Eric Hare

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Research Interests

Exploratory Data Analysis, Statistical Graphics, Statistical Computing, Statistical Models, Reproducible Research

Education

Iowa State University   Aug 2012 — Present

Statistics & Computer Science

- PhD Co-Major
- Received Master of Science in Statistics May 2014

University of Washington   Sep 2008 — Jun 2012

Statistics & Computer Engineering

- Bachelor of Science in Computer Engineering, Cum Laude, with Honors in Computer Engineering
- Bachelor of Science with a major in Statistics, Cum Laude

Academic Experience

Instructor

- *Introduction to Business Statistics (STAT 226)*. Prepared lectures, exams, helped prepare course notes, homeworks, and held office hours. Responsible for 80 students.

Teaching Assistant

- *Engineering Statistics (STAT 305).* Held office hours, graded homeworks and exams.
- *Empirical Methods for Computer Science (STAT 430).* Held office hours, graded homeworks.
- *Applied Statistical Computing (STAT 480).* Held office hours, graded homeworks.
- *Introduction to Statistical Computing (STAT 579).* Held office hours, graded homeworks, assisted in creation of exams.

Research Assistant

- Explored the Lineup Protocol in visual inference. Modified an automated framework for performing tests of significance with the lineup protocol, assisted others in performing experiments, with Hofmann, H., Cook, D.
- Developed statistical models and graphical summaries for Shane, J.
- (University of Washington) Developed an automated hand-tracking mechanism using OpenCV and Python to independently track two hands using a camera connected to a computer. Worked with Fox, D.

Papers

- **Hare, E.**, Buja, A., and Hofmann, H., *Manipulation of Discrete Random Variables with discreteRV* (In preparation)
- **Hare, E.**, Hofmann, H., and Sieber, T., *Analyzing Peptide Libraries with peptider* (In preparation)
- **Hare, E.**, Sieber, T., and Hofmann, H., *A Web Application for Efficient Analysis of Peptide Libraries* (In preparation)
- Sieber, T., **Hare, E.**, Hofmann, H., and Treppel, M., *Biomathematical Description of Synthetic Peptide Libraries* (Submitted to PLOS ONE)
- Kaplan, A., and **Hare, E.**, *Putting Down Roots: A Graphical Exploration of Community Attachment* (Submitted to Computational Statistics)
- Kaplan, A., **Hare, E.**, Hofmann, H., and Cook, D., *Can you buy a president? Politics after the Tillman Act*. CHANCE Vol. 27 Iss. 1 (2014)

Posters & Presentations

- **Hare, E.**, Sieber, T., and Hofmann, H., *A Web Application for Efficient Analysis of Peptide Libraries.* Contributed Paper, Joint Statistical Meetings, Aug 2-7 2014, Boston, MA
- Kaplan, A., and **Hare, E.**, *Putting Down Roots: A Graphical Exploration of Community Attachment.* Census Data Visualization Seminar, US Census Bureau, Sep 19 2013, Washington, D.C.
- **Hare, E.**, Kaplan, A., Hofmann, H., and Cook, D., *Can you buy a president? Politics after the Tillman Act.* Poster Presentation, Joint Statistical Meetings, Aug 3-8 2013, Montreal, QC
- Kaplan, A., and **Hare, E.**, *Putting Down Roots: A Graphical Exploration of Community Attachment.* Poster Presentation, Joint Statistical Meetings, Aug 3-8 2013, Montreal, QC

Awards

Iowa State University

- Kempthorne Award 2013
- American Statistical Association Data Exposition 2013 - 1st Place

University of Washington

- Explorations in Statistics Research Summer Program 2011
- University of Washington Annual Dean's List 2009-2010, 2010-2011, 2011-2012

Work Experience

Iowa State University   Aug 2012 — Present
Teaching Assistant

TIBCO Software, Inc.   Jun 2010 — Aug 2013
Quality Assurance Intern

- Developed automated unit and system tests in the R language for TIBCO software programs
- Crafted performance and scalability tests which measure how the systems respond to varying loads
- Contributed to the design, planning, and architecture of software projects in the organization

University of Washington   Mar 2010 — Jun 2010
Tutor

- Assisted introductory statistics students in homework problems and analysis
- Worked with graduate students to solve more difficult statistics problems

Skills & Qualifications

- Strong knowledge of R language, Java (including Android), Objective C, C/C++, bash scripting
- Basic knowledge of SAS, Matlab, HTML/CSS, PHP, Javascript, ML, Scheme
- Great communication skills and thrives in a collaborative development environment
- Conveys ideas strongly through both public speaking and writing

Leadership

- Treasurer of STATers, 2013-2014, Iowa State University Department of Statistics

References

References available upon request.