

Chuyao (Julian) WANG

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www.lse.ac.uk/Methodology/People/Research-Students/Chuyao-Wang

Political Communication; Computational Social Science; Public Opinion; AI Governance and Policy; AI in Social Sciences

Education

London School of Economics and Political Science (LSE)

Ph.D. in Social Research Methods (Computational and Experimental Social Science)

09/2022 – 07/2026

Ph.D. Affiliate, LSE Data Science Institute

Supervisors: Prof. Patrick Sturgis F.B.A. and Dr. Daniel De Kadt

Progress: Passed M.Phil. to Ph.D. Upgrade Document Review and Viva (On Track)

Training: Python Programming, Data Management with R, Artificial Intelligence

Yale University

Visiting Assistant in Research, Department of Political Science

07/2025 (Expected) – 09/2025

To conduct full-time and on-site research on AI governance and public opinion with Prof. Joshua Kalla

Hong Kong University of Science and Technology (HKUST)

M.Phil. in Social Science (Social Statistics), GPA 3.74 / 4.3

09/2020 – 09/2022

Supervisor: Prof. Han Zhang

Committee: Prof. David Hendry (Chair), Prof. Han Zhang, Prof. Haohan Chen

Training: Computational Social Science, Research Design, Social Network Analysis, Econometrics

M.Sc. in Global China Studies (Political Sociology), GPA 3.96 / 4.3 (Dean's Award; Top 3)

09/2019 – 09/2020

Shandong University (SDU)

B.A. in History (Economic History), GPA 88.2 / 100

09/2016 – 09/2020

Exchange Study: University of California, Los Angeles (GPA 4.00 / 4), University of Hong Kong (GPA 3.70 / 4.3)

Additional Training

Oxford Internet Institute – UC Berkeley School of Information Summer Doctoral Program, UC Berkeley 07/2025 (Expected)

2nd Oxford Large Language Models Workshop for Social Science (Oxford LLMs 2024), University of Oxford

09/2024

- Selected (acceptance rate $\approx 15\%$) for cutting-edge seminars and collaborative research on LLMs for social sciences

4th Summer Institute in Computational Social Science (SICSS 2021), HKUST

06/2021

- Selected (acceptance rate $\approx 20\%$) to present paper *400,000 Images Shows that Ideological Hostility is Eased in Public Crisis*
- Led a project that won the only SICSS Research Grant in the Hong Kong site, serving as the sole Principal Investigator (PI)

Publication

Panacea or Pandora's Box: Diverse Governance Strategies to Conspiracy Theories and Their Consequences in China

- Analyzed 46,387 posts with computational network analysis, topic modeling, and three case studies
- Revealed diverse backlash effects when the state employed the conspiracy theories to mobilize the public
- Highlighted the limitations of authoritarian information control, revealing the interplay between state control and public agency
- Accepted at *Humanities and Social Sciences Communications* [IF = 3.7; SSCI Q1, 2/267 in Interdisciplinary Social Science]

Under Review

Bureaucrat-Expert Collaboration in Large Language Model (LLM) Adoption: An Institutional Logic Perspective on China

- Collaborated with a local government in China which sought to tailor an LLM to categorize citizen complaint
- Contextualizing institutional logic in adopting a fine-tuned LLM with conflicting incentives between experts and bureaucrats

- Submitted to *Government Information Quarterly* [IF = 7.8; SSCI Q1, 5/161 in Information Science and Library Science]

Selected Working Papers

Assessing the Scope of Algorithm Aversion in AI Labeling in Online News: A Survey Experiment

- 1st Ph.D. paper; examined the impact of AI labeling (disclosing AI authorship) on public evaluation of policy articles
- Designed a 2×2×2 survey experiment among a representative sample of 3,861 in Great Britain
- Revealed that AI labeling reduced information credibility without impact on policy support or misinformation concerns
- Examined AI labeling's limited impact with contextual factors using a high-quality sample; targeted to *Nature Human Behaviour*

Advancing Heterogeneous Treatment Effect Analysis with Tailored Machine Learning and Causal Inference

- 2nd Ph.D. paper; articulated the heterogeneous treatment effect of AI labeling on public opinion outcomes
- Combined and fine-tuned machine learning and causal inference methods to a probability sample of 3,861 with 235 covariates
- Demonstrated improved accuracy and robustness of this advanced method, and advanced treatment effects analysis

Enhancing Public Deliberation with Socially Aligned Prompt Engineering of Human-LLM Conversations

- 3rd Ph.D. paper; investigated how effective and trustworthy human-LLM conversations can enhance public deliberation
- Supported by LSE's Research and Impact Fund, OpenAI's Researcher Access Program, and Google Cloud Research Credits
- Designed a personalized, dynamic, and multi-strategy conversational survey experiment with socially aligned prompt engineering

