

# Greg J Petrucci Jr.

Curriculum Vitae

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## Home:

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## University:

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## EDUCATION

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2017 - present	M.S./Ph.D. Kinesiology Advisor: John R. Sirard, Ph.D.	University of Massachusetts, Amherst, MA
2013 - 2017	B.S. Kinesiology Summa Cum Laude & Honors with Greatest Distinction	University of Massachusetts, Amherst, MA

## PUBLICATIONS

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### Refereed publications:

1. Marcotte, R.T., **Petrucci Jr, G.J.**, Cox, M.F., Freedson, P.S., Staudenmayer, J. & Sirard, J.R. (2019). An evaluation of actigraph hip and wrist methods to estimate sedentary behavior in the free-living environment. *Med Sci Sports Exerc.*, ahead of print.
2. Cox, M.F., **Petrucci Jr, G.J.**, Marcotte, R.T., Masteller, B.R., Staudenmayer, J., Freedson, P.S. & Sirard, J.R. (2019). A novel video-based direct system for assessing physical activity and sedentary behavior in children and young adults. *Journal for the Measurement of Physical Behaviour*, ahead of print.
3. **Petrucci Jr, G.J.**, Masteller, B.R., Cox, M.F., Staudenmayer, J., Freedson, P.S. & Sirard, J.R. (2018). Sensitivity of the misfit shine<sup>TM</sup> to detect changes in laboratory-based and free-living physical activity. *Journal for the Measurement of Physical Behaviour*, 1(1), 18-25.

### Book chapters:

1. Sirard, J.R. & **Petrucci Jr, G.J.** (2019). Assessment of physical activity and sedentary behaviors. In: *Physical Activity and Public Health Practice: A Guide for Effective Interventions*. Springer Publishing Company, New York, NY.

### Publications in preparation:

1. Potter, K., Marcotte, R.T., **Petrucci Jr, G.J.**, Rajala, C., Saleeba, C. & Balzer, L. (2019). Dog walking intensity and its contribution to owners total moderate-to-vigorous physical activity. *Am J Health Promot.*
2. **Petrucci Jr, G.J.**, Marcotte, R.T., Cox, M.F., Freedson, P.S., Staudenmayer, J. & Sirard, J.R. (2019). A free-living investigation of methods to estimate moderate-to-vigorous physical activity from an actigraph accelerometer. *Med Sci Sports Exerc.*

Conference proceedings with published abstracts:

