

# MATTHEW P. BUMAN, PHD

## Curriculum Vitae

### CONTACT INFORMATION

College of Health Solutions  
Arizona State University  
425 N. 5th Street, MC 9020  
Phoenix, AZ 85004 USA

Office: 602.827.2289  
Mobile: 781.354.7991  
matthew.buman@asu.edu

**CURRENT RANK:** Professor

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

### RESEARCH INTERESTS

My research interests reflect the dynamic interplay of behaviors across the 24 hours - sleep, sedentary behavior, and physical activity - and collectively how these behaviors can be harnessed for health promotion. My work focuses on developing precision health interventions that (a) leverage 'in-the-moment' device-based measurement of these behaviors, (b) singly or in combination target these behaviors in adaptive designs that are "tuned" to the individual, and (c) harness the environments in which we live, work, and play to create interventions that are better suited to individuals and populations. My work largely leverages personal, digital technologies (e.g., smartphones, wearables) to design and evaluate interventions that target sleep, sedentary behavior, and physical activity in both clinical and community settings.

**KEYWORDS:** physical activity, sedentary behavior, sleep, mHealth, precision health, workplace, measurement, behavioral interventions

### ACADEMIC QUALIFICATIONS

- Internationally recognized behavioral scientist with interdisciplinary training in public health, medicine, and exercise science
- Authored 195+ peer-reviewed publications in top outlets in behavioral science, psychology, sport sciences, endocrinology/metabolism, human-computer interaction, bioinformatics, and design
- International thought leader: member of the 2020 World Health Organization Guideline Development Group for Physical Activity and Sedentary Behaviour and Special Consultant to the 2018 US Physical Activity Guidelines Advisory Council

### LEADERSHIP QUALIFICATIONS

- Experience in a leadership role to re-vision the research enterprise in the ASU College of Health Solutions, developing new teams and research infrastructure to enhance collaboration and transdisciplinary research opportunities
- 12+ years of experience reviewing federally-sponsored research programs, including standing NIH study section member and ad hoc NSF reviewer
- Experience mentoring junior investigators, including designing and conducting scholarship groups, mock study sections, and an implementation science training program

## BACKGROUND

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### ACADEMIC APPOINTMENTS

*Professor*, Arizona State University, College of Health Solutions, Phoenix, AZ, 2020-present.

*Director, Precision Health Research Initiatives*, Arizona State University, College of Health Solutions, Phoenix, AZ, 2020-present.

*Director, Vision and Strategic Solutions*, Arizona State University, College of Health Solutions, Phoenix, AZ, 2020.

*Associate Professor*, Arizona State University, College of Health Solutions, Phoenix, AZ, 2017-2020.

*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.

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

*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.

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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**

*Centennial Professorship Award*, Arizona State University, 2019

*Translational Science Award*, College of Health Solutions, Arizona State University, 2019

*Research Award*, College of Health Solutions, Arizona State University, 2019

*Alumnus of the Year Award*, University of Utah Kinesiology Program (formerly Exercise and Sport Science), 2019

*Fellow*, Society of Behavioral Medicine, 2019.

*Best Paper Award*, American Journal of Health Promotion, 2019

*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.

*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.

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## **TRAINING PROGRAMS AND FELLOWSHIPS**

Peer Leadership Academy, Arizona State University, 2019-2020

Training Institute for Dissemination and Implementation Research in Health (TIDIRH), National Cancer Institute, 2017

Speeding Research-tested INTerventions (SPRINT) program, National Cancer Institute, 2017

Mid-Career Leadership Institute, Society of Behavioral Medicine, 2016-2017

Physical Activity and Public Health Course, Centers for Disease Control, 2009

*Named Presidential Fellowship*, University of Florida, 2005

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

## RESEARCH

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### SPONSORED RESEARCH SUPPORT

#### **Federally sponsored research**

##### Principal investigator (n=6)

6. National Institutes of Health, National Cancer Institute (T32CA298973). "ChatBCT: Interdisciplinary Personalized Digital Health Analytics Training for Behavior Change." \$1,421,440; 4/1/2025 - 3/31/2030 [MPI: Buman, Ghasemzadeh, Petrov, & Stecher].
5. National Institutes of Health, National Cancer Institute (R01CA250527). "Stand & Move at Work: Effectiveness and Implementation." \$2,652,102; 08/10/2020 - 07/31/2025 [MPI: Buman & Pereira]. \*\*\*Supplemental (administrative) diversity fellow to support postdoctoral fellow, Dr. Krista Leonard-Corzo (\$113,569), 8/10/2020-7/31/2025.  
*Sedentary behavior has emerged as an important target for public health interventions, and workplaces are an ideal setting to intervene. This project will test both the effectiveness and implementation of a multicomponent behavioral intervention designed to support the use of sit-stand workstations at work. This project will lead to enhanced knowledge on the role of expert facilitators in workplace interventions and the effectiveness and cost-benefit of sit-stand workstations and an associated intervention for reducing sedentary time.*
4. National Institutes of Health, National Cancer Institute (R01CA239612). "StandUPTV: Reducing Sedentary Screen Time in Adults." \$2,201,206; 09/01/19 – 08/30/22 [MPI: Buman & Keadle]. \*\*\*Supplemental (administrative) diversity fellow to support predoctoral fellow, Ms. Kristina Hasanaj for 4 years (\$93, 074), 9/1/2019-8/31/2023.  
*This project will develop and test behavioral intervention components of a smartphone-based intervention to reduce sedentary screen time in overweight adults using a multiphase optimization strategy trial design.*
3. 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" \$766,816; 9/1/2016-8/31/2020 [MPI: Buman & Reaven].  
*This project tested the pragmatic delivery of a smartphone-delivered intervention to prevent diabetes in VA primary care clinics in the Phoenix VA Healthcare System.*
2. National Institutes of Health, National Institute for Nursing Research (R21NR016046). "SleepWell24: An Innovative Smartphone Application to Improve PAP Adherence." \$443,214; 8/15/2016-7/31/2018 [MPI: Buman & Petrov].  
*This project tested a smartphone-based intervention to improve adherence to positive airway pressure therapy among patients with obstructive sleep apnea.*
1. National Institutes of Health, National Cancer Institute (R01CA198971). "Stand & Move at Work: A Group Randomized Trial." \$2,982,656, 07/02/15 – 06/30/20 [MPI: Buman & Pereira]. \*\*\*Supplemental funding (administrative) to support additional implementation aims was awarded, \$126,731, 7/1/2017 – 6/30/2018.  
*The goals of this project were to test the efficacy of two interventions to reduce sitting, increase light-intensity physical activity, and improve cardiometabolic health in worksites.*

Consortium Principal Investigator (n=7)

7. National Institutes of Health, National Cancer Institute. "Enhancing cognitive function in breast cancer survivors through community-based aerobic exercise training" \$42,471; 7/18/2022-4/30/2023. [PI: Ehlers]. *This funding supports student Kyle Kershner to work on Dr. Ehlers' funded R01 project at Mayo Clinic. Dr. Ehlers and I serve as co-mentors of Mr. Kershner.*
6. National Institutes of Health, National Institute of Diabetes and Digestive and Kidney Diseases (1R01HL142996). "Motivational determinants of lifestyle behaviors, weight retention, and metabolic syndrome. \$719,096; 1/15/19-1/14/23. [PI: Brown]. *This study aims to fill gaps in our knowledge about what motivates healthy lifestyle behaviors and leads to improved weight management in the transition from pregnancy to postpartum, with the long-term goal of designing more effective lifestyle interventions for diverse populations. My role on this project is to oversee the design, delivery, and evaluation of physical activity and sleep behaviors using device-based measurements.*
5. National Institutes of Health, National Institute on Alcohol Abuse and Alcoholism (1R33DA041553) "Peer-Facilitated Physical Activity Intervention Delivered During Methadone Maintenance" \$228,573; 9/30/18-8/31/21. [MPI: Abrantes & Stein]. *The major goal is to test the efficacy of a peer-facilitated physical activity intervention for increasing physical activity among patients in methadone maintenance treatment. My role on this project is to oversee the assessment of physical activity and sleep via device-based measurement.*
4. National Institutes of Health, National Institute on Alcohol Abuse and Alcoholism (R33AA024295). "A tailored physical activity smartphone app for patients with alcohol dependence" \$247,883; 09/01/18-08/31/21 [PI: Abrantes]. *The goal of the research is to develop and conduct an evaluation of the Fit&Sober app compared to brief advice, to increase physical activity in patients with alcohol abuse disorders. My role is to consult with Dr. Abrantes and her team on device-based measurement of physical activity, and to perform data processing of the physical activity outcomes.*
3. National Institutes of Health, National Institute on Alcohol Abuse and Alcoholism (1R21DA041553) "Peer-Facilitated Physical Activity Intervention Delivered During Methadone Maintenance" \$209,717; 9/30/2016-8/31/2018. [MPI: Abrantes & Stein]. *The major goal of this project is to develop and test the preliminary efficacy of a peer-facilitated physical activity intervention for increasing physical activity among patients in methadone maintenance treatment. My role on this project was to oversee the assessment of physical activity and sleep via device-based measurement.*
2. National Institutes of Health, National Institute on Alcohol Abuse and Alcoholism (R21AA024295). "A tailored physical activity smartphone app for patients with alcohol dependence" 2016 \$212,331; 09/01/16-08/31/21 [PI: Abrantes]. *The goal of this project was to conduct an iterative design of a smartphone-based intervention to increase physical activity among individuals with alcohol dependence. My*

*role on this project was to collect preliminary efficacy data through device-based measurement of physical activity.*

1. National Institutes of Health, National Heart Lung and Blood Institute (R01HL1122460). "Neighborhood Change: Impact on Sleep and Obesity-Related Health Disparities." \$3,342,366 11/01/15 – 10/31/18 [MPI: Troxel & Dubowitz].  
*This project sought to assess the impact of a natural experiment in neighborhood revitalization on sleep-related outcomes. My role on this project was to oversee the 24-hour assessment of physical activity and sleep outcomes.*

Co-Investigator (n=10)

