

Licheng Liu

University of Michigan
Department of Political Science
Haven Hall 6735
Ann Arbor, MI 48109

Email: lichengl@umich.edu
Homepage: <https://liulch.github.io>
GitHub: <https://github.com/liulch>

Positions

University of Michigan
Assistant Professor of Political Science, 2025–.

Stanford University
Postdoctoral Fellow, Department of Political Science, 2024–2025.

Education

Ph.D. Political Science and Statistics, Massachusetts Institute of Technology, 2024.

Master of Finance, Tsinghua University, 2019.

L.L.B. Law (Dual Degree), University of International Business and Economics, 2016.

B.A. Finance, University of International Business and Economics, 2016.

Research Interests

Methodological: Causal Inference, Bayesian Statistics, Network Analysis

Substantive: International and Comparative Political Economy, Comparative Political Behavior

Publications

1. “Bayesian Sensitivity Analysis for Unmeasured Confounding in Causal Panel Data Models” (with Teppei Yamamoto), forthcoming at *Political Analysis*.
2. “A Practical Guide to Counterfactual Estimators for Causal Inference with Time-Series Cross-Sectional Data” (with Ye Wang and Yiqing Xu), *American Journal of Political Science* (2024), 68, 160–176.
3. “Panel Data Visualization in R (`panelView`) and Stata (`panelview`)” (with Hongyu Mou and Yiqing Xu), *Journal of Statistical Software* (2023), 107, 1–20.
4. “A Bayesian Multifactor Spatio-Temporal Model for Estimating Time-Varying Network Interdependence” (with Xun Pang), *Political Science Research and Methods* (2023), 11, 823–837.
5. “A Bayesian Alternative to the Synthetic Control Method” (with Xun Pang and Yiqing Xu), *Political Analysis* (2022), 30, 269–288.

Working Papers

1. Identification and Estimation of Treatment Effects from Network Data with Confounded Social Links (job market paper).
2. BIT by BIT: How Bilateral Investment Treaty Network Shapes Foreign Direct Investment (with Ruofan Ma).
3. Estimating Treatment Effects from Time-Series Cross-Sectional Data with Binary Outcomes.
4. A Framework of Counterfactual Estimation for Casual Inference under Spatial-Temporal Interference (with Xun Pang).
5. Treatment Effects under Network Interference and Outcome Interdependence (with Xun Pang).

Work in Progress

1. Ethnic Diversity and Citizen Compliance with Lockdown Policy in Sierra Leone (with Anum Mustafa and Lily Tsai).
2. Dynamic Causal Effects of Network Ties: Application to Lobbying Networks (with Naoki Egami and In Song Kim).

Scientific Software

1. “bpCausal: Bayesian Causal Inference with Panel Data” (with Xun Pang and Yiqing Xu) available through GitHub. 2021.
2. “fect: Fixed Effect Counterfactuals” (with Ye Wang and Yiqing Xu) available through GitHub. 2020.
3. “panelView: Visualizing Panel Data with Dichotomous Treatments” (with Yiqing Xu) available through the Comprehensive R Archive Network. 2018.
4. “interflex: Multiplicative interaction models diagnostics and visualization” (with Jens Hainmueller, Jonathan Mummolo and Yiqing Xu) available through the Statistical Software Components. 2017.

Conference Participation

1. PolMeth Annual Conference, 2020, 2022, 2023, 2024, 2025.
2. APSA Annual Conference, 2019, 2022.
3. Asian PolMeth IX, Virtual, January, 2022.

Teaching Experience

University of Michigan:

1. POLSCI 599: Statistical Methods in Political Research I, Fall 2025.
2. POLSCI 688: Causal Inference, Fall 2025.

MIT:

1. Graduate Student Math Camp II, Instructor, Summer 2023 & 2022.

2. Political Methodology Workshop Series - Network Analysis II, Instructor, Spring 2023.
3. Quantitative Research Methods III, Teaching Assistant, Fall 2022.
4. Quantitative Research Methods II, Teaching Assistant, Spring 2022.

Professional Experience

Reviewer for:

American Political Science Review, American Journal of Political Science, Chinese Journal of International Politics, Comparative Political Studies, International Interactions, Political Analysis, Review of International Political Economy.

Annals of Applied Statistics, AISTATS 2023, 2024, Biostatistics, Machine Learning (MACH).

Demography, European Economic Review, Evaluation and Program Planning, Journal of Quantitative Economics, Regulation and Governance, Social Science Research.

Honors and Awards

1. Travel and Registration Grant, Society for Political Methodology, 2023.
2. Political Methodology Lab (PML) Research Grants, MIT, 2022.
3. Presidential Fellowship, MIT, 2019 - 2020.
4. Beijing Outstanding Graduates, 2016.
5. National Scholarship, the Ministry of Education in China, 2013 - 2015.

Skills

R, STATA, Python, C/C++, Stan, L^AT_EX

References

In Song Kim

Department of Political Science
77 Massachusetts Avenue, E53-407
Massachusetts Institute of Technology
Cambridge, MA 02142
insong@mit.edu

Lily Tsai

Department of Political Science
77 Massachusetts Avenue, E53-413
Massachusetts Institute of Technology
Cambridge, MA 02142
l_tsai@mit.edu

Yiqing Xu

Department of Political Science
616 Serra Mall, Encina Hall West, Room 409
Stanford University
Stanford, CA 94305
yiqingxu@stanford.edu

Teppei Yamamoto (Chair)

Faculty of Political Science and Economics
Waseda University
Shinjuku, Tokyo, Japan
tyamam@waseda.jp