1. **Petrucchi Jr, G.J.**, Marcotte, R.T., Cox, M.F., Freedson, P.S., Staudenmayer, J., & Sirard, J.R. (2019). A free-living investigation of methods to estimate moderate-to-vigorous physical activity from an actigraph accelerometer. *International Conference on Ambulatory Monitoring of Physical Activity and Movement*. Jun 2019. Maastricht, the Netherlands.
2. **Petrucchi Jr, G.J.**, Marcotte, R.T., Rajala, C., Saleeba, C., & Potter, K. (2019). Examining the relationship between objectively measured human and dog activity. *International Conference on Ambulatory Monitoring of Physical Activity and Movement*. Jun 2019. Maastricht, the Netherlands.
3. Marcotte, R.T., **Petrucchi Jr, G.J.**, Cox, M.F., Freedson, P.S., Staudenmayer, J., & Sirard, J.R. (2019). End of an epoch? Free-living classification within sojourns using a wrist-worn accelerometer. *International Conference on Ambulatory Monitoring of Physical Activity and Movement*. Jun 2019. Maastricht, the Netherlands.
4. Marcotte, R.T., **Petrucchi Jr, G.J.**, Cox, M.F., Freedson, P.S., Staudenmayer, J., & Sirard, J.R. (2019). Insights on free-living behavior from a novel direct observation coding system. *International Conference on Ambulatory Monitoring of Physical Activity and Movement*. Jun 2019. Maastricht, the Netherlands.
5. **Petrucchi Jr, G.J.**, Marcotte, R.T., Cox, M.F., Staudenmayer, J., Freedson, P.S. & Sirard, J.R. (2019). Estimating free-living physical activity using a wrist-worn accelerometer: can it be done? *American College of Sports Medicine Annual Meeting*. Jun 2019. Orlando, FL.
6. Cox, M.F., **Petrucchi Jr, G.J.**, Marcotte, R.T., Masteller, B.R., Staudenmayer, J., Freedson, P.S. & Sirard, J.R. (2019). Contributions to free-living accelerometer calibration: a novel direct observation system. *American College of Sports Medicine Annual Meeting*. Jun 2019. Orlando, FL.
7. Marcotte, R.T., **Petrucchi Jr, G.J.**, Cox, M.F., Freedson, P.S., Staudenmayer, J. & Sirard, J.R. (2019). Insights on free-living sedentary behavior estimates using a hip- or wrist-worn accelerometer. *American College of Sports Medicine Annual Meeting*. Jun 2019. Orlando, FL.
8. Rajala, C., Marcotte, R.T., **Petrucchi Jr, G.J.**, Saleeba, C. & Becofsky Potter, K. (2019). Dog walking as a percentage of owners' total physical activity and measures of moderate-to-vigorous activity levels. *American College of Sports Medicine Annual Meeting*. Jun 2019. Orlando, FL.
9. **Petrucchi Jr, G.J.**, Freedson, P.S., Masteller, B.R., Cox, M.F., Staudenmayer, J. & Sirard, J.R. (2018). Sensitivity of a consumer activity tracker to detect changes in lab-based and free-living activity settings. *American College of Sports Medicine Annual Meeting*. Jun 2018. Minneapolis, MN.
10. Cox, M.F., **Petrucchi Jr, G.J.**, Masteller, B.R. & Sirard, J.R. (2018). The development and testing of a direct observation protocol for children's free-living activity. *American College of Sports Medicine Annual Meeting*. Jun 2018. Minneapolis, MN.
11. Jai Kumar, J., **Petrucchi Jr, G.J.**, Masteller, B.R., Cox, M.F., Staudenmayer, J., Sirard, J.R. & Freedson, P.S. (2017). Investigation of the relationship between user height and steps measured by a consumer activity tracker. *International Conference on Ambulatory Monitoring of Physical Activity and Movement*. Jun 2017. Bethesda, MD.
12. **Petrucchi Jr, G.J.**, Masteller, B.R., Cox, M.F., Staudenmayer, J., Sirard, J.R. & Freedson, P.S. (2017). A Consumer activity tracker is sensitive to changes in steps during simulated free-living. *American College of Sports Medicine Annual Meeting*. Jun 2017. Denver, CO.
13. Masteller, B.R., Larson, J., Cox, M.F., **Petrucchi Jr, G.J.**, Staudenmayer, J., Freedson, P.S.

- & Sirard, J.R. (2017). Comparison of step estimates between a consumer activity tracker and research accelerometer on the dominant and non-dominant wrist. *American College of Sports Medicine Annual Meeting*. Jun 2017. Denver, CO.
14. Cox, M.F., Slate-Romano, J., Vercollone, H., Jacobson, D., **Petrucci Jr, G.J.**, Masteller, B.R. & Sirard, J.R. (2017). Testing a novel direct observation method for children’s free play activity *American College of Sports Medicine Annual Meeting*. Jun 2017. Denver, CO.
  15. **Petrucci Jr, G.J.**, Hickey, A., Mendoza, A. & Freedson, P.S. (2016). Validation of the cybex arctrainer™ for prediction of energy expenditure. *American College of Sports Medicine Annual Meeting*. Jun 2016. Boston, MA.

Other conference presentations & publications:

1. Remillard, N.M., **Petrucci Jr, G.J.**, Sirard, J.R. (2019). Using Accelerometers to Estimate Energy Expenditure during High Intensity Interval Training. *New England Chapter of the American College of Sports Medicine Annual Fall Meeting*. Nov 2019. Providence, RI.
2. **Petrucci Jr, G.J.**, Marcotte, R.T., Cox, M.F., Staudenmayer, J., Freedson, P.S. Sirard, J.R. (2019). Estimating free-living physical activity using a wrist-worn accelerometer. School of Public Health and Health Sciences Research Day. Apr 2019. Amherst, MA.
3. Cox, M.F., **Petrucci Jr, G.J.**, Marcotte, R.T., Masteller, B.R., Staudenmayer, J., Freedson, P.S. Sirard, J.R. (2019). Free-living accelerometer calibration: a novel direct observation system. School of Public Health and Health Sciences Research Day. Apr 2019. Amherst, MA.
4. **Petrucci Jr, G.J.**, Marcotte, R.T., Cox, M.F., Staudenmayer, J., Freedson, P.S. & Sirard, J.R. (2018). Estimating free-living physical activity using a wrist-worn accelerometer: can it be done?. *New England Chapter of the American College of Sports Medicine Annual Fall Meeting*. Oct 2018. Providence, RI.
5. Cox, M.F., **Petrucci Jr, G.J.**, Marcotte, R.T., Masteller, B.R., Staudenmayer, J., Freedson, P.S. & Sirard, J.R. (2018). Contributions to free-living accelerometer calibration: a novel direct observation system. *New England Chapter of the American College of Sports Medicine Annual Fall Meeting*. Oct 2018. Providence, RI.
6. Marcotte, R.T., **Petrucci Jr, G.J.**, Cox, M.F., Freedson, P.S., Staudenmayer, J. & Sirard, J.R. (2018). An evaluation of actigraph hip and wrist methods to estimate sedentary behavior under free-living conditions. *New England Chapter of the American College of Sports Medicine Annual Fall Meeting*. Oct 2018. Providence, RI.
7. **Petrucci Jr, G.J.**, Freedson, P.S., Masteller, B.R., Cox, M.F., Staudenmayer, J. & Sirard, J.R. (2018). Sensitivity of misfit shine™ to detect changes in lab-based and free-living activity settings. *UConn mHealth and Social Media Conference*. May 2018. Storrs, CT.
8. **Petrucci Jr, G.J.**, Freedson, P.S., Masteller, B.R., Cox, M.F., Staudenmayer, J. & Sirard, J.R. (2018). Sensitivity of misfit shine™ to detect changes in lab-based and free-living activity settings. *Industry Advisory Board Meeting for the Center for Personalized Health Monitoring*. May 2018. Amherst, MA.
9. **Petrucci Jr, G.J.**, Marcotte, R.T., Cox, M.F., Freedson, P.S., Staudenmayer, J. & Sirard, J.R. (2018). Investigation of machine learning methods to estimate sedentary behavior in free-living environments from an accelerometer. *New England Statistics Symposium*. Apr. 2018. Amherst, MA.
10. Marcotte, R.T., **Petrucci Jr, G.J.**, Staudenmayer, J. & Sirard, J.R. (2018). Non-exercise estimation of cardiorespiratory fitness using NHANES 2003-2004 accelerometer data. *New England Statistics Symposium*. Apr 2018. Amherst, MA.

11. **Petrucci Jr, G.J.**, Marcotte, R.T., Cox, M.F., Freedson, P.S., Staudenmayer, J. & Sirard, J.R. (2018). Investigation of actigraph hip methods to estimate sedentary behavior in free-living environments. *School of Public Health and Health Sciences Research Day*. Apr 2018. Amherst, MA.
12. Marcotte, R.T., **Petrucci Jr, G.J.**, Cox, M.F., Freedson, P.S., Staudenmayer, J. & Sirard, J.R. (2018). An evaluation of actigraph wrist methods to estimate sedentary behavior in the free-living environment. *School of Public Health and Health Sciences Research Day*. Apr 2018. Amherst, MA.
13. Cox, M.F., **Petrucci Jr, G.J.**, Masteller, B.R. & Sirard, J.R. (2018). The development and testing of a direct observation protocol for children's free-living activity. *School of Public Health and Health Sciences Research Day*. Apr 2018. Amherst, MA.
14. **Petrucci Jr, G.J.**, Freedson, P.S., Masteller, B.R., Cox, M.F., Staudenmayer, J. & Sirard, J.R. (2017). Sensitivity of misfit shine<sup>TM</sup> to detect changes in laboratory and free-living physical activity. *New England Chapter of the American College of Sports Medicine Annual Fall Meeting*. Oct 2017. Providence, RI.
15. Cox, M.F., **Petrucci Jr, G.J.**, Masteller, B.R. & Sirard, J.R. (2017). The development and testing of a direct observation protocol for children's free-living activity. *New England Chapter of the American College of Sports Medicine Annual Fall Meeting*. Oct 2017. Providence, RI.
16. **Petrucci Jr, G.J.**, Freedson, P.S., Masteller, B.R., Cox, M.F., Staudenmayer, J. & Sirard, J.R. (2017). Sensitivity of misfit shine<sup>TM</sup> to detect changes in physical activity. *UMass Medical mHealth and Social Media Conference*. May 2017. Worcester, MA.
17. **Petrucci Jr, G.J.**, Hickey, A., Mendoza, A. & Freedson, P.S. (2016). Validation of the cybex arctrainer<sup>TM</sup> for prediction of energy expenditure. *New England Chapter of the American College of Sports Medicine Annual Fall Meeting*. Oct 2016. Providence, RI.