11. National Science Foundation SCC-IRG: Heatmind: Robust and scalable platform for personalized heat risk mitigation.
10. National Institutes of Health, National Cancer Institute. "Assessing clinical effectiveness and implementation of worksite sleep health coaching." \$101,266; 9/1/2022 - 8/31/2027
9. National Institutes of Health, National Institute of Diabetes and Digestive and Kidney Diseases. "StandUPTV Habits: Feasibility trial for maintaining reductions in sedentary screen time." \$896,736; 12/15/2023-11/30/2026.
8. National Science Foundation. "PIPP Phase I: Computational foundations for bio-social modeling of unseen pandemics." \$897,531; 9/8/2022-2/29/2024 [PI: Turaga].
7. National Institutes of Health, National Institute of Arthritis and Musculoskeletal and Skin Diseases (R01AR080826). "SCH: Smart User-Effective Data-Enabled (SUEDE) Shoe for Ankle Injury Prevention." \$1,124,997; 9/22/2021-7/31/2025 [PI: Lee].
6. National Science Foundation. "FW-HTF-P: The Future of Workplace Wellness." \$149,343; 9/1/2020-8/31/2021 [PI: Turaga].
5. National Institutes of Health, National Institute on Drug Abuse. "Research training in drug abuse prevention: closing the research-practice gap." \$2,294,493; 2020 [PI: Gonzalez].
4. National Institutes of Health, National Institute for General Medical Sciences (R01GM135927). "Dense life-log health analytics from wearable sensors using functional analysis and Riemannian geometry." \$1,399,999; 8/1/19-7/31/23 [PI: Turaga].  
*This project seeks to evaluate 24 hour patterns of sleep and wake behaviors across a series of behavioral interventions, with the goal of identifying new behavioral markers of chronic disease risk. My role on this project is to provide expert input on physical activity and sleep related outcomes in the development of novel machine learning algorithms.*
3. National Institutes of Health, National Institute of Child Health and Human Development (R21HD097450). "A community wellness intervention." \$254,816; 8/1/19-7/31/21 [PI: Leiferman].  
*This study will test the feasibility of a theoretically-based (e.g., social cognitive theory), peer-led wellness intervention, "My Baby My Move+" (MBMM+) to reduce excessive*

*gestational weight gain by targeting physical activity, mood, and sleep. My role is to provide consultation on the use of device-based measures for physical activity and sleep.*

2. Canadian Institute of Health Research. "Exploring the associations between lung function and sedentary time among middle-aged and older Canadian Men and Women." 1/30/2016. [PI: Dogra].  
*This study used a nationally representative dataset of Canadian Men and Women to explore the relationship between sedentary time and lung function. My role was to provide input on the use of isotemporal substitution modeling to examine this relationship.*
1. 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; 8/1/16-5/31/19 [PI: Huberty].  
*The primary goal of this project was to determine the feasibility and acceptability of a 12-week, home-based, online-streamed yoga (www.Udaya.com) intervention for bereaved mothers with stillbirth. My role was to consult on the use of device-based assessments of physical activity and sleep.*

**Consultant (n=3)**

3. National Institutes of Health, National Institute of Nursing Research (NIH R01) 2017 "Community-based intervention effects on older adults' physical activity and falls." [PI: McMahon, University of Minnesota].
2. National Heart, Lung, and Blood Institute (NIH R01) 2014 "Neighborhood Change: Impact on Sleep and Obesity-Related Health Disparities" [PI: Dubowitz & Troxel, RAND Corporation].
1. National Heart, Lung, and Blood Institute (NIH R01) 2013 "Virtual advisors to promote physical activity in Latino older adults" [PI: King, Stanford University].

**Foundation and industry sponsored research (n=9)**

**Principal Investigator (n=5)**

6. Doris Duke Foundation. "Charting a Course for Advancing Digital Health in Arizona." 2025, \$96,054. [PI: Buman, Carpenter, Govani, Yu]
5. American Academy of Sleep Medicine Foundation. "An app-based, precision medicine approach to optimize long-term CPAP Adherence and Quality of Life." 2022 \$249,983 7/1/2022-6/30/2025 [MPI: Buman & Petrov].
4. Aliphcom Inc. (Jawbone) "Jawbone Validation and Calibration of Strength and Yoga Activities." 2016 \$89,933; 7/1/16-12/31/16 [PI: Buman].
3. Steelcase, Inc. "Stand and Move ASU." 2015 \$5,031 [PI: Buman]
2. Aliphcom Inc. (Jawbone) "Activity Classification and Device Calibration." 2014 \$149,979 7/1/14-12/15/14 [PI: Buman].

1. Aliphcom Inc. (Jawbone) "*Jawbone Step and Sleep Validation Study.*" 2013 \$107,255 [PI: Buman].

Subcontract Principal Investigator (n=2)

2. 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]
1. 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]

Co-Investigator (n=2)

2. 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]
1. 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]

**Internally (ASU) sponsored research or other seed funding (n=13)**

Principal Investigator (n=8)

- 9 ASU-Mayo Seed Grant. BeWell360-CPR for Sustainable, Tailored, and Minimally Disruptive Cardiopulmonary Rehabilitation. 2025 (MPI: Buman & Abu Dabrh)
8. Arizona Biomedical Research Commission. "*Dissemination and Implementation Science Training Proposal.*" \$19,000 (0% indirect costs recovered, 0% FTE) 1/1/2019-12/31/2019. [PI: Kessler, Buman, & Leischow].
7. 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]
6. Arizona State University, College of Health Solutions. "*Metabolic Translational Team.*" \$38,000 (0% indirect costs recovered, 0% FTE) 1/1/2019-12/31/2019. [PI: Buman].
5. 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]
4. 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]

3. 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]
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]

Co-Investigator (n=5)

5. ASU-Mayo Seed Grant. 2020 *“Adapting a smartphone-delivered self-management program and behavioral intervention for positive airway pressure therapy initiation and maintenance to enhance patient-reported outcomes and patient-provider communication among stroke survivors.”* \$45,500 1/1/20-7/31/21. [PI: Petrov]
4. 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]
3. 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]
2. 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]
1. 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]

Mentored applications (student or postdoctoral fellow; n=2)

2. HHS, National Institutes of Health (NIDDK). “Program to adapt an evidence-based, culturally-grounded type 2 diabetes prevention program for delivery via telehealth.” 2022. Mentored Scientist Development Award (K01). [Trainee: Soltero]
1. American College of Sports Medicine. *“Ecological momentary determinants of sedentary behavior.”* 2016 \$5,000 [PI: Toledo, PhD Student].

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**PENDING RESEARCH PROPOSALS**

Primary Investigator or Subcontract Primary Investigator (N=4)

StandUPTV 2

POMB

HHS, National Institutes of Health (NIH). DietAct: Designing AI Algorithms to Monitor, Predict and Improve Diet Using Personalized Actionable Recommendations. \$1,458,908. [PI: Buman & Zadeh].

2. HHS, National Institutes of Health. Prospective relationships between 24h behavior composition, timing and weight trajectories. \$231,545 [Subcontract PI: Buman].

1.. HHS, National Institutes of Health (NIH). "Digital Twin for Glucose Control. 2023. (\$3,712,329). PI: Zadeh & Buman).

**Co-Investigator (N=7)**

Shelly Gray Vocab R01  
Stress Regulation R61/R33

7. HHS, National Institutes of Health (NIH). "Heat Equity Analysis of Threats from Climate for Actionable Policy (HEATCAP)" \$3,932,865. [PI: Domino & Moseley).

6. HHS, National Institutes of Health (NIH). STRONG: Simulation Technology to Recommend Optimal Nutrition for Glucose control. \$125,000. [PI: Zadeh].

5. HHS, National Institutes of Health (NIH). Yoga: A novel therapeutic approach. \$316,353. [Subcontract PI: Kavouras].

4. HHS, National Institutes of Health (NIH). Health Equity and Access Research and Training Hub (HEARTH). \$6,334,246. [PI: Riley].

3. National Science Foundation. "PIPP Phase II: Theme 4: HARMONI-Catalyst: Human Activity Response Modeling." \$18,000,000; 9/1/2024-8/31/2032 [PI: Turaga].

2. HHS, National Institutes of Health (NIH). "AI-Enabled Wearables for Diet-based Precision Health. 2022 (\$3,558,990). [PI: Zadeh].

1. Arizona State University Foundation. "Developing a Personal Health Approach to Heat Risks." 2022 (\$49,820) [PI: Moseley].

**Consultant (N=1)**

2. The University of Texas MD Anderson Cancer Center. "Harmony & Health: A culturally adapted mind-body intervention to reduce sitting time in Black adults." [PI: Mama].

**Mentored applications (student or postdoctoral fellow; n=1)**

1. National Institutes of Health. "Investigation of Sitting Interruption Modalities and their Acute Impact on Met." [Trainee: Patterson]. 2023.

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## GRANTS SUBMITTED BUT NOT FUNDED

### Primary Investigator or Subcontract Primary Investigator (N=30)

#### **2023 (n=1)**

31. American Cancer Society. Mayo Clinic Arizona. "Developing Digital Health Technologies to Support and Optimize the Use of Community Health Worker Breast Screening Intervention Activities for Latina Women in Maricopa County, AZ. (D-TOUCH)." 2022 (97,963) [Subcontract PI: Buman].

#### **2022 (n=1)**

30. HHS, National Institutes of Health. "Prospective relationships between 24h behavior composition, timing and weight training." 2022 (\$161,059) [Subcontract PI: Buman]

#### **2021 (n=1)**

29. Arizona State University Foundation (ASUF). "An App-Based, Precision Medicine Approach to Optimize Long-Term CPAP Adherence." 2021 (\$100,001). [PI: Petrov].

#### **2020 (n=0)**

#### **2019 (n=4)**

28. College of Health Solutions COVID19 JumpStart Grant Initiative. "*Year-long integrated assessment and trajectory of circadian-disrupting and sedentary screen time behaviors and CVD risk in Hispanic office workers impacted by the COVID-19 pandemic.*" April 2019 (\$20,000). [MPI: Buman & Sears]
27. National Science Foundation, SCH:INT. "*Smart and Connected Shoe for Ankle Injury Prevention.*" Resubmission - 2019 (\$1,200,000). [PI: Buman/Chae/Yong]
26. National Institutes of Health, National Institute of Child Health and Human Development. "*Family sleep and social rhythms: Novel mechanisms underlying socioeconomic disparities in child health and development.*" 2019 (\$159,027). [PI: Buman, Prime: RAND Corporation]. [Consortium PI: Buman].
25. National Institutes of Health, Fogarty International Center. "*A smart technology interactive patient platform to improve adherence for type 2 diabetes patients in Southeast Asia.*" 2019 (\$2,723,425). [PI: O'Donnell & Buman].

#### **2018 (n=3)**

24. 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].

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].

**2017 (n=2)**

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]

**2016 (n=8)**

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. 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) [PI: Buman & Cook].

**2014 (n=5)**

11. National Institutes of Health. “BeWell24 Optimizing a smartphone app for health in breast cancer survivors” 2014 (\$1,395,355). [Multiple PI: Buman & Huberty].
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. 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].

**2013 (n=3)**

6. 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].
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) 2013. "Feasibility study of portable assessment of obstructive sleep apnea" (\$383,014) [PI: Buman]

**2012 (n=3)**

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) (N=10)**

**Big12 fellowship**

**2022 (n=1)**

10. National Institutes of Health. "Identifying Dyadic Profiles of Sedentary Time in Midlife Adults." 2022. (\$108,936). [PI: Mattingly].

**2021 (n=4)**

9. HHS, National Institutes of Health (NCCIH). "Culturally tailoring a mindfulness meditation mobile app to reduce psychological distress in Black adults." 2021. Research Scientist Development Award (K01). [Trainee: Green]

8. HHS, National Institutes of Health. "Training Program on sedentary behavior and chronic kidney disease." 2021. NCI Pathway to Independence Award for Outstanding Early Stage Postdoctoral Researchers (K99/R00). [Trainee: Hannan].
7. HHS, National Institutes of Health (NCI). "Training program in sedentary behavior science. 2021. NCI Pathway to Independence Award for Outstanding Early Stage Postdoctoral Researchers (K99/R00). [Trainee: Bhuiyan].
6. National Institutes of Health (NCATS). Training program in cardiovascular health and motivational interview." 2021. Mentored Career Development Award (KL2). [Trainee: Wheatley-Guy].

