Joshua K Errickson

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Department of Statistics
University of Michigan
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Education

2010 - 2016 (Expected), University of Michigan
PhD in Statistics

Advisor: Ben Hansen

Coursework included: Applied Statistics and Data Analysis, Analysis of Multivariate and Categorical Data, Causal Inference in the Social Sciences.

2008 - 2010, Rutgers University
MS in Statistics

Coursework included: Applied Time Series Analysis, Categorical Data Analysis, Design of Experiments, Interpretation of Data, Methods of Nonparametric Statistics.

2002 - 2006, Johns Hopkins University
BS in Computer Science

Coursework included: Basics of Applied Cryptography, Computer Vision, Computing in Applied Mathematics, Modern Complexity Theory, Object-Oriented Systems, Unix Systems Programming.

Work Experience

2014-Present, Center for Statistical Consultation and Research, University of Michigan
Graduate Student Research Assistant

Provide one-on-one consultation for university researchers from a wide range of disciplines. General topics include discussion of statistical methodology, simplification of technical concepts for non-technical audiences, assistance on data analysis, study design, manuscript preparation, and instruction in statistical software.

2011, Inter-university Consortium for Political and Social Research, University of Michigan
Statistical Computing Consultant

Assist ICPSR Program participants with statistical software usage, providing both technical and statistical assistance.

2006-2008, Carmel Hill Education Project in Harlem, NYC
External Program Analyst

The Project helps at-risk school districts by using computers to encourage, assess, and improve students reading skills. Completed a statistical analysis of students reading growth across the entire project to examine the project's impact, as well as to suggest areas on which to focus.

2006-2008, Pressler & Pressler, L.L.P. in Cedar Knolls, NJ
Compliance Auditor

Reviewed employee work, created departmental procedure manuals and conducted supplemental training for employees.

Research & Professional Development

Evaluation Engine Statistical Backend
Funded by the Bill and Melinda Gates Foundation

Provided statistical programming towards the project which is aimed at implementing a web-interface for education researchers to access a control database of student information, from which a matched sample can be quickly and automatically selected while keeping anonymity.

"optmatch", an open-source package to R
http://cran.r-project.org/web/packages/optmatch/

Co-developed a package to perform optimal matching of observational studies based on a variety of criteria.

Presentations

May 2014, The 2014 Atlantic Causal Inference Conference, Providence, RI

Enhanced Peters-Belson: Bias in treatment-prognostic score interaction. (*Poster*)

March 2014, The 2014 Michigan Student Symposium for Interdisciplinary Statistical Sciences, Ann Arbor, MI

Enhanced Peters-Belson: Bias in treatment-prognostic score interaction. (*Poster*)

Teaching

2014, University of Michigan
Graduate Student Instructor
Statistics 403, Introduction to Quantitative Research Methods

Planned and taught lab sections including both statistical theory and computational skills. Guided students on two real-world data analysis problems.

2011 - 2014, University of Michigan
Graduate Student Mentor

Mentor current and new Graduate Student Instructors. Act as their primary point of contact with questions and concerns, as well as providing feedback from in-class observation sessions.

2011, University of Michigan
Grader
Statistics 605, Advanced Topics in Modeling and Data Analysis

Graded assignments, and graded and provided feedback on papers and presentations through the term.

2010 - 2013, University of Michigan
Graduate Student Instructor
Statistics 250, Introduction to Statistics and Data Analysis

Taught lab sections, held office hours, and graded assignments and exams.

Awards

2011-2012 Outstanding Teaching Award
Presented by the Department of Statistics, University of Michigan.

2010-2011 Outstanding Teaching Award
Presented by the Department of Statistics, University of Michigan.

Technological Skills

- Extensive background in Windows, Mac and *nix-based systems.
- Exposure to many programming languages, such as Java, C/C++, SQL and Perl.
- Strong knowledge in most mathematical/statistical environments, including R, Python (Numpy/Scipy), SPSS, Stata, Matlab, SAS, Mathematica, nQuery, Mplus and JMP.
- Familiarity with LaTeX as well as several Office suites including Microsoft Office.
- Experience with computing hardware.