Jian Gao

✉ gaojian08 [at] hotmail.com
🖥 Homepage: http://www.gaocn.net

━━━ Personal Information

Birth	DATE: May 28, 1989	◇ GENDER: Male	◇ NATIONALITY: P.R. China
Affiliation	CompleX Lab, University of Electronic Science and Technology of China (UESTC)		

━━━ Research Interests

Summary — I'm working in the emerging field named **Computational Socioeconomics**, focusing on understanding socio-economic phenomena using the data-driven approach. As the first/correpsonding author, I have published **20+ research papers** in leading journals including **Physics Reports (IF: 20.1, invited paper and submitted)** , *Scientific Reports* (IF: 5.6), *Journal of the Royal Society Interface* (IF: 3.4), *Physica A* (IF: 2.1), *EPL* (IF: 2.0), etc. My papers have been cited by **200+ times** (**H-index: 10**).

Keywords — Computational Socioeconomics, Data Analysis, Network Science, Economic Complexity, Information Retrieval, Computational Social Science

━━━ Edu. & Res. Background

2014–2019 — **University of Electronic Science and Technology of China** — Chengdu, China
PhD Student in *Computer Science*. School of Computer Science and Engineering
advisor: Prof. Tao Zhou

2016–2017 — **Massachusetts Institute of Technology** — Cambridge, USA
Visiting Student in *Media Arts and Sciences*. The MIT Media Lab
advisor: Prof. César A. Hidalgo

2016–2016 — **Boston University** — Boston, USA
Visiting Scholar in *Complex Systems*. Department of Physics
advisor: Prof. H. Eugene Stanley

2012–2014 — **University of Electronic Science and Technology of China** — Chengdu, China
Master Student in *Computer Science*. School of Computer Science and Engineering
advisor: Prof. Tao Zhou

2008–2012 — **University of Electronic Science and Technology of China** — Chengdu, China
B.Sc in *Information and Computing Science*. School of Mathematical Sciences
GPA: 88.6/100 (3.88/4)

━━━ Selected Publications

‡: equal contribution   †: corresponding author

[1] **Jian Gao**, Yi-Cheng Zhang & Tao Zhou. Computational socioeconomics. Invited by *Physics Reports* (invited paper and submitted), 2019.

[2] **Jian Gao**† & Tao Zhou. Quantifying China's regional economic complexity. *Physica A*, 492: 1591–1603, 2018.

[3] **Jian Gao**† & Tao Zhou. Evaluating user reputation in online rating systems via an iterative group-based ranking method. *Physica A*, 473: 546–560, 2017.

[4] **Jian Gao**, Bogang Jun, Alex "Sandy" Pentland, Tao Zhou & César A. Hidalgo. Collective learning in China's regional economic development. arXiv:1703.01369, 2017.

[5] **Jian Gao**†. Maximizing the collective learning effects in regional economic development. In: *International Computer Conference on Wavelet Active Media Technology and Information Processing*, IEEE Press, 2017, pp. 337–341.

[6] **Jian Gao**[†] & Tao Zhou. Stamp out fake peer review. *Nature*, 546(7656): 33–33, 2017. Correspondence letter.

[7] **Jian Gao**[†] & Tao Zhou. Big data reveal the status of economic development. *Journal of University of Electronic Science and Technology of China*, 45(4): 625–633, 2016. In Chinese.

[8] **Jian Gao**, Tao Zhou & Yanqing Hu. Bootstrap percolation on spatial networks. *Scientific Reports*, 5: 14662, 2015.

[9] **Jian Gao**, Yu-Wei Dong, Ming-Sheng Shang, Shi-Min Cai & Tao Zhou. Group-based ranking method for online rating systems with spamming attacks. *EPL (Europhysics Letters)*, 110(2): 28003, 2015.

[10] Yi Cao[‡], **Jian Gao**[‡], De-Fu Lian, Zhi-Hai Rong, Jia-Tu Shi, Qing Wang, Yi-Fan Wu[‡], Hua-Xiu Yao[‡] & Tao Zhou[‡]. Orderness predicts academic performance: Behavioral analysis on campus lifestyle. *Journal of the Royal Society Interface*, 15: 20180210, 2018.

[11] Jun Wang, **Jian Gao**[†], Jin-Hu Liu, Dan Yang & Tao Zhou. Regional economic status inference from online information flow and offline talent mobility. *EPL (Europhysics Letters)*, 125(6): 68002, 2019.

[12] Ling-Jiao Chen & **Jian Gao**[†]. A trust-based recommendation method using network diffusion processes. *Physica A* 506: 679–691, 2018.

[13] Xiao Yang, **Jian Gao**[†], Jin-Hu Liu & Tao Zhou. Height conditions salary expectations: Evidence from large-scale data in China. *Physica A*, 501: 86–97, 2018.

[14] Ling-Jiao Chen, Zi-Ke Zhang, Jin-Hu Liu, **Jian Gao**[†] & Tao Zhou. A vertex similarity index for better personalized recommendation. *Physica A*, 466: 607–615, 2017.

Full List   http://www.gaocn.net/index.html#Pub

Selected Honors & Awards

2019	Excellent Graduate Student Graduated, *Education Department in Sichuan*	(1%)
2018	Best Poster Award in the 2018 NetSciX Conference on Network Science	(Top 6)
2016	National Scholarship for Graduate Student, *Ministry of Education*	(5%)
2014	Best Poster Award in the 2nd Conference on Complexity Science	(Top 3)
2012	**Outstanding Winner** in 2012 Interdisciplinary Contest in Modeling	(0.3%)
2011	**Outstanding Student** of the University, *UESTC*	(0.2%)

Selected Review Services

Reviewer	Journal of the Royal Society Interface	2018
	Knowledge-Based Systems	2017-2019
	Physica A	2016-2018
	IEEE Transactions on Knowledge and Data Engineering	2016

Skills

Computing	MATLAB (practical), Python (basic)	◇ Visualization: OriginLab, Gephi, D3, AI
Language	English (fluent), Chinese (native)	◇ Typesetting: LaTeX, MS Office

References

Prof. Tao Zhou, zhutou@ustc.edu   Chengdu, China
Big Data Research Center, University of Electronic Science and Technology of China

Prof. César A. Hidalgo, hidalgo@mit.edu   Cambridge, USA
Collective Learning Group, MIT Media Lab, Massachusetts Institute of Technology