**2020 (n=1)**

5. American College of Sports Medicine. "Transcranial direct current stimulation to enhance physical activity behavior." 2020. (\$5,000). [PI: Ruiz Tejada].

**2019 (n=1)**

4. National Institutes of Health, National Heart, Lung, & Blood Institute (K01). "Follow-up audits of small retail SNAP stores after implementation of updated SNAP requirements." 2019. (\$612,080). [PI: DeWeese].

**2018 (n=1)**

3. National Institutes of Health, National Heart, Lung, and Blood Institute (F31). "Sleep and hemodynamic mechanisms of sedentary behavior." 2018. (\$146,222). [PI: Hasanaj].

**2016 (n=2)**

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 (N=55)**

**2025**

**P30**

**HeatReady (Poulos)**

**2022 (n=4)**

55. HHS, National Institutes of Health (NIH). "Arizona State University's (ASU) Faculty Institutional Recruitment for Sustainable." 2022 (\$16,084,650) [PI: Gonzalez]
54. HHS, National Institutes of Health (NIH). "StandUPTV Habits Feasibility trial for maintaining reductions in sedentary screen time." 2022 (\$896,474) [PI: Stecher]
53. Arizona State University Foundation (ASUF). "Proposal to Advance Multiple, Parallel Efforts between Arizona State University." 2022. (\$1,603,984). [PI: Dudley].

52. Arizona State University Foundation (ASUF). "Occupational Therapy in Chronic Condition Management in Primary Care." 2022. (\$49,987). [PI: Dahl & Popolizio].

**2021 (n=4)**

51. American Occupational Therapy Foundation. "Occupational Therapy in Chronic Condition Management in Primary Care." 2021 (\$49,987) [PI: Dahl & Popolizio].

50. National Institutes of Health. "BIOMINDS: ASU Biomedical Informatics and Data Science Research Training Program." 2021. (\$5,886,809). [PI: Wang].

49. University of Arizona, National Institutes of Health. "Arizona Clinical Center for Nutrition for Precision Health." 2021. (\$6,645,071). [PI: Whisner].

48. Mayo Clinic Rochester, National Institutes of Health. "Artificial Intelligence and Bioinformatics Innovation: An Integrative Collaboration." 2021. (4,392,780). [PI: Dinu].

**2020 (n=7)**

47. Southwest Interdisciplinary Research Center (SIRC), Arizona State University, Seed Grant Program. "Development of a dashboard to promote safety in traveling to school." 2020 [PI: Ross]

46. National Institutes for Health (NIDDK). "Using novel statistical techniques to assess temporal, spatial, and behavioral predictors of sleep." 2020 (\$702,024). [PI: Banks & Buman].

45. Social Science Research Council. "Smart, healthy, and safe." (\$9,999). [PI: Budruk & Buman].

44. College of Health Solutions JumpStart Grant Initiative. "*A Novel Application of Behavioral Economics to Promote More Persistent Reductions in Sedentary Screen Time.*" April 2019 (\$18,000). [PI: Stecher].

43. National Institutes of Health. Using novel statistical techniques to assess temporal, spatial, and behavioral predictors of racial/ethnic disparities of sleep and diabetes in adults. 2020 (\$702,024). [PI: Sears].

42. Social Science Research Council. Smart, healthy, and safe: A data fusion approach to transform public green space behavioral and use. 2020 (\$9,999). [PI: Budruk].

41. ASU Southwest Interdisciplinary Research Center (SIRC). Developing a Dashboard for Active Transportation to School (DATS): A Pilot Study Using Community-Based Citizen Science to Improve the Safety of Children Walking in Diverse and Lower-Income Communities. 2020 (\$50,000). [PI: Ross].

**2019 (n=6)**

40. PAC-12 Conference. "Off-court behaviors assessment and prediction to improve student athlete wellbeing and on-court performance" 2019 (\$329,310). [PI: Coza].

39. National Institutes of Health, National Cancer Institute (R01). Being mindful about chronic cancer treatment: Delivery of meditation using a consumer-based app to improve myeloproliferative neoplasm symptom burden." 2019. (\$3,695,221). [PI: Huberty].
38. Health and Human Services, Office of the Assistant Secretary for Health (OASH). "Youth Engagement in Sports (YES)." 2019. (\$734,339). [PI: Ross].
37. Arizona State University Foundation (ASUF), Women and Philanthropy. "Keeping a pulse on Arizona Health through the ASU Community Cohort." 2019. (\$99,999). [PI: Whisner].
36. Arizona State University Foundation (ASUF), Women and Philanthropy. "The future workstation project: Integrating design, engineering, and arts for enhancing health and well-being on the job." 2019. (\$99,883). [PI: Turaga].
35. National Institutes of Health, National Library of Medicine (T32). "Training program in clinical-behavioral data sciences." 2019. (\$139,292). [PI: Heltizer & Rivera].

**2018 (n=1)**

34. National Science Foundation. "Strategies: STEM: Journeys in Health Exploration" 2018. (\$1,199,782). [PI: Greenes].

**2017 (n=3)**

33. National Institutes of Health, National Center for Complementary and Integrative Health (R01). "*Can online yoga improve fatigue in MPN patients? The Mindful health for MPN study.*" Resubmission - 2017 (\$3,629,477). [PI: Huberty].
32. 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].
31. Department of Defense. "Smart warfighter optimal readiness diagnostic (SWORD) system." 2017 (\$3,929,595). [PI: Ross]

**2016 (n=7)**

30. National Science Foundation. "SCH: INT: Collaborative Research: Just-in-Time State Estimation for Notifications" 2016. (\$1,281,316). [PI: Hekler].
29. National Institutes of Health. "Integrated research training in biomedical informatics & data science (BMI x DS)" 2016. (\$5,577,873). [PI: Wang].
28. National Institutes of Health, National Center for Complementary and Integrative Health (R01). "*Can online yoga improve fatigue in MPN patients? The Mindful health for MPN study.*" 2016 (\$3,503,248). [PI: Huberty].
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].

**2015 (n=3)**

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].

**2014 (n=10)**

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." 2014 (\$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." 2014 (\$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" 2014 [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].

**2013 (n=3)**

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)" 2013 (\$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].

**2012 (n=6)**

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].

**2011 (n=1)**

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 (N=4)**

**2021 (n=2)**

4. West Virginia University School of Public Health R01. "Using natural language processing to optimize a social cognitive theory-based, multilevel online intervention to promote physical activity among women in midlife." [PI: Hand].

3. National Institutes of Health (R44). "mDGS: a novel mobile dietary guidance system for the management of type 2 diabetes using CGM-based hyperglycemia prediction." 2021. [PI: Schembre]

**2014 (n=1)**

2. National Institutes of Health (NIH P01) "Combined behavioral interventions to enhance functional wellbeing in breast cancer survivors" 2014 [PI: King].

**2013 (n=1)**

1. Aetna Foundation 2013. "Changing obesity in reproductive age women" (\$149,422) [PI: Coonrod].

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**SPONSORED RESEARCH FUNDING (PRIOR TO ASU) (N=7)**

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." [MPI: 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****2025 or in press (n total = 10; n first/senior/corresponding author = 3)**

197. Jeong JC, **Buman MP**, Turaga P, Jeon ES. Image Representation-Driven Knowledge Distillation for Improved Time-Series Interpretation on Wearable Sensor Data. *Sensors*. 2025 Oct 16;25(20):6396. [doi.org/10.3390/s25206396](https://doi.org/10.3390/s25206396)
196. Dibben GO, Santillan C, Brage S, **Buman MP**, Duncan E, Granat MH, Hillsdon M, Martin A, Matthews CE, McCrorie P, Taylor RS. Reporting of Accelerometry in Health Research: A Scoping Review of Current Guidance. *Scandinavian Journal of Medicine & Science in Sports*. 2025 Oct;35(10):e70143. [doi.org/10.1111/sms.70143](https://doi.org/10.1111/sms.70143)
195. Khatib M, Shah R, Mendhe S, Whisner CM, **Buman MP**. Bridging the divide: barriers and facilitators to equitable community-academic partnerships in health research. *Frontiers in Public Health*. 2025 Sep 16;13:1617908. [doi.org/10.3389/fpubh.2025.1617908](https://doi.org/10.3389/fpubh.2025.1617908)
194. Khan O, Rivera DE, Petrov ME, **Buman MP**. Optimizing CPAP Adherence and Quality of Life in Obstructive Sleep Apnea Patients using 3DoF-KF Hybrid Model Predictive Control. In *2025 IEEE Conference on Control Technology and Applications (CCTA)* 2025 Aug 25 (pp. 157-162). IEEE. [doi.org/10.1109/CCTA53793.2025.11151523](https://doi.org/10.1109/CCTA53793.2025.11151523)
193. Keadle SK, Hasanaj K, Leonard KS, Fernandez A, Freid L, Weiss S, Legato M, Anand H, Hagobian TA, Phillips SM, Phelan S, **Buman MP**. StandUPTV: a full-factorial optimization trial to reduce sedentary screen time among adults. *International Journal of Behavioral Nutrition and Physical Activity*. 2025 Jun 13;22(1):77. [doi.org/10.1186/s12966-025-01771-2](https://doi.org/10.1186/s12966-025-01771-2)
192. Troxel WM, Haas A, Ghosh-Dastidar B, Rosso AL, Hale L, **Buman MP**, Dubowitz T. Sustained impacts of neighborhood investments on sleep health over a 5-year period: Insights from a natural experiment in two urban neighborhoods in the United States. *Sleep Health*. 2025 Apr 21. [doi.org/10.1016/j.sleh.2025.03.009](https://doi.org/10.1016/j.sleh.2025.03.009)
191. Leonard KS, Larouche M, Mitchell NR, Rydell SA, Toledo MJ, Mullane SL, Hasanaj K, de Brito JN, **Buman MP**, Pereira MA. Maintenance effects of a multilevel workplace intervention to reduce sedentary time: twenty-four-month follow-up of the group randomized clinical trial 'Stand and Move at Work'. *International Journal of Behavioral Nutrition and Physical Activity*. 2025 Apr 7;22(1):39. [doi.org/10.1186/s12966-025-01731-w](https://doi.org/10.1186/s12966-025-01731-w)
190. Mamun A, Arefeen A, Racette SB, Sears DD, Whisner CM, **Buman MP**, Ghasemzadeh H. Glucolens: Explainable postprandial blood glucose prediction from diet and physical activity. arXiv preprint arXiv:2503.03935. 2025 Mar 5. [arxiv.org/html/2503.03935v1](https://arxiv.org/html/2503.03935v1)
189. Lewis BA, Napolitano MA, **Buman MP**, Williams DM, Nigg CR. Physical activity interventions: an update on advancing sedentary time, technology, and dissemination and implementation research. *Journal of Behavioral Medicine*. 2025 Feb;48(1):99-110. [doi.org/10.1007/s10865-024-00533-y](https://doi.org/10.1007/s10865-024-00533-y)

188. Mamun A, Arefeen A, Racette SB, Sears DD, Whisner CM, **Buman MP**, Ghasemzadeh H. LLM-Powered Prediction of Hyperglycemia and Discovery of Behavioral Treatment Pathways from Wearables and Diet. *Sensors*. 2025 Jan;25(17):5372. doi:[doi.org/10.3390/s25175372](https://doi.org/10.3390/s25175372)

**2024 (n total = 6; n first/senior/corresponding author = 1)**

187. Jeon ES, Choi H, **Buman MP**, Turaga P. Role of Mixup in Topological Persistence Based Knowledge Distillation for Wearable Sensor Data," in *IEEE Sensors Journal*, doi: [10.1109/JSEN.2024.3517653](https://doi.org/10.1109/JSEN.2024.3517653).

