

Johns Hopkins Bloomberg School of Public Health
615 N Wolfe St
Office E3032
Baltimore, MD 21205
✉ fisher@jhu.edu
<http://aaronjfisher.github.io>

Aaron Fisher

Education

- 2011–Present **PhD Candidate**, *Johns Hopkins Bloomberg School of Public Health*, Baltimore, MD.
Advisors: Vadim Zipunnikov & Brian Caffo
- 2006–2010 **BA in Economics**, *University of Rochester*, Rochester, NY.
Summa cum laude

Academic Papers

Peer-Reviewed Publications

- 2014 **AJ Fisher**, GB Anderson, R Peng, J Leek. 2014. A randomized trial in a massive online open course shows people don't know what a statistically significant relationship looks like, but they can learn. *PeerJ*. ([link](#); 3,437 unique visitors as of December 3, 2014)

Submitted

- 2014 **AJ Fisher**, B Caffo, B Schwartz, V Zipunnikov. 2014. Fast, Exact Bootstrap Principal Component Analysis for $p > 1$ million. *Resubmitted at Journal of the American Statistical Association (TM)*. ([link](#)).
- 2014 **AJ Fisher**, H Jaffee, M Rosenblum. 2014. interAdapt – An Interactive Tool for Designing and Evaluating Randomized Trials with Adaptive Enrollment Criteria. ([link](#)).

Reviewer

- 2014 Risk Analysis

Software

- bootSVD** An R package for implementing fast, exact bootstrap principal component analysis and singular value decompositions for high dimensional data (i.e. > 1 million covariates). The GitHub version of this package allows for matrices too large for memory to be entered as class `ff` objects, with contents stored on disk. ([CRAN link](#); [GitHub link](#))

- ggBrain** An R package for beautiful brain image figures ([GitHub link](#))
- interAdapt** An interactive tool for designing and evaluating randomized trials with adaptive enrollment criteria ([Shiny App link](#); [Documentation link](#); [CRAN link](#); [Github link](#)).

Professional Experience

- 2010 (Summer) **Structured Decisions Corporation**, Newton, MA.
Intern Analyst - Background research project for a linear programming application

Computer skills

- Advanced Skills R
- Basic Skills git, Python, MATLAB, stata, shell scripting, L^AT_EX

Teaching

Guest Lecturer

- 2013 Essentials of Probability and Statistical Inference I-II, *JHSPH*

Teaching Assistant

- 2014 Statistical Methods in Public Health I-II (with lab component in term II), *JHSPH*
- 2012-2014 Essentials of Probability and Statistical Inference I-IV (with lab component), *JHSPH*
- 2012 Statistical Reasoning I and II, *JHSPH Summer Institute of Epidemiology and Biostatistics*

Awards and Scholarships

- 2014 **The June B. Culley Award:** Honors outstanding achievement by a Biostatistics student on his or her schoolwide oral examination paper
- 2012-present **Doctoral Training Grant in Environmental Biostatistics:** Provides funding for at least three years
- 2006-2010 **Undergraduate Awards:** Phi Beta Kappa; John Dows Mairs Prize (University of Rochester Economics Dept); Omicron Delta Epsilon International Honor Society for Economics; Theta Chi Long, Walter, Ott Award; Theta Chi Valentine H. Zahn Fund

Presentations

- 2014 “Fast, Exact Bootstrap Principal Component Analysis for $p > 1$ Million.” (4th Annual Hopkins Imaging Conference) Baltimore, MD, *Invited Short Talk & Poster*.
- 2014 “Fast Exact Bootstrap Principal Component Analysis for $p > 1$ million: Leveraging Low-Dimensional Structure Across High-Dimensional Bootstrap Samples.” JSM, Boston, MA. *Contributed Speed Session & Poster*.
- 2014 “People Can’t See Statistical Significance: A Massive Randomized Trial on the Visual Perception of Relationships.” ENAR Spring Meeting, Baltimore, MD, *Contributed Talk*.

Other Leadership Roles

- 2014-present JHU Biostatistics Meat Chili Champion
- 2013-2014 JHU Biostatistics Vegetarian Chili Champion
- 2012-2013 Co-organizer of JHU Biostatistics Computing Club, with Prasad Patil ([speaker schedule link](#))

Last updated: January 23, 2015