JIAN GAO

CONTRACT INFORMATION	Room B1-202, Main Building CompleX Lab, Web Sciences Center Univ. of Elec. Sci. & Tech. of China No.2006, Xiyuan Ave, West Hi-Tech Zone Chengdu, Sichuan Province, P.R.China 611731	E-mail: gaojian08@hotmail.com Homepage: http://gaocn.net Mobile: +86-136-9944-5766 Voice: +1-617-500-3208 Skype: gaojianuestc

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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

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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. *Big Data Human Resources: Performance Analysis and Promotion/Resignation in Employee Networks* in *Social Physics: Social Governance*. Beijing: Science Press, 2014. (in Chinese)

Pre-print

[1] Jian Yuan, Qian-Ming Zhang, <u>Jian Gao</u>, 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] <u>Jian Gao</u>, Tao Zhou, and Yanqing Hu. Bootstrap percolation on spatial networks. arXiv:1408.1290, 2014. (Submitted to *New Journal of Physics*)

Journal Papers

[1] <u>Jian Gao</u>, 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 <u>Jian Gao</u>. *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 <u>Jian Gao</u>. *Finding conspirators in the network via machine learning.* The UMAP Journal, 33(3), 2012. (Outstanding Winner paper for MCM/ICM 2012)

[4] <u>Jian Gao</u>, 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%) *Chinese Complexity Science Research Council*	2014
	Outstanding Winner in 2012 Interdisciplinary Contest in Modeling (0.3%)	2012

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COMAP, sponsored by SIAM, MAA, NSA and INFORMS

Second-class Award in Asia-Pacific Mathematical Contest in Modeling (4.5%) 2011
MATHOR Network, sponsored by APMMW

National Second-class Award in Contemporary Undergraduate MCM (5%) 2010
CSIAM, sponsored by COMAP, MathWorks Inc and IBM Inc

First-class Award in Mathematical Contest in Modeling (1.8%) 2010
UESTC, sponsored by School of Continuing Education

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

CONTRIBUTED TALKS

Group-based ranking method for online rating systems. Mar. 2015
Seminar of CompleX Lab, Web Sciences Center, UESTC, Chengdu, China

Bootstrap percolation on spatial networks. Oct. 2014
The 10th Chinese Conference on Complex Networks, National University of Defense Technology, Changsha, China

Bootstrap percolation on Kleinberg's network. Jul. 2014
The 2nd Conference on Complexity Science (Academic Conference), Wenzhou University, Wenzhou, China

Collective behavior and intervention of crowd. Oct. 2013
The CAS Summer School- School of Systems Science. CAS, Beijing, China

A two-stage-ranking algorithm based on interval clustering. Jan. 2013
Winter School on Networks and Complexity, UESTC, Chengdu, China

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EXTRA ACADEMIC ACTIVITY

Member of Innovation Study and Share (ISS) Club Nov. 2013 - Now
The club is under Tang Lixin Education Development Foundation in UESTC.

Instructor of Association Mathematical Modeling (AMM) Oct. 2011 - Jun. 2014
The AMM is a student association in UESTC.

Leader of Work-Study Team in the School Sep. 2010 - Jun. 2012
The program is built by Student Financial Aid Center in UESTC.

Vice Minister and Journalist of Propaganda Department Sep. 2008 - Jun. 2009
Student Union, School of Mathematical Sciences, UESTC.

SKILLS

Programming: MATLAB (practical experiences), Python, C/C++ (basic knowledge)
Typesetting: LaTeX, MS Office
Language: Chinese (native), English (intermediate)

HOBBY

Soccer, Badminton, Skiing, Skating