186. Jeon ES, Choi H, Shukla A, Wang Y, **Buman MP**, Lee H, Turaga P. Robustness of topological persistence in knowledge distillation for wearable sensor data. *EPJ Data Sci*. 13, 77 (2024). doi:[doi.org/10.1140/epjds/s13688-024-00512-y](https://doi.org/10.1140/epjds/s13688-024-00512-y)

185. Lewis BA, Napolitano MA, **Buman MP**, Williams DM, Nigg CR. Physical activity interventions: an update on advancing sedentary time, technology, and dissemination and implementation research. *J Behav Med*. Published online November 10, 2024:1-12. doi: [doi.org/10.1007/s10865-024-00533-y](https://doi.org/10.1007/s10865-024-00533-y)

184. Mamun A, Leonard KS, Petrov ME, **Buman MP**, Ghasemzadeh H. Multimodal Physical Activity Forecasting in Free-Living Clinical Settings: Hunting Opportunities for Just-in-Time Interventions. Published online October 12, 2024. Accessed January 15, 2025. doi: [arxiv.org/abs/2410.09643](https://arxiv.org/abs/2410.09643)

183. Jeon ES, Choi H, Shukla A, Wang Y, Lee H, **Buman MP**, Turaga P. Topological persistence guided knowledge distillation for wearable sensor data. *Engineering Applications of Artificial Intelligence*. 2024 Apr 1; 130:107719. doi:[10.1016/j.engappai.2023.107719](https://doi.org/10.1016/j.engappai.2023.107719)

182. Keadle S, Hasanaj K, Leonard-Corzo K, Tolas A, Crosley-Lyons R, Pfisterer B, Legato M, Fernandez A, Lowell E, Hollingshead K, Yu TY, **Buman MP**. StandUPTV: Preparation and optimization phases of a mHealth intervention to reduce sedentary screen time in adults. *Contemporary Clinical Trials*. 2024 Jan 1; 136:107402. doi:[10.1016/j.cct.2023.107402](https://doi.org/10.1016/j.cct.2023.107402)

**2023 (n total = 7; n first/senior/corresponding author = 2)**

181. Petrov ME, Epstein DR, Krahn L, Todd M, Park JG, St. Louis EK, Morgenthaler TI, Hoffmann CM, Hasanaj K, Hollingshead K, Yu TY, **Buman MP**. SleepWell24, a Smartphone Application to Promote Adherence to Positive Airway Pressure Therapy: Feasibility and Acceptability in a Randomized Controlled Trial. *Behavioral Sleep Medicine*. 2023 Dec 2:1-3. doi:[10.1080/15402002.2023.2289442](https://doi.org/10.1080/15402002.2023.2289442)

180. Jeon ES, Choi H, Shukla A, Wang Y, **Buman MP**, Turaga P. Constrained Adaptive Distillation Based on Topological Persistence for Wearable Sensor Data. *IEEE Transactions on Instrumentation and Measurement*. 2023 Nov 3. doi:[10.1109/TIM.2023.3329818](https://doi.org/10.1109/TIM.2023.3329818)

179. Colburn AT, **Buman MP**, Wutich A, Vega-López S, Ohri-Vachaspati P, Kavouras SA. Determinants of tap water mistrust among Phoenix, Arizona Latinx adults. *Journal of Water and Health*. 2023 Jun 1; 21(6):702-18. doi:[10.2166/wh.2023.267](https://doi.org/10.2166/wh.2023.267)
178. Wilson SL, Crosley-Lyons R, Junk J, Hasanaj K, Larouche ML, Hollingshead K, Gu H, Sears, DD, **Buman MP**. Effects of Increased Standing and Light-Intensity Physical Activity to Improve Postprandial Glucose in Sedentary Office Workers: Protocol for a Randomized Crossover Trial. *JMIR Res Protoc*. 2023; 12:e45133. 2023 Aug 23. doi:[10.2196/45133](https://doi.org/10.2196/45133)
177. Ablah E, **Buman MP**, Petersen L, et al. Effects of Changing Work Environments on Employer Support for Physical Activity During COVID-19. *Am J Health Promot*. 2023;37(5):730-733. doi:[10.1177/08901171231172013c](https://doi.org/10.1177/08901171231172013c)
176. Stecher C, Pfisterer B, Harden SM, Epstein D, Hirschmann JM, Wunsch K, **Buman MP**. Assessing the Pragmatic Nature of Mobile Health Interventions Promoting Physical Activity: Systematic Review and Meta-analysis. *JMIR Mhealth Uhealth*. 2023;11:e43162. 2023 May 4. doi:[10.2196/43162](https://doi.org/10.2196/43162)
175. Toledo MJL, Ainsworth BE, Gaesser GA, Hooker SP, Pereira MA, **Buman MP**. Does frequency or duration of standing breaks drive changes in glycemic response? A randomized crossover trial. *Scand J Med Sci Sports*. 2023;33(7):1135-1145. doi:[10.1111/sms.14344](https://doi.org/10.1111/sms.14344)

**2022 (n total = 11; n first/senior/corresponding author = 3)**

174. Jeon ES, Som A, Shukla A, Hasanaj K, **Buman MP**, Turaga, P. Role of Data Augmentation Strategies in Knowledge Distillation for Wearable Sensor Data. *IEEE Internet of Things Journal*, 9(14): 12848-12860 (2022). doi:[10.1109/JIOT.2021.3139038](https://doi.org/10.1109/JIOT.2021.3139038)
173. Brakenridge CJ, Gardiner PA, Grigg RV, Winkler EAH, Fjeldsoe BS, Schamberg MA, Owen N, Eakin EG, Biddle SJH, Moodie M, Daly RM, Green DJ, Cohen N, Gray L, Comans T, **Buman MP**, Goode AD, Nguyen P, Gao L, Healy GN, Dunstan DW. Sitting less and moving more for improved metabolic and brain health in type 2 diabetes: ‘OPTIMISE your health’ trial protocol. *BMC Public Health*. 2022; 929 (2022). doi:[10.1186/s12889-022-13123-x](https://doi.org/10.1186/s12889-022-13123-x)
172. Leonard KS, Mullane SL, Golden CA, Rydell SA, Mitchell NR, Koskan A, Estabrooks PA, Pereira MA, **Buman MP**. Qualitative comparative analysis of the implementation fidelity of a workplace sedentary reduction intervention. *BMC Public Health* 22, 1086 (2022). doi:[10.1186/s12889-022-13476-3](https://doi.org/10.1186/s12889-022-13476-3)
171. Vidmar AP, Cáceres NA, Schneider-Worthington CR, Shirazipour C, **Buman MP**, de la Haye K, Salvy SJ. Integration of Time-Based Recommendations with Current Pediatric Health Behavior Guidelines: Implications for Obesity Prevention and Treatment in Youth. *Curr Obes Rep* 11, 236–253 (2022). doi:[10.1007/s13679-022-00491-z](https://doi.org/10.1007/s13679-022-00491-z)

170. Abrantes A, Meshesha L, Blevins CE, Battle C, Lindsay C, Marsh E, Feltus S, **Buman MP**, Agu E, Stein M. A Smartphone Physical Activity App for Patients in Alcohol Treatment: Single-Arm Feasibility Trial. *JMIR Form Res* 2022;6(10):e35926. doi:[10.2196/35926](https://doi.org/10.2196/35926)
169. Leonard KS, de Brito JN, Larouche ML, Rydell, SA, Mitchell, NR, Pereira, MA, **Buman, MP**. Effect of Weight Goals on Sitting and Moving during a Worksite Sedentary Time Reduction Intervention. *Translational Journal of the ACSM* 7(4):e000210, Fall 2022. doi:[10.1249/TJX.0000000000000210](https://doi.org/10.1249/TJX.0000000000000210)
168. Michaud TL, You W, Estabrooks PA, Leonard K, Rydell SA, Mullane SL, Pereira MA, **Buman MP**. Cost and cost-effectiveness of the ‘Stand and Move at Work’ multicomponent intervention to reduce workplace sedentary time and cardiometabolic risk. *Scand J Work Environ Health* 2022;48(5):399-409. doi:[10.5271/sjweh.4022](https://doi.org/10.5271/sjweh.4022)
167. Chevance G, Golaszewski NM, Tipton E, Hekler EB, **Buman MP**, Welk GJ, Patrick K, Godino JG. Accuracy and Precision of Energy Expenditure, Heart Rate, and Steps Measured by Combined-Sensing Fitbits Against Reference Measures: Systematic Review and Meta-analysis. *JMIR Mhealth Uhealth* 2022;10(4):e35626. doi:[10.2196/35626](https://doi.org/10.2196/35626)
166. Szeszulski J, Lorenzo E, Todd M, O’Connor TM, Hill J, Shaibi GQ, Vega-López S, **Buman MP**, Hooker SP, Lee RE. Early Care and Education Center Environmental Factors Associated with Product- and Process-Based Locomotor Outcomes in Preschool-Age Children. *International Journal of Environmental Research and Public Health*. 2022; 19(4):2208. doi:[10.3390/ijerph19042208](https://doi.org/10.3390/ijerph19042208)
165. Green J, Larkey L, Leiferman JA, **Buman MP**, Oh C, Huberty J. Prenatal yoga and excessive gestational weight gain: A review of evidence and potential mechanisms. *Complementary Therapies in Clinical Practice*. 46 (2022) 101551. doi:[10.1016/j.ctcp.2022.101551](https://doi.org/10.1016/j.ctcp.2022.101551)

**2021 (n total = 12; n first/senior/corresponding author = 0)**

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**2018 (n total = 22; n first/senior/corresponding author = 4)**

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#### **2017 (n total = 16; n first/senior/corresponding author = 4)**

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**2016 (n total = 21; n first/senior/corresponding author = 4)**

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

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**2014 (n total = 10; n first/senior/corresponding author = 3)**

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**2011 (n total = 5; n first/senior/corresponding author = 3)**

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**2009 (n total = 2; n first/senior/corresponding author = 2)**

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**2008 (n total = 3; n first/senior/corresponding author = 2)**

