

Chuyao (Julian) WANG

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EDUCATION

The Hong Kong University of Science and Technology (HKUST)

Master of Philosophy in Social Science, GPA 3.74 / 4.3

Sept. 2020 - June 2022 (Expected)

Supervisor: Prof. Han Zhang (Computational Social Scientist, Ph.D. Princeton)

Highlight: Postgraduate Studentship HK\$ 430,000 (4 Places, Acceptance Rate < 5%)

Key Training: Computational Social Science, Econometric Approaches, Research Design, Network Analysis

Master of Science in Global China Studies, GPA 3.96 / 4.3

Sept. 2019 - June 2020

Highlight: Dean's Award Graduate (3 Places, Top 5%), HKUST-SDU Dual Degree Program

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

Shandong University (SDU)

Bachelor of Art in History, GPA 88.2 / 100

Sept. 2016 - June 2020

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

Highlight: Distinction for Dissertation, University Scholarship for Overseas Study (UCLA)

WORKING PAPERS

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 until its submission 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 young nationalists tend to idolize the country, while Communists are more coherent but isolated

CONFERENCE PRESENTATIONS

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 Chinese Civil War: 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

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

- Contributing to research on multimodal misinformation and conspiracy theories across universities
- Devising and optimizing automated methods to address multimodal data; other collaborations are expected

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 - Hong Kong Jun. 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 feedbacks
- Received SICSS Research Grant by Social Science Research Council (USA) as the Principal Investigator

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

- Led a group of seven interns and contributed to cross-cultural collaborations between branches
- Designed and implemented mixed-method research to review TikTok compensation globally

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

MISCELLANEOUS

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

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

Language: IELTS Academic 8.0 (all sub-score ≥ 7.0); Native Mandarin

Dataset: 400,000 media news images (1,100 labeled), 110,000 Bilibili community members

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

Funding: SICSS Research Grant (by SSRC, as Principal Investigator); Postgraduate Studentship (HK\$430,000)