PAUL R. HIBBING, PH.D.

Postdoctoral Research Scholar
Children's Mercy Kansas City
Center for Children's Healthy Lifestyles and Nutrition

2240 Kenwood Ave, Room 2M02.45 | Kansas City, MO 64116 816.302.3183 | prhibbing@cmh.edu

EDUCATION

Doctor of Philosophy (May 2020)

University of Tennessee, Knoxville

Major: Kinesiology and Sport Studies

Specialization: Exercise Physiology

Cognate: Statistics

Dissertation: Calibration and validation of gyroscope inclusive youth Sojourn models

Committee: Scott E. Crouter (Major Professor)

David R. Bassett Jr. Dawn P. Coe Haileab Hilafu

Master of Science (August 2016)

<u>Iowa State University</u>

Major: Kinesiology

Thesis: Estimation of physical activity intensity using triaxial ActiGraph accelerometers in

youth populations: Impact of data type, attachment site, and modeling approach,

including adaptations of the Sojourn method for varied use in youth

Committee: Gregory J. Welk (Major Professor)

Laura D. Ellingson Philip M. Dixon

Bachelor of Science (August 2014)

Iowa State University

Major: Kinesiology and Health

Minors: German Language

Music Technology

PROFESSIONAL EXPERIENCE

Postd	octoral Training
•	Research Scholar
Fee-fo	or-Service Consultancies
•	British Youth Physical Activity Measurement Study
•	Youth Physical Activity Measurement Study
•	Gestational Weight Gain and Optimal Wellness Study
Gradu	uate Research Assistantships
•	Iowa State University
•	University of Tennessee, Knoxville
Other	Research Positions
•	Undergraduate Research Assistant
•	Summer Research Intern

Teaching Positions

(● undergraduate courses | ○ graduate courses)

<u>Undergraduate Teaching Assistant (Iowa State University)</u>

KNS 532 (Exercise Physiology)

BIOL 255L (Laboratory Section 255L)	ion: Human Anatomy)Fall 2013				
Graduate Teaching Assistant (University of Tennessee, Knoxville)					
KNS 414 (Laboratory Section	n: Fitness Testing and Exercise Prescription)				
 KNS 532 (Laboratory Sectio 	n: Exercise Physiology)				
 SOWK 665 (Advanced Quar 	titative Research Methods)				
Guest Lecturer (University of Tennessee, Knoxville)					
• "Current Research in the App KNS 350 (Physical Activity	blied Physiology Laboratory"				
 "Physical Activity and Wellr FYS 129 (Wellness: The A. 	ness"				
 "Cardiovascular Physiology KNS 532 (Exercise Physio 	I"				
o "Cardiovascular Physiology	II"				

PUBLICATIONS

Peer-Reviewed Publications

- 1. **Hibbing P**, Kim Y, Saint-Maurice PF, & Welk GJ. (2016) Impact of activity outcome and measurement instrument on estimates of youth compliance with physical activity guidelines: A cross-sectional study. *BMC Public Health* [internet]. 16(1). doi: 10.1186/s12889-016-2901-8.
- 2. Stegemöller EL, Radig H, **Hibbing P**, & Wingate J, Sapienza C. (2017) Effects of singing on voice, respiratory control, and quality of life in persons with Parkinson's Disease. *Disability and Rehabilitation*. 39(6), 594-600. doi: 10.3109/09638288.2016.1152610.
- 3. Stegemöller EL, **Hibbing P**, Radig H, & Wingate J. (2017) Therapeutic singing as an early intervention strategy for swallowing in persons with Parkinson's Disease. *Complementary Therapies in Medicine*. 31, 127-133. doi: 10.1016/j.ctim.2017.03.002.

