

Naoki Egami

CONTACT INFORMATION	734 International Affairs Building 420 West 118th Street New York, NY 10027 USA	E-mail: naoki.egami@columbia.edu URL: https://naokiegami.com
POSITION	Columbia University Assistant Professor, Department of Political Science, July 2020 – present	
EDUCATION	Ph.D. in Politics, Princeton University, 2015 – 2020 – <i>John T. Williams Dissertation Prize</i> awarded by the Society for Political Methodology B.A. in Liberal Arts, University of Tokyo, 2011 – 2015	
OTHER TRAINING	Visiting Graduate Student, Harvard University, 2018 – 2020 Visiting Undergraduate Student, University of Michigan, Ann Arbor, 2013 – 2014	
RESEARCH AREAS	Political Methodology, Causal Inference, External Validity, Networks, Machine Learning and AI for the Social Sciences	
PUBLICATIONS	Google Scholar Citation Page	

13. [“Identification and Estimation of Causal Peer Effects Using Double Negative Controls for Unmeasured Network Confounding.”](#)
[Egami, Naoki and Eric J. Tchetgen Tchetgen.](#) (2024).
Journal of the Royal Statistical Society: Series B, 86(2): 487 – 511.
 The Best Conference Paper Award from the APSA Political Networks section
12. [“Identification of Causal Diffusion Effects Using Placebo Outcomes Under Structural Stationarity.”](#)
[Egami, Naoki.](#) (2024).
Journal of the Royal Statistical Society: Series A, 187(4), 944 – 966.
 The Gosnell Prize (the best paper award) from the Society for Political Methodology
11. [“Elements of External Validity: Framework, Design, and Analysis.”](#)
[Egami, Naoki and Erin Hartman.](#) (2023).
American Political Science Review, 117(3), 1070 – 1088.
10. [“Using Imperfect Surrogates for Downstream Inference: Design-based Supervised Learning for Social Science Applications of Large Language Models.”](#)
[Egami, Naoki, Musashi Hinck, Brandon M. Stewart, and Hanying Wei.](#) (2023).
Advances in Neural Information Processing Systems (NeurIPS), 36 :68589 – 68601.
9. [“Leveraging Population Outcomes to Improve the Generalization of Experimental Results.”](#)
Huang, Melody, [Naoki Egami](#), Erin Hartman, and Luke Miratrix. (2023).
Annals of Applied Statistics, Vol. 17, No. 3, 2139 – 2164.

8. ["Using Multiple Pre-treatment Periods to Improve Difference-in-Differences and Staggered Adoption Designs."](#)
Egami, Naoki and Soichiro Yamauchi. (2023).
Political Analysis, 31(2), 195 – 212.

7. ["How to Make Causal Inferences Using Texts."](#)
Egami, Naoki, Christian Fong, Justin Grimmer, Margaret Roberts, and Brandon Stewart. (2022).
Science Advances, Vol 8, Issue 42, eabg2652.

6. ["Improving the External Validity of Conjoint Analysis: The Essential Role of Profile Distribution."](#)
 de la Cuesta, Brandon, Naoki Egami, and Kosuke Imai. (2022).
Political Analysis, Vol.30, No.1 (January), pp. 19 – 45.

5. ["Hate Crimes and Gender Imbalances."](#)
 Dancygier, Rafaela, Naoki Egami, Amaney Jamal, and Ramona Rischke. (2022).
American Journal of Political Science, Vol.66, No.2 (April), pp. 501 – 515.

4. ["Spillover Effects in the Presence of Unobserved Networks."](#)
Egami, Naoki. (2021).
Political Analysis, Volume 29 , Issue 3 (July), pp. 287 – 316.
 John T. Williams Dissertation Prize from the Society for Political Methodology

3. ["Covariate Selection for Generalizing Experimental Results."](#)
Egami, Naoki and Erin Hartman. (2021).
Journal of the Royal Statistical Society: Series A, Vol.184, Issue 4, pp. 1524 – 1548.

2. ["Competing for Loyalists?: How Party Positioning Affects Populist Radical Right Voting."](#)
 Chou, Winston, Rafaela Dancygier, Naoki Egami, and Amaney Jamal. (2021).
Comparative Political Studies, Vol.54 (12), 2226 – 2260.

