Cory McCartan

Curriculum Vitae

May 2025

(425) 770-9244

mccartan@psu.edu

Department of Statistics, Penn State University

325 Thomas Building, 461 Pollock Road

Contact

Information

Assistant Professor of Statistics Assistant Professor of Political Science (by courtesy) New York University Center for Data Science Data Science Assistant Professor / Faculty Fellow EDUCATION Harvard University Ph.D., Statistics, 2023. Committee: Kosuke Imai (chair), Xiao-Li Meng, Gary King, Dissertation: Computational and Bayesian Methods for Geographic Data in the Social Sciences. A.M., Statistics, 2021. Grinnell College B.A., Mathematics, with honors, 2019. PEER-REVIEWED PUBLICATIONS PUBLICATIONS Evaluating Bias and Noise Induced by the U.S. Census Bureau's Privacy Protection Methods, with Christopher T. Kenny, Tyler Simko, Shiro Kuriwaki, and Kosuke Imai (2024). Science Advances 10:18, eadl2524. "Measuring and Modeling Neighborhoods," with Jacob R. Brown and Kosuke Imai (2024). American Political Science Review 118:4, 1966-1985. "Census Officials Must Constructively Engage with Independent Evaluations," with Christopher T. Kenny, Tyler Simko, and Kosuke Imai (2024). Proceedings of the National Academy of Sciences 121:11, e2321196121.	INFORMATION	University Park, PA 16802	iliccar tariepsu.cuu	
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 With Christopher T. Kenny, Tyler Simko, Shiro Kuriwaki, and Kosuke Imai (2024). Science Advances 10:18, eadl2524. "Measuring and Modeling Neighborhoods," with Jacob R. Brown and Kosuke Imai (2024). American Political Science Review 118:4, 1966-1985. "Census Officials Must Constructively Engage with Independent Evaluations," with Christopher T. Kenny, Tyler Simko, and Kosuke Imai (2024). Proceedings of the National Academy of Sciences 121:11, e2321196121. 		B.A., Mathematics, with honors, 2019.		
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pher T. Kenny, Tyler Simko, and Kosuke Imai (2024). Proceedings of the National Academy of Sciences 121:11, e2321196121.		"Measuring and Modeling Neighborhoods," with Jacob R. Brown and Kosuke Imai (2024). American Political Science Review 118:4, 1966-1985.		
Letter to the editor re: Jarmin et al. (2023).		"Census Officials Must Constructively Engage with Independent Evaluations," with Christopher T. Kenny, Tyler Simko, and Kosuke Imai (2024). <i>Proceedings of the National Academy of Sciences</i> 121:11, e2321196121.		
20001 00 000 00001 10. Julium 00 00. (202).		Letter to the editor re: Jarmin et al. (2023).		

suke Imai (2023). Annals of Applied Statistics 17:4, 3300-3323.

(2023). Harvard Data Science Review 5:4.

With response and rejoinder.

"Making Differential Privacy Work for Census Data Users," with Tyler Simko and Kosuke Imai

"Sequential Monte Carlo for Sampling Balanced and Compact Redistricting Plans," with Ko-

Covered by The Washington Post, Quanta magazine.

- "Widespread Partisan Gerrymandering Mostly Cancels Nationally, but Reduces Electoral Competition," with Christopher T. Kenny, Tyler Simko, Shiro Kuriwaki, and Kosuke Imai (2023). Proceedings of the National Academy of Sciences 120:25, e2217322120.
- "Researchers Need Better Access to U.S. Census Data," with Tyler Simko and Kosuke Imai (2023). Science 380:6648, 902-903.
- "Recalibration of Predicted Probabilities Using the "Logit Shift": Why Does it Work, and When Can it be Expected to Work Well?" with Evan T.R. Rosenman and Santiago Olivella (2023). *Political Analysis* 31:4, 651-661.
- "Comment: the Essential Role of Policy Evaluation for the 2020 Census Disclosure Avoidance System," with Christopher T. Kenny, Shiro Kuriwaki, Evan T.R. Rosenman, Tyler Simko, and Kosuke Imai (2023). *Harvard Data Science Review*, Special Issue 2.

Response to boyd and Sarathy (2022).

