

Education

Ph.D. Political Science Michigan State University	Expected 2018
M.P.P. Public Policy George Mason University	2007-2010
B.A. Political Science and Economics University of Alabama	2003-2007

Publications

Peer-Reviewed Publications

Lum, K. and Isaac, W. "To Predict and Serve?" Significance 13.5 (2016): 15-19.

Technical Publications

Burtraw, D. Krupnick, A., Sampson, G. Isaac, W. Chu, J. and Beasley, B. 2012. The True Cost of Electric Power : An Inventory of Methodologies to Support Future Decision making in Comparing the Cost and Competitiveness of Electricity Generation Technologies. RFF Report. <http://bit.ly/14jSNO3>

Cropper, M. and Isaac, W. 2011. The Benefits of Achieving the Chesapeake Bay TMDLs: A Scoping Study. RFF Discussion Paper 11-31. <http://bit.ly/nj822E>

Other Publications

Isaac, W. and Dixon, A. "Predictive policing violates more than it protects." [The Conversation US](#). May 9, 2017.

Isaac, W. and Lum, K. "Predictive policing violates more than it protects." [USA Today](#). December 2, 2016.

Isaac, W. "Tyranny of the Algorithm? Societal Costs of Predictive Policing Systems" [AGEP Science Today Bulletin](#) (2016)

Working Papers

Grossmann, M. and Isaac, W. 2017. [Where Do the Rich Rule? Specifying Unequal Public Influence on American Policy Adoption](#)

Presentations

Conference Presentations

Isaac, W. 2017. "Algorithmic Bias and Prediction in Criminal Justice" Presented at Ohio State University Law School Symposium on Big Data and Criminal Law (Scheduled), Columbus, OH.

Grossmann, M. and Isaac, W. 2017. "Reconsidering Unequal Public Influence on American Policy Adoption" American Political Science Association Conference (Scheduled), San Francisco, CA.

Lum, K. and Isaac, W. 2016. "To Predict and Serve? Predictive Policing with Bias Training Data" Presented at Fairness and Transparency in Machine Learning Conference (FATML), New York, NY.

Lum, K. and Isaac, W. 2016. "Predictive Policing with Bias Training Data" Presented at the Robert L. Bernstein Institute Annual Conference on Human Rights, New York, NY.

Juenke, E. and Isaac, W. 2014. "Between the Experiment and the Election: The Moderating Effects of Party Support on Racial Bias and Vote Choice" Presented at the Western Political Science Conference, Seattle, WA.

Koizumi, N. Patel, A. and Isaac, W. 2011. "Measuring Local Spatial and Temporal Changes in Segregation: Case Study of the Gateway Region of New Jersey," Joint North American Meetings of the Regional Science Association International (RSAI) and Second Conference of the Regional Science Association of the Americas, Miami, FL.

Koizumi, N. Patel, A. and Isaac, W. 2010. "Changes in the spatial pattern of racial and social segregation in the Gateway Region of New Jersey," North American Regional Science Council (NARSC) Annual Meeting, Denver, CO.

Invited Talks

[Data and Society Research Institute, New York, NY \(2016\).](#)

[Stanford Journal of Criminal Law and Policy Symposium, Palo Alto, CA \(2016\).](#)

[John Jay College Justice Codes Symposium, New York, NY \(2016\).](#)

[University of Michigan Interdisciplinary Workshop on Politics and Policy, Ann Arbor, MI \(2017\).](#)

Campus and Departmental Talks

[MSU Social Science Data Analytics Conducting Replicable Research Workshop \(2016\).](#)

Michigan State University AGEP Chalk Talk (2016).

Media Appearances

Published Interviews:

Media Interview with Mara Hvistendahl. Can 'predictive policing' prevent crime before it happens? [Nature 353:6307](#). September 28, 2016.

Media Interview with Emily Thomas. Why Oakland Police Turned Down Predictive Policing? [Vice.com](#). December 28, 2016.

Professional Experience

Aspen Institute Research Consultant	2016 - Present
Human Rights Data Analytics Group (HRDAG) Statistical Consultant	2015 - Present
Resources for the Future (RFF) Research Assistant	2011 - 2012
Resources for the Future (RFF) Senior Staff Assistant	2008 -2011

Scholarships and Grants

Pluribus Project Research Grant, Aspen Institute (\$30,000)	2016
Corey Research Enhancement Award, MSU College of Social Science (\$1,000)	2013
Political Science Graduate Fellowship, MSU Department of Political Science (\$25,000)	2012

Teaching Experience

Public Policy

InnovateGOV, Michigan State University Summer 2016 (Co-Instructor)

Career Applications for Political Scientists, Michigan State University Summer 2016
(Instructor of record)

Career Applications for Political Scientists, Michigan State University Summer 2015
(Instructor of record)

Career Applications for Political Scientists, Michigan State University Summer 2014
(Instructor of record)

Field Experience in Political Science, Michigan State University Spring 2013
(Instructor of record)

Research Methodology

Introduction to Methods of Political Analysis, Michigan State University Spring 2014
(Teaching Assistant)

Introduction to Methods of Political Analysis Discussion Section, Michigan State
University Spring 2014
(Instructor of record)

Evaluating Evidence: Critical Consumption of Social Science Research, Michigan State
University Fall 2013 (Teaching Assistant)

Professional Development

Michigan State Bayesian Data Analysis Workshop (2016)

- Bayesian Inference with Markov Chain Monte Carlo Simulation
- Hierarchical Bayesian Modelling

Michigan State D3 Data Visualization Workshop (2015)

- Developing Visualizations in Javascript
- Visualization of "Big Data"

Inter-University Consortium for Political and Social Research Summer Program (2014)

- Causal Inference for Social Sciences
- Scaling and Dimensional Analysis
- Big Data Mining

Inter-University Consortium for Political and Social Research Summer Program (2013)

- Maximum Likelihood Estimation
- Regression III: Advanced Topics
- Introduction to R Data Analysis and Visualization