1. ["Causal Interaction in Factorial Experiments: Application to Conjoint Analysis."](#)
Egami, Naoki and Kosuke Imai. (2019).
Journal of the American Statistical Association, Vol.114, No.526 (June), pp. 529 – 540.

6. ["Designing Multi-Site Studies for External Validity: Site Selection via Synthetic Purposive Sampling."](#)
Egami, Naoki and Diana Da In Lee.
 Revise and Resubmit at *American Journal of Political Science*.
 The 2024 Best Paper Award from the APSA Experimental Research section
 The Best Poster Award at the 2024 Visions in Methodology Conference (to Diana Lee)

5. ["Using Large Language Model Annotations for the Social Sciences: A General Framework of Using Predicted Variables in Downstream Analyses."](#)
Egami, Naoki, Musashi Hinck, Brandon M. Stewart, and Hanying Wei.

4. “Placebo-Augmented PICA Design (PICA-2): Assessing the Influence of Foreign Propaganda.”
Egami, Naoki, Donald Green, Eunji Kim, and Daniel Mattingly. (2025).
Conditionally Accepted at *Journal of Politics*.
3. “Correcting the Measurement Errors of AI-assisted Labeling in Image Analysis using Design-based Supervised Learning.”
Maranca, Alessandra Rister Portinari, Jihoon Chung, Musashi Hinck, Adam Wolsky,
Naoki Egami, and Brandon M. Stewart. (2025).
Conditionally Accepted at *Sociological Methods and Research*.
2. “Beyond Reweighting: On the Predictive Role of Covariate Shift in Effect Generalization.”
Jin, Ying, Naoki Egami, Dominik Rothenhäusler.
1. “Quantifying Robustness to External Validity Bias.”
Devaux, Martin and Naoki Egami.

HONORS AND
AWARDS

8. *Best Paper Award in Experimental Research* for “Designing Multi-Site Studies for External Validity: Site Selection via Synthetic Purposive Sampling,” the Experimental Research section of APSA, 2024.
7. *Best Conference Paper Award in Political Networks* for “Identification and Estimation of Causal Peer Effects Using Double Negative Controls for Unmeasured Network Confounding,” the Political Networks section of APSA, 2022.
6. *The Gosnell Prize for Excellence in Political Methodology*, “for the best work in political methodology presented at any political science conference during the preceding year,” for “Identification of Causal Diffusion Effects Under Structural Stationarity,” the Society for Political Methodology, 2019.
5. *George Kateb Preceptor Award*, “for one of the best preceptors (teaching assistants) in the Department of Politics”, Princeton University, 2018.
4. Winner of *John T. Williams Dissertation Prize*, “for the best dissertation proposal in the area of political methodology”, the Society for Political Methodology, 2017.
3. Program for Quantitative and Analytical Political Science (Q-APS) Fellowship, Princeton University, 2015 – 2018.
2. *Kenneth W. Gemmill Prize Fellowship in Politics* (“an honorary fellowship in the Department of Politics”), Princeton University, 2015.
1. Graduate Student Fellowship, Princeton University, 2015 — 2020.

STATISTICAL
SOFTWARE

6. Egami, Naoki, Musashi Hinck, Brandon M. Stewart, and Hanying Wei. “dsl: R Package for Design-based Supervised Learning.” Available at <https://naokiegami.com/dsl>. 2024 – present.
5. Egami, Naoki and Diana Lee. “spsR: R Package for Synthetic Purposive Sampling.” Available at <https://naokiegami.com/spsR>. 2023 – present.
4. Egami, Naoki and Martin Devaux. “exr: R Package for Quantifying Robustness to External Validity Bias.” Available at <https://github.com/naoki-egami/exr>. 2022 – present.
3. Yamauchi, Soichiro, and Naoki Egami. “DIDdesign: R Package for Analyzing Difference-in-Differences Design.” Available at <https://github.com/naoki-egami/DIDdesign>. 2020 – present.
2. Egami, Naoki, Brandon de la Cuesta, and Kosuke Imai. “factorEx: Design and Analysis for Factorial Experiments.” Available at <https://github.com/naoki-egami/factorEx>. 2019 – present.
1. Egami, Naoki, Marc Ratkovic, and Kosuke Imai. “FindIt: R Package for Finding Heterogeneous Treatment Effects.” The Comprehensive R Archive Network. 2012 – present.