- "Simulated Redistricting Plans for the Analysis and Evaluation of Redistricting in the United States," with Christopher T. Kenny, Tyler Simko, George Garcia III, Kevin Wang, Melissa Wu, Shiro Kuriwaki, and Kosuke Imai (2022). *Nature: Scientific Data* 9:1, 689.
- "The Use of Differential Privacy for Census Data and Its Impact on Redistricting: the Case of the 2020 U.S. Census," with Christopher T. Kenny, Shiro Kuriwaki, Evan T.R. Rosenman, Tyler Simko, and Kosuke Imai (2021). *Science Advances* 7:41, eabk3283.

Originally a Public Comment to the Census Bureau (May 28, 2021).

Covered by *The Washington Post*, the *Associated Press*, the *San Francisco Chronicle*, *NC Policy Watch*, and others.

"Geodesic Interpolation on Sierpinski Gaskets," with Caitlin Davis, Laura LeGare, and Luke Rogers (2021). *Journal of Fractal Geometry* 8:2, 117-152.

WORKING PAPERS

- "Redistricting Reforms Reduce Gerrymandering by Constraining Partisan Actors," with Christopher T. Kenny, Tyler Simko, Emma Ebowe, Michael Y. Zhao, and Kosuke Imai (2024). Under Review.
- "Estimating Racial Disparities When Race is Not Observed," with Robin Fisher, Jacob Goldin, Daniel E. Ho, and Kosuke Imai (2024). *NBER working paper*, Under Review.
- "Individual and Differential Harm in Redistricting," with Christopher T. Kenny (2022). Under Review.

"Projective Averages for Summarizing Redistricting Ensembles" (2024).

"Finding Pareto Efficient Redistricting Plans with Short Bursts" (2024).

OTHER WRITING

- "Candy Cane Shortages and the Importance of Variation." International Statistical Institute: *Statisticians React to the News* (December 21, 2021).
- "Where Will the Rocket Land?" International Statistical Institute: Statisticians React to the News

(May 12, 2021).

"Who's the Most Electable Democrat? It Might be Warren or Buttigieg, Not Biden." *The Washington Post* (October 23, 2019).

"I-405 Express Toll Lanes: Usage, Benefits, and Equity," with Shirley Leung, C.J. Robinson, Kiana Roshan Zamir, Vaughn Iverson, and Mark Hallenbeck. Technical report for the Washington State Department of Transportation (2019).

SOFTWARE redist: Simulation Methods for Legislative Redistricting

birdie: Bayesian Instrumental Regression for Disparity Estimation

bases: Basis Expansions for Regression Modeling

easycensus: Quickly Find, Extract, and Marginalize U.S. Census Tables

redistmetrics: Redistricting Metrics

adjustr: Stan Model Adjustments and Sensitivity Analyses using Importance Sampling

PL94171: Tabulate P.L. 94-171 Redistricting Data Summary Files

conformalbayes: Jackknife(+) Predictive Intervals for Bayesian Models

alarmdata: Download, Merge, and Process Redistricting Data

blockpop: Estimate Census Block Populations for 2020

ggredist: Scales, Geometries, and Extensions of ggplot2 for Election Mapping

tinytiger: Lightweight Interface to TIGER/Line Shapefiles

wacolors: Colorblind-Friendly Palettes from Washington State

causaltbl: Tidy Causal Data Frames and Tools

nbhdmodel: Neighborhood Modeling and Analysis

Presentations Invited

Oxford University, Dept. of Statistics. Causal Inference Reading Group. May 2025 University of North Carolina at Chapel Hill, Dept. of Political Science. Methods and Design Workshop. February 2025 University of Wisconsin - Madison, Depts. of Political Science and Statistics. Methods, Experiments, and Design Workshop. January 2025 Harvard Law School, Charles Hamilton Houston Institute for Race and Justice. Guinier Project Research Roundtable. January 2025 Princeton University. Frontiers in Data Science Symposium: Advances in Record Linkage. October 2024 Penn State University, Dept. of Political Science. Colloquium Series. September 2024 New York University. Math and Democracy Seminar. May 2024 Massachusetts Institute of Technology, Dept. of Political Science. Political Methodology Speaker Series. September 2023 Harvard University, IQSS. Applied Statistics Workshop.

Harvard University, IQSS. Applied Statistics Workshop.

October 2022

Harvard University, IQSS. Applied Statistics Workshop.

September 2021

Harvard University, IQSS. Applied Statistics Workshop.

