

Haoyu Zhai

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EDUCATION

European University Institute, Florence, IT

- Ph.D. in Political and Social Science
• Thesis: Papers in applied political methodology
• Supervisors: Prof. Miriam Golden & Prof. Elias Dinas
• Focus: Political methodology, network analysis, data analytics

Sep 2019 – Jun 2023

University of Oxford, Oxford, UK

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

Sep 2017 – Jun 2019

University of Bristol, Bristol, UK

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

Sep 2014 – Jun 2017

PUBLICATIONS & WORKS IN PROGRESS

PUBLICATIONS

- [1] “If not now, when? Climate disaster and the Green vote following the 2021 Germany Floods”, with Susanna Garside, *forthcoming (Research & Politics)*.
- [2] “Median Voters, Mainstream Parties, and Electoral Competition”, with David Rueda and Johannes Lindvall, *forthcoming (British Journal of Political Science)*.

WORKING PAPERS

- [1] “Political deliberation as network: an applied methodological note”, *in progress*.
- [2] “Estimating party (dis-)unity with formal prior: towards a Gamson-Cox approach”, *in progress*.
- [3] “A new Bayesian scaling approach to estimating party position and issue salience”, with Chendi Wang, *in progress*.
- [4] “Crowdsourcing Political Models of Covid-19 Mortality”, with Miriam Golden, Alex Scacco, Macartan Humphreys, Tara Slough et al., *in progress*.
- [5] “Ideological Shadows of Authoritarianism”, with Elias Dinas and Ksenia Northmore-Ball, *in progress*.
- [6] “Vacancy chain models with application to the Chinese bureaucracy”, with Arnout van de Rijdt, *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.
- [3] H. Zhai, “Agents of State Control? Neighbourhood Organisations and Authoritarian Rule”, in *AsianPolmeth VIII & ASQPS IX*, Online, Jan 2021.

RESEARCH EXPERIENCE

The Institutions and Political Inequality Research Unit, WZB Berlin

- Visiting Researcher
• Projects: Multiple (independent and collaborative)
• Focus: Applied methodology, computational methods, data analysis

Apr 2022 – Jun 2022; Oct 2022 – Present

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

- Research Assistant
• Project: The COVID-19 Model Challenges
• Steering Committee Co-Chairs: Prof. Miriam Golden & Prof. Alexandra Scacco

Sep 2020 – Feb 2021

	<ul style="list-style-type: none"> • Focus: Social and health sciences, knowledge accumulation, forecasting 	
	Nuffield College, University of Oxford	
	<ul style="list-style-type: none"> ▪ Research Assistant <ul style="list-style-type: none"> • Project: Main Party Strategies and Redistribution Preferences • Principle Investigators: Prof. David Rueda & Prof. Johannes Lindvall • Focus: Party and electoral politics, political economy, methodology 	Apr 2019 – Dec 2019
	Kellogg College, University of Oxford	
	<ul style="list-style-type: none"> ▪ Data Analyst <ul style="list-style-type: none"> • Responsibility: Data analysis, data management, data visualisation 	Jun 2018
TEACHING EXPERIENCE	Departments of Politics and Economics (Joint), EUI	
	<ul style="list-style-type: none"> ▪ Teaching Assistant <ul style="list-style-type: none"> • Course: The Statistics of Causal Inference (Graduate) • Responsibility: Classroom assistance, lab sessions, exam preparation and grading • Syllabus: Causal inference, econometrics, advanced quantitative methods 	Sep 2020 – Jan 2021
	Worcester College, University of Oxford	
	<ul style="list-style-type: none"> ▪ Tutor in Politics (Teaching Assistant) <ul style="list-style-type: none"> • Course: Political Sociology (Undergraduate) • Responsibility: Teaching, coursework assignment and grading, progress monitoring • Syllabus: Political culture, social movement, ethnicity, nationalism, cleavage politics 	Apr 2019 – Jun 2019
AWARDS & SCHOLARSHIPS	<ul style="list-style-type: none"> ▪ PolMeth Travel and Participation Award, Political Methodology Society Competitive grant for conference attendance and presentation ▪ EUI Researchers' Mission Funding, EUI Twice awarded for research exchange and conference attendance ▪ EITM Certification Scholarship, Princeton-EITM Full-tuition scholarship for attending advanced methods summer school ▪ Italian Ministry of Foreign Affairs "Grants for Foreigners" Programme, EUI Full-tuition scholarship with stipend for doctoral studies. One of 2 awardees ▪ BITSS RT2 Training Scholarship, Berkeley-CEGA Full tuition fee waiver for programme participation ▪ Graduate Research Expenses Fund, St Catherine's College, Oxford University Twice awarded for attending conferences and advanced research training ▪ UK Dissertation Prize (First Prize), UK Data Service Awarded for best undergraduate research using quantitative research methods ▪ Evelyn Miller-Barstow Prize, Bristol University Awarded for best second-year performance in social science ▪ SPAIS International Scholarship, Bristol University Awarded to top international applicants. One of 2 awardees 	Jul 2022 Apr – Jul 2022 Jun – Aug 2021 2019 – 2023 Sep 2020 Jul – Jun 2019 Jul 2017 Dec 2016 Nov 2014
OTHER AFFILIATIONS	The WZB Berlin Social Science Center Berlin, Germany	Apr – Jun 2022; Oct 2022 – Present
	<ul style="list-style-type: none"> ▪ Visiting Researcher 	
	Nuffield Centre for Experimental Social Science (CESS) Oxford, UK	2019 – Present
	<ul style="list-style-type: none"> ▪ Pre-Doc Fellow & Affiliated Graduate Student 	
OTHER TRAINING	Data Science Summer School Hertie School Data Science Lab (Online)	Jul – Aug 2022
	<ul style="list-style-type: none"> ▪ Modules: multi-modal systems modelling, NPL transformers, generative adversarial networks 	
	Statistical Machine Learning Università Bocconi (Online)	Oct – Nov 2021
	<ul style="list-style-type: none"> ▪ Modules: Bayesian networks, CART & BART, Gaussian process, shrinkage and selection 	

	The ICPSR Summer Program in Quantitative Methods of Social Research ICPSR (Online)	Jun – Aug 2021
	<ul style="list-style-type: none"> Modules: Bayesian modelling, statistical learning, social choice theory, game theory 	
	Computational Economics for PhDs Sciences Po (Online)	Jan – Apr 2021
	<ul style="list-style-type: none"> Modules: computational methods, numerical optimisation, replication, Julia 	
	BITSS Research Transparency and Reproducibility Training (RT2) Online	Sep 2020
	<ul style="list-style-type: none"> Modules: Reproducible workflows, data sharing, evidence interpretation and synthesis 	
	2019 CESS/Essex Summer School Oxford, UK	Jun – Jul 2019
	<ul style="list-style-type: none"> Modules: Experimental design, causal inference, RCTs, oTree and R 	
	Oxford Spring School in Advanced Research Methods Oxford, UK	Mar – Apr 2018
	<ul style="list-style-type: none"> Modules: Causal inference, spatial analysis, machine learning, visualisation, R 	
LANGUAGES	English, Chinese (Mandarin), Italian (Basic), German (Basic)	
SKILLS	R, Julia, Python, SQL, GitHub, L ^A T _E X, Markdown, Microsoft Suite	
INTERESTS	Data science, data visualisation, programming, graphic design	
REFERENCES	Available upon request	