

# Chuyao (Julian) WANG

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## PROFILE

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- A prospective LSE Ph.D., mixed background (data science and social science) and interdisciplinary research
- Computational, quantitative, and qualitative method training, and analytical experiences using R and Python
- Demonstrated communication and collaboration skills in multi-cultural work and intellectual environments

## EDUCATION

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### London School of Economics and Political Science (LSE)

**Doctor of Philosophy in Social Research Methods (Applied Data Science)** Sept. 2022 - July 2026

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

Award: LSE Ph.D. Studentship £160,000 (≈ US\$ 200,000)

Training: Applied Machine Learning, Data Science, Causal Inference, Survey Methodology

### Hong Kong University of Science and Technology (HKUST)

**Master of Philosophy in Social Science (Social Statistics), GPA 3.74 / 4.3 (Top 3)** Sept. 2020 - June 2022

Supervisor: Dr. Han Zhang (Computational Social Scientist)

Award: Postgraduate Studentship HK\$ 430,000 (≈ US\$ 55,000)

Training: Computational Social Science, Python and R Programming, Econometrics, Research Design

**Master of Science in Global China Studies, GPA 3.96 / 4.3 (Top 3)** Sept. 2019 - June 2020

Training: Statistical Inference, Comparative Politics, Social Stratification, Social Protest

### Shandong University (SDU)

**Bachelor of Art in History, GPA 88.2 / 100** Sept. 2019 - June 2022

Exchanges: UCLA (GPA 4.00 / 4), HKU (GPA 3.70 / 4.3), ECNU (GPA 3.75 / 4)

Training: Research Methods, Introductory Statistics, Literature Digest, Economic History

## WORKING PAPERS

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**Will Ideological Hostility Intensify with Public Crisis? Evidence from 400,000 News Images** Under Revision

- Prospective first author supervised by Prof. H. Zhang; studied media ideological hostility under COVID-19
- Framed questions, analyzed 400,000 images with deep learning, and conducted regression analyses
- Found that ideological hostility in visual depiction did exist but could be mitigated with 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** Submitted

- Prospective co-author with Prof. W. Zhang, Prof. S. Perrault, and G. Lim; evaluated social implications of ICT
- Devised standardized evaluation protocols, conducted content analysis and topic modeling
- Revised the co-authored paper and submitted it to *ACM Computing Surveys* (IF: 7.990)

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

- Prospective co-first author with T. Cheung; formed reproducible procedure to structure a research guide
- Implemented the PRISMA and quality assessment, submitting to *Social Science & Medicine* (IF: 4.634)

**Can Political Idolization Mobilize and Radicalize Online Nationalistic Expedition?** In Progress

- Prospective first author; framed questions, applied regression and sentiment analysis on 40,000 tweets
- Found that hegemonic discourses more strongly predict mobilization and radicalization than idolization ones

**You Are What You Follow: Social Selection in Political Communities on Bilibili** In Progress

- Prospective co-first author with H. Liang; framed questions, modeled the communities among 110,000 users
- Found that nationalists tend to idolize the country, while the communists are more coherent but isolated

## CONFERENCE PRESENTATIONS

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**Participant, 4th Summer Institute in Computational Social Science (SICSS), Princeton U** June 2021

- Selected as one of 3 pre-Ph.D. attendees amid 600+ scholars globally (acceptance rate < 20%)
- Presented my working paper "0.4 Million Images Shows that Ideological Hostility Can Be Eased in Crisis"
- Presented my research project "Will Multimodal Misinformation on COVID-19 Stimulate Political Polarization?"

**Presenter, 7th International Symposium on Quantitative History, HKU & Tsinghua U & Renmin U** July 2019

- Presented my working paper "Fiscal Mobilization in Modern China: A Quantitative Estimation"
- Found that the Communists' superior communication with local communities led to its war success

**Presenter, 12th Community Conference of Politics and International Studies, Tsinghua U** July 2019

- Selected as one of few undergraduates among 800+ community members for round-table discussions
- Presented my working paper "State Capacity and Regime Competition: Evidence from Chinese Civil War"

## RESEARCH EXPERIENCES

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**Research Assistant, Dept. of Communication, UC Davis (with Stanford U)** Nov. 2021 - May 2022

- Researching multimodal misinformation and conspiracy theories during COVID-19
- Devising and optimizing automated methods to address multimodal data

**Research Intern, CivicTech Lab, Dept. of Communications and New Media, NUS** Aug. 2021 - March 2022

- Conducting content analysis in a coauthored paper on civic technology submitted to *ACM Computing Surveys*
- Exploring research questions, collecting data using automated methods, and assisting research design

**Project Leader and Principal Investigator, SICSS** June 2021 - Now

- Leading the collaborative project *Will Multimodal Politicization of COVID-19 Stimulate Political Polarization?*
- Devising questions, conducting visual sentiment analysis, and revising the draft with feedback
- Received SICSS Research Grant by Social Science Research Council (SSRC) as the Principal Investigator

**Research Intern, Dept. of Global CBP, ByteDance Ltd.** May 2020 - Aug. 2020

- Led an intern group and coordinate with digital tools, effectively engaged in cross-cultural collaboration
- 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

**Intern Analyst, National High-Tech Industry Innovation Center** Feb. 2020 - May 2020

- Conducted Digital Economy research to be accommodated in 14th Guangdong Provincial Five-Year-Plan
- Collected data from Wind, databases, and state agencies, presented critical insights with Microsoft Suite
- Interviewed 20+ experts, officials, and scholars, formed analytical reports reviewed by major city administrators

**Research Assistant, Division of Social Science, HKUST** Nov. 2019 - April 2020

- Assisted literature review and evidence evaluation in project *Community and Capitalist Governance in Japan*

- Found that communities served as grass-root institutions conducive to socio-economic development

## EXTRA-CURRICULUM ACTIVITIES

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**Austrian Prince Metternich, Model Conference for the Congress of Vienna** March 2019

- Coordinated negotiations among great powers while gaining core Austrian interests, awarded *Best Delegate*

**Delegate of Sweden, 15th China Model United Nations Conference** Nov. 2018

- Researched civic aviation regulations and worked for its improvements, awarded *Honorable Mention*

**Delegate of Great Britain, 2018 Asian International Model United Nations Conference** April 2018

- Led the framing of resolutions to realize Sustainable Development Goals, awarded *Best Position Paper*

**Investigator, Center of Investigation, Shandong University** Oct. 2016 - May 2017

- Translated students' demands into solid proposals, worked with staff to improve university services □
- Interviewed 50+ stakeholders, systematically collected 2000+ data, and produced impactful insights

## MISCELLANEOUS

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Research Methods: Machine Learning, Regression, Econometrics, Content Analysis, Close Reading

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

Honors: LSE – Ph.D. Studentship £160,000; HKUST - Postgraduate Studentship HK\$430,000, Dean's Award;

SDU - Distinction for Dissertation, University Scholarship for Overseas Study (UCLA)

Social Science Research Council - SICSS Research Grant

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

Memberships: Student Member of National Communication Association; Graduate Student Member of IEEE

Hobbies: Hiking; Socially significant music; Optimizing the socioeconomic parameters in a strategy simulator