RESEARCH
GRANTS

7. National Science Foundation. (2023–2025). “Approaches toward External Validity of Randomized Controlled Trials in the Social Sciences.” (Science of Science, SES-2318659). Solo Principal Investigator, \$231,858.
6. Interdisciplinary Seed Grant. (2024-2025). The Office of the Executive Vice President for Research at Columbia. “Assessing External Validity of Randomized Experiments: Using ML-driven Sensitivity Analysis” (with Hongseok Namkoong), \$60,000.
5. Interdisciplinary Seed Grant. (2023-2024). The Office of the Executive Vice President for Research at Columbia. “Invariant Text Generation for Reducing Partisan Bias in News Content” (with Eunji Kim, Amir Feder, and David Blei), \$80,000.
4. ISERP Seed grants. (2023-2024). ISERP at Columbia. “Rethinking Exposure in the Age of Information Abundance: Survey and Field Experiments about Climate Change Messaging” (with Eunji Kim), \$40,000.
3. CELSS Grant. (2022-2023). The Columbia Experimental Laboratory for Social Sciences. “External Validity,” \$4,000.
2. DRIP Fund. (2022-2023). Department of Political Science, Columbia University. “External Validity,” \$5,698.
1. ISERP Seed grants. (2021-2023). ISERP at Columbia. “Measuring Support for Diversity in the United States and Japan” (with Shiro Kuriwaki), \$29,500.

INVITED TALKS

2025:

38. Columbia Marketing Seminar, **Columbia Business School**, February, 2025.

2024:

37. Speaker Series “AI-Assisted Data Analysis for the Study of Politics and Governance”, Department of Political Science, **The Ohio State University**, October, 2024.
36. An Invited Speaker at the 6th Workshop on Natural Language Processing and Computational Social Science. June, 2024.
35. An Invited Session on “Statistical innovations in causal inference with text as data”, **American Causal Inference Conference**. May, 2024.

2023:

34. Special Seminar, The Center for Positive/Empirical Analysis of Political Economy, **Waseda University**, Japan. December, 2023.
33. Special Seminar, Institute of Social Science, **University of Tokyo**, Japan. December, 2023.
32. Political Methodology Workshop, Department of Political Science, **MIT**. May, 2023.
31. Applied Statistics Workshop, Department of Government and the Institute for Quantitative Social Science, **Harvard University**. April, 2023.
30. Institute of Social Science, **The University of Tokyo**. March, 2023.
29. Political Methodology Colloquium, **Department of Political Science, Columbia University**. February, 2023.
28. Formal and Quantitative Seminar, Department of Political Science, **University of North Carolina at Chapel Hill**. February, 2023.

2022:

27. An Invited Session on “Causal Inference in Network Settings”, **CMStatistics**. December, 2022.
26. Quantitative Methods Seminar, **Quantitative Methods in the Social Sciences Program, Columbia University**. October, 2022.
25. An Invited Session on “Robustness and Causality”, **the INFORMS Annual Meeting**. October, 2022.

24. Political Science Guest Speaker Workshop, Department of Political Science, **Stanford University**. April.
 23. Econometrics Workshop, **Department of Economics, Columbia University**. March.
 22. Quantitative Research Methods Workshop, Department of Political Science, **Yale University**. February.
 21. **The International Methods Colloquium**. February.
- 2021:**
20. Quantitative Methods Seminar, Wilf Family Department of Politics, **New York University**. October.
 19. Political Methodology Colloquium, **Department of Political Science, Columbia University**. October.
 18. Center for Causal Inference, **University of Pennsylvania**. September.
 17. Invited Lecture at **the Institute for Political Methodology, Academia Sinica**, Taiwan. July (postponed).
 16. Department of Statistics, **University of California, Berkeley**. Causal Inference Research Group. April.
 15. **Department of Biostatistics, Columbia University**, Mailman School of Public Health. March.
- 2020:**
14. Research Workshop in American Politics in Department of Political Science, **University of California, Berkeley**.
 13. Guest Lecture at **Department of Political Science, Stanford University**, October 15.
 12. **Summer Institutes in Computational Social Science**, Tokyo, July (postponed).
 11. **Joint Statistical Meetings**, Panel on "Novel identification frameworks for causal inference with interference."
 10. **The 2020 ICSA China Conference**. Panel on Factorial Experiments (cancelled).
 9. **Department of Biostatistics, Columbia University**, Mailman School of Public Health (postponed).
- ~ **2019:**
8. **CFE-CMStatistics 2019**. Panel on Factorial Experiments, 2019.
 7. Causal Inference and Data Science Seminar, **Waseda University**, Japan, 2019.
 6. Department of Political Science, **Columbia University**, 2018.
 5. Department of Political Science, **University of Chicago**, 2018.
 4. Department of Political Science, **The University of North Carolina at Chapel Hill**, 2018.
 3. Department of Political Science, **University of Wisconsin, Madison**, 2018.
 2. Political Methodology Seminar, **New York University**, 2017.
 1. Causal Inference Group, **Yale University**, 2017.

