Chuyao (Julian) WANG

C.Wang85@lse.ac.uk   LSE Departmental Profile

Education

London School of Economics and Political Science (LSE)

Ph.D. in Social Research Methods (Computational and Experimental Social Science)   2022-26

Ph.D. Affiliate, LSE Data Science Institute (DSI)

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

Yale University

Visiting Assistant in Research, Department of Political Science, Hosted by Prof. Joshua Kalla   2025

Hong Kong University of Science and Technology (HKUST)

M.Phil. in Social Science   2020-22

Supervisor: Prof. Han Zhang

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

M.Sc. in Global China Studies, with Dean's Award   2019-20

Shandong University (SDU)

B.A. in History (Economic History)   2016-20

Exchange Study: UCLA; University of Hong Kong

Summer Institutes

22nd Oxford Internet Institute Summer Doctoral Program (SDP 2025), UC Berkeley   2025

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

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

Research Overview

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

6 papers (4 first author and 2 corresponding author), including first-author manuscripts for *PNAS* and *Nature Human Behaviour*

All 6 papers published at, under review at, or in preparation for SSCI Q1 journals

Publication

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

Humanities and Social Sciences Communications (a Nature Portfolio jounral), 2025; IF = 3.7, SSCI Q1 [Article Link]

Co-first and corresponding author, with Ming Ma and Feng Han:

- Analyzed authoritarian strategies for managing conspiracy theories (CTs) through propagation, tolerance, and partial rebuttal
- Combined social network analysis, topic modeling, and qualitative analysis of 46,387 Weibo posts across three cases
- Found that diverse CT governance strategies mobilize public opinion but risk backlash and loss of control
- Revealed unintended side effects of state-public interaction in governing CTs and digital platforms

Under Review

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

Second author, under review at *Government Information Quarterly*; IF = 7.8, SSCI Q1

- Conducted a case study of LLM adoption by a Chinese local government to categorize and address citizen complaints

- Identified how conflicting bureaucratic control and technical standards created tensions in LLM development
- Analyzed how cross-sector negotiations shaped model choice, data security, and censorship integration in LLM governance

<u>Working Papers</u>

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

First author (1st Ph.D. paper); manuscript for *Proceedings of the National Academy of Sciences*; IF = 9.4, SSCI Q1
- Examined the scope of AI labeling (disclosing AI authorship) effects on public evaluation of policy articles
- Designed a 2×2×2 survey experiment among a representative, high-quality sample of 3,861 in Great Britain
- Revealed that AI labeling reduced information credibility and policy interest but not policy support or misinformation concern

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

First author (2nd Ph.D. paper); in preparation for *Nature Human Behaviour*; IF = 22.3, SSCI Q1
- Investigated how effective and trustworthy human-LLM conversations can enhance public deliberation
- Designed a personalized, dynamic, and multi-strategy conversational survey experiment with prompt engineering

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

Sole author (3rd Ph.D. paper); in progress for *Social Science Computer Review*; IF = 3.0, SSCI Q1
- Combined machine learning and causal inference methods on a probability sample of 3,861 with 235 covariates
- Advanced heterogeneous treatment effects of AI labeling on public opinion beyond the oversimplified subgroup analysis

Governing Online Political Discourse: A Social Simulation of Self-Censorship using Large Language Models

Second and corresponding author; manuscript for *Technological Forecasting and Social Change*; IF = 12.9, SSCI Q1
- Applied LLM-based annotation on 343,764 tweets and counterfactual simulation (Difference-in-Differences with policy shock)
- Demonstrated how governance dynamics induce online self-censorship through collective adaptation and social learning

<u>Selected Grants and Awards</u>

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

Research Grants: 6 grants, all awarded as the sole Principal Investigator (PI)

Research and Impact Support Fund (Artificial Intelligence Spotlight Call) £ 4,817, LSE   2024-25
   Selected for the 1st cohort of 16 student awardees across all departments in the Fund historically reserved for professors
   This award is highlighted by LSE: World-leading AI research

OpenAI's Researcher Access Program US$ 5,000, OpenAI   2024-25
   Focused on socially aligned prompt engineering, and applied ChatGPT for social science research at scale

Google Cloud Research Credits US$ 1,000, Google   2024

ACM WebSci24 Student Grant € 500, ACM SIGWEB & Web4Good   2024

Research and Dissertation Grant HK$ 90,000, Chinese University of Hong Kong (CUHK) [Declined]   2022-26

SICSS Research Grant, Social Science Research Council (SSRC), USA   2021
   Top 25 awardees among 21 sites worldwide, highlighted by SSRC: SICSS Research Grantees

Academic Awards

Information Technology and Politics Section Travel Grant $ 250, APSA   2024

Postgraduate Travel Fund £ 1,000, LSE   2024

Ph.D. Academy Micro-Internship Award £ 1,000, LSE   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]   2022-26

Vice-Chancellor's Ph.D. Scholarship HK$ 80,000, CUHK [Declined]	2022-26
Postgraduate Studentship HK$ 430,000, HKUST	2020-22
Dean's Award, HKUST (3 Places, Top 5%)	2020
Scholarship for Overseas Study (UCLA), SDU	2017

Teaching

Teaching Interests

Substantive: Public Opinion; Comparative Politics; Public Policy Analysis; Digital Governance; Political Communication

Methodological: Quantitative, Computational, and Experimental Social Sciences; Research Design; AI for Social Sciences

Teaching Experiences

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)

Selected Conference Presentations

Political Science

American Political Science Association Annual Meeting (APSA 2025)

American Political Science Association Annual Meeting (APSA 2024)

Annual Conference of European Political Science Association (EPSA 2025)

Annual Meeting of Society for Political Methodology (PolMeth 2025)

Annual Conference of Society for Political Methodology, Europe (PolMeth Europe 2025)

Communication

Annual Conference of International Communication Association (ICA 2025)

National Communication Association Annual Convention (NCA 2024)

Chinese Internet Research Conference (CIRC 2022)

Sociology

Annual Conference of American Sociological Association (ASA 2025)

Computational Social Science

International Conference on Computational Social Science (IC2S2 2024)

Association for Computing Machinery Web Science Conference (ACM WebSci 2024)

Services

Reviewer: *Humanities and Social Sciences Communications*; ICA 2025, ICA 2024; NCA 2024; IC2S2 2025, IC2S2 2024

Founding Member, Inaugural Organizing Committee, Ph.D. Affiliate Network, LSE DSI   2025-Now

Research Training, Skills and Languages

Substantive Training: AI in Social Sciences, Public Opinion, Comparative Politics, Social Stratification, Social Protest

Methodological Training: Applied Machine Learning, Survey Experiment, Visual Analytics, Econometrics, Network Modeling

Programming and Software: R, Python, Cloud Computing (Google Vision and Google Colab), Stata, Gephi, LaTeX

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