

Eddie Yang

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Academic Positions

Purdue University

Assistant Professor, Department of Political Science, 2024-

Northwestern University

Postdoctoral Fellow, Kellogg Center for Science of Science and Innovation, 2024-2025

Education

Ph.D. Political Science, University of California San Diego, 2024

• Graduate fellow: Stanford, 2022-2023; Georgetown, 2023-2024

M.A. University of Chicago, 2017

B.A. University of California Los Angeles, 2016

Publications

1. Discovering Influential Text Using Convolutional Neural Networks (with Megan Ayers, Luke Sanford, Margaret E. Roberts). *Findings of the Association for Computational Linguistics: ACL*, 2024.
2. The Impact of U.S.-China Tensions on U.S. Science (with Ruixue Jia, Margaret E. Roberts, Ye Wang). *Proceedings of the National Academy of Sciences*, 2024.
3. The Authoritarian Data Problem: How the Politics of Data Shapes AI (with Margaret E. Roberts). *Journal of Democracy*, 2023 (Invited Contribution).
4. Hierarchically Regularized Entropy Balancing (with Yiqing Xu). *Political Analysis*, 2023.
5. Censorship of Online Encyclopedias and its Political Effect on NLP Models (with Margaret E. Roberts). *ACM Conference on Fairness, Accountability, and Transparency (FAccT)*, 2021. (Best Student Paper Award)

Working Paper

1. The Limits of AI for Authoritarian Control
2. Automated Repression: Ethnic Discrimination in AI-assisted Criminal Sentencing
3. AI and Propaganda (with Hannah Waight, Yin Yuan, Solomon Messing, Margaret E. Roberts, Brandon M. Stewart, Joshua A. Tucker)
4. Filtering Technologies and the Fairness of Natural Language Systems (with Hanna Wallach and others)
5. The Bubba-Gump Effect: Inter-Group Contact and Racial Integration Among U.S. Veterans (with Salma Mousa)

Statistical Software

1. *powerLATE* (with Kirk Bansak): an R package for implementing generalized power analysis for the local average treatment effect (LATE). *CRAN*
2. *hbal* (with Yiqing Xu): an R package for implementing hierarchically regularized entropy balancing. *CRAN*
3. *ebal-py*: Python implementation of entropy balancing for binary and continuous treatment. *GitHub*

Honors & Awards

Research Grant, Institute for Humane Studies, 2024
GPEP Predoctoral Fellowship, Georgetown University, 2023-2024
IGCC Dissertation Fellowship, UCSD, 2023-2024
HAI/CDDRL Predoctoral Fellowship, Stanford University, 2022-2023
Yankelovich Center Graduate Research Award, UCSD, 2022, 2023
Data Analytics PhD Fellowship, UCSD, 2021
Marsha Chandler Fellowship, UCSD, 2020
Sanford Lakoff Fellowship, UCSD, 2020
Social Sciences Scholarship, University of Chicago, 2017

Service

Manuscript Referee: NeurIPS, PNAS Nexus, Political Analysis
Mentor, Undergraduate Research Apprenticeship Program, UCSD, 2021
Treasurer, Political Science Graduate Student Council, UCSD, 2021

Conferences & Talks

2024: Digital Democracy Workshop, University of Zurich; Decrypting Digital Authoritarianism, EUI; Political and Economic Implications of AI, Caltech; Comparative Studies of Digital Repression, Hertie School; Global Science in the Era of US-China Tensions, UCSD; Authoritarianism and AI, George Mason University; Center for Data Science, Renmin University; AI and Data-driven Algorithms in Government, Yale University; Aether working group, Microsoft Research

2023: The Digital Reach of the Chinese State, Freie Universität Berlin; New Faces in Chinese Politics Conference, University of Pennsylvania; Aether working group, Microsoft Research; China Research Workshop, UCSD; CDDRL Research Seminar, Stanford University; SCCEI Seminar, Stanford University

Industry

Research Intern, Microsoft Research, United States, Summer 2022, Summer 2023
Data Science Intern, China, Summer 2021