2024:

33. “Using Large Language Model Annotations for the Social Sciences: A General Framework of Using Predicted Variables in Downstream Analyses,” Paper presentation at the 2024 Summer Meeting of the Political Methodology Society.
32. “Using Large Language Model Annotations for the Social Sciences: A General Framework of Using Predicted Variables in Downstream Analyses,” Paper presentation at the 2024 Summer Meeting of the Japanese Society for Quantitative Political Science.

2023:

31. “Designing Multi-Site Studies for External Validity: Site Selection via Synthetic Purposive Sampling,” Paper presentation at the 2023 APSA Annual Meeting.
30. “Designing Multi-Site Studies for External Validity: Site Selection via Synthetic Purposive Sampling,” Paper presentation at the 2023 Summer Meeting of the Political Methodology Society.
29. “Using Large Language Models Safely via Design-based Semi-Supervised Learning,” Paper presentation at the 2023 Summer Meeting of the Political Methodology Society.

2022:

28. “Quantifying Robustness to External Validity Bias,” Paper presentation at the 2022 American Political Science Association Annual Conference.
27. “Quantifying Robustness to External Validity Bias,” Paper presentation at the EGAP workshop on External Validity and Knowledge Accumulation, September 14, 2022.
26. “Quantifying Robustness to External Validity Bias,” Paper presentation at the 2022 Summer Meeting of the Political Methodology Society.
25. “Identification and Estimation of Causal Peer Effects Using Double Negative Controls for Unmeasured Network Confounding,” Paper presentation at the 2022 Atlantic Causal Inference Conference, UC Berkeley, May 23–25, 2022.

2021:

24. “Identification and Estimation of Causal Peer Effects Using Double Negative Controls for Unmeasured Network Confounding,” Paper presentation at the 2021 American Political Science Association Annual Conference, September 28, 2021.
23. “Identification and Estimation of Causal Peer Effects Using Double Negative Controls for Unmeasured Network Confounding,” Paper presentation at the 2021 Summer Meeting of the Political Methodology Society, New York University, July 13–15, 2021.

2020:

22. “Causal Inference for Policy Diffusion”, Paper presentation at the 2020 American Political Science Association Annual Conference, September 13, 2020.
21. “Elements of External Validity: Framework, Design, and Analysis”, Paper presentation at the 2020 American Political Science Association Annual Conference, September 12, 2020.
20. “Causal Inference for Policy Diffusion”, Paper presentation at the 2020 Summer Meeting of the Political Methodology Society, University of Toronto, July 14–17, 2020.
19. “Elements of External Validity: Framework, Design, and Analysis”, Paper presentation at the 2020 Summer Meeting of the Political Methodology Society, University of Toronto, July 14–17, 2020.

2019:

18. “Experimental Design and Statistical Inference for Conjoint Analysis: The Essential Role of Population Distribution”, Paper presentation at the 2019 Summer Meeting of the Political Methodology Society, MIT, July 18–20, 2019.
17. “Covariate Selection for Generalizing Experimental Results”, Poster presentation at the 2019 Summer Meeting of the Political Methodology Society, MIT, July 18–20, 2019.