- 4. Ellingson L, **Hibbing P**, Kim Y, Frey-Law L, Saint-Maurice P, & Welk G. (2017) Lab-based validation of different data processing methods for wrist-worn ActiGraph accelerometers in adults. *Physiological Measurement*. 38(6), 1045-1060. doi: 10.1088/1361-6579/aa6d00.
 - *Selected as a Highlight of 2017 by *Physiological Measurement*. See http://iopscience.iop.org/journal/0967-3334/page/Highlights of 2017.
- 5. Kim Y, **Hibbing P**, Saint-Maurice PF, Ellingson LD, Hennessy E, Wolff-Hughes DL, Perna FM, & Welk GJ. (2017) Surveillance of youth physical activity and sedentary behavior with wrist accelerometry. *American Journal of Preventative Medicine*. 52(6), 872-879. doi: 10.1016/j.amepre.2017.01.012.
- 6. Saint-Maurice PF, Kim Y, **Hibbing P**, Oh A, Perna FM, & Welk GJ. (2017) Calibration and validation of the Youth Activity Profile: The FLASHE study. *American Journal of Preventative Medicine*. 52(6), 880-887. doi: 10.1016/j.amepre.2016.12.010.
- 7. Bai Y, **Hibbing P**, Mantis K, & Welk GJ. (2018) Comparative evaluation of heart rate-based monitors: Apple Watch vs Fitbit Charge HR. *Journal of Sports Sciences*. 36(15), 1734-1741. doi: 10.1080/02640414.2017.1412235.
- 8. Dixon PM, Saint-Maurice PF, Kim Y, **Hibbing P**, Bai Y, & Welk GJ. (2018) A primer on the use of equivalence testing for evaluating measurement agreement. *Medicine and Science in Sports and Exercise*. 50(4), 837-845. doi: 10.1249/MSS.000000000001481.
- 9. **Hibbing PR**, Ellingson LD, Dixon PM, & Welk GJ. (2018) Adapted Sojourn models to estimate activity intensity in youth: A suite of tools. *Medicine and Science in Sports and Exercise*. 50(4), 846-854. doi: 10.1249/MSS.000000000001486.
- 10. **Hibbing PR**, LaMunion SR, Kaplan AS, & Crouter SE. (2018) Estimating energy expenditure with ActiGraph GT9X inertial measurement unit. *Medicine and Science in Sports and Exercise*. 50(5), 1093-1102. doi: 10.1249/MSS.000000000001532.
- 11. Stegemöller EL, Tatz JR, Warnecke A, **Hibbing P**, Bates B, & Zaman A. (2018) Influence of music style and rate on repetitive finger tapping. *Motor Control*. 22(4), 472-485. doi: 10.1123/mc.2017-0081.
- 12. Toth LP, Park S, Pittman WL, Sarisaltik D, **Hibbing PR**, Morton A, Springer CM, Crouter SE, & Basset DR. (2018) Validity of activity tracker step counts during walking, running, and activities of daily living. *Translational Journal of the American College of Sports Medicine*. 3(7), 52-59. doi: 10.1249/TJX.0000000000000057.
- 13. Stegemöller EL, Izbicki P, & **Hibbing P** (2018). The influence of moving with music on motor cortical activity. *Neuroscience Letters*. 683, 27-32. doi: 10.1016/j.neulet.2018.06.030.
- 14. Gharghabi S, Yeh CM, Ding Y, Ding W, **Hibbing P**, LaMunion S, Kaplan A, Crouter SE, & Keogh E. (2018) Domain agnostic online semantic segmentation for multi-dimensional time series. *Data Mining and Knowledge Discovery*. 33(1), 96-130. doi: 10.1007/s10618-018-0589-3.

