

# Jian Gao

## Personal Information

Birth DATE: May 28, 1989      ◇ GENDER: Male      ◇ NATIONALITY: P.R. China  
Address CompleX Lab, Web Sciences Center, School of Computer Science and Engineering, UESTC  
Xiyuan Ave No.2006, West Hi-Tech Zone, Chengdu 611731, P.R. China

## Education

2012–Present **University of Electronic Science and Technology of China** Chengdu, China  
PhD 14' (Master 12') student in *Computer Science*. CompleX Lab, Web Sciences Center  
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)

## Research Interests

Network Sci Network Models, Percolation Transition, Spreading Processes, Ranking Methods  
Data Anal Social Media, Co-authorship, Industry, Economic and Employee Data Analysis

## Selected Projects

2015–Present Modeling Local Industry Structure and Economic Complexity of China UESTC  
2014–2015 Information Spreading and Percolation on Spatial Social Networks UESTC & SWJT  
2013–2014 User Reputation Evaluation and Robust Online Ranking Methods UESTC

## Selected Publications

- [1] **Jian Gao**, Tao Zhou, *et al.* Symbiosis and monopoly of the local industry structure in China. Oct 2015. (In preparation)
- [2] **Jian Gao** and Tao Zhou. Evaluating user reputation in online rating systems via an iterative group-based ranking method. arXiv:1509.00594, 2015. (Under review)
- [3] **Jian Gao**, Tao Zhou, and Yanqing Hu. Bootstrap percolation on spatial networks. *Nature Scientific Reports*, 5:14662, 2015.
- [4] **Jian Gao**, Yu-Wei Dong, Ming-Shing Shang, Shi-Min Cai, and Tao Zhou. Group-based ranking method for online rating systems with spamming attacks. *Europhysics Letters*, 110: 28003, 2015.
- [5] Jian Yuan, Qian-Ming Zhang, **Jian Gao**, Linyan Zhang, Xue-Song Wan, Xiao-Jun Yu, and Tao Zhou. Promotion and resignation in employee networks. *Physica A*, 2015. (In press)

## Selected Awards

2014 Best Poster Award in the 2nd Conference on Complexity Science (Top 3)  
*Chinese Complexity Science Research Council*  
2012 Outstanding Winner in 2012 Interdisciplinary Contest in Modeling (0.3%)  
*COMAP, sponsored by SIAM, NSA and INFORMS*  
2011 Outstanding Student of the University, the highest honor, UESTC (0.2%)

## Selected Experience

2015–Present Research Assistant to Prof. Tao Zhou. Big Data Research Center, UESTC Chengdu, China  
2014–2015 Research Intern. Hire Big Data and Business Big Data (Chengdu) LTD. Chengdu, China

## Skills

Programming MATLAB (practical), Python (basic)      ◇ Visualization: OriginLab, Gephi, D3, AI  
Language English (fluent), Chinese (native)      ◇ Typesetting: L<sup>A</sup>T<sub>E</sub>X, MS Office