16. “Double Differences-in-Difference: Relaxing Parallel Trends Assumption with Multiple Pre-treatment Periods”, Poster presentation at the 2019 Summer Meeting of the Political Methodology Society, MIT, July 18–20, 2019.
15. “Identification of Causal Diffusion Effects Using Stationary Causal Directed Acyclic Graphs”, Poster presentation at the 2019 Atlantic Causal Inference Conference, McGill University, May 22–24, 2019.
14. “Causal Diffusion Analysis: How Hate Crimes Diffuse Across Space”, Paper presentation at the 2019 Meeting of the Asian Political Methodology Society, Doshisha University, January 6–7, 2019.

2018:

13. “Causal Diffusion Analysis: How Hate Crimes Diffuse Across Space”, Paper presentation and Organizer of the panel at the 2018 American Political Science Association Annual Conference, Boston, August 30–September 2, 2018.
12. “Identification of Causal Diffusion Effects Using Stationary Causal Directed Acyclic Graphs”, Poster presentation at the 2018 Summer Meeting of the Political Methodology Society, Brigham Young University, July 18–21, 2018.
11. “Unbiased Estimation and Sensitivity Analysis for Network-Specific Spillover Effects: Application to An Online Network Experiment”, Paper presentation at the 2018 Atlantic Causal Inference Conference, Carnegie Mellon University, May 22, 2018.
10. “The Illusion of Far-Right Partisan Stability in Germany”, Paper presentation at the Center for Study of Democratic Politics Seminar, Princeton University, April 12, 2018.
9. “Covariate Selection for Generalizing Experimental Results”, Paper presentation at the 2018 Midwest Political Science Association Annual Conference, Chicago, April 8, 2018.
8. “Unbiased Estimation and Sensitivity Analysis for Network-Specific Spillover Effects: Application to An Online Network Experiment”, Paper presentation at the 2018 Midwest Political Science Association Annual Conference, Chicago, April 7, 2018.

2017:

7. “Causal Interaction in Factorial Experiments: Application to Conjoint Analysis”, Paper presentation at the 2017 American Political Science Association Annual Conference, San Francisco, August 31 — September 3, 2017.
6. “A Placebo Test for Causal Diffusion Analysis”, Poster presentation at the 2017 Summer Meeting of the Political Methodology Society, University of Wisconsin-Madison, July 13–15, 2017.
5. “Causal Interaction in Factorial Experiments: Application to Conjoint Analysis”, NYU CESS 10th Annual Experimental Political Science Conference, February 24, 2017.

2016:

4. “Causal Inference with Multilevel Interference”, Poster presentation at the 2016 Summer Meeting of the Political Methodology Society, University of Rochester, July 22, 2016.
3. “An Experimental Evaluation of Multi-Armed Bandit Algorithms”, Paper presentation at the 2016 Midwest Political Science Association Annual Conference, Chicago, April 7, 2016.

2015:

2. “Causal Interaction in High-Dimension”, Paper presentation at the 2015 Summer Meeting of the Political Methodology Society, University of Rochester, July 23, 2015.

2014:

1. “Positive Empirical Models of Election Fraud (that May Also Measure Voters’ Strategic Behavior)”, Paper presentation at the 2014 Summer Meeting of the Political Methodology Society, University of Georgia, July 26, 2014.

TEACHING

Columbia University:

- POLS4722: Statistical Theory and Causal Inference. Spring 2025.
- POLS4722: Statistical Theory and Causal Inference. Spring 2023.
- POLS4700: Mathematics and Statistics for Political Science. Fall 2022.
- POLS4726: Topics in Political Methodology. Spring 2022.
- POLS4700: Mathematics and Statistics for Political Science. Fall 2021.
- POLS4722: Statistical Theory and Causal Inference. Spring 2021.
- POLS4700: Mathematics and Statistics for Political Science. Fall 2020.

Princeton University:

- Quantitative Analysis II (Graduate), Spring 2018, Teaching Assistant.
– Winner of the *George Kateb Preceptor Award*.
- Statistical R camp (Graduate), Winter 2018, Instructor.
- Introduction to Quantitative Social Sciences (Undergraduate), Fall 2017, Teaching Assistant.

University of Tokyo:

- Quantitative Analysis II (Graduate), Summer 2016, Teaching Assistant.

