

Education

- Ph.D., Political Science. **University of Wisconsin-Madison.** **2011**
Dissertation Title: “Data-Driven Discovery for Political Science.”
Advisor: David L. Weimer
- M.S., Statistics. **University of Wisconsin-Madison.** **2010**
- M.A., Political Science. **University of Wisconsin-Madison.** **2010**
- B.A., College Scholar. **Cornell University.** **2000**
Honors Thesis: “A Formal Model For Estimating PAC Preferences Over Legislators.”
Advisor: Walter R. Mebane, Jr.

Positions

- Assistant Professor, Department of Politics, **Princeton University** **2013-**
Lecturer, Department of Politics and Woodrow Wilson School of Public and
International Affairs, **Princeton University.** **2012-2013**
- Postdoctoral Fellow in the Program for Quantitative and Analytical Political
Science, **Princeton University.** **2011-2012**
- Predocctoral Fellow in the Program for Quantitative and Analytical Political
Science, **Princeton University.** **2010-2011**

Affiliations

Princeton Center for Statistics and Machine Learning, Princeton Institute for Computational
Science and Engineering.

Grants and Awards

- Minerva Research Initiative Grant. “Reforging Identity: Comparative Ethnographic Studies of
Influence Operations in Taiwan and Estonia.” \$852,031.
- Stanley Kelley, Jr. Award for Excellence in Teaching. Department of Politics, Princeton
University. May 12, 2021.
- Gosnell Prize for Excellence in Political Methodology, for “Sparse Estimation with Uncertainty:
Subgroup Analysis in Large Dimensional Designs.” With Dustin Tingley. July 22, 2016.
- Thomas R. Ten Have Memorial Award for Best Poster, for “Identification of Treatment Effect
Heterogeneity as a Variable Selection Problem.” With Kosuke Imai. Atlantic Causal Inference
Conference, Ann Arbor. May 20, 2011.
- Nomination for Best Paper, for “Identification of Treatment Effect Heterogeneity as a Variable
Selection Problem.” With Kosuke Imai. Annual Midwest Political Science Association
Meeting, Chicago. April 1, 2011.
- Department of Political Science Teaching Award. University of Wisconsin-Madison. Fall, 2007.

Research

Accepted Manuscripts

“Relaxing Assumptions, Improving Inference: Integrating Machine Learning and the Linear Regression.” Conditionally accepted, with Editor. *American Political Science Review*.

“Causal Inference through the Method of Direct Estimation.” With Dustin Tingley. Conditionally accepted, with Editor. *Journal of Politics*.

Publications in Refereed Journals

“Scaling Data from Multiple Sources.” 2021. *Political Analysis*. 29(2): 212-235. With Ted Enamorado and Gabriel Lopez-Moctezuma.

“The Effects of Political Institutions on the Extensive and Intensive Margins of Trade.” 2019. *International Organization*. 73(4): 755-792. With In Song Kim and John Londregan.

“Estimating Spatial Preferences from Votes and Text.” 2018. *Political Analysis*. 26(2): 210-229. With In Song Kim and John Londregan.

“Sparse Estimation with Uncertainty: Subgroup Analysis in Large Dimensional Designs.” 2017. *Political Analysis*. 25(1): 1-40. Lead Article. With Dustin Tingley.

“Robust Estimation of Inverse Propensity Weights for Marginal Structural Models.” 2015, *Journal of the American Statistical Association*. 110(511): 1013-1023. Lead Article. With Kosuke Imai.

“Covariate Balancing Propensity Score.” 2014. *Journal of the Royal Statistical Society: Series B*. 76(1): 243-263. With Kosuke Imai.

“Estimating Treatment Effect Heterogeneity in Randomized Program Evaluation.” 2013. *Annals of Applied Statistics*. 7(1): 443-470. With Kosuke Imai.

“Finding Jumps in Otherwise Smooth Curves: Identifying Critical Events in Political Processes.” 2010. *Political Analysis* 18(1): 57-77. With Kevin H. Eng.