## AWARDS AND HONORS

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Oct 2018. Finalist for the Master's Student Investigator Award. *New England Chapter of the American College of Sports Medicine*.

Feb 2018. Finalist for Distinguished Teaching Award. *University of Massachusetts*.

Aug 2017. Mark Connolly Master's Student Scholarship. *New England Chapter of the American College of Sports Medicine*. \$750.

Dec 2016. Nominated for 21<sup>st</sup> Century Leaders Award. *University of Massachusetts*.

Oct 2016. Rising Researcher Award. *University of Massachusetts*.

Jun 2016. Charles J. Hoff Honors Scholarship. *Commonwealth Honors College*. \$4000.

Apr 2016. William F. Field Alumni Scholar. *University of Massachusetts Alumni Association*. \$1000.

## GRANTS AND FELLOWSHIPS

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### Funded grants:

Spt 2019. Graduate Student Travel Grant. *Department of Kinesiology, University of Massachusetts*. \$500.

Apr 2016. Submission title: Validation of Youth-Orientated Activity Trackers in Semi-Structured Free Play. *Commonwealth Honors College*. \$1000.

#### Unfunded grants:

Mar 2019. Center for Research on Families Travel Grant. *University of Massachusetts*. \$300

Feb 2019. Michael L. Pollock Student Scholarship. *American College of Sports Medicine*. \$200.

Spt 2017. Graduate Student Travel Grant. *Department of Kinesiology, University of Massachusetts*. \$500.

Dec 2016. Priscilla Clarkson Travel Grant. *American College of Sports Medicine*. \$1000.

Dec 2015. Priscilla Clarkson Travel Grant. *American College of Sports Medicine*. \$1000.

### **TEACHING EXPERIENCE**

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#### Graduate teaching assistant:

Spt 2018-Dec 2019. KIN 100 Introduction to Kinesiology. *University of Massachusetts*.

Spt-Dec 2017. KIN 355 Scientific Writing in Kinesiology. *University of Massachusetts*.

#### Advising and mentoring:

Spt 2017-May 2019. Nick Remillard- Commonwealth Honors College Capstone Thesis. *University of Massachusetts*.

#### Other teaching experience:

Aug 2018. Kinesiology R Programming Workshop. *University of Massachusetts*.

### **PROFESSIONAL SERVICE**

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#### Manuscript reviewer:

*Journal for the Measurement of Physical Behaviour*

*Journal of Science and Medicine in Sport*

*Measurement in Physical Education and Exercise Science*

#### Other service to profession:

Jan 2018-present. Social Media Chairperson. *International Society for the Measurement of Physical Behaviour*.

Aug 2017-Dec 2017. Peer Mentor- Alec Shostek. *New England Chapter of the American College of Sports Medicine*.

### **UNIVERSITY SERVICE**

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Apr 2019. VIP Consultant- Five College DataFest. *University of Massachusetts*.

Spt 2018. Panelist- New graduate student orientation panel: Advice from Successful TAs in the Social and Behavioral Sciences, Management, and Public Health. *University of Massachusetts*.

May 2018-present. Committee member- Kinesiology Graduate Student Organization. *University of Massachusetts*.

## PROFESSIONAL AFFILIATIONS

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Mar 2019	<i>Society of Behavioral Medicine</i>
Spt 2018	<i>New England Statistics Society</i>
Spt 2018	<i>Boston Chapter of the American Statistical Association</i>
Spt 2018	<i>American Statistical Association</i>
Mar 2018	<i>American Association for the Advancement of Science</i>
Jun 2017	<i>International Society for the Measurement of Physical Behavior</i>
Spt 2013	<i>New England Chapter of the American College of Sports Medicine</i>
Spt 2013	<i>American College of Sports Medicine</i>