ADVISING

13. Diana Lee (Dissertation Committee Member, defended in 2024; Dissertation Proposal committee, 2022; Adviser for Methods Minor, 2021)
12. Jeff Jacobs (Dissertation Committee Member, defended in 2022)
11. Thomas Leavitt (Dissertation Committee Member, defended in 2021)
10. Martin Devaux (Dissertation Proposal committee, 2024; Adviser for Methods Minor, 2022)
9. Carolina Bernal (Dissertation Proposal committee, 2023; Adviser for Methods Minor, 2021)
8. Sam Frederick (Dissertation Proposal committee, 2022; Adviser for Methods Minor, 2021)
7. Michael Auslen (Dissertation Proposal committee, 2022)
6. Hayley Cohen (Dissertation Proposal committee, 2022)
5. David Simpson (Dissertation Proposal committee, 2021)
4. Julian Enrique Gerez (Adviser for Methods Minor, 2020)
3. Hane Lee (Columbia Statistics, Dissertation Prospectus Oral Exam committee, 2024)
2. Yun Choi (Columbia QMSS, Master Thesis Advisor, 2022)
1. Junlong Aaron Zhou (NYU, External PhD dissertation reader, 2022)

Note: Unless otherwise noted, all students are from the Political Science department at Columbia.

UNIVERSITY
COMMITTEES

- Member, Faculty Search Committee (Computational Social Science) at Columbia SIPA, 2022.
- Member, Causal Inference Faculty Search Committee at the Arts and Sciences, 2024.

DEPARTMENT

- Faculty Adviser for the Political Science-Statistics major, 2021 – present.
- Founding Faculty Organizer for Columbia Political Methodology Colloquium (a department-level seminar on political methodology), with Andy Gelman and Don Green, 2020 – present.
- Committee Member for the Early Career Fellowships, 2021.

EDITORIAL AND
REFEREE
SERVICE

- Editorial Board member for
American Journal of Political Science (2023–2025)
Political Analysis (2025–2026)
- Referee for
American Political Science Review, *American Journal of Political Science*, *International Organization*,
Journal of Politics, *Political Analysis*, *Journal of Experimental Political Science*, *Sociological Methods
and Research*
Biometrika, *Journal of the American Statistical Association*, *Journal of the Royal Statistical Society:
Series A (Statistics in Society)*, *Journal of the Royal Statistical Society: Series B (Statistical Methodol-
ogy)*, *Journal of Causal Inference*, *Canadian Journal of Statistics*, *Statistics in Medicine*, *Biometrics*,
Research Synthesis
Proceedings of the National Academy of Sciences, *PLOS One*
Book: *Cambridge Elements*
NSF grant review: *Methodology, Measurement, and Statistics Program* in Division of Social and Eco-
nomic Sciences; *Science of Science Program* in Division of Social and Economic Sciences
Computer Science Peer-reviewed Conferences: International Conference on Machine Learning (ICML),
Neural Information Processing Systems (Neurips), Neurips Workshop on Causal Inference Challenges
in Sequential Decision Making, ACL Workshop on Causal Inference and NLP

PROFESSIONAL
SERVICE

- [Online Causal Inference Seminar \(URL\)](#)
- Organizer: 2023–present
The Society for Political Methodology
 - Chair for the 2024 Committee of the Gosnell Prize awarded for the best work in political methodology presented at any political science conference during the preceding
 - Program committee member for the 2023 Political Methodology Meeting
 - Poster Award committee member for the 2023 Political Methodology Meeting
 - Chair for the 2022 Committee of the Gosnell Prize awarded for the best work in political methodology presented at any political science conference during the preceding
 - The 2021 Committee of the Gosnell Prize awarded for the best work in political methodology presented at any political science conference during the preceding year
 - The 2020 Committee of the Gosnell Prize awarded for the best work in political methodology presented at any political science conference during the preceding year
 - Paper Discussant at the Meetings of the Political Methodology Society; 2019 – 2023
- Other Selected Services
 - Chair for the 2024 Committee of the Best Conference Paper Award in Political Networks for the best paper on political networks authored by a faculty person and delivered at a political science conference in the previous year.
 - The 2025 Committee of the Best Paper Award for the Experimental Research Section at APSA.
 - Discussant for the Miller Prize at the 2019 American Political Science Association Annual Conference, Washington, DC, August 29, 2019.

Last Updated in March 2025