

Le Bao

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PROFESSIONAL APPOINTMENTS

Postdoctoral Fellow

- Massive Data Institute (MDI), Georgetown University, July 2022 - July 2023 (expected).

Past Experiences:

Visiting Graduate Fellow

- Institute of Quantitative Social Science (IQSS), Harvard University, January 2022 - June 2022.

Replication Analyst

- *Political Analysis*, January 2021 - June 2022.

Teaching Fellow

- Department of Government, FAS, Harvard University, January 2021 - July 2021.

EDUCATION

American University, Washington, D.C.

Ph.D., Political Science, 2017 - 2022

- **Dissertation:** A New Measurement of Mass Political Polarization and Its Implications

- **Committee:** Jeff Gill (Chair), Ryan T. Moore, Todd A. Eisenstadt, Xun Pang (Tsinghua University, China)

Nanjing University, Nanjing, China

M.A., Political Science, 2014 - 2017

The Hopkins-Nanjing Center, Nanjing, China

Graduate Certificate, Chinese and American Studies, 2015 - 2016

Nanjing University, Nanjing, China

B.A., Political Science, 2009 - 2013

RESEARCH AND PUBLICATIONS

Research Interests

Political Methodology: Spatial Analysis, Bayesian and Nonparametric Statistics, Survey Methodology

Comparative & American Politics: Political Behavior; Polarization; Environmental Politics; Contextual Effects.

Working Papers

“A Non-Parametric, Entropy-Based Measure of Mass Political Polarization,” with Jeff Gill (in revision)

“Modeling Aggregate Political Behavior with Compositional Explanatory Variables”

“Socio-Economic Inequality and Mass Polarization: The Roles of Party Polarization and Welfare State”

“krige: An R Package for Geospatial Kriging with Metropolis Sampling,” with Jason S. Byers, Jamie L. Carson, and Jeff Gill (in revision)

“Illusion of Knowing and Attitude Extremity: Survey Experiments on the American Public’s Views of China-Related Issues,” with Jie Lu and Yongrong Cao (in revision)

Book Chapters

“Bayesian Spatial Methods and Public Opinion of Geographical Areas,” *Oxford Handbook of Methodological Pluralism*, eds. Janet M. Box-Steffensmeier, Valeria Sinclair-Chapman, and Dino Christenson, Oxford University Press. with Jamie L. Carson and Jeff Gill (Forthcoming)

“Revisiting Popular Understandings of Democracy in Asia: Evidence from New Survey Instruments in the Fifth Wave of the ABS,” *How Asians View Democratic Legitimacy*, ed. Yun-han Chu, National Taiwan University Press. with Jie Lu (Forthcoming)

Work in Progress

Bayesian Social Science Statistics from the Very Beginning (Cambridge Elements Series) with Jeff Gill (under contract)

Non-Parametric Statistical Methods in Social Science, with Jeff Gill

“Objective Impact, Information, and Public Opinion on China and Trade: A Spatial Analysis on OECD Countries”

“Revisiting the ‘Asian Value’: A Bayesian Latent Variable Approach,” with Jie Lu.

Conferences and Talks

APSA (2020, 2021), *PolMeth* (2021, 2022), *MPSA* (2018, 2020 (cancelled), 2022), *SPSA* (2020, 2023), *SLAMM* (2021), *LAPolMeth* (2022)

“Modeling Aggregate Political Behavior with Compositional Explanatory Variables.” Dynamic Pie Group Meetings, Department of Political Science, Texas A&M University, September 2022.

“Simulations and Resampling Methods in Social Science.” Biweekly Speaker Forum, Center for Data Science & School of International Studies, Renmin University of China, November 2021.

“Economic Inequality, Media Freedom, and Public Political Polarization.” Invited Guest Speaker. *Introduction to Political Research* with Andrew Flores, School of Public Affairs, American University, February 2020.

Research Experience

Research Fellow, *Environmental Impact Data Collaborative (EIDC)*, PI: Michael Bailey, Massive Data Institute (MDI), Georgetown University, 2022-.

Research Assistant, *Inclusion by Design: The Impact of Electoral Systems on Minority Inclusion*, PI: David Lublin, American University, 2020-2021.

- Developed programs for large-scale computer-assisted data collection; conducted ecological analyses.

Research Assistant, *Smooth National Measurement of Public Opinion across Boundaries and Levels: A View from the Bayesian Spatial Approach*, PI: Jeff Gill, American University, 2019 - 2020.

- Developed methods for fast matrix inversion and Metropolis-Hasting sampling; Developed software package for Bayesian kriging; conducted cloud computing.

Project Assistant, Asian Barometer Survey (Wave 5) China, PI: Yun-han Chu, Jie Lu, and Min-Hua Huang, 2019.

- Coordinated all the operations and teams of the survey; questionnaire design; GIS-assisted sampling; quality control and checks; surveyor training.

