Eric Hare

Research Assistant

1121 Snedecor Hall, Ames, IA, 50011-1210

✉ erichare@iastate.edu 📞 +1-425-405-0279 ⚬ erichare 🌐 erichare.me

Research Interests

Exploratory Data Analysis, Statistical Graphics, Statistical Computing, Reproducible Research, Graphical User Interfaces

Education

Iowa State University

Doctor of Philosophy in Statistics & Computer Science   In Progress

Master of Science in Statistics   Received May 2014

University of Washington

Bachelor of Science with a Major in Statistics, Cum Laude   Received June 2012

Bachelor of Science in Computer Engineering, Cum Laude   Received June 2012

Academic Experience

Instructor

Engineering Probability (STAT 231). Prepared syllabus, lectures, exams, course notes, homeworks, and held office hours. Responsible for 40 students.

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

Analyzed bullet striation patterns for the Center for Statistics and Applications in Forensic Evidence (CSAFE) (Hofmann, H., Carriquiry, A.)

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.

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.

Publications

Hare, E., Hofmann, H., and Carriquiry, A., **Automatic Matching of Bullet Lands**. Accepted by the Annals of Applied Statistics

Hare, E., and Kaplan, A., **Introductory Statistics with intRo**. Accepted by the Journal of Computational and Graphical Statistics

Hare, E., Buja, A., and Hofmann, H., **Manipulation of Discrete Random Variables with discreteRV**. R Journal Vol. 7 Iss. 1 (2015)

Sieber, T., Hare, E., Hofmann, H., and Treppel, M., **Biomathematical description of synthetic Peptide libraries**. PLOS One Vol. 10 Iss. 6 (2015)

Kaplan, A., and Hare, E., Putting Down Roots: **A Graphical Exploration of Community Attachment** (Accepted in 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., **Reproducing User Actions in Shiny**. Shiny Developer Conference, Jan 30-31, 2016, Palo Alto, WA, USA

Hare, E., Kaplan, A., **intRo: Statistical Analysis Software for Teaching**. Contributed Paper, Joint Statistical Meetings, Aug 8-13, 2015, Seattle, WA, USA

Hare, E., Buja, A., and Hofmann, H., **Manipulation of Discrete Random Variables in R with discreteRV**. useR, Jul 2, 2015, Aalborg, DK

Cook, D., Hare, E., **ASA Traveling Workshops**, May 15-18, 2015, UCLA, Chapman University, Pfizer, California, USA

Hare, E., Kaplan, A., **intRo: Statistical Analysis Software for Teaching**. Departmental Seminar (Iowa State University), Jan 12, 2015, Ames, IA, USA

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, USA

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., USA

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

ASA Imaging Section Student Paper Award 2016

Ron Wasserstein Award for Best Contributed Paper in Statistical Education 2015

ASA Computing Section Student Paper Award 2015

Kempthorne Award for Best Student in Linear Models 2013

ASA Data Exposition 2013 - 1st Place

Explorations in Statistics Research Summer Program 2011

University of Washington Annual Dean's List 2009-2010, 2010-2011, 2011-2012

Work Experience

Data Scientist, Omni Analytics Group	Aug 2014 - Present
Research Assistant, Iowa State University	Aug 2015 - Present
Teaching Assistant, Iowa State University	Aug 2012 - Aug 2015
Quality Assurance Intern, TIBCO Software, Inc.	Jun 2010 - Aug 2013

Skills & Qualifications

Strong knowledge of R language, Python, HTML, Javascript, Java (including Android), Objective C, C/C++, bash scripting

Basic knowledge of SAS, Matlab, PHP, ML, Scheme, Julia

Great communication skills and thrives in a collaborative development environment

Conveys ideas strongly through both public speaking and writing

Leadership

Teacher at Iowa State University R workshops, 2013-2016

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

References

References available upon request.