- 15. Crouter SE, **Hibbing PR**, & LaMunion SR. (2018) Use of objective measures to estimate sedentary time in youth. *Journal for the Measurement of Physical Behaviour*. 1(3), 136-142. doi: 10.1123/jmpb.2018-0007.
- 16. Toth LP, Park S, Pittman WL, Sarisaltik D, **Hibbing PR**, Morton AL, Springer CM, Crouter SE, & Bassett DR. (2019) Effects of brief intermittent walking bouts on step count accuracy of wearable devices. *Journal for the Measurement of Physical Behaviour*. 2(1), 13-21. doi: 10.1123/jmpb.2018-0050.
- 17. Noonan RJ, Christian D, Boddy LM, Saint-Maurice PF, Welk GJ, **Hibbing PR**, & Fairclough SJ. (2019) Accelerometer and self-reported measures of sedentary behaviour and associations with adiposity in UK youth. *Journal of Sports Sciences*. 37(16), 1919-1925. doi: 10.1080/02640414.2019.1605649.
- 18. Park S, Toth LP, **Hibbing PR**, Springer CM, Kaplan AS, Feyerabend MD, Crouter SE, & Bassett DR. (2019) Dominant vs non-dominant wrist placement of activity monitors: Impact on steps per day. *Journal for the Measurement of Physical Behaviour*. 2(2), 118-123. doi: 10.1123/jmpb.2018-0060.
- 19. Fairclough SJ, Christian DL, Saint-Maurice PF, **Hibbing PR**, Noonan RJ, Welk GJ, Dixon P, & Boddy LM. (2019) Calibration and validation of the Youth Activity Profile as a physical activity and sedentary behaviour surveillance tool for English youth. *International Journal of Environmental Research and Public Health* [internet]. 16(19). doi: 10.3390/ijerph16193711.
- 20. Ellingson L, **Hibbing PR**, Welk GJ, Dailey D, Rakel B, Crofford LJ, Sluka KA, & Frey-Law LA. (2019) Choice of processing method for wrist-worn accelerometers influences interpretation of free-living physical activity data in a clinical sample. *Journal for the Measurement of Physical Behaviour*. 2(4), 228-236. doi: 10.1123/jmpb.2018-0062.
- 21. Crouter SE, LaMunion SR, **Hibbing PR**, Kaplan AS, & Bassett DR. (2019) Accuracy of the Cosmed K5 portable calorimeter. *PLoS ONE* [internet]. 14(12). doi: 10.1371/journal.pone.0226290.
- 22. LaMunion SR, Blythe AL, **Hibbing PR**, Kaplan AS, Clendenin BJ, & Crouter SE. (2020) Use of consumer monitors for estimating energy expenditure in youth. *Applied Physiology, Nutrition, and Metabolism*. 45(2), 161-168. doi: 10.1139/apnm-2019-0129.
- 23. Ehrlich SF, Casteel AJ, Crouter SE, **Hibbing PR**, Hedderson MM, Brown SD, Galarce M, Coe D, Bassett D, & Ferrara A. (2020) Alternative wear-time estimation methods compared to traditional diary logs for wrist-worn ActiGraph accelerometers in pregnant women. *Journal for the Measurement of Physical Behaviour*. 3(2), 110-117. doi: 10.1123/jmpb.2019-0049.
- 24. **Hibbing PR**, Bassett DR, Coe DP, LaMunion SR, & Crouter SE. (2020) Youth metabolic equivalents differ depending on operational definitions. *Medicine and Science in Sports and Exercise*. 52(8), 1846-1853. doi: 10.1249/MSS.000000000002299.
- 25. **Hibbing PR**, Bassett DR, & Crouter SE. (2020) Modifying accelerometer cut-points affects criterion validity in simulated free-living for adolescents and adults. *Research Quarterly for Exercise and Sport*. 91(3), 514-524. doi: 10.1080/02701367.2019.1688227.

26. **Hibbing PR**, LaMunion SR, Hilafu H, & Crouter SE. (2020) Evaluating the performance of sensor-based bout detection algorithms: The transition pairing method. *Journal for the Measurement of Physical Behaviour* [advance online publication]. doi: 10.1123/jmpb.2019-0039.

Manuscripts in Review

1. Creasy SA, **Hibbing PR**, Cotton E, Ostendorf DM, Lyden K, Hill JO, Wyatt HR, Pan Z, Catenacci VA, & Melanson EL. (in Review) Temporal patterns of physical activity in successful weight loss maintainers. *Medicine and Science in Sports and Exercise*.

Non-Peer-Reviewed Publications

- 1. Welk GJ, Saint-Maurice PF, Kim Y, Ellingson E, **Hibbing P**, Wolff-Hughes D, & Perna FM. (2017) Understanding and interpreting error in physical activity data: Insights from the FLASHE study. *American Journal of Preventative Medicine*. 52(6), 836-838.
- 2. **Hibbing P**, LaMunion S, & Toth L. (2017) Fitness trackers can be fashionable and functional. *ACSM Fit Society Page*. 19(3):3-4.

