

# Chuyao (Julian) WANG

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

Computational Social Science; Human-Computer Interaction; Artificial Intelligence and Society; Public Opinion

## 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 (Quantitative 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 political communication journal in the Social Science Citation Index (Q2)
- Led as the 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

**The Public 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

**Contextualizing 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
- Contextualize 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
- Found that ideological hostility in visual depiction did exist but could be mitigated by the COVID-19 severity

## Conference Presentations

<b>Presenter, 120th American Political Science Association Annual Meeting, Philadelphia</b>	09/2024
<ul style="list-style-type: none"> <li>• Selected to present my paper "How Generative AI Debunks Misinformation and Empower Governance"</li> <li>• Selected to include my collaborative paper "Diverse Governance Strategies to Conspiracy Theories in China"</li> </ul>	
<b>Presenter, 19th Chinese Internet Research Conference, Hong Kong</b>	09/2022
<ul style="list-style-type: none"> <li>• Presented my collaborative paper "Cross-platform Practices of Netreds"</li> </ul>	
<b>Participant, 4th Summer Institute in Computational Social Science (SICSS), Hong Kong</b>	06/2021
<ul style="list-style-type: none"> <li>• Selected to present my paper "0.4 Million Images Shows that Ideological Hostility is Eased in Crisis"</li> <li>• Presented my project "How Visual Misinformation Fuels Polarization on Vaccination", and secured funding</li> </ul>	
<b>Presenter, 7th International Symposium on Quantitative History, Society of Quantitative History</b>	07/2019
<ul style="list-style-type: none"> <li>• Selected to present my paper "Fiscal Mobilization in Modern China: A Quantitative Political Sociology Approach"</li> </ul>	

### 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 (as the only Principal Investigator)	Under Review
Research and Dissertation Grant HK\$ 90,000, Chinese University of Hong Kong (CUHK, Declined)	2022-26
Computational Social Science Ph.D. Fellowship HK\$ 210,000, CUHK (Declined)	2022-26
SICSS Research Grant, Social Science Research Council, USA (as the only Principal Investigator)	09/2021
Dean's Award (3 Places, Top 5%), HKUST	11/2020

#### **Academic Awards**

LSE Ph.D. Studentship £ 170,000, LSE	2022-26
Hong Kong Ph.D. Fellowship HK\$ 1,010,000, Hong Kong Research Grant Council (Declined)	2022-25
Vice-Chancellor's Ph.D. Scholarship HK\$ 80,000, CUHK (Declined)	2022-26
Ph.D. Assistantship US\$ 96,500, University of Illinois Urbana-Champaign (Declined)	2022-2027
Research Scholarship S\$ 117,600, Nanyang Technological University (Declined)	2022-26
Postgraduate Studentship HK\$ 430,000, HKUST	2020-22

### 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 SOSCI470 - Political and Economic Development of Modern Japan (Twice)  
 HKUST Undergraduate SOSCI190 - 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)

### Methods and Skills

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

**Reviewer:** R, Python, Cloud Computing (e.g., Google Vision), Gephi, STATA, L<sup>A</sup>T<sub>E</sub>X

**Language:** English (Advanced, IELTS 8.0, C1), Chinese (Native)