

Evan Ray

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EDUCATION

2015 (expected)	Ph.D. Statistics, University of Massachusetts, Amherst Thesis: Conditional Random Fields for Physical Activity Classification I develop approaches for using accelerometer data to classify an individual's physical activity type and intensity level over time by combining inferences from many conditional random fields. Committee Members: John Staudenmayer (chair), Krista Gile, Michael Lavine, and Patty Freedson
2012	M.S. Statistics, University of Massachusetts, Amherst
2007	B.S. Mathematics, summa cum laude, University of Massachusetts, Boston

RESEARCH EXPERIENCE

2013 – present	Software Engineer, Analytics, Enformia
2010 – 2013	Research Assistant, Department of Mathematics and Statistics, University of Massachusetts, Amherst
2012 – 2013	Research Assistant, Department of Electrical and Computer Engineering, University of Massachusetts, Amherst

TEACHING EXPERIENCE

2013	Teaching Assistant, Department of Mathematics and Statistics, University of Massachusetts, Amherst Statistics 505/697R, Regression Modeling
2010 – 2011	Research and Teaching Assistant, Five College consortium Statistical consultant to undergraduate students completing thesis research at Hampshire College; taught informal sessions on special topics in statistics to Hampshire students
2009 – 2010	Teaching Assistant, Department of Mathematics and Statistics, University of Massachusetts, Amherst Statistics 240, Introduction to Statistics

PUBLICATIONS and PRESENTATIONS

Journal Publications:

Kozey Keadle, S., Lyden, K., Hickey, A., **Ray, E.L.**, Fowke, J.L., Freedson, P.S., and Matthews, C.E. (2014). Validation of a previous day recall for measuring the location and purpose of active and sedentary behaviors compared to direct observation. *Int. J. Behav. Nutr. Phys. Act.*, 11, 12.

Conference:

Ray, EL, Krafft, P, Freedson, PS, and Staudenmayer, J. Novel analytic methods to estimate physical activity from accelerometer data: an open-source web-based tool. Poster session presented at: 2nd International Congress on Ambulatory Monitoring of Physical Activity and Movement; 2011 May 24-27; Glasgow, Scotland.

Other Presentations:

- April 14, 2014 "Parallel Computation with R", University of Massachusetts Statistics Seminar. Joint with Isabelle Beaudry.
- February 19, 2012 "Some Good Practices for R", Five College/Pioneer Valley R Users Group

HONORS and AWARDS

- 2013 Honorable Mention, University of Massachusetts Institute for Computational Biology, Biostatistics, and Bioinformatics Open Source Software Innovation competition. Granted for a website allowing users to apply statistical methods for objective measurement of physical activity and the WebDevelopR R package.
- 2007 Juan Carlos Merlo Prize, University of Massachusetts, Boston. Granted to one graduating student each year for outstanding achievement in mathematics.
- 2007 Distinction in Mathematics, University of Massachusetts, Boston. Granted for superior overall academic performance.

PROGRAMMING

Statistical: R, SAS (SAS Certified Base Programmer)

Other: HTML/CSS, JavaScript (including JQuery, underscore.js, and highcharts). Intermediate knowledge of C, Perl, and Java

PROFESSIONAL AFFILIATIONS

American Statistical Association