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2. Cox JE, **Buman MP**, Valenzuela J, Joseph NP, Mitchell A, Woods ER. Depression, parenting attributes, and social support among adolescent mothers attending a teen tot program. *Journal of pediatric and adolescent gynecology*. 2008;21(5):275–281.  
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**LETTERS TO THE EDITOR (n total = 1; n first/senior/corresponding author = 1)**

1. Cellini N, McDevitt EA, Mednick SC, **Buman MP**. Response to the letter to the editor from Dr. Kawada, “Comparison of two accelerometers for monitoring sleep: Agreement and validity”. *Physiology & Behavior*. 2016;163:333. doi:[10.1016/j.physbeh.2016.04.031](https://doi.org/10.1016/j.physbeh.2016.04.031)

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**MANUSCRIPTS IN REVIEW (n total = ?; n first/senior/corresponding author = ?)**

*NOT CURRENTLY UPDATED*

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**MANUSCRIPTS IN PREPARATION (n total = ?; n first/senior/corresponding author = ?)**

*NOT CURRENTLY UPDATED*

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**PAPERS PUBLISHED IN CONFERENCE PROCEEDINGS**

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>

**2023 (n total = 0; n first/senior/corresponding author = 0)****2022 (n total = 0; n first/senior/corresponding author = 0)****2021 (n total = 0; n first/senior/corresponding author = 0)****2020 (n total = 2; n first/senior/corresponding author = 0)**

16. Shin D, **Buman MP**, Turaga P, Kidane A, Ingalls T. New Investment of Innovative Design of The Future Workstation Advancing Sedentary Work Behavior, In: *Proceedings of The 3<sup>rd</sup> International Conference on Human Interaction and Emerging Technologies (IHET 2020)*, 2020, vol 1253, Pages 371-376. doi: [10.1007/978-3-030-55307-4\\_56](https://doi.org/10.1007/978-3-030-55307-4_56)
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12. Lee J, Walker E, Burlison W, Kay M, **Buman MP**, Hekler EB. Self-Experimentation for Behavior Change. In: *Proceedings of the 2017 CHI Conference on Human Factors in Computing Systems - CHI '17*. New York, New York, USA: ACM Press; 2017:6837–6849. doi:[10.1145/3025453.3026038](https://doi.org/10.1145/3025453.3026038)
11. Niazi AH, Yazdansepas D, Gay JL, Maier FW, Ramaswamy L, Rasheed K, **Buman MP**. Statistical Analysis of Window Sizes and Sampling Rates in Human Activity Recognition. In: *Proceedings of the 10th International Joint Conference on Biomedical Engineering Systems and Technologies*. ; 2017:319–325. doi:[10.5220/0006148503190325](https://doi.org/10.5220/0006148503190325)

**2016 (n total = 5; n first/senior/corresponding author = 3)**

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8. [Wang Q](#), [Lohit S](#), Toledo MJ, **Buman MP**, Turaga P. A statistical estimation framework for energy expenditure of physical activities from a wrist-worn accelerometer. In: *Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBS*. Vol 2016-Octob. IEEE; 2016:2631–2635. doi:[10.1109/EMBC.2016.7591270](https://doi.org/10.1109/EMBC.2016.7591270)
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**2014 (n total = 1; n first/senior/corresponding author = 0)**

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**2014 (n total = 2; n first/senior/corresponding author = 1)**

3. Hekler EB, Klasnja P, Froehlich JE, **Buman MP**. Mind the Theoretical Gap: Interpreting, Using, and Developing Behavioral Theory in HCI Research. In: *Chi 2013*. ; 2013:3307–3316. doi:[10.1145/2470654.2466452](https://doi.org/10.1145/2470654.2466452)
2. Shin D, Crespo NC, **Buman MP**. Design and health promotion combating sedentary behavior. In: *Proceedings of the Industrial Design Society of America*. 2013. <https://www.idsa.org/content/design-and-health-promotion-combating-sedentary-behavior>

**2011 (n total = 1; n first/senior/corresponding author = 0)**

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**PEER-REVIEWED BOOK CHAPTERS (n=4)**

**2023 (n total = 1; n first/senior/corresponding author =1)**

5. Leonard, KS, Mullane SL, Pereira MA, **Buman MP**. Sedentary Behaviour at the Community Level: Correlates, Theories, and Interventions. *Sedentary Behaviour Epidemiology*. Springer; 2023:631-679. doi:[10.1007/978-3-031-41881-5\\_23](https://doi.org/10.1007/978-3-031-41881-5_23)

**2018 (n total = 1; n first/senior/corresponding author = 1)**

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](https://doi.org/10.1007/978-3-319-61552-3_16)

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

3. Scales R, **Buman MP**. Paradigms of Lifestyle Medicine and Wellness. In: *Lifestyle Medicine*. Springer; 2016:29–40. doi:[10.1007/978-3-319-24687-1\\_4](https://doi.org/10.1007/978-3-319-24687-1_4)

**2015 (n total = 1; n first/senior/corresponding author = 1)**

2. **Buman MP**, Youngstedt SD. Physical Activity, Sleep, and Biobehavioral Synergies for Health. In: *Sleep and Affect: Assessment, Theory, and Clinical Implications*. Elsevier Inc.; 2015:321–337. doi:[10.1016/B978-0-12-417188-6.00015-3](https://doi.org/10.1016/B978-0-12-417188-6.00015-3)

**2014 (n total = 3; n first/senior/corresponding author = 1)**

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 (N=2)**

2. **Buman MP**, Hekler EB. Mixed-effects models. *Encyclopedia of Quality of Life Research*. 2024.
3. Hekler EB, **Buman MP**. Power to detect meaningful effects. *Encyclopedia of Quality of Life Research*. 2024.
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 & PRESENTATIONS (N=48)**

**2024 (n total = 1; n first/senior/corresponding author = 1)**

50. Hasanaj K, Leonard-Corzo K, Sears DD, Yu F, Petrov ME, Keadle SK, **Buman MP**. Reallocating Recreational Sedentary Screen Time and 24-Hour Behaviors: Associations with Adiposity in Adults with High Levels of Reported Screen Time. International Conference on Ambulatory Monitoring of Physical Activity and Movement (ICAMPAM). Poster Presentation. Rennes, Brittany, France. June 2024

**2023 (n total = 0; n first/senior/corresponding author = 0)**

**2022 (n total = 5; n first/senior/corresponding author = 4)**

49. Mamun M, Leonard KS, **Buman MP**, Ghasemzadeh H, Multimodal Time-Series Activity Forecasting for Adaptive Lifestyle Intervention Design. 2022 IEEE-EMBS International Conference on Wearable and Implantable Body Sensor Networks (BSN), Ioannina, Greece, 2022, pp. 1-4, doi:[10.1109/BSN56160.2022.9928521](https://doi.org/10.1109/BSN56160.2022.9928521)
48. Michaud T, You W, Estabrooks P, Leonard K, Rydell S, Mullane S, Pereira M, **Buman MP**. Cost and cost-effectiveness analysis of the Stand & Move at Work intervention to improve sedentary behavior at work. Paper presented at the International Society of Behavioral Nutrition and Physical Activity, Phoenix, AZ, May 2022.
47. **Buman MP**, Pereira. S.1V.04 - Scalable approaches to supporting workers to stand up, sit less and move more at work. Symposium presented at the International Society of Behavioral Nutrition and Physical Activity, Phoenix, AZ, May 2022.
46. **Buman MP**, Pereira M, Estabrooks P, Healy G, Goode A, Rydell S, LaRouche M, Martin M, Koskan A, Mitchell N, Michaud T, You W. Stand & Move at Work II: A group randomized hybrid effectiveness-implementation of a work-based intervention to reduce sitting and increase light-intensity physical activity. Paper presented at the International Society of Behavioral Nutrition and Physical Activity, Phoenix, AZ, May 2022.
45. Dall P, Ahmadi M, Bassett D, **Buman MP**, Clevenger K, Saint-Maurice P, Sirard J. Getting your research published. Panel discussion presented at the International Conference on Ambulatory Monitoring of Physical Activity and Movement, Keystone, CO, June 2022.
44. Leonard K, Mamun A, Ghasemzadeh H, **Buman MP**. An empirical approach to understand mHealth application engagement and its associations with daily changes in physical activity in a lifestyle intervention among US Veterans with Prediabetes. Symposium presented at the International Conference on Ambulatory Monitoring of Physical Activity and Movement, Keystone, CO, June 2022.

**2021 (n total = 6; n first/senior/corresponding author = 4)**

43. Stamatakis E, Katzmarzyk PT, Saunders T, **Buman MP**. Review and comparison of new sedentary behaviour guidelines in adults and older adults for the United States, Canada, and the World Health Organization has been reviewed by the Scientific Committee Global Leadership group and has been accepted for presentation at the 8th ISPAH Congress.

Paper presented at the International Society of Physical Activity and Health, Virtual, October 2021.

42. **Buman, MP**. Updating evidence and crafting stand-alone sedentary behaviour guidelines for the WHO. Symposium presented at the International Society of Physical Activity and Health, Virtual, October 2021.
41. **Buman MP**. Sit less, move more, sleep better: Using research and consumer wearables in 24-hr behaviour change interventions. Workshop presented at the International Conference on Ambulatory Monitoring of Physical Activity and Movement, Virtual, June 2021.
40. Hasanaj K, Leonard K, Kozey-Keadle S, Petrov M, **Buman MP**. Activity bout accumulation patterns in two clinical samples using FitBit Charge 2 activity monitor. Presented at the International Conference on Ambulatory Monitoring of Physical Activity and Movement, Virtual, June 2021.
39. Tolas A, Lyons R, Hasanaj K, Tran A, Popal L, Patel A, **Buman MP**, Keadle S. Validation of a Multi-Sensor System to Detect Sedentary Screen Time in Overweight/Obese Adults. Presented at the International Conference on Ambulatory Monitoring of Physical Activity and Movement, Virtual, June 2021.
38. Lyons R, Hasanaj K, McCracken K, Der Ananian C, **Buman MP**. Project COPE: An Investigation of Daily Experiences of Stress, Physical Activity, and Sleep during COVID-19 Pandemic. Presented at the International Conference on Ambulatory Monitoring of Physical Activity and Movement, Virtual, June 2021.

**2020 (n total = 0; n first/senior/corresponding author = 0)**

**2019 (n total = 5; n first/senior/corresponding author = 0)**

37. Chastin S, McGregor D, Palarea-Albaladejo, **Buman MP**, del Pozo-Cruz B. Compositional data group based trajectory analysis for physical behaviours. Paper presented at the International Conference on Ambulatory Monitoring of Physical Activity and Movement, Maastricht, Netherlands, June 2019.
36. Chastin S, Helbostad J, Holtermann A, **Buman MP**. ALPHABET: taxonomy of daily physical behaviours, consensus phase 2. Symposium presented at the International Conference on Ambulatory Monitoring of Physical Activity and Movement, Maastricht, Netherlands, June 2019.
35. Winkler E, Dall P, **Buman MP**. We need to talk. The absolute basics of getting your device data and other date-time stamped data sources to talk to each other. Workshop presented at the International Conference on Ambulatory Monitoring of Physical Activity and Movement, Maastricht, Netherlands, June 2019.
34. Chastin S, McGregor DE, Palarea-Albaladejo J, **Buman MP**, del Pozo-Cruz B. Compositional data group based trajectory analysis for activity and dietary data. Paper presented at the International Society of Behavioral Nutrition and Physical Activity, Prague, Czech Republic, June 2019.

