

# Chuyao (Julian) WANG

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Public Opinion; Political Communication; Computational Social Science; Human-computer Interaction; LLM 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

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

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

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)

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 – 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

Exchange Study: 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

Revise & Resubmit

- 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 top political communication journal
- Led as the co-1st Author; explored how conversations with the generative AI, ChatGPT, enhance public deliberation
- Combined visual-textual analysis with machine learning and a personalized conversational survey experiment

## Selected Working Papers

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

In Progress

- Led as the 1st Author; examined the impact of disclosing AI authorship of public advertisement on key social debates
- Designed and conducted a 2×2×2 digital survey experiment among a nationally representative sample of 3,800

### 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
- Contextualizing institutional logic into a fine-tuned LLM in government institutions, target journal: *Public Administration*

### 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

### 110th National Communication Association Annual Convention (NCA 2024), New Orleans

11/2024

- Selected to include paper *Diverse Governance Strategies to Conspiracy Theories in China*

### 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 present paper *Diverse Governance Strategies to Conspiracy Theories in China*

### 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 Workshop on Computational Linguistics for the Political and Social Sciences (CPSS 2024)**, Vienna [Non-attendance] 09/2024
- 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 *Bridging Social Divisions with AI*
- 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)**, Initiated by Duke University 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**

- 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 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
- 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 Lab (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
- Vice-Chancellor's Ph.D. Scholarship HK\$ 80,000, CUHK (Highest All-Discipline 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
- 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:** Nature's *Humanities and Social Sciences Communications*

- 74th Annual International Communication Association Conference (ICA 2024)
- 110th Annual Convention of National Communication Association, USA (NCA 2024)
- 10th International Conference for Computational Social Science (IC2S2 2024)

**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, ~~Excel~~

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