Manuscripts in Preparation

- 1. Welk GJ, **Hibbing PR**, Lamoureux N, & Matthews C. Protocol and data description: FLASH study. Target journal: *Journal for the Measurement of Physical Behaviour*.
- 2. **Hibbing PR**, Welk GJ, & Lamoureux N. Open source approaches to advancing physical activity assessment research: An example using FLASH data. Target journal: *Journal for the Measurement of Physical Behaviour*.
- 3. Hukka MK, LaMunion SR, **Hibbing PR**, & Crouter SE. Generational differences of consumer wearable devices for estimating physical activity outcomes. Target journal: TBD.
- 4. Welk GJ, Saint-Maurice PF, Dixon PM, **Hibbing PR**, Bai Y, & McLoughlin GM. Calibration of the online youth activity profile assessment for school-based applications. Target journal: TBD.
- 5. Posson PM, **Hibbing PR**, Carbuhn A, White D, Shakhnovich V, & Sullivan D, Shook RP. Resting energy requirements in overweight and obese adolescents: Do prediction equations accurately estimate needs? Target journal: *American Journal of Clinical Nutrition*.
- 6. Bai Y, Saint-Maurice PF, McLoughlin GM, **Hibbing PR**, & Welk GJ. The measurement reliability and equivalence of print and online versions of the Youth Activity Profile. Target journal: *Measurement in Physical Education and Exercise Science*.
- 7. Ortega A, Forseth B, Steel C, **Hibbing PR**, & Carlson JA. Measurement of moderate-to-vigorous physical activity from activPAL and ActiGraph accelerometers: A comparative analysis. Target journal: *Journal for the Measurement of Physical Behaviour*.

National/International Abstracts and/or Presentations

- 1. Stegemöller EL, **Hibbing P**, Brinkman A, Tatz J, Kinedinst B, & Frick P. (2015) The influence of activating versus relaxing music on repetitive finger movement and associated motor cortical activity. Poster presented at the Society for Neuroscience 45th annual meeting, Chicago, IL.
- 2. Stegemöller EL, **Hibbing P**, & Radig H. (2015) Effects of singing on speech and swallow in patients with Parkinson's disease. Poster presented at the Movement Disorders Society 19th annual meeting, San Diego, CA.
- 3. **Hibbing PR**, Kim Y, Saint-Maurice PF, & Welk GJ. (2015) Activity monitor agreement in assessing compliance with Step and physical activity guidelines in youth. *Medicine and Science in Sports and Exercise*. 47(5 Suppl 1), 921. Poster presented at the American College of Sports Medicine 62nd annual meeting, San Diego, CA.
- 4. Saint-Maurice PF, **Hibbing P**, Bai Y, & Welk GJ. (2016) Agreement between print and online versions of the Youth Activity Profile. *Medicine and Science in Sports and Exercise*. 48(5 Suppl 1), 313. Slides presented at the American College of Sports Medicine 63rd annual meeting, Boston, MA.
- 5. Kim Y, Hibbing P, Ellingson LD, Saint-Maurice PF, Hennessy E, McClain J, & Welk GJ. (2016) Comparison of outcomes between raw acceleration and counts-based methods for processing wrist-worn accelerometers: the FLASHE study. *Medicine and Science in Sports and Exercise*. 48(5 Suppl 1), 812. Slides presented at the American College of Sports Medicine 63rd annual meeting, Boston, MA.
- 6. **Hibbing P**, Ellingson L, Dixon P, & Welk G. (2017) Estimating physical activity intensity in youth with accelerometers: A flexible suite of tools. *Medicine and Science in Sports and Exercise*. 49(5 Suppl 1), 475. Poster presented at the American College of Sports Medicine 64th annual meeting, Denver, CO.
- 7. Bai Y, Welk G, **Hibbing P**, & Mantis K. (2017) Which heart rate-based monitor is better: Apple Watch or Fitbit Charge HR? Slides presented at the 5th International Conference on Ambulatory Monitoring of Physical Activity and Movement, Bethesda, MD.
- 8. Toth L, **Hibbing P**, Park S, Morton A, Pittman W, Sarisaltik D, Kaplan A, Crouter S, & Bassett D. (2017) Criterion validity of consumer and research grade activity monitors during brief, intermittent walking. Slides presented at the 5th International Conference on Ambulatory Monitoring of Physical Activity and Movement, Bethesda, MD.
- 9. **Hibbing P**, LaMunion S, Bassett D, & Crouter S. (2017) Impact of inertial measurement unit on activity recognition using ActiGraph GT9X. Poster presented at the 5th International Conference on Ambulatory Monitoring of Physical Activity and Movement, Bethesda, MD.
- 10. Kaplan A, Toth L, **Hibbing P**, Morton A, Park S, Pittman W, Sarisaltik D, Bassett D, & Crouter S. (2017) Sources of error for wearable step counters. Poster presented at the 5th International Conference on Ambulatory Monitoring of Physical Activity and Movement, Bethesda, MD.