33. Del Pozo-Cruz B, McGregor DE, **Buman MP**, Palarea-Albaladejo, Chastin S. Integrating diet and 24-hours physical behaviours to predict all-cause mortality risk: A cluster compositional data analysis in the NHANES 2005-2006 cycle. Paper presented at the International Society of Behavioral Nutrition and Physical Activity, Prague, Czech Republic, June 2019.

**2018 (n total = 6; n first/senior/corresponding 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/senior/corresponding author = 2)**

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/senior/corresponding 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/senior/corresponding 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/senior/corresponding author = 1)**

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/senior/corresponding author = 4)**

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-Ith 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-Ith 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/senior/corresponding 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, Mezas 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 & CONFERENCE PRESENTATIONS (N=140)**  
**2025 (n total = 1; n first/senior/corresponding author = 0)**

**2024 (n total = 1; n first/senior/corresponding author = 0)**

144. Ylarregui K, Keadle S, Hasanaj K; Leonard-Corzo K, **Buman MP**. Using Act24 to Assess Changes in Domain-specific Sedentary Time in Response to a mHealth Intervention to Reduce Sedentary Screen Time: 3092: Presented at the American College of Sports Medicine, Boston, 2024.
143. Hasanaj K, Leonard-Corzo K, Sears D, Yu F, Petrov M, Keadle S, **Buman MP**. Person-level And Daily Associations Of Recreational Sedentary Screen Time With Sedentary Time, Physical Activity, And Sleep: 3088: Presented at the American College of Sports Medicine, Boston, 2024.

142. **Buman MP**. TITLE Tutorial Lecture?. Presented at the American College of Sports Medicine, Boston, 2024.

141. Keadle SK, Buman MP, **Hasanaj K**. Reducing Sedentary Screen Time: Building Optimized Interventions to Improve Health. Tutorial Lecture. American College of Sports Medicine (ACSM) Annual Meeting. Boston, MA. May 2024

**2023 (n total = 0; n first/senior/corresponding author = 0)**

**2022 (n total = 4; n first/senior/corresponding author = 1)**

140. Rand BG, Ehrlich SF, Ferrara A, Crouter SE, **Buman MP**, Hedderson M, Brown SD. Diaries Compared To Automated Algorithms And Visual Inspection For Bed Time Estimation At 6-months Postpartum: Presented at the American College of Sports Medicine, San Diego, 2022.

139. Ruiz-Tejada A, Neisewander J, Sadleir R, **Buman MP**, Katsanos CS. Effects Of Transcranial Direct Current Stimulation On Physical Activity In Healthy Subjects: A Pilot Study. Presented at the American College of Sports Medicine, San Diego, 2022.

138. Petrov M, Youngstedt S, Epstein D, **Buman MP**. Covid-19 Pandemic Impact on Sleep Disturbances is Dependent on Race. Paper presented at the Society of Behavioral Medicine, Baltimore, 2022.

137. Leonard KS, Mullane SL, Golden CA, Rydell SA, Mitchell NR, Koskan A, Estabrooks PA, Pereira MA, **Buman MP**. Qualitative Comparative Analysis of Implementation Fidelity of a Workplace Sedentary Behavior Intervention. Paper presented at the Society of Behavioral Medicine, Baltimore, 2022.

**2021 (n total = 1; n first/senior/corresponding author = 0)**

136. Petrov M, **Buman MP**, Epstein D, Youngstedt S, Hoffmann N, Mattingly J, Hasanaj K, Jiao N, Kasraeian K, Sominsky A, Stievater E. 660 Chronotype Associations with Insomnia, Depressive Symptoms, and Changes in Sleep and Health Behaviors during the COVID-19 Pandemic. *Sleep*. 2021 May;44(Supplement\_2):A258-.

**2020 (n total = 8; n first/senior/corresponding author = 3)**

135. Vizcaino M, **Buman MP**, DesRoches T, Wharton C. A screentime diet intervention for adults. Paper presented at the American Public Health Association, Virtual, 2020.

134. Richardson A, Troxel W, Ghosh-Dastidar B, Hunter G, Beckman R, Collins R, Holliday S, Nugroho A, Hale L, Buysse D, **Buman MP**, Dubowitz T. Violent crime, police presence and poor sleep in two low-income urban predominantly African American neighborhoods. Paper presented at the American Public Health Association, Virtual, 2020.

133. Kessler R, Berkel C, **Buman MP**, Brenhofern S, Leischow S. If you want more research based practice, you need more practice based and early stage D&I trained researchers

(borrowed and slightly changed from Larry Green). Paper presented at the Science of Implementation and Dissemination in Health Annual Conference, Virtual, 2020.

132. Petrov M, Hasanaj K, **Buman MP**. Sleepwell24, A Smartphone Application To Promote PAP Therapy Adherence: Feasibility And Acceptability. SLEEP annual conference, Virtual, 2020.
131. Pereira, MA, Toledo MJ, Mullane SL, Rydell SA, Gaesser GA, Crespo NC, Hannan P, Feltes L, Vuong B, **Buman MP**. 24-Month Follow-Up of the 'Stand and Move at Work' Sedentary Behavior Intervention: Effects on Cardiometabolic Risk in Those With Dysglycemia. American Heart Association Epidemiology and Prevention Annual Meeting. Phoenix, AZ, February 2020.
130. Larouche M, Pereira, MA, Toledo MJ, Mullane SL, Rydell SA, Gaesser GA, Crespo NC, Hannan P, Feltes L, Vuong B, **Buman MP**. 24-month Follow-up Of The 'Stand And Move At Work' Sedentary Behavior Intervention: Effects On Workplace Sitting Time. American Heart Association Epidemiology and Prevention Annual Meeting. Phoenix, AZ, February 2020.
129. Rosenberg D, Keadle SK, **Buman MP**, Welch WA, Fanning J. Advancing the research agenda: Current epidemiology, measures and interventions for sedentary behavior. Society of Behavioral Medicine Annual Meeting, Virtual, 2020.
128. **Buman MP**. Sitting, standing, and moving: Concepts and measurement of sedentary behavior in behavioral interventions. Society of Behavioral Medicine Annual Meeting, Virtual, 2020.

**2019 (n total = 3; n first/senior/corresponding author = 1)**

127. **Buman MP**. Wearable technology and health behavior change. Poster presented at the Arizona Wellbeing Commons, Phoenix, AZ, 2019.
126. Vander Wyst KB, **Buman MP**, Shaibi GQ, Petrov ME, Reifsnider E, Whisner CM. Dietary macronutrient composition and gestational weight gain among pregnant women during the second trimester. Paper presented at the Annual Nutrition Science Meeting, Baltimore, MD, 2019.
125. Vander Wyst KB, **Buman MP**, Shaibi GQ, Petrov ME, Reifsnider E, Whisner CM. Evaluation of variability in resting energy expenditure and its relationship with macronutrients and gestational weight gain during the second trimester of pregnancy. Paper presented at the Annual Nutrition Science Meeting, Baltimore, MD, 2019.

**2018 (n total = 13; n first/senior/corresponding 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 isometric 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/senior/corresponding 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 isotemporal 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/senior/corresponding 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/senior/corresponding 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/senior/corresponding 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 monitors 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/senior/corresponding 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/senior/corresponding 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/senior/corresponding 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/senior/corresponding 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/senior/corresponding 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/senior/corresponding 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/senior/corresponding 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/senior/corresponding 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/senior/corresponding 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/senior/corresponding 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/senior/corresponding 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 (N=24)**

**2022 (n=2)**

24. **Buman MP**. Apps, games, and social media, #OhMy!. Workshop presented at the International Society of Behavioral Nutrition and Physical Activity, Phoenix, AZ, May 2022.

23 **Buman MP**. Be active, sit less, and sleep better: Can we target it all? Workshop presented at the American College of Sports Medicine, San Diego, CA, June 2022.

**2021 (n=0)**

**2020 (n=0)**

**2019 (n=3)**

22. **Buman MP**, Maher J, Kwan M, Staiano A. Using ecological momentary assessment to investigate contextual factors impacting affective-response to physical activity. Symposium presented at the Society of Behavioral Medicine Meeting, Washington, DC, March 2019.

21. **Buman MP**, Calo W, Constantino R, Hayman L, Hughes Halbert C, Nebeker C, Oliver K, Sheinfeld Gorin S. Ethics and values in behavioral medicine: Discussions for the future. Panel discussion presented at the Society of Behavioral Medicine Meeting, Washington, DC, March 2019.

20. **Buman MP**, Cadmus-Bertram L, Fanning J, Perna F, Rosenberg D. Innovative approaches to physical activity promotion and sedentary behavior reduction interventions. Workshop presented at the Society of Behavioral Medicine Meeting, Washington, DC, March 2019.

**2018 (n=1)**

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.

**2017 (n=1)**

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.

**2016 (n=2)**

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.

**2015 (n=4)**

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.

#### **2014 (n=4)**

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.

#### **2013 (n=2)**

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.

#### **2012 (n=4)**

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.

**2011 (n=1)**

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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**INVITED LECTURES (N total=58; N int'l=16; N national=14; N local=28)**

**2025 (n total=2 n int'l=0; n national=2; n local=0)**

UNAM

**2024 (n total=2 n int'l=0; n national=2; n local=0)**

**2023 (n total=2 n int'l=0; n national=2; n local=0)**

**2022 (n total=2 n int'l=0; n national=2; n local=0)**

**2021 (n total=2 n int'l=0; n national=2; n local=0)**

59. Sit less, move more, sleep better: Health promotion in a 24 hour digital world. University of Iowa, April 2021.

**2020 (n total=2 n int'l=0; n national=2; n local=0)**

58. Assessing behaviors across the 24 hours: Implications for obesity interventions targeting sleep and physical activity. University of Alabama Birmingham. Birmingham, AL. January 2020.

57. Sit less, move more, sleep better: Health promotion in a 24 hour digital world. University of Utah, Salt Lake City, UT, January 2020.

**2019 (n total=5; n int'l=0; n national=3; n local=2)**

56. Using wearable technologies to assess and intervene to reduce sedentary time. University of California, San Diego, October 2019.

55. Additive, joint, or synergistic health impact of sleep and physical activity? Using novel methods to understand how distinct behaviors impact health. National Cancer Institute, Rockville, MD, June 2019.

54. Move more and sit less: Evidence-based approaches to reduce sitting time at work. Nutrition Alliance, LLC, Mesa, AZ, May 2019.

53. The science of sitting: From bench to workplace. AML Metabolomics Symposium, Mayo Clinic Arizona, March 2019.

53. Wearable sensors across the 24h day: Opportunities and challenges for assessment and intervention. UManage Center (P20), University of Massachusetts Amherst, March 2019.
52. Move more and sit less: Research-based guidelines on seated work. BETA Healthcare Group, US National Webinar, February 2019.

