Haoyu Zhai

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EDUCATION

European University Institute, Florence, IT

- PhD in Political and Social Science　　　　　　　　　　　　Sep 2019 – Jun 2023
  - Thesis: Papers in applied political methodology
  - Supervisors: Prof. Miriam Golden & Prof. Elias Dinas
  - Focus: Political methodology, network analysis, data analytics

University of Oxford, Oxford, UK

- MPhil in Politics (Comparative Government)　　　　　　　　Sep 2017 – Jun 2019
  - Thesis: A New Model of Party Positional Ambiguity
  - Supervisor: Prof. David Rueda
  - Focus: Party and electoral politics

University of Bristol, Bristol, UK

- BSc in Politics with Quantitative Research Methods　　　　　Sep 2014 – Jun 2017
  - Dissertation: A Three-Channel Study of British Immigration Attitudes
  - Advisor: Dr Mircea Popa
  - GPA: 4.0 (UK 80%, First Class Honours)

PUBLICATIONS & WORKS IN PROGRESS

PUBLICATIONS

[1] "If not now, when? Climate disaster and the Green vote following the 2021 Germany Floods", with Susanna Garside, *Research & Politics*, Dec 2022.

[2] "Median Voters, Mainstream Parties, and Electoral Competition", with David Rueda and Johannes Lindvall, *British Journal of Political Science*, *forthcoming*.

WORKING PAPERS

[1] "Political deliberation as network: an applied methodological note", *in progress*.

[2] "Gathering, evaluating, and aggregating social scientific models of COVID-19 mortality", with Miriam Golden, Alex Scacco, Macartan Humphreys, Tara Slough et al., *in progress*.

[3] "Estimating party (dis-)unity with formal prior: towards a Gamson-Cox approach", *in progress*.

[4] "A new Bayesian scaling approach to estimating party position and issue salience", with Chendi Wang, *in progress*.

[5] "Ideological Bias: Asymmetrical Polarization and Post-authoritarian Norms in Spain", with Elias Dinas and Ksenia Northmore-Ball, *in progress*.

[6] "Vacancy chain models with application to the Chinese bureaucracy", with Arnout van de Rijt, *in progress*.

CONFERENCES

[1] H. Zhai, "A network-ERGM approach to studying political deliberation", in *CIVICA Data Science Days*, Florence, IT, Oct 2022.

[2] H. Zhai, "Crowdsourced social scientific models of COVID-19 mortality", in *PolMeth XXXIX*, St. Louis, MO, Jul 2022.

RESEARCH EXPERIENCE

The Institutions and Political Inequality Research Unit, WZB Berlin

- Visiting Researcher　　　　　　　Apr 2022 – Jun 2022; Oct 2022 – Present
  - Projects: Multiple (independent and collaborative)
  - Hosting Chair: Prof. Macartan Humphreys
  - Focus: Applied methodology, computational methods, data analysis

Multi-Institutional Research Project, EUI, UC Riverside, Stanford, Toronto & WZB

- Research Assistant　　　　　　　　　　　　　　　　　　Sep 2020 – Feb 2021
  - Project: The COVID-19 Model Challenges
  - Steering Committee Co-Chairs: Prof. Miriam Golden & Prof. Alexandra Scacco
  - Focus: Social and health sciences, knowledge accumulation, forecasting

Nuffield College, University of Oxford

- Research Assistant   Apr 2019 – Dec 2019
  - Project: Main Party Strategies and Redistribution Preferences
  - Principle Investigators: Prof. David Rueda & Prof. Johannes Lindvall
  - Focus: Party and electoral politics, political economy, methodology

Kellogg College, University of Oxford

- Data Analyst   Jun 2018
  - Responsibility: Data analysis, data management, data visualisation

TEACHING EXPERIENCE

Departments of Politics and Economics (Joint), EUI

- Teaching Assistant   Sep 2020 – Jan 2021
  - Course: The Statistics of Causal Inference (Graduate)
  - Responsibility: Classroom assistance, lab sessions, exam preparation and grading
  - Syllabus: Causal inference, econometrics, advanced quantitative methods