- 11. LaMunion S, **Hibbing P**, Bassett D, & Crouter S. (2017) Application of the ActiGraph GT9X IMU to estimate energy expenditure. Slides presented at the 5th International Conference on Ambulatory Monitoring of Physical Activity and Movement, Bethesda, MD.
- 12. Crouter S, **Hibbing P**, LaMunion SR, & Bassett DR. (2017) Use of the ActiGraph GT9X IMU to predict energy expenditure. Slides presented at the 5th International Conference on Ambulatory Monitoring of Physical Activity and Movement, Bethesda, MD.
- 13. Crouter SE, LaMunion SR, **Hibbing PR**, & Bassett DR. (2017) Use of a 2-Regression Model to Estimate Energy Expenditure using the ActiGraph GT9X IMU. Poster presented at the 4th International Conference on Recent Advances and Controversies in Measuring Energy Metabolism, Fribourg, Switzerland.
- 14. LaMunion SR, Hibbing PR, Bassett DR, & Crouter SE. (2017) Use of the ActiGraph GT9X Inertial Measurement Unit to Predict Energy Expenditure Using Artificial Neural Networks. Slides presented at the 4th International Conference on Recent Advances and Controversies in Measuring Energy Metabolism, Fribourg, Switzerland.
- 15. Kaplan AS, LaMunion SR, **Hibbing PR**, & Crouter SE. (2018) Use of consumer monitors for estimating energy expenditure in youth. *Medicine and Science in Sports and Exercise*. 50(5 Suppl 1), 262. Slides presented at the American College of Sports Medicine 65th annual meeting, Minneapolis, MN.
- 16. LaMunion SR, **Hibbing PR**, Kaplan AS, & Crouter SE. (2018) Physical activity category classification using the ActiGraph GT9X in youth. *Medicine and Science in Sports and Exercise*. 50(5 Suppl 1), 295. Poster presented at the American College of Sports Medicine 65th annual meeting, Minneapolis, MN.
- 17. **Hibbing PR**, Bassett DR, & Crouter SE. (2018) Modifying accelerometer cut-points affects criterion validity in free-living youth and adults. *Medicine and Science in Sports and Exercise*. 50(5 Suppl 1), 298. Poster presented at the American College of Sports Medicine 65th annual meeting, Minneapolis, MN.
- 18. Christian D, Saint-Maurice PF, **Hibbing P**, Noonan RJ, Boddy LM, Welk GJ, & Fairclough SJ. (2018) Calibration of the UK Youth Activity Profile. *Journal of Physical Activity and Health*. 15(10), S39. Slides presented at the 7th International Society for Physical Activity and Health Congress, London, England.
- 19. Crouter SE, LaMunion SR, **Hibbing PR**, Kaplan AS, Quarantillo ME, & Bassett DR. (2019) Accuracy of the Cosmed K5 portable metabolic system. *Medicine and Science in Sports and Exercise*. 51(6 suppl 1), 147. Slides presented at the American College of Sports Medicine 66th annual meeting, Orlando, FL.
- 20. Lamoureux NR, **Hibbing PR**, Matthews CE, & Welk GJ. (2019) Temporal relationships between the Act24 and a monitor-based method for estimating energy expenditure over a 24 hour period. *Medicine and Science in Sports and Exercise*. 51(6 suppl 1), 373. Poster presented at the American College of Sports Medicine 66th annual meeting, Orlando, FL.

