

# Douglas A. Lehmann

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## Education

Ph.D. in Biostatistics, University of Michigan, Ann Arbor Dissertation title: <i>Robust instrumental variable methods for causal inference</i>	2016
M.A. in Statistics and Economics, University of Missouri, Columbia Masters project (published): <i>Is curriculum quality uniform? Evidence from Florida.</i>	2010
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

<i>Associate Professor of Professional Practice</i>	Apr 2020 - Present
<i>Director, Master of Science in Business Analytics</i>	Aug 2016 - Present
<i>Director, Deloitte Institute for Research and Practice in Analytics</i>	May 2021 - Present
Department of Management Science, University of Miami	

## Courses taught (proposed and developed courses in bold):

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

## Previous Experience

<i>Assistant Professor of Professional Practice</i>	Aug 2016 - Apr 2020
Department of Management Science, University of Miami	

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. Dharmarajan S, Li Y, **Lehmann D**, Schaubel D (2020). "Weighted Estimators of the Complier Average Causal Effect on Restricted Mean Survival Time with Observed Instrument-Outcome Confounders." *Biometrical Journal*, 63:4, p712-724, DOI: 10.1002/bimj.201900284.
2. **Lehmann D**, Li Y, Saran R, Li Y (2016). "Strengthening Instrumental Variables Through Weighting." *Statistics in Biosciences*. 9:434.
3. Bhatt R, Koedel C, **Lehmann D** (2013). "Is Curriculum Quality Uniform? Evidence from Florida." *Economics of Education Review*. 34: 107-121.
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 2019.

## Presentations

1. "TV 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 Herbert 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 (MSSIIS), 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

Faculty Advisor - Data Analytics Student Association	2021-Present
Supervisor - Undergraduate Honors Thesis, John Nicholas <i>Balancing Academic Influence and Social Capital in Coauthorship Networks.</i>	2018-2019

## Honors and Awards

Dean's Appreciation Award - Miami Business School	2018
Excellence in Teaching Award - Miami Business School	2018, 2019, 2020, 2021

## Computing

R, SAS, SQL, Tableau, Microsoft Power BI, AWS

## Professional Memberships

American Statistical Association	May 2011 - Present
Institute for Operations Research and the Management Sciences	January 2019 - Present
International Biometric Society	Sep 2013 - Sep 2016
American Society of Nephrology	Sep 2014 - Aug 2015