Chuyao (Julian) WANG

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

Supervisor: 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, 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, 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 studied three cases
- 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

Working Papers

Enhancing Public Deliberation with Generative AI Using Conversational Survey Experiments   In Progress

- Led as the 1st Author; explored how dialogues with ChatGPT enhance public deliberation on the carbon tax
- Devised questions from the literature, combined machine learning, and a digital survey experiment
- Conditionally accepted to a political communication journal in the Social Science Citation Index (Q2)

How to Apply AI to Persuade People for Social Good: Evidence from a Survey Experiment   In Progress

- Led as the 1st Author; examined how generative AI helps to publicize public policies for social good
- Designed and conducted a 2×2 digital survey experiment among a nationally representative sample of 2,000

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
- Presented at the 4th Summer Institute in Computational Social Science initiated by Princeton University

Conference Presentations

Presenter, 19th Chinese Internet Research Conference, Hong Kong   09/2022

- Presented my working paper and data analysis with Dr. Weiyu ZHANG "Cross-platform Practices of Netreds"

Participant, 4th Summer Institute in Computational Social Science (SICSS), Princeton University   06/2021

- Presented my working paper "0.4 Million Images Shows that Ideological Hostility Can Be Eased in Crisis"
- Presented my research project "How Visual Misinformation Stimulates Political Polarization over Vaccine"

Presenter, 7th International Symposium on Quantitative History, Society of Quantitative History   07/2019
- Presented my working paper "Fiscal Mobilization in Modern China: A Quantitative Estimation"

Research Experiences

Research Intern, CivicTech Lab, Dept. of Communications and New Media, NUS   08/2021 – 08/2022
- Conducted content analysis in a coauthored paper on civic technology submitted to *ACM Computing Surveys*
- Explored research questions, collected data using automated methods, and assisted in research design

Project Leader and **Principal Investigator, SICSS**   06/2021 – 06/2022
- Led the collaborative project "How Visual Misinformation Stimulates Political Polarization over Vaccine"
- Devised questions, conducted visual sentiment analysis, and revised the draft with feedback
- Received a Research Grant from the Social Science Research Council (SSRC) as the Principal Investigator

Research Assistant, Dept. of Communication, University of California, Davis   11/2021 – 06/2022
- Researched visual and textual memes and conspiracy theories during and beyond COVID-19
- Devised and optimized automated methods to investigate 1,200,000 visual and textual data

Research Intern, Dept. of Global CBP, ByteDance Ltd.   06/2020 – 09/2020
- Devised standardized questionnaire with Radford / Levels, undertook consultancy programs on compensation
- Implement Menta to clear data, analyze data with functions, and visualize data-driven insights for peer reviews

Selected Grants and Honors

Under Review: LSE Research and Impact Support Fund, London School of Economics and Political Science (LSE)
    Project: Enhancing Public Deliberation with Generative AI (as the only Principal Investigator)   04/2024
Scholarships and Grants Received: **US$ 1,050,000** = £ 858,000 = HK$ 8,210,000
    LSE Ph.D. Studentship £ 170,000, LSE   2022-26
    Hong Kong Ph.D. Fellowship HK$ 1,010,000, Research Grant Council (Declined)   2022-25
    Vice-Chancellor's Ph.D. Scholarship HK$ 80,000, Chinese University of Hong Kong (CUHK, Declined) 2022-26
    CUHK Computational Social Science Ph.D. Fellowship HK$ 210,000, CUHK (Declined)   2022-26
    Ph.D. Assistantship US$ 96,500, University of Illinois Urbana-Champaign (Declined)   2022-27
    NTU Research Scholarship S$ 117,600, Nanyang Technological University (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%), Hong Kong University of Science and Technology (HKUST)   11/2020
    Postgraduate Studentship HK$ 430,000, HKUST   2020-22

Service

    Teaching: MY464 - Introduction to Quantitative Analysis for Media and Communications (LSE Graduate)
        SOSC1470 - Political and Economic Development of Modern Japan (HKUST Undergraduate, Twice)
        SOSC1190 - China and the World (HKUST Undergraduate, Twice)
    Reviewing: Nature's *Humanities and Social Sciences Communications* [IF: 3.5]
        74th Annual International Communication Association Conference (ICA 2024), with Divisions:
            Communication & Technology, Human-Machine Communication, Visual Communication Studies

Methods and Skills

    Research Methods: Machine Learning, Survey Experiment, Regression, Econometrics, Network Modeling
    Programming and Software: R, Python, Cloud Computing (e.g., OpenAI, Google Vision), Gephi, STATA
    Language: English (Advanced, IELTS 8.0, C1), Chinese (Native)