

CRAIG A. ROLLING

Department of Epidemiology and Biostatistics
College for Public Health and Social Justice
Saint Louis University
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FACULTY APPOINTMENTS

Saint Louis University, College for Public Health and Social Justice **St. Louis, MO**
Assistant Professor of Biostatistics (2016 - Present)

University of Oregon, Lundquist College of Business **Eugene, OR**
Assistant Professor of Operations and Business Analytics (2014 - 2016)

EDUCATION

University of Minnesota **Minneapolis, MN**
Ph.D. in School of Statistics (2014)

- Dissertation: Estimation of conditional average treatment effects
- Advisor: Yuhong Yang

University of Chicago **Chicago, IL**
B.S. with Honors in Statistics (1998)

RESEARCH

Published

- Rolling, C. and Y. Yang (2014). Model selection for estimating treatment effects. *Journal of the Royal Statistical Society, Series B*. Volume 76, Issue 4, pages 749-769.

Under Review

- Rolling, C. and Y. Yang. Combining estimates of conditional treatment effects.

In Preparation

- Zhang, Y. and C. Rolling. Adaptive procedure combination in machine learning.
- Rolling, C. and W. Wu. Sufficient dimension reduction for treatment effect estimation.
- Rolling, C., W. Qian, G. Cheng and Y. Yang. Identifying the proper goal of forecast combination.
- Qian, W., C. Rolling, G. Cheng and Y. Yang. On the forecast combination puzzle.

- Zhang, Y. and C. Rolling. Conditional Correlations by Common Factors.

Conference Proceedings

- Rolling, C. (2011). Estimating the benefits of the HOME Line Tenant Hotline. In JSM Proceedings, Social Statistics Section. Alexandria, VA: American Statistical Association, pages 4185-4190.

GRANTS

Added as Co-Investigator after grant awarded

- Title: A Prospective Study of Health among Newly Hired Corrections Officers
Principal Investigator: Lisa Jaegers
Funding Organization: University of Iowa, Healthier Workforce Center for Excellence
Role: Co-Investigator responsible for statistical analysis
Funding Period: March-August 2017

CONFERENCE AND SEMINAR PRESENTATIONS

- Joint Statistical Meetings; Baltimore, MD; July 31, 2017
- INFORMS Annual Meeting; Nashville, TN; November 13, 2016*
- Joint Statistical Meetings; Chicago, IL; August 3, 2016*
- Organizer of invited session “Estimation of heterogeneous treatment effects”
- Joint Statistical Meetings; Seattle, WA; August 13, 2015
- WNAR/IMS Conference; Boise, ID; June 16, 2015
- Department of Statistics seminar, University of California-Riverside; December 2, 2014*
- INFORMS Annual Meeting; San Francisco, CA; November 10, 2014
- INFORMS Annual Meeting; Minneapolis, MN; October 8, 2013
- Joint Statistical Meetings; Montréal, QC; August 6, 2013
- ASA Conference on Statistical Practice; New Orleans, LA; February 23, 2013
- Joint Statistical Meetings; San Diego, CA; July 29, 2012
- Joint Statistical Meetings; Miami, FL; August 3, 2011
- CURA Housing Forum; Minneapolis, MN; December 17, 2010*

* *invited presentation*

SOFTWARE

`gains`, an R package that creates gains tables and lift charts for predictive model evaluation. Hosted on CRAN at <https://CRAN.R-project.org/package=gains>.

TEACHING

Saint Louis University

- BST 3200: Applied Biostatistics II Spring 2017 (1 term)
This new course for undergraduate biostatistics majors was taught for the first time in Spring 2017. It covers linear regression, logistic regression, and issues around study design. Taught using the SAS University software.
- BST 5000: Principles of Biostatistics Fall 2016 (1 term)
This course provides graduate students in public health with an introduction to statistical analysis, with a focus on methods commonly used in public health research. Taught using the software SPSS.

University of Oregon

- OBA 330: Business Statistics Winter 2015 - Winter 2016 (4 terms)
Provided a foundation in linear and logistic regression analysis for undergraduate business majors. Taught using the software SPSS.

University of Minnesota

- STAT 5021: Statistical Analysis Fall 2013 - Spring 2014 (2 terms)
Course for graduate students in the sciences. Taught using the software R with the RStudio interface.
- STAT 3011: Introduction to Statistical Analysis Fall 2009 - Spring 2013 (8 terms)
Taught this course eight times to over 600 students with diverse backgrounds. Taught using the software R.

SERVICE AND OUTREACH

Thesis Committee: Adam Check, University of Oregon, Economics.

Referee Experience: *American Journal of Medical Quality, Annals of Epidemiology, Annals of the Institute of Statistical Mathematics, Technometrics.*

Nonprofit Statistical Consulting: HOME Line, Minneapolis, MN. Summer 2010

- Analyzed 15 years of call records and follow-up to provide point and interval estimates of the benefits received by callers to the HOME Line tenant hotline. Results are continually updated and still used in HOME Line publicity and funding requests.

INDUSTRY EXPERIENCE

Customer Asset Consulting Group (now Cogensia)

Marketing Analytics Consultant

Schaumburg, IL

2006 - 2011

- Managed other consultants and developed statistical methods to strengthen the company's analytical services across its client base.

STATS

Research Analyst

Morton Grove, IL

2000 - 2006

- Created graphics and notes for sports broadcasts on FOX, CBS, and NBC. Wrote essays for ESPN.com. Provided content for the New York Times and Wall Street Journal.