September 2020

Conferences

American Causal Inference Conference: 2025, 2024 (Poster)

Southern Political Science Association: 2025 Keystone State Statistics Symposium: 2024

Joint Statistical Meetings: 2024 (Invited paper panel), 2022 (Invited paper panel), 2021 (Invited paper panel)

Society for Political Methodology: 2024, 2023, 2022, 2022 (Poster), 2021 (Poster)

ACM Conference in Equity and Access in Algorithms, Mechanisms, and Optimization: 2023

American Association for Public Opinion Research: 2022 (Poster)

TEACHING Penn State University

STAT 597: Missing Data (special topic short course)

STAT 440: Computational Statistics

Fall 2024

Fall 2024

New York University

DS-UA 111: Data Science for Everyone Spring 2024

Harvard University

STAT 117: Introduction to Biostatistics (Teaching Fellow)
STAT 221: Monte Carlo Methods & Other Computational

Tools for Statistical Learning (Teaching Fellow) Fall 2020

Grinnell College

MAT 215: Linear Algebra (Peer Mentor)

MAT 310: Statistical Modeling (Peer Mentor)

Fall 2017 and Spring 2019

Fall 2018 2018 2018 - 2019

Honors and Awards

Hoben and Patricia Thomas and Thomas and Ann Hettmansperger Early Career Professorship in Statistics, 2024 (total award: \$75,000).

Best Statistical Software Award, for developing statistical software that makes a significant research contribution; awarded to the redist software package by the Society for Political Methodology, 2022.

Certificate of Distinction in Teaching, awarded on the basis of student feedback by the Derek Bok Center for Teaching and Learning, 2021.

Pamela Ferguson Endowed Prize, awarded to up to two senior students by the Grinnell College Department of Mathematics, 2018.

SERVICE

Reviewer: Proceedings of the National Academy of Sciences, Journal of the American Statistical Association, Annals of Applied Statistics, American Journal of Political Science, Quarterly Journal of Political Science, Harvard Data Science Review, Public Choice, Multiscale Model-

ing and Simulation, Discrete Applied Mathematics, Election Law Journal, Proceedings of the IASSL Triennial International Statistics Conference, Sloan Foundation.

Discussant: 2024 PolMeth Conference, 2024 Midwest Political Science Association Annual Conference

Penn State University

Seminar coordinator 2024 – 2025

New York University

Faculty fellow hiring review 2023 – 2024 MA admissions committee 2023 – 2024

Harvard University

Harvard Statistics Graduate Council

2020 - 2023

Organized Ph.D. student retreat and research "lightning talks," 2020 and 2021.

First-year Ph.D. Student Mentor Harvard Graduate Students Union – UAW Local 5118 2020 - 2023 2019 - 2021

Elected member, Bargaining Committee, 2020–2021 and 2021–2024 contracts.

Interim chair, Finance and Benefits Committee, 2020.

OTHER EXPERIENCE NAACP Legal 1

NAACP Legal Defense Fund

2024 - 2025

Expert Witness, *McClure et al. v. Jefferson County Commission* (U.S. District Court for the Northern District of Alabama, Case 2:23-cv-00443). Testified by deposition and at trial.

Expert Witness, *Callais et al. v. Landry* (U.S. District Court for the Western District of Louisiana, Case 3:24-cv-00122). Testified by deposition and at trial.

American Civil Liberties Union

2021 - 2025

Expert Witness, *Hodges v. Albritton* (U.S. District Court for the Middle District of Florida, Case 8:24-cv-879). Testified by deposition.

Expert Witness, *GRACE, Inc. et al. v. City of Miami* (U.S. District Court for the Southern District of Florida, Case 1:22-cv-24066). Testified by deposition and at trial.

Expert Witness, *Nairne et al. v. Ardoin* (U.S. District Court for the Middle District of Louisiana, Case 3:22-cv-00178). Testified by deposition and at trial.

Consultant (with Prof. Kosuke Imai), League of Women Voters of Ohio v. Ohio Redistricting Commission (Ohio Supreme Court, Case 2021–1193), League of Women Voters of Ohio v. Ohio Redistricting Commission (Ohio Supreme Court, Case 2021–1449).

Protect Democracy

2024

Consultant, electoral reform modeling

Data for Progress

2022

Consultant, Midterm election modeling

University of Washington eScience Institute
Data Science for Social Good Fellow

Union of Grinnell Student Dining Workers
Founder, President (2016–17), and Advisor to the Executive Board (2018–19)

University of Connecticut
REU Participant, Department of Mathematics

Fred Hutchinson Cancer Research Center
Lead Intern, Department of Biostatistics

Cray, Inc. (now HPE)
Intern, Chapel language testing