

Chuyao (Julian) WANG

LSE Email C.Wang85@lse.ac.uk

Website wangchuyao.com

Interests: Computational Social Science; Political Communication; Human-Computer Interaction; Public Opinion

Education

London School of Economics and Political Science (LSE)

Ph.D. in Social Research Methods (Computational Social Science)

09/2022 – 07/2026

Supervisors: Prof. Patrick Sturgis F.B.A. (Survey Expert), Dr. Blake Miller (Computational Social Scientist)

Award: LSE Ph.D. Studentship £170,000

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, Python and R Programming, Econometrics, Research Design

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)

Working Papers

How Generative AI Produces Multimodal Information to Support Governance

In Progress

- Led as the 1st Author; pioneered to explore how ChatGPT sets the public agenda of climate change policies
- Devised questions from the literature, combined machine learning, and a digital survey experiment
- Accepted to a journal in the Social Science Citation Index (Q2) and submitted to the ICA Annual Conference

AI May Persuade People for Social Good: Evidence from a Survey Experiment

In Progress

- Led as the 1st Author; examined how generative AI helps to publicize the harm of Vaping
- Designed and Conducted a 2×3 digital survey experiment among a 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

A Review of Research on Civic Technology: Definitions, Theories, History and Insights

Under Revision

- Acted as Co-author; evaluated the socioeconomic implications of Internet usage
- Devised standardized evaluation protocols, conducted content analysis and topic modeling on 7000+ articles

How Computer-Mediated Communication Improves Mental Health: A Systematic Review

Under Revision

- Led as Co-1st Author; formed reproducible procedure to structure a research guide
- Implemented the PRISMA assessment, submitting to *Social Science & Medicine* (SSCI Q1, IF: 4.634)

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 Honors and Awards

Scholarships and Grants Combined: Around **US\$ 1,000,000** (HK\$ 7,830,000)

LSE Ph.D. Studentship £ 170,000, LSE	09/2022
Hong Kong Ph.D. Fellowship HK\$1,010,000, Research Grant Council	09/2022
Computational Social Science Ph.D. Fellowship HK\$210,000, Chinese University of Hong Kong	09/2022
SICSS Research Grant, Social Science Research Council	09/2021
Postgraduate Studentship HK\$ 430,000, HKUST	09/2020
Dean's Award (3 Places, Top 5%), HKUST	11/2020

Miscellaneous

Research Methods: Machine Learning, Regression, Survey Experiment, Econometrics, Network Analysis

Programming Skills: R, Python, Cloud Computing (e.g., Google Vision), STATA, SPSS, Microsoft Office Suite

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

Teaching: MY464 - Introduction to Quantitative Analysis (LSE Graduate)

SOSC1470 - Political and Economic Development of Modern Japan (HKUST Undergraduate, Twice)

SOSC1190 - China and the World (HKUST Undergraduate, Twice)