**Paul R. Hibbing**

***Doctoral Candidate and Graduate Research Assistant***

***Department of Kinesiology, Recreation, and Sport Studies***

***University of Tennessee, Knoxville***

HPER Building, Room 307 | 1914 Andy Holt Ave | Knoxville, TN 37996

865.974.5651 | phibbing@vols.utk.edu

# Education

## Doctor of Philosophy

*University of Tennessee, Knoxville (expected completion May 2020)*

Major: Kinesiology and Sport Studies

Specialization: Exercise Physiology

Cognate: Statistics

Program of Study Committee:

Scott E. Crouter (Major Professor)

David R. Bassett Jr.

Dawn P. Coe

Haileab Hilafu

## Master of Science

*Iowa State University, July 2016*

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

Program of Study Committee:

Gregory J. Welk (Major Professor)

Laura D. Ellingson

Philip M. Dixon

## Bachelor of Science

*Iowa State University, August 2014*

Major: Kinesiology and Health

Minors: German Language

Music Technology

# Professional Experience

## Teaching (Graduate-level courses denoted with \*)

### Undergraduate Teaching Assistant (Iowa State University)

* BIOL 255L (Laboratory Section: Human Anatomy) *Fall 2013*

### Graduate Teaching Assistant (University of Tennessee, Knoxville)

* KNS 414 (Laboratory Section: Fitness Testing and Exercise Prescription) *May Term 2017*
* KNS 532 (Laboratory Section: Exercise Physiology) *Fall 2017\**
* SOWK 665 (Advanced Quantitative Research Methods) *Fall 2018\**

### Guest Lectures (University of Tennessee, Knoxville)

* “Current Research in the Applied Physiology Laboratory” *04/20/2017*  
   *KNS 350 (Physical Activity Epidemiology)*
* “Physical Activity and Wellness” *09/13/2017*  
   *FYS 129 (Wellness: The Art and Science)*
* “Cardiovascular Physiology I” *10/18/2017\**  
   *KNS 532 (Exercise Physiology)*
* “Cardiovascular Physiology II” *10/23/2017\*  
   KNS 532 (Exercise Physiology)*

## Research

### Undergraduate Research Assistant (Iowa State University) 09/2013 – 08/2014

Physical Activity and Health Promotion Lab (Dept. of Kinesiology), director Greg Welk, Ph.D.

### Summer Research Intern (Iowa State University) 05/2014 – 08/2014

Neurophysiology Lab (Dept. of Kinesiology), director Elizabeth Stegemöller, Ph.D.

### Graduate Research Assistant (Iowa State University) 08/2014 – 07/2016

Physical Activity and Health Promotion Lab (Dept. of Kinesiology), director Greg Welk, Ph.D.

\*Position funded by NIH grant R21CA188641 and a subcontract related to the National Cancer

Institute’s FLASHE project

### Graduate Research Assistant (University of Tennessee, Knoxville) 08/2016 – Present

Applied Exercise Physiology Lab (Dept. of Kinesiology, Recreation, and Sport Studies), director

Scott Crouter, Ph.D.

\*Position funded by NIH grant R01HD083431

### Data Processing Consultant (Fee-for-Service)

* British Youth Physical Activity Measurement Study *07/2017-09/2017* Iowa State University, and Edge Hill University  
   Project Supervisors: Greg Welk, Ph.D. and Stuart Fairclough, Ph.D.  
   Description: Processed, annotated, and aggregated activity monitor data from free-living youth
* Youth Physical Activity Measurement Study *01/2019-06/2019* Iowa State University   
   Project Supervisor: Greg Welk, Ph.D.  
   Description: Processed, annotated, and aggregated activity monitor data from free-living youth

# 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). Available from: <https://bmcpublichealth.biomedcentral.com/articles/10.1186/s12889-016-2901-8>. 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.0000000000001481.
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.0000000000001486.
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.0000000000001532.
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* [advance online publication]. 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*. [advance online publication]. doi: 10.1080/02640414.2019.1605649.
18. Park S, Toth LP, **Hibbing PR**, Springer CM, Kaplan AS, Feyerabend MD, Crouter SE, & Bassett DR. (in Press) Dominant vs non-dominant wrist placement of activity monitors: Impact on steps per day. *Journal for the Measurement of Physical Behaviour*.
19. Ellingson L, **Hibbing PR**, Welk GJ, Dailey D, Rakel B, Crofford LJ, Sluka KA, & Frey-Law LA. (in Press) 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*.
20. LaMunion SR, Blythe AL, **Hibbing PR**, Kaplan AS, Clendenin BJ, & Crouter SE. (in Press) Use of consumer monitors for estimating energy expenditure in youth. *Applied Physiology, Nutrition, and Metabolism*.