Conference Presentations

<i>Political Science: APSA, EPSA, PolMeth, PolMeth Europe; Communication: ICA, NCA; Sociology: ASA; CSS: IC2S2, ACM WebSci24</i>	
120th Annual Conference of the American Sociological Association (ASA 2025), Chicago	08/2025
42nd Annual Meeting of the Society for Political Methodology (PolMeth 2025), Emory University	07/2025
75th Annual Conference of the International Communication Association (ICA 2025), Denver	06/2025
15th Annual Conference of the European Political Science Association (EPSA 2025), Madrid	06/2025
Annual Conference of the Society for Political Methodology, Europe (PolMeth Europe 2025), London [Non-attendance]	04/2025
LSE Data Science Institute Ph.D. Affiliate Lightning Talk, LSE	02/2025
• Selected to present paper <i>Assessing the Scope of Algorithm Aversion in AI Labelling in Online News: A Survey Experiment</i>	
110th National Communication Association Annual Convention (NCA 2024), New Orleans [Non-attendance]	11/2024
120th American Political Science Association Annual Meeting (APSA 2024), Philadelphia	09/2024
• Selected to present paper <i>AI Labeling-Induced Algorithm Aversion: Transparency-Efficiency Tradeoff in AI-Generated Content</i>	
• Selected to present paper <i>Diverse Governance Strategies to Conspiracy Theories in China</i>	
10th International Conference on Computational Social Science (IC2S2 2024), University of Pennsylvania [Non-attendance]	07/2024
16th Association for Computing Machinery Web Science Conference (ACM WebSci24), Stuttgart	05/2024
• Selected to present paper <i>Bridging Social Divisions with AI</i>	
19th Chinese Internet Research Conference (CIRC 2022), Hong Kong	09/2022
• Selected to present paper <i>Cross-platform Practices of Netreds</i>	
7th International Symposium on Quantitative History, Society of Quantitative History	07/2019
• Selected to present paper <i>Quantifying Fiscal Mobilization in Modern China: A Political Sociology Approach</i>	

Selected Grants and Awards

Total Amount Received: US\$ 1,050,000, or £ 858,000, or HK\$ 8,210,000

Research Grants

Research and Impact Support Fund (Artificial Intelligence Spotlight Call) £ 4,817, LSE - Sole PI 2024-25

Selected for the 1st cohort of 16 student awardees across all departments in the Fund historically reserved for faculty members

Covered by LSE: LSE funds world leading research in Artificial Intelligence https://www.lse.ac.uk/DSI/AI/risf-projects	
Google Cloud Research Credits US\$ 1,000, Google - Sole PI	08/2024
OpenAI's Researcher Access Program US\$ 5,000 , OpenAI - Sole PI	07/2024
Focused on socially aligned prompt engineering, and awarded US\$ 5,000 credits for advanced ChatGPT models	
ACM WebSci24 Student Grant € 500, ACM SIGWEB & Web4Good - Sole PI	04/2024
Research and Dissertation Grant HK\$ 90,000, Chinese University of Hong Kong (CUHK, Declined) - Sole PI	2022-26
SICSS Research Grant , USA Social Science Research Council - Sole PI, Top 25 among 21 sites worldwide	09/2021

Academic Awards

APSA 2024 Travel Grant (Information Technology and Politics Section) \$ 250, APSA	09/2024
Postgraduate Travel Fund (for APSA 2024) £ 587, LSE	08/2024
Postgraduate Travel Fund (for ACM WebSci 24) £ 413, LSE	05/2024
Ph.D. Academy Micro-Internship Award £ 1,000, LSE	01/2023
LSE Ph.D. Studentship £ 170,000 , LSE (80 Places across All Departments)	2022-26
Hong Kong Ph.D. Fellowship HK\$ 1,010,000 , Research Grant Council (Highest All-Discipline Award, Declined)	2022-25
Computational Social Science (CSS) Ph.D. Fellowship HK\$ 210,000 , CUHK CSS Lab (Declined) - Sole PI	2022-26
Vice-Chancellor's Ph.D. Scholarship HK\$ 80,000, CUHK (Highest All-Discipline Award, Declined)	2022-26
Postgraduate Studentship HK\$ 430,000, HKUST	2020-22
Dean's Award, HKUST (3 Places, Top 5%)	11/2020
Scholarship for Overseas Study (for UCLA), SDU	11/2017

Services

Teaching: LSE Graduate MY464 - Introduction to Quantitative Analysis for Media and Communications

HKUST Undergraduate SOSC1470 - Political and Economic Development of Modern Japan (Twice)

HKUST Undergraduate SOSC1190 - China and the World (Twice)

Reviewing: *Humanities and Social Sciences Communications*

Annual International Communication Association Conference (ICA 2024; ICA 2025)

Annual Convention of National Communication Association, USA (NCA 2024)

International Conference for Computational Social Science (IC2S2 2024; IC2S2 2025)

Founding Member, Inaugural Organizing Committee, Ph.D. Affiliate Network, LSE Data Science Institute 01/2025 - Now

Mentor, American Political Science Association (APSA) Mentoring Program

Methods and Skills

Research Methods: Machine Learning, Survey Experiment, Econometrics, Regression, Visual Analytics, Network Modeling

Programming and Softwares: R, Python, Cloud Computing (Google Vision and Google Colab), Stata, Gephi, ~~ETX~~

Languages: English and Chinese - Advanced proficiency for research and teaching