

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

**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>120th American Political Science Association Annual Meeting (APSA 2024), Philadelphia</b>   | 09/2024 |
| <ul style="list-style-type: none"><li>• Selected to present paper <i>How Generative AI Debunks Misinformation and Empower Governance</i></li><li>• Selected to include my collaborative paper <i>Diverse Governance Strategies to Conspiracy Theories in China</i></li></ul>   |         |
| <b>19th Chinese Internet Research Conference, Hong Kong</b>  | 09/2022 |
| <ul style="list-style-type: none"><li>• Presented my collaborative paper <i>Cross-platform Practices of Netreds</i></li></ul>  |         |
| <b>4th Summer Institute in Computational Social Science (SICSS 2021), Hong Kong</b>  | 06/2021 |
| <ul style="list-style-type: none"><li>• Selected to present my paper <i>400,000 Images Shows that Ideological Hostility is Eased in Crisis</i> (acceptance rate <math>\approx 20\%</math>)</li><li>• Led a project that won the only SICSS Research Grant in the Hong Kong site, serving as the sole Principal Investigator (PI)</li></ul> |         |
| <b>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 <i>Quantifying Fiscal Mobilization in Modern China: A Political Sociology Approach</i></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 (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**

|   |         |
|---|---------|
| LSE Ph.D. Studentship £ 170,000, LSE  | 2022-26 |
| Hong Kong Ph.D. Fellowship HK\$ 1,010,000, Research Grant Council - Top 300 across all disciplines (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)                           | 2022-27 |
| 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; University of California, Davis

**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

## 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