**2018 (n total=11; n int'l=10; n national=0; n local=1)**

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, Sao 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, Sao 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, Sao 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.

**2017 (n total=10; n int'l=2; n national=3; n local=5)**

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.

**2016 (n total=7; n int'l=1; n national=2; n local=4)**

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.
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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.

post-tenure  
pre-tenure

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.

**2015 (n total=13; n int'l=3; n national=1; n local=9)**

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.

**2014 (n total=3; n int'l=0; n national=0; n local=3)**

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.

**2013 (n total=2; n int'l=0; n national=2; n local=0)**

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.

**2012 (n total=3; n int'l=0; n national=1; n local=2)**

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.

**Before 2011 (n total=2; n local=2)**

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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**CREATIVE SCHOLARLY WORKS AND CONTRIBUTIONS TO POPULAR MEDIA (N=39)**

**2024 (n=1)**

39. Hill, Kashmir. I was addicted to my smartphone, so I switched to a flip phone for a month. <https://www.nytimes.com/2024/01/06/technology/smartphone-addiction-flip-phone.html>

**2023 (n=2)**

38. Fowler, Geoffrey (2023). Will an Apple Watch or Fitbit make you lose weight? Don't count on it. <https://www.washingtonpost.com/technology/2023/02/07/fitness-tracker-weight-loss/>

37. Holcombe, Madeline. (2023). Sitting too much is bad for your health, but offsetting the impact is easy, study shows.  
<https://www.cnn.com/2023/01/12/health/sitting-prolonged-study-wellness/index.html>

**2022 (n=1)**

36. Rosequist, Melissa (2022). The good, bad & unhealthy reality of digital screens. Retrieved October 21, 2022. [https://www.yourvalley.net/detail.html?sub\\_id=4dbbfe4ddc](https://www.yourvalley.net/detail.html?sub_id=4dbbfe4ddc)

**2021 (n=2)**

35. Rodenburg, Malissa (2021). Power Through the Finish: New Research on Hitting the Wall Could Help You Avoid It. Retrieved June 11, 2021.  
<https://www.womensrunning.com/training/road/hitting-the-wall-race-pace-research/>
34. Kass, Mikala (2021). The A to Zzz on sleep. Retrieved September 16, 2021.  
<https://research.asu.edu/zzz-sleep>

**2020 (n=2)**

33. Kaufman, Stephan (2020). Study on sitting and standing in the workplace. Aired on CBS News Radio and Westwood One "America in the Morning" on December 6, 2020. Retrieved January 17, 2021.
32. Greguska, Emma (2020). Tips for living well in 2020. Retrieved April 19, 2020.  
<https://asunow.asu.edu/20200110-solutions-asu-profs-share-tips-living-well-2020>

**2019 (n=3)**

31. National Cancer Institute (2019). Grantees: Matthew Buman and Mark Pereira. Retrieved January 5, 2020.  
<https://staffprofiles.cancer.gov/brp/granteeProfile.do?contactId=33654781&name=Matthew-Buman&grpld=52811>.
30. Greguska, Emma (2019). Working on your fitness: Yoga for pregnancy and new moms. Retrieved January 3, 2020.  
<https://asunow.asu.edu/20190128-solutions-working-your-fitness-yoga-pregnancy-and-new-moms>
29. Farrell, Sarah (2019). What can walking do for you? Retrieved January 3, 2020.  
<https://globalsportmatters.com/health/2019/09/09/what-can-walking-do-for-you/>

**2018 (n=7)**

28. Westfall, Austin (2018). Changes coming to the US Physical Activity Guidelines. Retrieved January 7, 2019. <https://kjzz.org/node/634834>.
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>.

26. Greguska, Emma (2018). For the last time, sitting is not the new smoking. Retrieved January 7, 2019.  
<https://asunow.asu.edu/20181011-solutions-last-time-sitting-not-new-smoking>.
25. Bustos, Ariana. (2018). ASU Researcher: Sitting is not the new smoking. Retrieved January 7, 2019. <https://kjzz.org/content/712938/asu-researcher-sitting-not-new-smoking>.
24. PBS Arizona Horizons (2018). New report shows sitting is not the new smoking. Retrieved January 7, 2019.  
<https://azpbs.org/horizon/2018/10/new-report-shows-sitting-is-not-the-new-smoking/>.
23. Bahl, Rajiv (2018). No, sitting isn't as bad as smoking a cigarette. Retrieved January 7, 2019. <https://www.healthline.com/health-news/no-sitting-isnt-smoking>.
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>.

#### **2016 (n=4)**

21. Pardi, Dan (2016). Introducing the humanOS Radio Podcast with Guest, Professor Matt Buman. Retrieved March 20, 2016:  
<http://blog.dansplan.com/introducing-the-humanos-radio-podcast-guest-professor-matt-buman/>.
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).

#### **2015 (n=2)**

17. Young, Bob. (2015) Beat the dog days of summer with these workout options. The Arizona Republic. Retrieved November 9, 2015:

<http://www.azcentral.com/story/travel/2015/07/22/beat-dog-days-summer-workout-options/30217029/>

16. McDonald, Ryan. (2015). Excessive sitting, TV viewing increase risk for sleep disturbance, apnea (2015). Healio Pulmonology. Retrieved November 10, 2015:  
<http://www.healio.com/pulmonology/sleep-disorders/news/online/%7Bd433cb7b-9837-4e96-a4a4-771012e710b3%7D/excessive-sitting-tv-viewing-increase-risk-for-sleep-disturbance-apnea>.

#### **2014 (n=5)**

15. McGinty, Jo Craven. (2014) Activity Trackers: Fit for Motivation, Not Precision. The Wallstreet Journal. Retrieved Jan 10, 2015:  
<http://www.wsj.com/articles/wearable-fitness-gadgets-fall-short-on-accuracy-but-theyre-good-cheerleaders-1420820247>
14. *Kurka JM*, **Buman MP**. (2014) Time is of the essence: How to best spend 30 minutes for your health. Obesity Panacea Blog. Retrieved September 9, 2014:  
[http://blogs.plos.org/obesitypanacea/2014/09/09/time-is-of-the-essence-how-to-best-spend-30-minutes-for-your-health/?utm\\_source=feedburner&utm\\_medium=feed&utm\\_campaign=Feed%3A+plos%2Fblogs%2Fobesitypanacea+%28Blogs+-+Obesity+Panacea%29](http://blogs.plos.org/obesitypanacea/2014/09/09/time-is-of-the-essence-how-to-best-spend-30-minutes-for-your-health/?utm_source=feedburner&utm_medium=feed&utm_campaign=Feed%3A+plos%2Fblogs%2Fobesitypanacea+%28Blogs+-+Obesity+Panacea%29)
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>

#### **2013 (n=2)**

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.

#### **2012 (n=2)**

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.

#### **2012 (n=4)**

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>.

**Before 2011 (n=3)**

3. **Buman MP**. Hitting the wall – and finishing. *Men's Health*. May 2009
2. **Buman MP**, Valenzuela J. YPP is Rowing Strong, Rowing Together. Children's Hospital Boston's Medicine Patient Services Newsletter, Summer 2004.
1. **Buman, MP**. *Review of Virtual Brands Video's Virtual Chicago*. Appeared in the Association for the Advancement of Applied Sport Psychology (AAASP) Newsletter, 2002.

## TEACHING

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### COURSES TAUGHT AT ASU

*BMI 515, Applied Biostatistics in Medicine and Informatics (Fall 2023, Fall 2024, Fall 2025):* Comprehensive treatment of the statistical methods used most often to analyze quantitative data collected in medical and biomedical informatics studies, including clinical trials, epidemiologic studies, studies of the accuracy and performance of screening and diagnostic tests, and studies to develop predictive models. Students learn to use SAS statistical software to analyze biomedical data.

*CHS 340, Health Theory (Fall 2020, Fall 2021, Fall 2022):* This course uses health theories to frame health and health outcomes in our society. Students learn about the application of health theories at different levels of influence: individual, social network, community, health system, and policies. Students develop a deeper consciousness of the intersections between people and their environment, as well as understand how influence on our health is constructed all around us.

*EXW 645, Advanced Applied Methods and Data Analysis (Fall 2013, Fall 2014, Fall 2015, Fall 2016, Fall 2017, Spring 2018, Spring 2019, Spring 2020, Spring 2021, Spring 2022):* 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.

*EXW 500, Research Methods (Fall 2019):* This course provides first-semester master's students in the Exercise and Wellness program with foundational instruction in research methods needed to critically read and comprehend published research in physical activity, wellness, and disease.

*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.

*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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## **STUDENT & TRAINEE MENTORING (N = 106)**

### **Postdoctoral research fellow mentorship (n total=4; n current=1)**

Masha Remskar, PhD, 2024-present  
Krista Leonard, PhD, 2020-2023.  
Sarah Mullane, PhD, 2015-2018.  
Carolina Diaz-Piedra, PhD, 2014-2016.

### **PhD Committee Chair (n total=6; n current=4)**

Rachel Crosley Lyons, University of Southern California, 2024-present  
Breanne Laird, PhD in ENS, 2019-2024.  
Kristina Hasanaj, PhD in ENS & Nursing and Healthcare Innovation, Graduated 2023.  
Miranda Larouche, PhD in Exercise and Nutritional Sciences, 2018-2023.  
Meynard John Toledo, PhD in Exercise and Nutritional Sciences, Graduated 2019.  
Theresa Floegel, PhD in PANW, Graduated 2015.

### **MS Committee Chair (n total=8, n current=1)**

Harsh Anand, MS in Health Systems Engineering, 2022-present.  
Rachel Lyons, MS in EXW, Graduated 2021.  
Kacee Olson, MS in EXW, Graduated 2019.  
Miranda Larouche, MS in EXW, Graduated 2018.  
Boyd Lanich, MS in Obesity Prevention, Graduated 2017.  
Anna Park, MS in EXW, Graduated 2014.  
Sarah Bryant, MS in EXW, 2013-2016.  
Amanda Gordon, MS in EXW, Graduated 2013.

### **PhD Committee Member (n total=29, n current=8)**

Kyle Kershner, PhD in ENS, 2022-present.  
Kylie Wilson, PhD in ENS, 2022-present.  
Michael Royer, PhD in ESE, Graduate 2023.

