new MS degree offering in healthcare delivery as part of joint MD/MS degree in partnership with Mayo Clinic of Arizona, 2012.

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## **PROFESSIONAL MEMBERSHIPS**

Society of Behavioral Medicine, 2006-present

American College of Sports Medicine, 2008-present

Sleep Research Society, 2011-present

International Society of Physical Activity and Health, 2009- present

International Society of Behavioral Nutrition and Physical Activity, 2018-present

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## **SERVICE TO PROFESSIONAL ORGANIZATIONS**

*Chair*, Society of Behavioral Medicine, Physical Activity Topic Chair, 2017-present.

*Committee member*, Society of Behavioral Medicine, Ethics Working Group, 2017-present.

*Committee member*, American College of Sports Medicine, SHI Behavioral Strategies Committee, 2015-present.

*Special Consultant*, US Health & Human Services 2018 Physical Activity Guidelines Advisory Council (PAGAC; Health Promotion subcommittee), 2017-2018.

*Abstract Reviewer*, Society of Behavioral Medicine, 2009-present.

*Abstract Reviewer*, International Society of Behavioral Nutrition and Physical Activity, 2011-present.

*Abstract Reviewer*, Computer Human Interaction (CHI) Conference, 2012-present.

*Committee Member*, LIFE study accelerometry working group. 2012-2016.

*Committee member*, Society of Behavioral Medicine, Program Committee, 2016-2017.

*Committee member*, Society of Behavioral Medicine, Scientific and Professional Liaison's Committee, 2015-2016.

*Committee Member*, Society of Behavioral Medicine, Public Policy Leadership Group, 2012-2017.

*Committee Member*, Society of Behavioral Medicine, Civic and Public Leadership Group, 2014-2017.

*ad hoc Committee Member*, American College of Sports Medicine, Comparative Effectiveness Research Committee, 2014-2017.

*Co-Chair*, Society of Behavioral Medicine, Physical Activity Special Interest Group, 2013-2014.



*Task Force Member*, 2013 National Sleep Foundation Annual Sleep in America Poll, Theme: Exercise and Sleep, 2012-2013.

*ad hoc Committee Member*, American College of Sports Medicine, Family Website Development Committee, 2012-2013.

*ad hoc Committee Chair*, Society of Behavioral Medicine and American College of Sports Medicine Exercise is Medicine Behavioral Interventions Committee, 2010-2012.

*Co-Director*, Stanford Prevention Research Center Postdoctoral Fellow Group, 2010-2011

*Site representative*, Representing Stanford University for the Lifestyle Interventions and Independence for Elders (LIFE) Trial Assessment committee, 2009.

*Site representative*, Representing Stanford University for LIFE ancillary studies working groups (sleep, accelerometry), 2009.

*Chair*, Graduate Student Advisory Council, College of Health and Human Performance, University of Florida, 2006-2008.

*Student Regional Representative*, Association of Applied Sport Psychology, 2003-2006.

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#### **SERVICE TO PROFESSION: GRANT REVIEWING FOR FEDERAL ORGANIZATIONS**

*Standing study section member*, NIH Center for Scientific Review, Psychosocial Risk & Disease Prevention (PRDP) study section, October 2016 - present.

*ad hoc Reviewer*, National Science Foundation, Smart and Connected Health Exploratory Grants, February 2016.

*ad hoc Reviewer*, Canada Excellence Research Chairs, November 2015

*ad hoc Reviewer*, NIH Center for Scientific Review, Kidney, Nutrition, Obesity, and Diabetes (KNOD) study section (ZRG1 PSE-B [65R]), May 2015

*ad hoc Reviewer*, NIH Center for Scientific Review, Psychosocial Risk & Disease Prevention (PRDP) study section, January 2015

*Early Career Reviewer*, NIH Center for Scientific Review, Psychosocial Risk & Disease Prevention (PRDP) study section, October 2014.

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#### **SERVICE TO PROFESSION: AD HOC REVIEWS**

*American Journal of Epidemiology*  
*American Journal of Health Behavior*  
*American Journal of Lifestyle Medicine*  
*American Journal of Preventive Medicine*  
*Annals of Internal Medicine*  
*Applied Physiology, Nutrition, and Metabolism*  
*Applied Psychology: An International Review*  
*Behavioral Sleep Medicine*  
*BMC Public Health*  
*Circulation*

*International Journal of Behavioral Nutrition and Physical Activity*  
*International Journal of Obesity*  
*International Journal of Sport and Exercise Psychology*  
*Journal of Aging and Physical Activity*  
*Journal of Gerontology: Medical Sciences*  
*Journal of Health Psychology*  
*Journal for the Measurement of Physical Behaviors*  
*Journal of Sport Sciences*  
*Medicine & Science in Sport & Exercise*  
*Obesity*  
*Preventive Medicine*  
*Psychology of Sport and Exercise*  
*SLEEP*  
*SLEEP HEALTH: Journal of the National Sleep Foundation*  
*The Sport Psychologist*  
*Translational Behavioral Medicine*