Haochuan Cui

Network Scientist & Computational Social Scientist

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EDUCATION

- Ph.D. in Systems Science, Beijing Normal University, 2023.07 expected
- Visiting Student in Department of Sociology, The University of Chicago, 2019-2023
- B.A. in Mathematics, Anhui University, 2016.07

RESEARCH INTERESTS

My current research focuses on the Science of Science, a new interdisciplinary field uses large data sets to study the mechanisms underlying the doing of science—from the choice of a research problem to career trajectories and progress within a field. my work focus on the formation of knowledge boundaries, and the formation of team, as well as how scholars and their behavior affect the Sci&Tech progress.

REPRESENTATIVE RESEARCH PUBLICATIONS

- [1] Wang, C. J., Yan, L., & Cui, H*. (2023). Unpacking the Essential Tension of Knowledge Recombination: Analyzing the Impact of Knowledge Spanning on Citation Counts and Disruptive Innovation. (Accepted by Journal of *Informetrics,IF 4.373*)
- [2] Cui, H., Zeng, A., Fan, Y., & Di, Z. (2021). Quantifying the impact of a teamwork publication. *Journal of Informetrics*, 15(4), 101217. (*IF 4.373*)
- [3] Cui, H., Zeng, A., Fan, Y., & Di, Z. (2020). Identifying the key reference of a scientific publication. *Journal of Systems Science and Systems Engineering*, 29(4), 429-439. (IF=1.265)

UNDER REVIEW

- [1] Cui, H., & Wang, C. J. (2023). Breaking the Boundaries of Knowledge Space: Analyzing the Knowledge Spanning on the Q&A Website through Word Embeddings. arXiv preprint arXiv:2301.09739. (R&R in *Humanit Soc Sci Commun*)
- [2] Cui, H., Wu, L., & Evans, J. A.* (2022). Aging Scientists and Slowed Advance. arXiv preprint arXiv:2202.04044. (Submitted to Nature)

WORKING PAPER

- [1] Cui, H. & Li, L., decomposed the disruptive index and predict the disruptive direction of science.
- [2] Yan, L., Wang, C. & Cui, H.*, Are disruptive patents harder to be rejected by examiner? evidence from USPTO 2000-2019

AWARDS, FELLOWSHIP & HONORARIA

✓ Chinese Government Scholarship, Chinese Scholarship Council, 2021 (~ \$23K)

- ✓ Kaifeng-Swarm Research fellowship, Kaifeng Foundation, 2020 (~\$20K)
- ✓ Top Innovative Talents Scholarship, Beijing Normal University, 2019 (~\$10K)
- ✓ The 1st Prize of Scholarship, Beijing Normal University, 2018 (~\$2000)
- ✓ The 2nd Prize of Scholarship, Beijing Normal University, 2018 (~\$1700)
- ✓ Baogang Student Scholarship, Baogang Education Foundation (totally 5 students in the university), 2015 (~\$1700)
- ✓ The First Prize of Scholarship, Anhui University, 2014 (~\$800)
- ✓ Xindi Student Scholarship, Anhui University, 2013 (totally 25 students in the university) (~\$1400K)
- ✓ Meritorious Winner of Interdisciplinary Contest in Modeling (ICM), COMAP, 2016
- ✓ Meritorious Winner of Interdisciplinary Contest in Modeling (ICM), COMAP, 2015
- ✓ The First Prize of China Undergraduate Mathematical Contest in Modeling, CSIAM,2015
- ✓ The 2nd Prize of national mathematic contest in Anhui for undergraduate students, 2013

TEACHING ASSISTANT

- Data Analysis by Python, Beijing Normal University, 2022 Summer
- Frontier on Complex Network, Beijing Normal University, 2021
- Complex Network, Beijing Normal University, 2019
- Computational Communication Seminar, Nanjing University, 2019

TALK VISITS

- University of Pittsburg, School of Information Science, 2022
- Nanjing University, School of Information Management, 2021
- Annual Conference of Swarm Club, 2019

SERVICE

• Invited Reviewer for Academic Journals:

Journal of Informetrics

Journal of Knowledge Management

Journal of Social Computing

Conference/Workshop Co-Chair/Organizer:

Session host, Conference on Complex Systems-China, CSSC 2021

Program Committee Member, International Conference of Computational Social Science (IC2S2 2022)

OTHERS

SKILLS: Python, R, Matlab, SQL, Liunx shell, Pytorch/Deep Learning

Date:2023/02