Worcester College, University of Oxford

- Tutor in Politics (Teaching Assistant)   Apr 2019 – Jun 2019
  - Course: Political Sociology (Undergraduate)
  - Responsibility: Teaching, coursework assignment and grading, progress monitoring
  - Syllabus: Political culture, social movement, ethnicity, nationalism, cleavage politics

AWARDS & SCHOLARSHIPS

- **PolMeth Travel and Participation Award**, Political Methodology Society   Jul 2022
  Competitive grant for conference attendance and presentation

- **EUI Researchers' Mission Funding**, EUI   Apr – Jul 2022
  Twice awarded for research exchange and conference attendance

- **EITM Certification Scholarship**, Princeton-EITM   Jun – Aug 2021
  Full-tuition scholarship for attending advanced methods summer school

- **Italian Ministry of Foreign Affairs "Grants for Foreigners" Programme**, EUI   2019 – 2023
  Full-tuition scholarship with stipend for doctoral studies. One of 2 awardees

- **BITSS RT2 Training Scholarship**, Berkeley-CEGA   Sep 2020
  Full tuition fee waiver for programme participation

- **Graduate Research Expenses Fund**, St Catherine's College, Oxford University   Jul – Jun 2019
  Twice awarded for attending conferences and advanced research training

- **UK Dissertation Prize (First Prize)**, UK Data Service   Jul 2017
  Awarded for best undergraduate research using quantitative research methods

- **Evelyn Miller-Barstow Prize**, Bristol University   Dec 2016
  Awarded for best second-year performance in social science

- **SPAIS International Scholarship**, Bristol University   Nov 2014
  Awarded to top international applicants. One of 2 awardees

OTHER AFFILIATIONS

The WZB Berlin Social Science Center   Apr – Jun 2022; Oct 2022 – Present
Berlin, Germany

- Visiting Researcher

Nuffield Centre for Experimental Social Science (CESS)   2019 – Present
Oxford, UK

- Pre-Doc Fellow & Affiliated Graduate Student

OTHER TRAINING

Data Science Summer School   Jul – Aug 2022
Hertie School Data Science Lab (Online)

- Modules: multi-modal systems modelling, NPL transformers, generative adversarial networks

Statistical Machine Learning   Oct – Nov 2021
Università Bocconi (Online)

- Modules: Bayesian networks, CART & BART, Gaussian process, shrinkage and selection

The ICPSR Summer Program in Quantitative Methods of Social Research   Jun – Aug 2021
ICPSR (Online)

- Modules: Bayesian modelling, statistical learning, social choice theory, game theory

Computational Economics for PhDs   Jan – Apr 2021
Sciences Po (Online)

- Modules: computational methods, numerical optimisation, replication, Julia

BITSS Research Transparency and Reproducibility Training (RT2)   Sep 2020
Online

- Modules: Reproducible workflows, data sharing, evidence interpretation and synthesisation

2019 CESS/Essex Summer School   Jun – Jul 2019
Oxford, UK

- Modules: Experimental design, causal inference, RCTs, oTree and R

Oxford Spring School in Advanced Research Methods   Mar – Apr 2018
Oxford, UK

- Modules: Causal inference, spatial analysis, machine learning, visualisation, R

LANGUAGES   English, Chinese (Mandarin), Italian (Basic), German (Basic)

SKILLS   R, Julia, Python, SQL, GitHub, LaTeX, Markdown, Microsoft Suite

INTERESTS   Data science, data visualisation, programming, graphic design

REFERENCES
- **Professor Miriam A. Golden**
  Peter Mair Chair of Comparative Politics
  European University Institute
  9 Via della Badia dei Roccettini, 50014 Fiesole FI, Italy
  miriam.golden@eui.eu • +39-055-4685-233

- **Professor Macartan Humphreys**
  Professor of Political Science & Director of Research Unit
  Columbia University & WZB
  Reichpietschufer 50, D-10785 Berlin, Germany
  macartan.humphreys@wzb.eu • +49-30-25491-369

- **Dr Tara Slough**
  Assistant Professor of Politics
  New York University
  19 West 4th St, 206, New York, NY 10012, USA
  tara.slough@nyu.edu • +1-269-492-4178