- 21. **Hibbing PR** & Crouter SE. (2019) Resting energy expenditure and metabolic equivalents in youth: Impact of inconsistent operational definitions. *Medicine and Science in Sports and Exercise*. 51(6 suppl 1), 818-819. Poster presented at the American College of Sports Medicine 66th annual meeting, Orlando, FL.
- 22. **Hibbing PR**, LaMunion SR, Hilafu H, & Crouter SE. (2019) Evaluating the performance of bout detection algorithms for wearable sensors: The transition pairing method. Slides presented at the 6th International Conference on Ambulatory Monitoring of Physical Activity and Movement, Maastricht, The Netherlands.
- 23. Crouter SE, Clendenin BJ, **Hibbing PR**, & LaMunion SR. (2019) Validity of consumer monitors for estimating steps in youth. Slides presented at the 6th International Conference on Ambulatory Monitoring of Physical Activity and Movement, Maastricht, The Netherlands.
- 24. Ehrlich SF, Hedderson MM, Brown SD, Crouter SE, **Hibbing PR**, Feng J, Tsai AL, & Ferrara A. (2020) Objectively measured physical activity during the first trimester and glucose tolerance at 24-28 weeks gestation. *Medicine and Science in Sports and Exercise*. 52(5 suppl 1), S77-S78. Poster accepted for the American College of Sports Medicine 67th annual meeting (cancelled due to COVID-19 pandemic).
- 25. Hukka MK, LaMunion SR, **Hibbing PR**, & Crouter SE. (2020) Generational differences of consumer wearable devices for estimating physical activity outcomes. *Medicine and Science in Sports and Exercise*. 52(5 suppl 1), S408-S409. Rapid fire poster accepted for the American College of Sports Medicine 67th annual meeting (cancelled due to COVID-19 pandemic).
- 26. **Hibbing PR** & Crouter SE. (2020) Dynamic segmentation of youth accelerometer data by Sojourn and change point detection methods. *Medicine and Science in Sports and Exercise*. 52(5), S648. Thematic poster accepted for the American College of Sports Medicine 67th annual meeting (cancelled due to COVID-19 pandemic).
- 27. Ehrlich SF, Hedderson MM, Brown SD, Crouter SE, **Hibbing P**, Feng J, Tsai AL, & Ferrara A. (2020) Objectively measured and self-reported physical activity in the first trimester of pregnancy, glucose tolerance, and gestational diabetes in women with overweight/obesity. *Diabetes*. 69(suppl 1) 1343-P. doi: 10.2337/db20-1343-P. Poster presented at the American Diabetes Association 2020 80th Scientific Sessions (held virtually due to COVID-19 pandemic).

Symposia

1. **Hibbing PR**. (2019) Accessing and using data through the FLASH GitHub repository. Presented in the symposium *Advancing collaborative activity monitor research using open-source tools* with co-presenters Greg Welk (chair) and Charles Matthews. 6th International Conference on Ambulatory Monitoring of Physical Activity and Movement, Maastricht, The Netherlands.

Regional Presentations

1. **Hibbing P** & Devick R. (2014) The validity of an online tool for the assessment of physical activity behaviors in youth. Slides presented at the 8th Symposium on Undergraduate Research and Creative Expression, Ames, IA.

- 2. **Hibbing PR**, Bassett DR, & Crouter SE. (2018) Modifying accelerometer cut-points affects criterion validity in free-living youth and adults. Poster presented at the 46th annual meeting of the Southeast Chapter of the American College of Sports Medicine, Chattanooga, TN.
- 3. LaMunion SR, **Hibbing PR**, Kaplan AS, Bassett DR, & Crouter SE. (2018) Predicting energy expenditure with the ActiGraph GT9X IMU using artificial neural networks. Poster presented at the 46th annual meeting of the Southeast Chapter of the American College of Sports Medicine, Chattanooga, TN.
- 4. Kaplan AS, LaMunion SR, **Hibbing PR**, Bassett DR, & Crouter SE. (2018) Activity classification with the ActiGraph GT9X IMU using artificial neural networks. Poster presented at the 46th annual meeting of the Southeast Chapter of the American College of Sports Medicine, Chattanooga, TN.
- 5. Park S, Toth LP, **Hibbing PR**, Springer CM, Kaplan AS, Feyerabend MD, Crouter SE, & Bassett DR. (2018) Dominant vs non-dominant wear: A comparison of steps per day. Poster presented at the 46th annual meeting of the Southeast Chapter of the American College of Sports Medicine, Chattanooga, TN.
- 6. Kaplan AS, LaMunion SR, **Hibbing PR**, Bassett DR, & Crouter SE. (2018) Use of two-regression models to predict energy expenditure using wrist-worn GENEActivs in youth. Slides presented at the 46th annual meeting of the Midwest Chapter of the American College of Sports Medicine, Grand Rapids, MI.
- 7. **Hibbing PR** & Crouter SE. (2019) Resting energy expenditure and metabolic equivalents in youth: Impact of inconsistent operational definitions. Poster presented at the 47th annual meeting of the Southeast Chapter of the American College of Sports Medicine, Greenville, SC.
- 8. Clendenin BJ, **Hibbing PR**, LaMunion SR, & Crouter SE. (2019) Criterion validity of ActiGraph GT9X step predictions in youth. Slides presented at the 47th annual meeting of the Southeast Chapter of the American College of Sports Medicine, Greenville, SC.
- 9. Hukka MK, LaMunion SR, **Hibbing PR**, & Crouter SE. (2020) Generational differences of consumer wearable devices for estimating physical activity outcomes. Thematic poster presented at the 48th annual meeting of the Southeast Chapter of the American College of Sports Medicine, Jacksonville, FL.

