

JIAN GAO

CONTRACT INFORMATION

CompleX Lab, Web Sciences Center
Univ. of Elec. Sci. & Tech. of China
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RESEARCH INTERESTS

Network Science: Network Models, Percolation, Networked Spreading Processes
Recommender Systems: Recommendation Algorithms, Online Ranking Methods
Data Analysis: Workload and Performance Analysis, Resignation Predication

EDUCATION

Univ. of Elec. Sci. & Tech. of China (UESTC) Chengdu, China
Ph.D. Student in Computer Science Sep. 2014 - Now
Web Sciences Center, School of Computer Science & Engineering
Adviser: Prof. Tao Zhou

Univ. of Elec. Sci. & Tech. of China (UESTC) Chengdu, China
Master Student in Computer Science Sep. 2012 - Jul. 2014
Web Sciences Center, School of Computer Science & Engineering
Adviser: Prof. Tao Zhou

Univ. of Elec. Sci. & Tech. of China (UESTC) Chengdu, China
Bachelor of Science in Mathematics, Highest honors Sep. 2008 - Jul. 2012
School of Mathematical Sciences

RESEARCH EXPERIENCE

Research Assistant Sep. 2013 - Sep. 2015
CompleX Lab, Web Sciences Center, UESTC
Advised by Prof. Tao Zhou and Yanqing Hu
Did research on online social networks and percolation on spatial networks, accomplished two journal papers, will write one more journal paper.

Research Assistant Nov. 2011 - Aug. 2013
Web Sciences Center, UESTC
Advised by Prof. Mingsheng Shang and Shimin Cai
Did research on missing value imputation, evolution and ranking problem of online rating systems, accomplished one journal paper.

Research Assistant Sep. 2010 - Oct. 2011
School of Mathematical Sciences, UESTC
Advised by Assoc. Prof. Mingqi Li
Did research on modeling the evolution of microbial population in a wine cellar and evaluating scholarship in universities, published two journal papers in Chinese.

REFEREED PUBLICATIONS

Book Chapter

Jian Gao, Linyan Zhang, Qian-Ming Zhang and Tao Zhou. Social Physics: Social Governance (No. 5 in Social Physics Series). *Big Data Human Resources: Performance Analysis and Promotion/Resignation in Employee Networks*, Beijing: Science Press, 2014. (in Chinese)

Last updated: May 9, 2015

Pre-print

- [1] Jian Yuan, Qian-Ming Zhang, Jian Gao, Linyan Zhang, Xue-Song Wan, Xiao-Jun Yu, and Tao Zhou. Promotion and resignation in employee networks. arXiv:1502.04184, 2015. (Submitted to *Physica A*)
- [2] Jian Gao, Tao Zhou, and Yanqing Hu. Bootstrap percolation on spatial networks. arXiv:1408.1290, 2014. (Submitted to *New Journal of Physics*)

Journal Papers

- [1] 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*. EPL, 2005, 110: 28003.
- [2] Dan-Dan Zhao, An Zeng, Ming-Sheng Shang, and Jian Gao. *Long-term effects of recommendation on the evolution of online systems*. Chinese Physics Letters, 2013, 30(11): 8901.
- [3] Fang-Jian Guo, Jiang Su, and Jian Gao. *Finding conspirators in the network via machine learning*. The UMAP Journal, 33(3), 2012. (Outstanding Winner paper for MCM/ICM 2012)
- [4] Jian Gao, and Xi-Nan Zhang. *Comprehensive scholarship evaluation model in colleges and universities*. Journal of Chongqing Technology and Business University (Nat Sei Ed). 2012, 29(1): 36-41. (In Chinese)

TEACHING EXPERIENCE

Teaching Assistant	Sep. 2013 - Jan. 2014
School of Mathematical Sciences, UESTC	
Course: Calculus	Instructor: Assoc. Prof. Yong Zhang
Teaching Assistant	Sep. 2012 - Jan. 2013
School of Mathematical Sciences, UESTC	
Course: Mathematical Modeling	Instructor: Lectr. Hongfei Du

