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Department of Sociology

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EDUCATION

The University of Chicago	Chicago, IL
Ph.D., Sociology	Expected: 2025
<i>Certificate in Computational Social Sciences</i>	2022
<i>Certificate in Advanced Quantitative Method</i>	2021
M.A., Sociology	2021
Tsinghua University	Beijing , China
M.A., Sociology	2019
B.A., Sociology	2016

RESEARCH INTERESTS AND SKILLS

Research Interest: Science, Technology and Innovation; Computational Social Science; Organizational Analysis; Social Networks; Entrepreneurship

Coding: Python, R, STATA

Statistic Software: SPSS (AMOS), SAS, ArcGIS, Geoda, Eviews

Other Research Tools: Mechanical Turk; Zooniverse

Language: Chinese (native), English (professional), French (DELF A2)

PUBLICATIONS

Ren, J., Li, X., & **Cao, L.** (2023). Manager mobility and private equity syndications from the perspective of coupling networks: evidence from China's private equity industry. *Journal of Social Computing*, 4(2): 150-167.

Cao, L., Chen, Z., & Evans, J. (2022). Destructive Creation, Creative Destruction, and the Paradox of Innovation Science. *Sociology Compass*, 16(11).

Zheng, L., **Cao, L.**, Ren, J., Li, X., Yin, X., & Chen, J. (2022). How venture capital firms choose syndication partners: the moderating effects of institutional uncertainty and investment preference, *Management and Organization Review*, 18(3), 463-490.

Cao, L., & Ren, J. (2022). Machine learning shows that the Covid-19 pandemic is impacting U.S. public companies unequally by changing risk structures, *PLOS ONE*.

Zheng, L., He, X., **Cao, L.**, & Xu, H. (2018). Making modernity in China: employment and entrepreneurship among the new generation of peasant workers. *International Journal of Japanese Sociology*, 27(1), 26-40.

Book Review/ Book Chapters

Cao, L., & Mao, H. (2023). Book Review for *Atlas of AI: Power, Politics, and the Planetary Costs of Artificial Intelligence*. *Journal of Intelligent Society*, forthcoming. [In Chinese]

WORKING PAPERS

Cao, L., Chen, Z., & Evans, J. Higher-Order Invention and New Venture Success.

Cao, L., Pan, R., & Evans, J. The Geometry of Perspective: Predicting Personal Innovation with Dynamic Models of Subjectivity. *Data Analysis*.

Cao, L., & Evans, J. Depth versus Breadth in the Hierarchical Recombination of Technology. *Drafting*.

Zhong, Q., & **Cao, L.** Comparing Social Learning Strategies in Collective Search: Simulation and Empirical Evidence in Patent Data. *Data Analysis*.

CONFERENCES AND INVITED TALKS

Academic Conferences

“The Geometry of Perspective: Predicting Personal Innovation with Dynamic Models of Subjectivity”

118th ASA Annual Meeting, Philadelphia, PA Aug 2023

“Depth versus Breadth in the Hierarchical Recombination of Technology”

118th ASA Annual Meeting, Philadelphia, PA Aug 2023

2nd International Conference on Science of Science and Innovation, Chicago, IL Jun 2023

“Comparing Social Learning Strategies in Collective Search: Simulation and Empirical Evidence in Technology and Culture Data”

9th International Conference on Computational Social Science, Copenhagen, DK Jul 2023

“Higher-Order Invention and New Venture Success”

116th ASA Annual Meeting, Virtual Aug 2021

7th International Conference on Computational Social Science, Virtual Jul 2021

8th International Conference on Computational Social Science, Chicago, IL Jul 2022

1st International Conference on Science of Science and Innovation, Washington, DC Jun 2022

83rd AOM Annual Meeting, Boston, MA Aug 2023

“Choice of Co-investment Partners of Chinese Venture Capital Firms”

ICSA Annual Conference, Princeton, NJ Aug 2018

Invited Talks

“Modelling Social Contexts and Economic Landscape by Text Analysis”

ProQuest’s 3rd Annual Fall Faculty Webinar Oct 2021

“Higher-Order Invention and New Venture Success”

Santa Fe Institute Graduate Workshop in Computational Social Science Jun 2022

University of Pittsburgh, School of Computing and Information Nov 2022

“The Geometry of Perspective: Predicting Personal Innovation with Dynamic Models of Subjectivity”

The University of Chicago, Computational Social Science Workshop

2023

FELLOWSHIP, AWARDS AND HONORS

The University of Chicago

- Urban Doctoral Fellow: Mansueto Institute for Urban Innovation (\$1000) 2023 - 2024
- Sociology Department Travel Grant (\$1000) 2023
- Charles Henderson Research Fund (\$4000) 2023
- Institute for Humane Studies Grant (\$500) 2022
- UChicago Graduate Council Research & Personal Development Fund (\$600) 2022
- Wing C. Chan and Angelina H. Li Pre-Dissertation Research Grant (\$1650) 2022
- UChicago Graduate Fellowship for Ph.D. students 2019-2026

Tsinghua University

- Chinese National Scholarship for Graduate Students (top 1%) (¥20000) 2018
- Tsinghua-Qingdao Data Science Institute Research Grant (€ 4000) 2018
- Tsinghua Comprehensive Excellence Scholarship (¥ 5000) 2016

TEACHING EXPERIENCE

Teaching Assistant

Sociology Department, The University of Chicago

- Thinking with Deep Learning for Complex Social and Cultural Data Analysis 2021-2022
- Statistical Methods of Research 2022

Economics Department, The University of Chicago

- Innovators 2020

Sociology Department, Tsinghua University

- Financial Sociology 2019
- Social Network Analysis 2018
- Big Data Analytics 2018

Schwarzman College, Tsinghua University

- China's Rise in Comparative Perspective 2018

OTHER TRAINING

Summer School/Workshop/Reading Camp

Carnegie School of Organizational Learning Summer School 2023

- *Virtual Session*

HBS Summer School in Computational Organization Science 2023

- *Harvard Business School, Boston*

Santa Fe Institute Graduate Workshop in Computational Social Science (GWCSS) 2022

- *Santa Fe Institute, New Mexico*

- *Simulation project: <http://jhmsfi.com/econ/homework20/4/index.html>*
Swarma-Kaifeng Foundation Reading Camp for Complex System 2020
- *Virtual session*
Workshop on Artificial and Computational Social Sciences 2017
- *Sun Yat-sen University, Guangzhou*

Online Courses and Tutorials

Coursera: *Applied Data Science with Python Specialization, Deep Learning Specialization*
Complexity Explorer: *Introduction to Complexity, Introduction to Renormalization*

PROFESSIONAL SERVICES

Editorial Work

- American Journal of Sociology Associate Editor 2022-2023
- American Journal of Sociology Manuscript Board Member 2021-2022

Reviewer

- *Journal:* American Journal of Sociology, Chinese Journal of Sociology, Technovation, Journal of Social Computing
- *Conference:*
2022: AOM Annual Meeting, SMS Annual Conference, IC2S2
2023: AOM Annual Meeting, IC2S2

Academic Translator and proofreader

- *Social Science Academic Press, Beijing*
Social Network Analysis: Methods and Examples (Sage) 2019
The Sense of Dissonance: Accounts of Worth in Economic Life (Princeton) Ongoing

Workshop/Conference Organizer

- UChicago SSD B.A. thesis award committee 2022-2023
- Tsinghua social science seminar discussant 2023
- IC2S2 co-organizer 2022
- Swarma computational social science reading group moderator 2022