SOFTWARE PACKAGES

Comprehensive R Archive Network (CRAN)

- 1. **Paul R. Hibbing** (2018). TwoRegression: Process Data from Wearable Research Devices Using Two-Regression Algorithms. R package version 0.1.2. URL: https://cran.r-project.org/package=TwoRegression.
- 2. **Paul R. Hibbing** (2018). AGread: Read Data Files from ActiGraph Monitors. R package version 1.1.1. URL: https://cran.r-project.org/package=AGread.

- 3. **Paul R. Hibbing** (2018). Observation: Collect and Process Physical Activity Direct Observation Data. R package version 0.2.0. URL: https://cran.r-project.org/package=Observation.
- 4. **Paul R. Hibbing** (2019). PAutilities: Streamline physical activity research. R package version 0.3.0. URL: https://cran.r-project.org/package=PAutilities.
- 5. **Paul R. Hibbing** & Kate Lyden (2019). Sojourn.Data: Supporting Objects for Sojourn Accelerometer Methods. R package version 0.1.0. URL: https://cran.r-project.org/package=Sojourn.Data.
- 6. **Paul R. Hibbing**, Kate Lyden, & Isaac J. Schwabacher (2019). Sojourn: Apply Sojourn methods for processing ActiGraph accelerometer data. R package version 0.1.0. URL: https://cran.r-project.org/package=Sojourn.

PROFESSIONAL SOCIETIES

American College of Sports Medicine

Student Member (02/2016-present)

International Society for the Measurement of Physical Behaviour

Student Member (03/2017-present)

American College of Sports Medicine, Southeast Regional Chapter

Student Member (01/2018-02/2020)

HONORS AND AWARDS

Dean's list					
Academic Recognition Award					
Academic Recognition Award (Renewal)					
Barbara E. Forker Leadership Award					
Top 20 Graduating Senior Scholar					
Graduate Magna Cum Laude(2014) Outstanding Master's Student Award(Department of Kinesiology; 2016)					
Outstanding Master's Student Award(Department of Kinesiology; 2016)					
AKA [†] Master's Scholar Award (institutional winner)(Department of Kinesiology; 2016)					
University of Tennessee, Knoxville					
Chancellor's Fellowship('16-'17 academic year; \$10,000)					
Chancellor's Fellowship (Renewal)('17-'18 academic year; \$10,000)					
Chancellor's Fellowship (Renewal)('18-'19 academic year; \$10,000)					
Shipley-Swann Graduate Fellowship('18-'19 academic year; \$5000)					
Andy Kozar Graduate Research Scholarship Award(KRSS [†] ; 2019; \$1000)					
Chancellor's Fellowship (Renewal)('19-'20 academic year; \$10,000)					
Shipley-Swann Graduate Fellowship('19-'20 academic year; \$5000)					
Extraordinary Professional Promise Citation(CEHHS [†] ; 2020)					
Edward K. Capen Award(KRSS [†] ; 2020; \$200)					

Andy Kozar Graduate Research Scholarship Award.	(KRSS [†] ; 2020; \$1000)
AKA [†] Doctoral Scholar Award (institutional winner))(KRSS [†] ; 2020)

*No classes taken Spring '12

[†]AKA- American Kinesiology Association; KRSS- department of Kinesiology, Recreation, and Sport Studies; CEHHS- College of Education, Health, and Human Sciences

SERVICE AND OUTREACH

Professional Service

Manuscript Reviewer

- Medicine and Science in Sports and Exercise
- Journal for the Measurement of Physical Behaviour
- European Journal of Sport Science
- Measurement in Physical Education and Exercise Science
- Journal of Sports Sciences
- Applied Physiology, Nutrition, and Metabolism
- Journal of Science and Medicine in Sport

Community Service

•	Bike Rodeo Assistant	10/25/2016
•	Laboratory Instructor	07/10/2018
•	Laboratory Instructor	02/19/2019