Chapters in Edited Volumes

“Subgroup Analysis: Pitfalls, Promise, and Honesty.” 2021. *Advances in Experimental Political Science*. Cambridge University Press (J. Druckman and D. Green, eds.).

Working Papers

“Improving Variable Importance Measures.” With Zenobia Chan.

“Sparse Multilevel Regression and Poststratification.” With Max Goplerud, Shiro Kuriwaki, and Dustin Tingley.

“Bicoordinate Descent for the LASSO.” With In Song Kim and John Londregan.

Published Software

“PLCE: R package for Semiparametrically Efficient Causal Effect Estimation with Binary and Continuous Treatment Variables.” Available through the Comprehensive R Archive Network.

“sparsereg: R package for Sparse Bayesian Models for Regression, Subgroup Analysis, and Panel Data.” With Dustin Tingley. Available through the Comprehensive R Archive Network.

“CBPS: R Package for Covariate Balancing Propensity Score.” With Kosuke Imai and Christian Fong. Available through the Comprehensive R Archive Network.

“FindIt: R Package for Estimating Heterogeneous Treatment Effects.” With Kosuke Imai. Available through the Comprehensive R Archive Network.

Teaching Experience

Assistant Professor and Lecturer, Princeton University	2012-
Undergraduate and Graduate: Quantitative Analysis and Politics; Applied Quantitative Analysis; Policy Research Seminar	2006-2010
Teaching Assistant, University of Wisconsin-Madison	
Ph.D. Level: Regression for Political Science. Masters Level: Statistics for Public Policy I and II.	2010
Undergraduate Level: Intro to American Government.	
Instructor, University of Wisconsin-Madison	2002-2005
R Short Course, Social Science Computing Center.	
Math Teacher, New York City	
Intermediate School 392. Brooklyn, NY.	

Selected Invited Talks

- November 4, 2019. “Rehabilitating the Regression: Honest and Valid Causal Inference through Machine Learning.” University of Michigan ISQM Seminar.
- October 28, 2019. “Rehabilitating the Regression: Honest and Valid Causal Inference through Machine Learning.” New York University Methods Seminar.
- May 13, 2019. “Rehabilitating the Regression: Honest and Valid Causal Inference through Machine Learning.” Duke University Methods Seminar.
- May 20, 2018. “The Effects of Political Institutions on the Extensive and Intensive Margins of Trade.” V-Dem Institute, Gothenburg, Sweden.
- February 26, 2018. “Causal Inference through the Method of Direct Estimation.” Ulric B. and Evelyn L. Bray Social Science Seminar Series, California Institute of Technology.
- March 8, 2017. “Causal Inference through the Method of Direct Estimation.” Yale Methods Seminar.
- April 27, 2017. “Causal Inference through the Method of Direct Estimation.” IQSS, Harvard.
- What If? Machine Learning for Causal Inference. February 2016. Harvard and MIT.
- Annual Summer Meeting, Society for Political Methodology. July 26, 2014.
- Summer School in Quantitative Methods, Empirical Political Economy Network. May 19-20, 2014. CIDE, Mexico City.
- Annual Meeting of the Society for Political Methodology. July 19, 2012. University of North Carolina-Chapel Hill.
- Machine Learning Seminar. March 14, 2012. Department of Computer Science, Princeton University.
- Thomas R. Ten Have Memorial Presentation. May 25, 2012. Atlantic Causal Inference Conference, Johns Hopkins University.
- Experiments Seminar. September 8, 2011. Institution for Social and Policy Studies, Yale University.
- Annual Meeting of the Society for Political Methodology. July 29, 2011. University of North Carolina-Chapel Hill.
- Annual Meeting of the Midwest Political Science Association. April 1, 2011. Chicago, IL.

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New Faces in Political Methodology Conference. May 1, 2010. Quantitative Social Science Initiative, Pennsylvania State University.

Memberships

American Political Science Association, Midwest Political Science Association, Society for Political Methodology, American Statistical Association.