

# LIKUN CAO 曹立坤

Department of Sociology  
Division of the Social Sciences, The University of Chicago, the United States.  
+1 8722120599 | e: lkcao@uchicago.edu  
Personal Website: <https://lkcao.github.io>

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## EDUCATION

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<b>The University of Chicago</b>	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
<b>Tsinghua University</b>	Beijing, China
M.A., Sociology	2019
B.A., Sociology	2016

## PROFILES

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**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

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### Combinatorial Innovation in Science, Technology and Organizations

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

### Co-Evolution of Knowledge and Organizational Networks

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.

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.

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 Chapter/Other Publications in Computational Social Science**

**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]

**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*.

### **WORKING PAPERS**

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

**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**

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#### **Academic Conferences**

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

118<sup>th</sup> ASA Annual Meeting Aug 2023

*“Depth versus Breadth in the Hierarchical Recombination of Technology”*

118<sup>th</sup> ASA Annual Meeting Aug 2023

2<sup>nd</sup> International Conference on the Science of Science & Innovation Jun 2023

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

9<sup>th</sup> International Conference on Computational Social Science Jul 2023

*“Higher-Order Invention and New Venture Success”*

116<sup>th</sup> ASA Annual Meeting Aug 2021

7<sup>th</sup> International Conference on Computational Social Science Jul 2021

8<sup>th</sup> International Conference on Computational Social Science Jul 2022

1<sup>st</sup> International Conference on the Science of Science & Innovation Jun 2022

83<sup>rd</sup> Annual Meeting of the Academy of Management Aug 2023

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

ICSA Annual Conference of the International Chinese Sociology Association Aug 2018

#### **Invited Talks**

*“Modelling Social Contexts and Economic Landscape by Text Analysis”*

ProQuest’s 3<sup>rd</sup> Annual Fall Faculty Webinar Oct 2021

*“Higher-Order Invention and New Venture Success”*

Santa Fe Institute Graduate Workshop in Computational Social Science Jun 2022

## FELLOWSHIP, AWARDS AND HONORS

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### The University of Chicago

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

### Tsinghua University

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

## TEACHING EXPERIENCE

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### The University of Chicago (Teaching Assistant) 2020-2022

Sociology Department: *Thinking with Deep Learning for Complex Social and Cultural Data Analysis, Statistical Methods of Research*  
 Department of Economics: *Innovators*

### Tsinghua University (Teaching Assistant) 2016-2019

Sociology Department: *Social Network Analysis, Big Data Analytics, Financial Sociology*  
 Schwarzman College: *China's Rise in Comparative Perspective*

## OTHER TRAINING

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### 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

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### 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

*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

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