

Naoki Egami

CONTACT INFORMATION

Massachusetts Institute of Technology
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POSITIONS

Massachusetts Institute of Technology

Associate Professor (with tenure), Department of Political Science, 2025 – present
Faculty Affiliate, Statistics and Data Science Center, Institute for Data, Systems, and Society (IDSS)

Columbia University

Assistant Professor, Department of Political Science, 2020 – 2025

EDUCATION

Ph.D. in Politics, Princeton University, 2020
– *John T. Williams Dissertation Prize* awarded by the Society for Political Methodology
B.A. in Liberal Arts, University of Tokyo, 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, Large Language Models

PUBLICATIONS

[Google Scholar Citation Page](#)

18. [“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.
Conditionally Accepted at *American Journal of Political Science*.
☐ The 2025 Gosnell Prize (the best paper award) from the Society for Political Methodology
17. [“Designing Multi-Site Studies for External Validity: Site Selection via Synthetic Purposive Sampling.”](#)
[Egami, Naoki](#) and Diana Da In Lee. (2025).
Forthcoming 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)
16. [“Beyond Reweighting: On the Predictive Role of Covariate Shift in Effect Generalization.”](#)
Jin, Ying, [Naoki Egami](#), Dominik Rothenhäusler. (2025).
Proceedings of the National Academy of Sciences, 122 (45) e2427181122.
15. [“Placebo-Augmented PICA Design \(PICA-2\): Assessing the Influence of Foreign Propaganda.”](#)
[Egami, Naoki](#), Donald Green, Eunji Kim, and Daniel Mattingly. (Forthcoming).
Journal of Politics.
14. [“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).
Sociological Methods and Research, Vol. 54(3), 984 – 1016.

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.

SELECTED
WORKING
PAPERS

2. “Conformal Policy Learning: Interventions with Distribution-Free Safety Guarantees.”
 Jin, Ying and Naoki Egami.
1. [“Quantifying Robustness to External Validity Bias.”](#)
 Devaux, Martin and Naoki Egami.

HONORS AND
AWARDS

10. [Emerging Scholar Award](#), which “honors a young researcher, within ten years of their degree, who is making notable contributions to the field of political methodology,” the Society for Political Methodology, 2025.
9. *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 [“Using Large Language Model Annotations for the Social Sciences: A General Framework of Using Predicted Variables in Downstream Analyses,”](#) the Society for Political Methodology, 2025.
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

2026:

51. **Joint Statistical Meeting**, August, 2026 (scheduled)
50. **The Institute for Mathematical and Statistical Innovation workshop**, June, 2026 (scheduled)
49. **University of Tokyo**, June, 2026 (scheduled)
48. **Online Causal Inference Seminar**, May, 2026 (scheduled)
47. External Validity Workshop, **Department of Political Science, Yale University**, May, 2026 (scheduled)
46. **Department of Government, Harvard University**, April, 2026
45. **Department of Economics, Yale University**, April, 2026
44. **Department of Political Science, Yale University**, April, 2026
43. **Rutgers University**, April, 2026.
42. **National University of Singapore**, January, 2026.

2025:

41. **The Fletcher School at Tufts University**, October, 2025.

40. Causal Inference Seminar, **Waseda University**, August, 2025.
 39. **Columbia Data Science Institute**, April, 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.

TEACHING

MIT:

- 17.803: Political Science Laboratory (Undergraduate Required Course). Spring 2027 (scheduled).
- 17.802: Quantitative Research Methods II. Spring 2027 (scheduled).
- 17.800: Quantitative Research Methods I. Fall 2026 (scheduled).
- 17.802: Quantitative Research Methods II. Spring 2026.
- 17.S953: Recent Developments in Political Methodology. Fall 2025.

Columbia University:

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

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

MIT:

- Joohye Jeong (Dissertation Committee Co-Chair)
- Shuning Ge (Dissertation Committee Co-Chair)
- Terrence Roh (Dissertation Committee Member)
- Jasper Jansen (Dissertation Committee Member)

Columbia University:

- Ariel Boyarsky (Decision, Risk, and Operations division of Columbia Business School; Dissertation Committee Member; expected in 2026)
- Martin Devaux (Dissertation Committee Member; expected in 2026): Incoming Assistant Professor, Department of Political Science, Yale University.
- Hane Lee (Columbia Statistics, Dissertation Committee Member, 2025): Postdoc, University of Chicago.
- Diana Lee (Dissertation Committee Member, 2024): Assistant Professor, Department of Political Science, Vanderbilt University
- Jeff Jacobs (Dissertation Committee Member, 2022): Assistant Teaching Professor, Georgetown University.
- Thomas Leavitt (Dissertation Committee Member, 2021): Assistant Professor, the Marxe School of Public and International Affairs, City University of New York

SERVICE

MIT (2025–present)

Department

- Methods Field Coordinator. 2025–present.
- Graduate Program Committee. 2025–present.

IDSS

- Chair of Interdisciplinary PhD in Political Science and Statistics. 2025–present.

SHASS

- Burchard Faculty Fellow. 2025–2026.

Columbia University (2020–2025)

- Member, Faculty Search Committee (Computational Social Science) at Columbia SIPA, 2022.
- Member, Causal Inference Faculty Search Committee at the Arts and Sciences, 2024.
- Faculty Adviser for the Political Science-Statistics major, 2021 – 2025.
- Founding Faculty Organizer for Columbia Political Methodology Colloquium (a department-level seminar on political methodology), with Andy Gelman and Don Green, 2020 – 2025.
- Committee Member for the Early Career Fellowships, 2021.

EDITORIAL AND
REFEREE
SERVICE

- Associate Editor for *Journal of Causal Inference*
- Editorial Board member for
American Journal of Political Science (2023–present)
Political Analysis (2025–2026)
- NSF Proposal Review Panel for the Social, Behavioral and Economic Sciences (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*, *Cambridge University Press*
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 2026 Committee of the John T. Williams Dissertation Prize awarded for the best disser-
tation proposal in political methodology
- Program committee member for the 2026 Political Methodology Meeting
- 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 year
- 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
- 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 member 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 May 2026