Project Assistant, Cooperative Congressional Election Study (CCES) China Module, PI: John Aldrich and Jie Lu, 2018, 2020.

- Questionnaire and experiment design; pilot study and analysis.

Research Assistant, PI: Todd A. Eisenstadt, American University, Summer 2018.

- Book project, *Who Speaks for Nature?: Indigenous Movements, Public Opinion, and the Petro-state in Ecuador* (Oxford University Press)
- Compiled data for global environment politics dataset.

TEACHING

Teaching Interests

Political Methodology: Bayesian Statistics; Spatial Analysis; Measurement, Scaling, and Dimensional Analysis

Comparative & American Politics: (Comparative) Political Behavior; (Comparative) Political Polarization

Data Science & Statistics: Simulations and Resampling Methods; Container and Reproducible Computing

Instructor

- *MDI Data Workshops*, Massive Data Institute, Georgetown University
 - February 2023: Monte Carlo Simulation and Resampling Methods
 - October 2022: Subnational Measurement with Geospatial Data
- *Winter Institute in Data Science and Big Data*, Center for Data Science, American University
 - January 2023: Sessions on python, comparative computing, and container and cloud computing
 - January 2022: Sessions on computing environment, container, and cloud computing
- *Introduction to Political Research*, Department of Government, American University, Fall 2021
 - Evaluations: 4.6 (Dept mean: 4.2)

Teaching Fellow

- *Model*, Harvard University, Spring 2021 (head instructor: Jeff Gill)
 - Lectures; review and recitation sessions; office hours and study halls
 - Evaluations: 4.82 (Dept mean: 4.56)

Teaching Assistant

- *Bayesian Statistics for Social and Biomedical Sciences*, American University, Fall 2020 (with Jeff Gill)
- *Introduction to Survey Research*, American University, Spring 2020 (with Andy Ballard, Jeff Gill, Ryan T. Moore, Liz Suhay)
- *Introduction to Comparative Politics*, American University, Summer 2019 (with Jie Lu)
- *Political Institution*, American University, Spring 2019 (with Jie Lu)
- *Data Science and Programming with R*, Southwest Jiaotong University, Chengdu, China, Summer 2018 (with Jie Lu)
- *Introduction to Comparative Politics*, American University, Spring 2018 (with Eric Hershberg)

PROFESSIONAL SERVICE AND MEMBERSHIPS

Professional Service

Editorial Assistant (2019-2022), **Replication Analyst** (2021-2022), *Political Analysis*.

Reviewer for *Political Analysis*, *Political Science Research and Methods*, *Political Behavior*, *International Security Quarterly*, *Research and Politics*, *Journal of Chinese Political Science*, *Asian Journal of Communication*.

Organizer (2022, 2023), Computational Postdoc Bits and Bites, Georgetown University.

Student Organizer (2020, 2021), Political Methodology Reading Group, American University.

Member

- *American Political Science Association, Society for Political Methodology, American Statistical Association, American Association for Public Opinion Research, Midwest Political Science Association, Southern Political Science Association, Society for Causal Inference.*

SOFTWARE

R Pacakge

- `krige`: Geospatial Kriging with Metropolis Sampling (with Jason S. Byers, Jeff Gill, Jamie L. Carson)
- `superdiag`: R Code for Testing Markov Chain Nonconvergence (with Tsung-han Tsai, Jeff Gill and Jonathan Rapkin)

AWARDS, HONORS, AND GRANTS

The Neil and Ann Kerwin Doctoral Fellowship (\$10,000), American University, 2021.

EITM Summer Institute, hosted by Duke University, EITM Institute, 2021.

EITM Certification Scholarships, EITM Institute, 2020.

Summer Funding, American University, 2018, 2019, 2020, 2021.

Graduate Assistantship, American University, 2017-2022.

Conference Travel Grant, Department of Government, SPA, American University, 2017-2022.

Scholarship for Outstanding Students, Hopkins-Nanjing Center, 2016.

SKILLS AND ADDITIONAL TRAININGS

Programming

- R, Python, C/C++, JavaScript, Mplus, z-Tree, SQL.

Tools

- Docker, GitHub, L^AT_EX, Qualtrics, HPC, AWS, Unix/Linux.

Languages

- English: Fluent; Chinese: Native

Additional Training

ICPSR Summer Program (EITM Certificate), Summer 2020, University of Michigan,

- *Machine Learning; Measurement, Scaling, and Dimensional Analysis; Game Theory*

Center for Data Science Workshop Series, 2019-2020, American University

- *Text as Data; Spatial Statistics for the Social Sciences; Time Series Analysis; Network Analysis; Regression Trees Models*

ICPSR Summer Workshop, Summer 2018, University of Michigan

- *Structural Equation Models and Latent Variables*

Updated: January 23, 2023