Jeffrey Patterson, PHD in ENS, 2021-2025.  
Jennifer Mattingly, PhD in Nursing and Healthcare Innovation, 2021-present.  
Juyong Kim, PhD in Family & Human Development, 2022-present.  
Anaissa Tejada, PhD in School of Life Sciences, Graduate 2023.  
Andrew Monaghan, PhD in ENS, 2020-2023.  
Karen Moreno, PhD in ENS, 2016-present.  
Christopher Perry in ENS, Graduate 2023.  
Abigail Colburn, PhD in ENS, Graduated 2020.  
Shannon Wilson, PhD in ENS, Graduated 2022.  
Armando Pena in ENS, Graduated 2022.  
Sayali Phatak, PhD in ENS, Graduated 2019.  
Jeni Matthews (Green), PhD in ENS, Graduated 2019.  
Jacob Szezulski, PhD in ENS, Graduated 2019.  
Heidi Lynch, PhD in ENS, Graduated 2019.  
Kiley Vander Wyst, PhD in ENS, Graduated 2019.  
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=14, n current=0)**

Gabriela Litevsky, Workplace intervention to reduce sitting, 2022  
Clayton Hui, TBD, 2017-2020.  
Hannah Fry, TBD, 2019-2020.  
Autumn Childers, TBD, 2018-2020.  
Abby Wojtas, Patient-provider communication via wearables and smartphones, 2016-2019.  
Alyssa Tong, Implementation outcomes in a workplace behavioral intervention, 2017-2019.  
Emily Meyer, Sedentary behavior and glucose control, 2017-2019.  
Kiley Davis, Smartphone interventions to improve PAP adherence, 2017-2019.  
Logan Martin, Sleep bout detection from a thigh-worn accelerometer, 2017-2019.  
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= 27, n current=2)**

Karsten Flantz  
Jacob Gauna  
Andie Slade

Kaamyaa Venkata Raghavan, 2022-present.  
Lieske Carleer, Graduated 2023.  
Gabriela Klix, 2021-2022.  
Maripaz (Mary) Claramunt, 2022-present.  
Jordan Junk, Kinesiology, Graduated 2020.  
Urmi Mota, 2019  
Cesar Delgado, 2018.  
Tanner Whiting, Graduated 2019.  
Zoe Festa-Woods, Kinesiology, Graduated 2019.  
Matthew Pace, 2017-2018.  
Alex Biel, Nutrition, Graduated 2017.  
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.

### **High school mentees**

Jaime Lauriano, Independence High School, 2022-present  
Kabilan Senthil Arasu, Hamilton High School, 2022-present  
Sherlin Perez Gonzalez, Bioscience High School, 2022-present  
Gabriel Londen, Bioscience High School, 2022-present  
Keilu Marquez, Bioscience High School, 2022-present

### **Other mentees (n total = 14; n current = 1)**

Gillian Reynoso, University of Arizona Medical Student, 2021-present.  
Alex Tolas, California Polytechnic University, San Luis Obispo, 2021-2022  
Sarah Trela-Hoskins, University of Utah undergraduate student, 2021-2023.  
Bjoern Pfisterer, Master's Intern, Karlsruhe Institute of Technology, Germany, 2019-2020.  
Kelby Laurel Scaeffler, University of Arizona Medical Student, 2016-2020.  
Ariana Rose Felici Cook, University of Arizona Medical Student, 2015-2019.  
Meghan Hicks, University of Arizona Medical Student, 2014-2018.  
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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**GUEST LECTURES (N=34)**

**2025 (n=)**

**2024 (n=)**

**2023 (n=)**

**2022 (n=1)**

35. *Anatomy of a Scholarly Paper*. Investigative Journalism (MCO 591), Arizona State University, March 2022.

**2021 (n=0)**

**2020 (n=1)**

34. *Health Promotion across the 24 Hours*. Exercise and Wellness Seminar (EXW 591), Arizona State University, November 2020.

**2019 (n=3)**

33. *Health Promotion across the 24 Hours*. Exercise and Wellness Seminar (EXW 591), Arizona State University, November 2019.

32. *The NIH Biosketch*. Grant Writing (EXW 701), Arizona State University, March 2019.

31. 24 Hour Behaviors and Metabolic Health. Pre-Physical Therapy Student Group, Arizona State University, March 2019.

**2018 (n=2)**

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.

**2017 (n=5)**

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.

**2016 (n=4)**

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.

**2015 (n=4)**

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.

**2013 (n=2)**

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.

**2012 (n=2)**

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.

**2011 (n=5)**

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.

**Before 2011 (n=6)**

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.

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## OTHER INSTRUCTIONAL ACTIVITIES

### **2019**

- *Co-Leader (with Dr. Marc Adams)*, Exercise and Nutritional Sciences PhD Program Methods and Statistics Journal Club
- *Grant reviewer*, EXW 701 Mock Grant Review
- *EXW 645 Comprehensive Exam*, Exam developer and scoring coordinator
- *Comprehensive Exam Reviewer*, MS in Exercise and Wellness
- *Attendee*, Online Learning Consortium Innovate Conference, March 2019

### **2018**

- *Attendee*, Seminar on “Teaching Active and Veteran Military Students: Online & Face to Face Strategies.”
- Re-developed EXW 645 to incorporate applied methods/statistics concepts appropriate for 1st year ENS students and transitioned course from Blackboard to Canvas.

## SERVICE

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### SERVICE TO ASU: COLLEGE OF HEALTH SOLUTIONS

*Precision Nutrition T32 Steering Committee*

*DISH*

*CHS Innovation Talks*

*Research Council*

*ENS Admissions Committee*

*Reviewer*, CHS Cancer Prevention and Control Translational Team, Pilot Project Review, 2022

*Member*, CHS Grant Review Committee – reviewed specific aims pages and full grant proposals, participated in mock study section review, for faculty submitting NIH and NSF proposals within the College of Health Solutions, 2019-present.

*Member*, CHS Jumpstart Grant Review Committee – reviewed proposals for the Jumpstart internal seed grant competitions within the College of Health Solutions, 2018-2023.

*Member*, Review committee for health-related quality of life mentorship, reviewed research applications within the College of Health Solutions for mentorship with Dr. John Ware, 2019.

*Member*, College of Health Solutions Grand Challenges Committee, reviewed stakeholder feedback and developed strategic research and academic directions for the college, 2019.

*Member*, College of Health Solutions Personnel Committee, review cases on tenure and promotion, mid-tenure review, non-tenure track eligible promotions, and other personnel actions, 2019-present.

*Chair*, ad hoc Working Group on Tenure-Track Faculty Workload, developed a comprehensive set of policy recommendations for consideration by CHS leadership regarding research, teaching, service, and administration excellence, 2019.

*Committee Member*, College of Health Solutions Executive Visioning Team 2 – to provide ongoing evaluation of CHS' new vision and structure, provide feedback directly to the Dean, and be a liaison to CHS faculty and staff, 2018-2019.

*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, 2018-2019.

*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 Academic Program Area, College of Health Solutions, 2018-present.

*Member*, Public Health Academic Program Area, 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.

*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: FACULTY SEARCH COMMITTEES**

*Member*, Dean, College of Health Solutions, 2025

*Chair*, Adaptive Research Design (Tenure Track), 2022

*Chair*, Population Health Informatics (Tenure Track), 2021

*Member*, Population Health Informatics (Tenure Track), 2020

*Member*, Biomedical Informatics (Tenure Track), 2019

*Member*, Applied Physiology (Tenure Track), 2019

*Member*, Health Education and Health Promotion Instructors (Non-Tenure Eligible), 2014

## **SERVICE TO ASU: FACULTY MENTORING**

*Grant writing Workshop #5 - Responding to Reviewers April 15, 2022*

*Panelist*, Faculty Women's Association Success in the Early Years: Strategies for Junior Faculty - served on a panel discussion of success strategies for junior faculty. November 2020.

*Mentor*, Research and Scholarship Group – provided mentorship to junior faculty and postdoctoral fellows through regular academic writing consultations, 2018-present.

*Clinical Trials Workshop*, "NIH Policies on Clinical Trials: What you need to know," workshop led by Drs. Buman and Sears and Ms. Osgood (Grants Administrator) that was presented to CHS faculty, March 2019.

*Committee Member*, College of Health Solutions Mentoring Committee – developed a mentorship plan that was implemented by the College of Health Solutions, 2018-2019.

### *Faculty Mentoring*

- Dr. Kyle Winfree, Northern Arizona University, College of Engineering, Informatics, and Applied Sciences, 2019-present.
- Dr. Daniel Peterson, College of Health Solutions, 2019-present.
- Dr. Haiwei Gu, College of Health Solutions, 2019-present.
- Dr. Sarah Keadle, California Polytechnic University, San Luis Obispo, Department of Kinesiology, 2017-present.
- Dr. Megan Petrov, College of Nursing and Health Innovation, 2015-present.

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## **SERVICE TO ASU: UNIVERSITY**

*ASU Digital Health Summit*

*Media Recruitment Advisement*

*Grand Rounds Committee*

*Moonshot*

*Search Committee Chair*, School of Technology for Public Health Open Rank Tenure Track (3), School of Technology for Public Health, 2025-present.

*E.L.I.T.E Committee*

*Search Committee Member*, Assistant Vice President for Research, Knowledge Enterprise, 2022.

*Edson College of Nursing and Health Innovation 2nd Annual Edson Discovery Pilot Awards for Dementia Caregiving 2022*

*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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## **SERVICE TO PROFESSIONAL ORGANIZATIONS**

### *Accelerometer Reporting Guidelines*

*Chair*, Society of Behavioral Medicine, Ethics Committee, 2025-present.

*Member*, Physical Activity Alliance HL7 Expert Advisory Group, American Heart Association, 2022-present.

*Member and Sedentary Behavior Subgroup Chair*, Guideline Development Group for the guidelines on physical activity and sedentary behavior in youth, adults and older adults, 2019-2020.

*Chair*, Society of Behavioral Medicine, Physical Activity Topic Chair, 2017-2020.

*Committee member*, Society of Behavioral Medicine, Ethics Working Group, 2017-2019.

*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.

*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**

*NIH Fellowship Review*

*Standing study section member*, NIH Center for Scientific Review, Psychosocial Risk & Disease Prevention (PRDP) study section, October 2016 - 2020.

*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: TENURE AND PROMOTION REVIEWS**

Brown University, Department of Medicine, 2020

Duke University, Department of Medicine, 2019

Athabasca University, Faculty of Health Disciplines, 2018

University of Pittsburgh, Department of Health and Physical Activity, 2017

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## **SERVICE TO PROFESSION: EDITORIAL BOARD MEMBERSHIP & AD HOC REVIEWS**

### **Member, Editorial Board (n=3)**

- *International Journal of Behavioral Nutrition and Physical Activity*
- *Sleep Health: Journal of the National Sleep Foundation*
- *Journal of the Measurement of Physical Behaviours*

### **Associate Editor roles (n=2)**

- *International Journal of Environmental Research and Public Health*, Special Issue on 24-Hour Behaviors and Health, 2019-2020
- *Journal of the Measurement of Physical Behaviours*, Special Issue on Sleep and Sleep Measurement, 2020

### **ad hoc Reviewer (n journals=30; n reviews=97)**

- *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*
- *BMC Protocols*
- *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 Behaviours*
- *Journal of Medical Internet Research*
- *Journal of Physical Activity and Health*
- *Journal of Sport Sciences*
- *Medicine & Science in Sport & Exercise*
- *Obesity*
- *Preventive Medicine*
- *Psychology of Sport and Exercise*
- *PLOS one*
- *SLEEP*
- *Sleep Health: Journal of the National Sleep Foundation*
- *The Sport Psychologist*
- *Translational Behavioral Medicine*

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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

International Society for the Measurement of Physical Behaviours, 2012-present