

Douglas A. Lehmann

Kosar Epstein 307
University of Miami
Coral Gables, FL 33146

Phone: (636) 443-5189
Email: dlehmann@bus.miami.edu

Education

Ph.D. in Biostatistics, University of Michigan, Ann Arbor 2016
Dissertation title: *Robust instrumental variable methods for causal inference*

M.A. in Statistics and Economics, University of Missouri, Columbia 2010
Masters project (published): *Is curriculum quality uniform? Evidence from Florida.*

B.S. in Statistics and Economics, University of Missouri, Columbia 2008

Certifications

Tableau Certified Associate
SAS Certified Base Programmer (SAS 9)
Certified Analytics Professional (INFORMS)

Current Position

Assistant Professor of Professional Practice Aug 2016 - Present
Department of Management Science, University of Miami

Courses taught:

Programming for Data Analytics (MS)
Data Acquisition, Preparation, and Visualization (Undergraduate, MS, MBA)
Generalized Linear Models (MS)
Time Series Analysis (MS)
Data Mining (MBA)
Data Analysis (Undergraduate)
Design of Experiments (MS, MBA)
Statistical Analysis for Managerial Decision Making (Executive MBA)

Previous Experience

Graduate Student Research Assistant, University of Michigan, Ann Arbor
Kidney Epidemiology Cost Center Sep 2011 - May 2016
Statistical Analysis of Biomedical and Educational Research Group Apr 2011 - Sep 2011

Biometrics Intern, Missouri Department of Conservation, Columbia, MO Aug 2009 - Jul 2010

Graduate Student Instructor, Department of Statistics, University of Missouri

Introduction to Probability and Statistics I

Fall 2008, Winter 2009

Elementary Statistics

Summer 2009

Teaching Assistant, Department of Economics, University of Missouri

Money, Banking, and Financial Markets

Winter 2008

Principles of Microeconomics

Fall 2007

Publications

1. **Lehmann D**, Li Y, Saran R, Li Y (2016). "Strengthening Instrumental Variables Through Weighting." *Statistics in Biosciences*. 9:434.
2. Bhatt R, Koedel C, **Lehmann D** (2013). "Is Curriculum Quality Uniform? Evidence from Florida." *Economics of Education Review*. 34: 107-121.
3. UNDER SECOND REVIEW: Dharmarajan S, Li Y, **Lehmann D**, Schaubel D. "Weighted Estimators of the Complier Average Causal Effect on Restricted Mean Survival Time with Observed Instrument-Outcome Confounders." *Biometrics*, July 2019.
4. REVISE AND RESUBMIT: Srivastava K, Yu C, Mahkni E, **Lehmann D**, Guthrie T. "A Practical Guide to Understanding the Costs in Treating Ankle Syndesmosis Injuries with Suture Button Fixation and Syndesmotic Screws Using Decision Analysis Tools." *Foot & Ankle International*, September 2018.

Presentations

1. "IV Matching Weight Estimator with Censored Data", July 2017, Joint Statistical Meetings, Baltimore, MD.
2. "Strengthening Instrumental Variables Through Weighting", October 2016, USRDS Steering Committee Meeting, Ann Arbor, MI.
3. "A Weighted Estimator of the Local Average Treatment Effect with Observed Instrument-Outcome Confounding (Poster)", October 2015, Causal Inference and Missing Data Symposium, Ann Arbor, MI.
4. "Firth Modified Fixed Effects for Estimation of Standardized Transfusion Ratios", February 2015, University of Michigan KECC Seminar, Ann Arbor, MI.
5. "First Year Mortality in Peritoneal and Hemodialysis Patients: An Instrumental Variable Analysis (Poster)", November 2014, Kidney Week (American Society of Nephrology annual meeting), Philadelphia, PA.
6. "Weighting to Build a Stronger Instrument in a Study of Dialysis Modalities (Poster)", July 2014, International Biometric Conference 2014, Florence, Italy.
7. "Weighted Near-far Matching to Improve Instrument Strength", March 2014, MSSISS 2014, Ann Arbor, MI.
8. "Weighting to Build a Stronger Instrumental Variable", March 2014, ENAR Annual Meeting, Baltimore, MD.
9. "K-Means Clustering to Strengthen a Weak Instrumental Variable", August 2013, Joint Statistical Meetings, Montreal, QC.

Service and Extracurricular

Faculty Director of the MS in Business Analytics Miami Business School	2016-Present
Ad-hoc reviewer: <i>Biometrics, Statistics in Biosciences</i>	2014-2017
Student Committee, 2014 School of Public Health Symposium University of Michigan	Aug 2014 - Oct 2014
Organizer, Michigan Student Symposium for Interdisciplinary Statistical Science 2014 (MSSISS), University of Michigan	Sept 2013 - Mar 2014
Doctoral Student Representative, Biostatistics University of Michigan	Jan 2012 - May 2014
Chair, Biostatistics Student Seminar Series University of Michigan	Sept 2012 - May 2013
President, Statistics Graduate Student Association University of Missouri	Aug 2009 - Aug 2010
Board Member, Tigers Credit Union University of Missouri	Apr 2008 - Aug 2010

Mentorship

Undergraduate Honors Thesis Supervisor for John Nicholas <i>Balancing Academic Influence and Social Capital in Coauthorship Networks.</i>	2018-2019
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Honors and Awards

Dean's Appreciation Award - Miami Business School	2018
Excellence in Teaching Award - Miami Business School	2018, 2019

Computing

R, SAS, SQL, Tableau, AWS

Professional Memberships

American Statistical Association	May 2011 - Present
International Biometric Society	Sep 2013 - Sep 2016
American Society of Nephrology	Sep 2014 - Aug 2015