## Manuscripts in Review

1. **Hibbing PR**, Bassett DR, & Crouter SE. (in Review) Modifying accelerometer cut-points affects criterion validity in free-living youth and adults. *Research Quarterly for Exercise and Sport*.
2. **Hibbing PR**, LaMunion SR, Hilafu H, & Crouter SE. (in Review) Evaluation of bout-detection algorithms for wearable sensors: The transition-pairing method. *Medicine and Science in Sports and Exercise*.
3. Fairclough SJ, Christian DL, Saint-Maurice PF, **Hibbing PR**, Noonan RJ, Welk GJ, Dixon P, & Boddy LM. (in Review) Calibration and validation of the Youth Activity Profile as a physical activity and sedentary behaviour surveillance tool for English youth. *BMC Public Health*.

## 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. Available from: <http://www.acsm.org/public-information/fit/health-and-fitness-technology/fitness-trackers-can-be-fashionable-and-functional>.

## Manuscripts in Preparation

1. Ehrlich SF, Casteel AJ, Crouter SE, **Hibbing PR**, Hedderson MM, Brown SD, Galarce M, Coe D, Bassett D, & Ferrara A. Comparison of wear-time estimation methods for wrist-worn ActiGraph accelerometers in pregnant women. Target journal: *Jounral for the Measurement of Physical Behaviour*.
2. Creasy SA, Cotton E, Ostendorf DM, Lyden K, Hill JO, Wyatt HR, Pan Z, Catenacci VA, **Hibbing PR**, & Melanson EL. Temporal Patterns of Physical Activity in Successful Weight Loss Maintainers. Target journal: TBD.
3. **Hibbing PR**, Bassett DR, Coe DP, LaMunion SR, & Crouter SE. Resting energy expenditure and metabolic equivalents in youth: Impact of inconsistent operational definitions. Target journal: *Journal of Applied Physiology*.
4. Crouter SE, LaMunion SR, **Hibbing PR**, Kaplan AS, & Bassett DR. (in Review) Accuracy of the Cosmed K5 portable calorimeter. *European Journal of Applied Physiology*.

## 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 & 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, **Hibbling 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 & 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.

## 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 physicalactivity 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.

# 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 0.2.2. 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 0.1.2. 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>.

## GitHub

1. **Paul R. Hibbing** (2019). FLASH: Free Living Activity Study for Health. R package version 0.1.0. URL: <https://github.com/PAHPLabResearch/FLASH>.
2. **Paul R. Hibbing** (2019). FLASH.Data: Data from the Free Living Activity Study for Health. R package version 0.1.0.9000. <https://github.com/PAHPLabResearch/FLASH.Data>.

# 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-present)

# Honors and Awards

## Iowa State University

Dean’s list *(College of Human Sciences; Fall ’10 – Spring ’14\*)*

Dean’s Scholarship *(College of Human Sciences; ’10-’11 academic year)*

Academic Recognition Award *(’10-’11 academic year)*

Academic Recognition Award (Renewal) *(Fall ’11\*)*

Barbara E. Forker Leadership Award *(Department of Kinesiology; 2014)*

Top 20 Graduating Senior Scholar *(Department of Kinesiology; 2014)*

Graduate Magna Cum Laude *(2014)*

Outstanding Master’s Student Award *(Department of Kinesiology; 2016)*

Nominee: American Kinesiology Association

Master’s Scholar Award *(Department of Kinesiology; 2016)*

*\**No classes taken Spring ’12

## University of Tennessee, Knoxville

Chancellor’s Fellowship *(’16-’17 academic year; $10,000)*

Chancellor’s Fellowship (Renewal) *(’17-’18 academic year; $10,000)*

Chencellor’s Fellowship (Renewal) *(’18-’19 academic year; $10,000)*

Shipley-Swann Graduate Fellowship *(’18-’19 academic year; $5000)*

Andy Kozar Graduate Research  
 Scholarship Award *(Department of Kinesiology, Recreation, & Sport Studies; 2019; $1000)*

Shipley-Swann Graduate Fellowship *(’19-’20 academic year; $5000)*

# 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

## Community Service

*Bike Rodeo Assistant, 10/25/2016*

“Kids Can Bike!” program, Knoxville, TN Parks and Recreation

*Laboratory Instructor, 07/10/2018*

Kids U Jr. Leadership Institute summer camp (ages 11-16), University of Tennessee, Knoxville

*Laboratory Instructor, 02/19/2019*

Kingsport City Schools exercise physiology class on-campus visit

# Ongoing Research Projects

## Novel approaches for predicting unstructured short periods of physical activities

*Fall 2016 – Present*

Description: Development and cross-validation of machine learning techniques for processing accelerometer data in youth (NIH RO1 grant award)

Role: Recruitment, data collection and processing

## Use of wearable physical activity monitors to predict energy expenditure

*Fall 2016 – Present*

Description: Laboratory validation of various objective physical activity monitors

Role: Recruitment, data collection and processing

## Physical Activity in Pregnancy for Intergenerational Obesity Prevention

*Spring 2018 – Present*

Description: Intervention study assessing physical activity in a pregnancy population

Role: Data analysis