

# 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>

UPDATED JULY 2024

## EDUCATION

---

<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

## RESEARCH INTERESTS AND SKILLS

---

**Research Interest:** Computational Social Science; Science, Technology and Innovation; Organization; Social Networks

**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

---

### Peer-Reviewed Journals

- [1] **Cao, L.**, Chen, Z., & Evans, J. (2022). Destructive Creation, Creative Destruction, and the Paradox of Innovation Science. *Sociology Compass*, 16(11).
- [2] 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.

### Book Review and Book Chapters

- [3] **Cao, L.**, & Mao, H. (2023). Book Review for *Atlas of AI: Power, Politics, and the Planetary Costs of Artificial Intelligence*. *Journal of Intelligent Society*, 2(4): 192-206. [In Chinese]

## UNDER REVIEW

---

- Cao, L.,** Chen, Z., & Evans, J. Modularity, Higher-Order Invention and New Venture Success. *Rej & R at Research Policy*.
- Cao, L.,** & Evans, J. Hyperbolic Embedding as a Machine Learning Representation for Knowledge System. *Rej & R at SMJ*.
- Cao, L,** Zhang, L. & Evans, J. Spinning a Web in a Bottle: Networks, Organizational Structure and Career Success. *R&R at Organization Science*.

## WORKING PAPERS

---

- Cao, L.,** Pan, R., & Evans, J. The Geometry of Perspective: Predicting Personal Innovation with Dynamic Models of Subjectivity. *Drafting*.
- Aceves, P., Chambers C., Alves, M., **Cao, L.** & Evans, J. Middle-Status Myopia. *Drafting*.
- Zhong, Q., & **Cao, L.** Comparing Social Learning Strategies in Collective Search: Simulation and Empirical Evidence in Patent Data. *Data Analysis*.

## FELLOWSHIP, AWARDS AND HONORS

---

### The University of Chicago

UChicago Charles Henderson Research Fund-Final Round (\$2000)	2024
Institute for Humane Studies Graduate Student Fellowship (\$5000)	2024
Summer Residency Award at UChicago Beijing Center (\$2000)	2024
Urban Doctoral Fellow: Mansueto Institute for Urban Innovation (\$1000)	2023 -2024
UChicago Charles Henderson Research Fund (\$4000)	2023
Wing C. Chan and Angelina H. Li Pre-Dissertation Research Grant (\$1650)	2022
Various Travel Grants from SSD and UChicago Grad Council	2019-2026
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

## CONFERENCES AND INVITED TALKS

---

### Academic Conferences

- “*The Geometry of Perspective: Predicting Personal Innovation with Dynamic Models of Subjectivity*”  
118<sup>th</sup> ASA Annual Meeting, Philadelphia, PA Aug 2023
- “*Hyperbolic Embedding as a Machine Learning Representation for Knowledge Systems*”  
3<sup>rd</sup> International Conference on Science of Science and Innovation, Washington, DC Jun 2024  
84<sup>th</sup> AOM Annual Meeting, Chicago, IL Aug 2024  
10<sup>th</sup> International Conference on Computational Social Science, Philadelphia, PA July 2024  
118<sup>th</sup> ASA Annual Meeting, Philadelphia, PA Aug 2023  
2<sup>nd</sup> International Conference on Science of Science and Innovation, Chicago, IL Jun 2023
- “*Modularity, Higher-Order Invention and New Venture Success*”

