

Elizabeth Upton

Boston University
Department of Mathematics and Statistics
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Curriculum Vitae

Education

- 2014–2019 **PhD Candidate: Statistics**, *Boston University*, Boston MA.
Dissertation Advisor: Luis E. Carvalho
- 2010–2011 **EdM, Teaching and Curriculum**, *Harvard Graduate School of Education*, Cambridge, MA.
- 2003–2007 **BS, Interdisciplinary Mathematics and Statistics with a minor in Business Administration**, *University of New Hampshire*, Durham, NH, *Summa Cum Laude*.

Teaching Experience

Collegiate, Boston University

- 2017 –2018 **Statistics Consulting Practicum**, *Lead Consultant and Lab Instructor*.
- Summer 2017 **Introduction to Stochastic Processes**, *Instructor*.
- Summer 2017 **Calculus I**, *Instructor*.
- Fall 2016 **Calculus I**, *Teaching Fellow*.
- Summer 2015 **Elementary Statistics**, *Instructor*.
- Secondary School
- Summer 2018 **Boston Leadership Institute, Boston MA**, *Sports Statistics*.
- 2011 – 2014 **Dexter and Southfield Schools, Brookline MA**, *Advanced Placement Statistics, Probability, Pre-Calculus, Geometry, Problem Solving, Algebra II*.
- 2010 – 2011 **East Boston High School, Boston MA**, *Teacher Intern*.
- 2010 – 2010 **Cambridge Harvard Summer Academy, Cambridge MA**, *Co-Teacher*.

Research Interests

Network Science, Bayesian Statistics, Applied Statistics, Statistics Education and Pedagogy.

Research Papers

Rudolph, A., Upton, E., Young, A. and Havens, J., *Examining the Role of Social Norms and Influence on Injection Cessation*. In preparation.

Upton, E. and Carvalho, L., *Bayesian Network Regularized Regression for Modeling Urban Crime Occurrences*. Submitted. <https://arxiv.org/abs/1708.05047>.

Presentations and Guest Lectures

Joint Statistical Meetings, Vancouver Canada, *Bayesian Network Regularized Regression for Modeling Urban Crime Occurrences*. 2018.

Boston Graduate Math Colloquium, Harvard University, *Network Regularized Regression*. 2018.

New England Statistics Symposium, University of Connecticut, poster: *Bayesian Network Regularized Regression for Modeling Urban Crime Occurrences*. 2017.

Guest Lecturer at Boston University for the following courses: Statistical Analysis of Network Data, Generalized Linear Models, Social Network Analysis for Public Health Research, Basic Statistics and Probability, and Accelerated Introduction to Advanced Methods for Quantitative Research.

Additional Conferences and Workshops Attended

Preparing to Teach Workshop, Joint Statistical Meetings, Vancouver Canada, 2018.
International Society for Bayesian Analysis World Meeting, Sardinia Italy, 2016.
BU - Keio Workshop, Boston University, 2016.
New England Statistics Symposium, Yale University, 2016.
College Board Advanced Placement Statistics Grading, Kansas City MO, 2014.
2013 AP Institute, St. Johnsbury VT, 2013.
Mass Math + Science Initiative Advanced Placement Summer Institute, Waltham MA, 2011.

Awards

- 2018, Outstanding Teaching Fellow Award, College of Arts and Sciences, Boston University.
- 2017, New England Statistics Symposium: IBM Best Paper Award.
- 2014 - 2016, Clare Boothe Luce Graduate Fellowship.
- 2014 - 2018, Boston University Teaching Fellowship.
- 2007, University of New Hampshire: Highest GPA in Major, Honors-in-Major, University Honors, Presidential Scholar.
- 2007, Edward Stolworthy Scholarship, Cogswell Award for Honors, Class of 1993 Endowment for Honors Award.

Academic Service

Spring 2018 **Founder and Organizer of Student Network Seminar.**

- Established a student led seminar focused on topics in network statistics.
- Arranged and chaired weekly meetings consisting of guest speakers or discussions of selected papers.

Spring 2018 **Mathematics Department Teaching Seminar Lead.**

- Organizer of semester long seminar for first year teaching fellows.
- Discussed teaching methods, teaching philosophies, and logistics to assist students in planning accelerated summer courses.

Professional Memberships and Community Involvement

BUSCASA Boston University Student Chapter of the American Statistical Society

- Served on leadership board for the 2015 - 2016 year.

ASA American Statistical Association

ISBA International Society of Bayesian Analysis

SIAM Society for Industrial and Applied Mathematics

Pi Mu Epsilon National Mathematics Honors Society

Partners in Education Volunteer mathematics tutor for students at Boston Day & Evening Academy, 2010

Relevant Work Experience

- 2010-2011 **Research Assistant**, *Professor Jon R. Star, Harvard Graduate School of Education, Cambridge MA.*
- 2007-2010 **Quantitative Investment Associate**, *Putnam Investments, Currency Investment Unit, Boston MA.*
- Built and expanded upon quantitative predictors of currency appreciation while employing a variety of statistical analyses and database software applications.