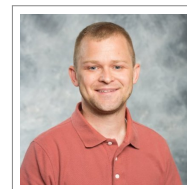


John R. Lewis

☎ +1 (505) 284 9303
✉ jrlewi@sandia.gov



Education

- 2009–2014 **Statistics**, *The Ohio State University*, Columbus, OH, *Ph.D. & M.S.*
Dissertation Title: Bayesian Restricted Likelihood Methods
- 2006–2008 **Mathematics**, *Miami University*, Oxford, OH, *M.S.*
- 2002–2006 **Education & Mathematics and Statistics**, *Miami University*, Oxford, OH,
B.A. & B.S.
Magna cum Laude

Ph.D. Dissertation

- title *Bayesian Restricted Likelihood Methods*
- advisors Dr. Steven N. MacEachern and Dr. Yoonkyung Lee

Experience

- 2014–Present **Senior Member of the Technical Staff**, *Sandia National Laboratories*, Albuquerque, NM.
- 2011–2014 **Research Assistant**, *Nationwide Center for Advanced Customer Insights*, *Fisher College of Business*, *The Ohio State University*, Columbus, OH.
- 2012 **Summer Student Intern**, *JPMorgan Chase & Co.*, Columbus, OH.
- 2010–2011 **Teaching Assistant**, *The Ohio State University*, Columbus, OH.
- 2010 **Research Assistant**, *Summer Undergraduate Mathematical Sciences Research Institute*, *Miami University*, Oxford, OH.
- 2008–2009 **Mathematics Teacher**, *Dupont Manual High School*, *Jefferson County Public Schools*, Louisville, Kentucky.
- 2006–2008 **Teaching Assistant**, *Miami University*, Oxford, OH.

Honors and Awards

- 2014 Craig Cooley Memorial Prize (OSU)
- 2009 University Fellowship (OSU)
- 2009 Lubrizol Foundation Fellowship (OSU)
- 2008 Graduate Assistant Effective Teaching Award (Miami University)

- 2008 Faculty Prize (Miami University)
- 2006 Graduation with Distinction (Miami University)
- 2006 Alumni Senior Prize (Miami University)
- 2005 Mary Jeanette and Clifford Harvey Scholarship (Miami University)
- 2004 J. Paul and John P. Albert Scholarship (Miami University)
- 2004 Koehler Prize in Mathematics (Miami University)

Service

- 2014–Present Journal Reviewer: Bayesian Analysis, Journal of VV and UQ
- 2012–2013 Student Co-President, Department of Statistics, The Ohio State University
- 2010, 2011 Science Fair Judge, State Science Day, Ohio Academy of Science

Professional Memberships

- 2011–Present ASA
- 2012 – 2014 IMS

Publications

Journals

John R. Lewis, Adah Zhang, and Christine M. Anderson-Cook, *Comparing multiple statistical methods for inverse prediction in nuclear forensics applications*, Chemometrics and Intelligent Laboratory Systems (2018).

Edward V Thomas, John R Lewis, Christine M Anderson-Cook, Tom Burr, and Michael S Hamada, *Selecting an informative/discriminating multivariate response for inverse prediction*, Journal of Quality Technology **49** (2017), no. 3, 228–243.

Conferences

John R. Lewis and Dusty Brooks, *Uncertainty quantification and comparison of weld residual stress measurements and predictions*, ASME 2017 Pressure Vessels and Piping Conference **6B: Materials and Fabrication** (2017).

John R. Lewis, Steven MacEachern, and Yoonkyung Lee, *Robust inference via the blended paradigm*, JSM Proceedings, Section on Bayesian Statistical Science, 2012, pp. 1773–1786.

Technical Reports

Aubrey C. Eckert-Gallup, John R. Lewis, Nevin S. Martin, Lauren B. Hund, Andrew J Clark, Dusty M. Brooks, and Paul E. Mariner, *xLPR scenario analysis report*, SAND2017-2854, Sandia National Laboratories, Albuquerque, New Mexico 87185 and Livermore, California 94550, March 2017.

John R. Lewis and Dusty Brooks, *Uncertainty quantification and comparison of weld residual stress measurements and predictions*, SAND2016-10932, Sandia

National Laboratories, Albuquerque, New Mexico 87185 and Livermore, California 94550, October 2016.

John R. Lewis, Steven MacEachern, and Yoonkyung Lee, *Bayesian Restricted Likelihood Methods*, Tech. Report Technical Report No. 878, Department of Statistics, The Ohio State University, 2014.

In Progress

John R. Lewis, Steven MacEachern, and Yoonkyung Lee, *Bayesian restricted likelihood methods*, Under revision for Bayesian Analysis.

J. Derek Tucker, John R. Lewis, Lyndsay Shand, and Jonathan W. Lane, *Bayesian modeling of self-exciting point processes with missing temporal histories*.

Talks

- “Statistical Applications at Sandia”, *University of Illinois Urbana - Champaign*, Champaign, Illinois, Sept. 27, 2017.
- “Handling Missing Data in Self-Exciting Temporal Point Processes” *Joint Statistical Meetings*, Baltimore, Maryland, July 29 - August 3, 2017.
- “R Projects”, *Statistical Sciences Internal Seminar, Sandia National Laboratories*, July, 18, 2017.
- “Selecting an Informative/Discriminating Multivariate Response for Inverse Prediction” *Joint Statistical Meetings*, Chicago, Illinois, July 30-August 4, 2016.
- “The Blended Paradigm: Robust Bayesian Modeling using Non-Sufficient Statistics” *Craig Cooley Memorial Prize Talk*, The Ohio State University, Statistics Department, Columbus, Ohio, April 8, 2014.
- “Bayesian Inference via the Blended Paradigm” *Joint Statistical Meetings*, Montréal, Québec, Canada, August 3 - 8, 2013.
- “Robust Inference via the Blended Paradigm” *Joint Statistical Meetings*, San Diego, California, July 28-August 2, 2012.

Computing

Languages	R, Python, MATLAB, SAS, JMP, Minitab
Systems	Mac OS, Linux, Windows
Typesetting	L ^A T _E X, RMarkdown, Word
Software	<i>brlm</i> - an R package for Bayesian Restricted Likelihood Methods (https://
Development	github.com/jrlewi/brlm)