83 <sup>rd</sup> AOM Annual Meeting, Boston, MA	Aug 2023
1 <sup>st</sup> International Conference on Science of Science and Innovation, Washington, DC	Jun 2022
8 <sup>th</sup> International Conference on Computational Social Science, Chicago, IL	Jul 2022
116 <sup>th</sup> ASA Annual Meeting, Virtual	Aug 2021
7 <sup>th</sup> International Conference on Computational Social Science, Virtual	Jul 2021
<i>“Comparing Social Learning Strategies in Collective Search: Simulation and Empirical Evidence in Technology and Culture Data”</i>	
74 <sup>th</sup> Annual Conference of the International Communication Association, AUS	June 2024
16 <sup>th</sup> Annual INAS Conference, DE	May 2024
9 <sup>th</sup> International Conference on Computational Social Science, Copenhagen, DK	Jul 2023
<i>“Choice of Co-investment Partners of Chinese Venture Capital Firms”</i>	
ICSA Annual Conference, Princeton, NJ	Aug 2018

### Invited Talks

<i>“Modelling Social Contexts and Economic Landscape by Text Analysis”</i>	
ProQuest’s 3 <sup>rd</sup> Annual Fall Faculty Webinar	Oct 2021
<i>“Higher-Order Invention and New Venture Success”</i>	
Santa Fe Institute Graduate Workshop in Computational Social Science	Jun 2022
University of Pittsburgh, School of Computing and Information	Nov 2022
<i>“The Geometry of Perspective: Predicting Personal Innovation with Dynamic Models of Subjectivity”</i>	
The University of Chicago, Computational Social Science Workshop	Dec 2023

### TEACHING EXPERIENCE

#### Teaching Assistant

<i>Sociology Department/MACSS, The University of Chicago</i>	
Computational Content Analysis	2024
Thinking with Deep Learning for Complex Social and Cultural Data Analysis	2021-2022
Statistical Methods of Research	2022
<i>Economics Department, The University of Chicago</i>	
Innovators	2020
<i>Sociology Department, Tsinghua University</i>	
Financial Sociology	2019
Social Network Analysis	2018
Big Data Analytics	2018
<i>Schwarzman College, Tsinghua University</i>	
China’s Rise in Comparative Perspective	2018

### OTHER TRAINING

#### Summer School/Workshop/Reading Camp

The Summer Institutes in Computational Social Science (SICSS Chicago)	2024
Carnegie School of Organizational Learning Summer School	2023
HBS Summer School in Computational Organization Science	2023
Santa Fe Institute Graduate Workshop in Computational Social Science (GWCSS)	2022

Swarma-Kaifeng Foundation Reading Camp for Complex System	2020
Sun Yat-sen Workshop on Artificial and Computational Social Sciences	2017

## 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

### Academic Translator and Proofreader

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

### Reviewer

**Journal:** American Journal of Sociology, Chinese Journal of Sociology, Technovation, Journal of Social Computing, The Journal of Mathematical Sociology, Journal of Computational Social Science, Humanities and Social Sciences Communications  
**Conference:** AOM Annual Meeting, SMS Annual Conference, IC2S2

### Workshop/Conference Organizer

ICSSI Best Student Talk Award Committee	2024
UChicago SSD B.A. thesis award committee	2022-2023
Tsinghua social science seminar discussant	2023
Program committee member for IC2S2	2023
Swarma CSS reading group moderator	2022

## REFERENCES

---

### James Evans

Max Palevsky Professor  
Department of Sociology  
University of Chicago  
Email: [jevans@uchicago.edu](mailto:jevans@uchicago.edu)

### John Padgett

Professor in Political Science  
Dept. of Political Science  
University of Chicago  
Email: [jpadgett@uchicago.edu](mailto:jpadgett@uchicago.edu)

### Elisabeth Clemens

William Rainey Harper Professor  
Department of Sociology  
University of Chicago  
Email: [clemens@uchicago.edu](mailto:clemens@uchicago.edu)

### John Levi Martin

Florence Borchert Bartling Professor  
Department of Sociology  
University of Chicago  
Email: [jlmartin@uchicago.edu](mailto:jlmartin@uchicago.edu)

**Dashun Wang**

Professor of Management & Organizations

Director, Center for Science of Science and Innovation (CSSI)

Kellogg School of Management

Northwestern University

Email: [dashunwang@gmail.com](mailto:dashunwang@gmail.com)