# Douglas A. Lehmann

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## 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

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

## Current Position

*Assistant Professor of Professional Practice* — Aug 2016 - Present
Co-Academic Director of the MS in Business Analytics
Department of Management Science, University of Miami

## 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. Bhatt R, Koedel C, **Lehmann D** (2013). "Is Curriculum Quality Uniform? Evidence from Florida." *Economics of Education Review*. 34: 107-121.

2. **Lehmann D**, Li Y, Saran R, Li Y (2016). "Strengthening Instrumental Variables Through Weighting." *Statistics in Biosciences*.

# Presentations

1. "K-Means Clustering to Strengthen a Weak Instrumental Variable (Oral and Poster)", August 2013, Joint Statistical Meetings, Montreal, QC.

2. "Weighting to Build a Stronger Instrumental Variable (Oral)", March 2014, ENAR Annual Meeting, Baltimore, MD.

3. "Weighted Near-far Matching to Improve Instrument Strength (Poster)", March 2014, MSSISS 2014, Ann Arbor, MI.

4. "Weighting to Build a Stronger Instrument in a Study of Dialysis Modalities (Poster)", July 2014, International Biometric Conference 2014, Florence, Italy.

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. "Firth Modified Fixed Effects for Estimation of Standardized Transfusion Ratios (Oral)", February 2015, University of Michigan KECC Seminar, Ann Arbor, MI.

7. "Strengthening Instrumental Variables Through Weighting (Oral)", October 2016, USRDS Steering Committee Meeting, Ann Arbor, MI.

8. "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.

# Service and Extracurricular

Ad-hoc reviewer: *Biometrics*, *Statistics in Biosciences*

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| Student Committee, 2014 School of Public Health Symposium<br>University of Michigan | Aug 2014 - Oct 2014 |
| Organizer, Michigan Student Symposium for<br>Interdisciplinary Statistical Science 2014 (MSSISS).<br>University of Michigan | Sept 2013 - Mar 2014 |
| Student Recruiter, Joint Mathematics Meeting 2014<br>University of Michigan, Department of Biostatistics | Jan 2014 |
| Doctoral Student Representative, Biostatistics<br>University of Michigan | Jan 2012 - May 2014 |
| Chair, Biostatistics Student Seminar Series<br>University of Michigan | Sept 2012 - May 2013 |

President, Statistics Graduate Student Association      Aug 2009 - Aug 2010
University of Missouri

Board Member, Tigers Credit Union      Apr 2008 - Aug 2010
University of Missouri

# Computing

**R**, **SAS** (Base Certification), SQL, Python, Minitab, Matlab, Tableau, Git/GitHub

# Professional Memberships

American Statistical Association      May 2011 - Present

International Biometric Society      Sep 2013 - Present

American Society of Nephrology      Sep 2014 - Aug 2015

Last updated: December 19, 2016