WORKING EXPERIENCE

Research Intern	Jan. 2014 - Jan. 2015
Hire Big Data (Chengdu) LTD., Chengdu, China	
Position: Senior Algorithms Engineer	
Management Intern	Sep. 2010 - Jun. 2012
Department of Student Affair, School of Mathematical Sciences, UESTC	
Position: Assistant Counselor	

SCHOLARSHIP

Tang Lixin Scholarship (0.2%), UESTC	2013-2015
Entrance Scholarship (twice) (10%), UESTC	2012-2015
Second-class Graduate Scholarship (15%), UESTC	2013-2014
National Inspiration Scholarship (5%), Ministry of Education of China	2011-2012
Single Award of People's Scholarship (twice) (5%), UESTC	2009-2011
First-class People's Scholarship (10%), UESTC	2010-2011
National Inspiration Scholarship (5%), Ministry of Education of China	2009-2010

AWARDS

Best Poster Award in the 2nd Conference on Complexity Science (5%)	2014
<i>Chinese Complexity Science Research Council</i>	
Outstanding Winner in 2012 Interdisciplinary Contest in Modeling (0.3%)	2012

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	<i>COMAP, sponsored by SIAM, MAA, NSA and INFORMS</i>	
	Second-class Award in Asia-Pacific Mathematical Contest in Modeling (4.5%)	2011
	<i>MATHOR Network, sponsored by APMMW</i>	
	National Second-class Award in Contemporary Undergraduate MCM (5%)	2010
	<i>CSIAM, sponsored by COMAP, MathWorks Inc and IBM Inc</i>	
	First-class Award in Mathematical Contest in Modeling (1.8%)	2010
	<i>UESTC, sponsored by School of Continuing Education</i>	
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HONOURS	Outstanding Staff Award of the year, Hire Big Data (Chengdu), LTD	2015
	Deserving Candidate and Outstanding Team of CAS Summer School on Systems Science, China Academic of Science (CAS)	2013
	Outstanding Student of the University (0.2%, highest honor), UESTC	2012
	Outstanding Graduates Awards of the University (5%), UESTC	2012
	Outstanding Individual on Work-study, the only in our school (1%), UESTC	2011
	Excellent Individual in Social Practice of the University (5%), UESTC	2011
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CONTRIBUTED TALKS	Group-based ranking method for online rating systems.	Mar. 2015
	<i>Seminar of CompleX Lab, Web Sciences Center, UESTC, Chengdu, China</i>	
	Bootstrap percolation on spatial networks.	Oct. 2014
	<i>The 10th Chinese Conference on Complex Networks, National University of Defense Technology, Changsha, China</i>	
	Bootstrap percolation on Kleinberg's network.	Jul. 2014
	<i>The 2nd Conference on Complexity Science (Academic Conference), Wenzhou University, Wenzhou, China</i>	
	Collective behavior and intervention of crowd.	Oct. 2013
	<i>The CAS Summer School- School of Systems Science. CAS, Beijing, China</i>	
	A two-stage-ranking algorithm based on interval clustering.	Jan. 2013
	<i>Winter School on Networks and Complexity, UESTC, Chengdu, China</i>	
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EXTRA ACADEMIC ACTIVITY	Member of Innovation Study and Share (ISS) Club	Nov. 2013 - Now
	<i>The club is under Tang Lixin Education Development Foundation in UESTC.</i>	
	Instructor of Association Mathematical Modeling (AMM)	Oct. 2011 - Jun. 2014
	<i>The AMM is a student association in UESTC.</i>	
	Leader of Work-Study Team in the School	Sep. 2010 - Jun. 2012
	<i>The program is built by Student Financial Aid Center in UESTC.</i>	
	Vice Minister and Journalist of Propaganda Department	Sep. 2008 - Jun. 2009
	<i>Student Union, School of Mathematical Sciences, UESTC.</i>	
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SKILLS	Programming: MATLAB (practical experiences), Python, C/C++ (basic knowledge)	
	Typesetting: L ^A T _E X, MS Office	
	Language: Chinese (native), English (intermediate)	
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HOBBY	Soccer, Badminton, Skiing, Skating	