Chuyao (Julian) WANG

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Computational Social Science; Public Opinion; Human-Computer Interaction; Technology, Governance, and Society

Education

London School of Economics and Political Science (LSE)

Ph.D. in Social Research Methods (Computational and Experimental Social Science)   09/2022 – 07/2026

Supervisors: Prof. Patrick Sturgis F.B.A. (Survey Expert), Dr. Daniel De Kadt (Social Data Scientist)

Award: LSE Ph.D. Studentship £ 170,000

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

Hong Kong University of Science and Technology (HKUST)

M.Phil. in Social Science (Social Statistics), GPA 3.74 / 4.3   09/2020 – 06/2022

Supervisors: Dr. Han Zhang (Computational Social Scientist)

Award: Postgraduate Studentship HK$430,000

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

M.Sc. in Global China Studies (Political Sociology), GPA 3.96 / 4.3 (Top 3)   09/2019 – 06/2020

Training: Statistical Inference, Comparative Politics, Social Stratification

Shandong University (SDU)

B.A. in History (Economic History), GPA 88.2 / 100   09/2016 – 06/2020

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

Under Review

Diverse Governance Strategies to Conspiracy Theories and Their Consequences in China   Under Review

- Submitted to **Nature's** *Humanities and Social Sciences Communications* as the corresponding author
- Analyzed 46,387 posts with computational network analysis, topic modeling, and three case studies
- Revealed diverse backlash effects when the conspiracy theories were employed to mobilize the public
- Highlighted the limitations of authoritarianism, revealing the interplay between state control and public agency

Enhancing Public Deliberation by Conversations with Generative AI   Conditionally Accepted

- Conditionally accepted to a field-top political communication journal
- Led as the co-1st Author; explored how conversations with ChatGPT enhance public deliberation on the carbon tax
- Combined visual-textual analysis with machine learning and a personalized conversational survey experiment

Working Papers

Articulating the Public Opinion Effects of Disclosing AI Authorship: Evidence from a Survey Experiment   In Progress

- Led as the 1st Author; examined how the impact of disclosing AI authorship on key public policy debates
- Designed and conducted a 2×2 digital survey experiment among a nationally representative sample of 2,000

Contextulizing a Large Language Model (LLM) to Improve Government Responsiveness   In Progress

- Collaborated with a local government in China which sought to tailor an LLM to categorize citizen complaint
- Contextualized a fine-tuned LLM in government institutions, target journal: *Nature Machine Intelligence*

400,000 News Images Shows that Ideological Hostility Intensifies with Public Crisis   Under Revision

- Led as the 1st Author; studied the ideological hostility of mass media under COVID-19 and beyond
- Framed questions, analyzed 400,000 images with machine learning and conducted regression analyses
- Showed that ideological hostility in visual depiction did exist but could be mitigated by the COVID-19 severity

Conference Presentations

120th American Political Science Association Annual Meeting (APSA 2024), Philadelphia 09/2024
- Selected to present paper *How Generative AI Debunks Misinformation and Empower Governance*
- Selected to include paper *Diverse Governance Strategies to Conspiracy Theories in China*

16th ACM Web Science Conference (ACM WebSci24), Stuttgart 05/2024
- Selected to present paper *How Generative AI Debunks Misinformation and Empower Governance*

19th Chinese Internet Research Conference (CIRC 2022), Hong Kong 09/2022
- Selected to present paper *Cross-platform Practices of Netreds*

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

7th International Symposium on Quantitative History, Society of Quantitative History 07/2019
- Selected to present paper *Quantifying Fiscal Mobilization in Modern China: A Political Sociology Approach*

Selected Grants and Awards

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

Research Grants

LSE Research and Impact Support Fund (Spotlight Topic AI) - Sole PI	Under Review
Research and Dissertation Grant HK\$ 90,000, Chinese University of Hong Kong (CUHK, Declined) - Sole PI	2022-26
Computational Social Science (CSS) Ph.D. Fellowship HK\$ 210,000, CUHK CSS Laboratory (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

ACM WebSci24 Conference Participation Support Award € 500, Web4Good	04/2024
LSE Ph.D. Studentship £ 170,000, LSE	2022-26
Hong Kong Ph.D. Fellowship HK\$ 1,010,000, Research Grant Council - Highest All-discipline HK Award (Declined)	2022-25
Vice-Chancellor's Ph.D. Scholarship HK\$ 80,000, CUHK - Highest All-discipline CUHK Award (Declined)	2022-26
Ph.D. Assistantship US\$ 96,500, University of Illinois Urbana-Champaign (Declined)	2022-27
Research Scholarship S\$ 117,600, Nanyang Technological University (Declined)	2022-26
Postgraduate Studentship HK\$ 430,000, HKUST	2020-22
Dean's Award, HKUST - 3 Places, Top 5%	11/2020

Collaborations and Services

Principal Investigator: SICSS Research Grant; LSE Research and Impact Support Fund

Research Collaboration: LSE; Harvard University; HKUST; Free University of Berlin

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: Nature's *Humanities and Social Sciences Communications*
  74th Annual International Communication Association Conference (ICA 2024), with Divisions:
  Communication & Technology, Human-Machine Communication, Visual Communication Studies
  10th International Conference for Computational Social Science (IC2S2 2024), University of Pennsylvania

Mentoring: American Political Science Association (APSA)

Methods and Skills

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

Programming and Softwares: R, Python, Cloud Computing (e.g., Google Vision), Gephi, STATA, LaTeX

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