

NAIJIA LIU

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EDUCATION AND EMPLOYMENT

Harvard University

Assistant Professor,
Department of Government

July 2022 -

Meta

Research Scientist

Aug 2021 - June 2022

Princeton University

PhD Politics Department

Aug 2016 - Spring 2021

RESEARCH

Missing Data

- Latent factor approach to missing not at random. ([Draft link here](#))
- Observational causal inference with missing confounders not at random (Melody Huang). ([Draft link here](#)).
- Synthetic control methods with missing pre-treatment outcomes (Sooahn Shin and Soichiro Yamauchi). ([Draft link here](#)).
- Bias correction using partial ranking data (Yuki Atsusaka).
- Overlap violation in missing at random (Hanning Luo).

Text Analysis

- Optimal subset for text analysis (Antonio Camara, Natalie Ayers, Saki Kuzushima). ([Draft link here](#)).
- Analysis on immigration policy in Uganda by hansards and newspaper data (YangYang Zhou and Guy Grossman). ([Draft link here](#)).
- Word Association Test using Chinese data (Ze Han and Rory Truex) ([Link to paper](#)). POQ, 2025.

AI and Algorithms

- Measuring ideological variations in large language models (Ze Han). ([Draft link here](#)).
- Political power dictates talent selections: A case using Chinese civil servant exam (Yuyang Shi).
- Auditing Bilibili algorithms: How political contents being moderated and disseminated (Linan Yao).
- Algorithmic recommendations have limited effects on polarization: A naturalistic experiment on YouTube [Link to paper](#). PNAS, 2025.

(First author, with Matthew A. Baum , Adam J. Berinsky , Allison J.B. Chaney Justin de Benedictis-Kessner , Andy Guess , Dean Knox , Christopher Lucas , Rachel Mariman , and Brandon M. Stewart

CONFERENCE AND INVITED TALKS

Society for Political Methodology Annual Summer Meeting (2018–2025)

- Paper Presentations (2021, 2023, 2024, 2025); Poster Presentations (2018, 2019, 2020, 2024, 2025)

UC San Diego method workshop, guest speaker (Jan. 2026).

Purdue University political methodology seminar, guest speaker (Nov. 2025).

New York University Shanghai, computational social science, guest lecture (Oct. 2025).

MIT political science method lab (March 2025).

Meta, Demographic and Survey Science team, invited panlist (December 2024).

UC Berkeley political science and stats method workshop, invited speaker (November, 2024)

Shanghai Jiaotong University policy and method summer school program, guest lecturer (August, 2024)

Columbia University, Quantitative Methods in Social Sciences, invited guest lecturers. (March 2024, March 2023, March 2022).

Netflix, invited presentation (May 2023)

Peking University Risk Analysis Lab, invited presentation (November 2022)

Political Method Group, (UCLA), invited presentation (March 2022)

Model and data workshop (Univ. of Madison, Wisc.), invited presentation (Feburary 2022)

Asian polMeth 2021, presentation; 2019, Poster

APSA 2020, 2021, 2023, presentation

International Methods Colloquium (MPSA special panel) 2020, presentation

CPEWG workshop (NYU) 2019, presentation

Vision in Methodology 2019, 2024, Presentation

Text as Data 2018, Poster

NYU CESS Experimental Political Science Conference 2018, Poster

Reviewer: Political Analysis, Political Behavior, Political Science Research and Methods, Royal Society Open Science, Sociological Methods and Research

Committee: Polmeth Summer Conference Program committee (2025), Polmeth Society dissertation committee (2025, 2026), Polmeth summer Conference poster award committee (2024, 2023)

TEACHING

Instructor, Gov 51 Data Analysis and Politics, Spring 2023, 2024, 2025, Harvard

Instructor, Gov 2018 Introduction to Machine Learning, Spring 2024, Harvard

Instructor, Gov 2001 Probability Theory and Linear Models, Spring 2025, Harvard

Faculty Coordinator, Gov 3009 Applied Stats Workshop, Spring 2023, 2024, 2025, Harvard

ADVISING

Current PhD student: Hanning Luo, Natalie Ayers, Zheng Ma, Zhiyu Li, Kentaro Nakamura, Tianyu Qiao, Yuyang Shi.

Graduated PhD: Sooahn Shin (Airbnb, UNC Chapel Hill).

Current undergrad advisee: Jack Kelly.