

JIAN GAO

CONTRACT INFORMATION

Web Sciences Center
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RESEARCH INTERESTS

Network Science: Networked Spreading Phenomenon, Coauthorship Networks
Recommender Systems: Recommendation Algorithms, Ranking Problems
Data Analysis: Workload and Performance Analysis, Resignation Predication

EDUCATION

Univ. of Elec. Sci. & Tech. of China (UESTC) <i>Ph.D Student in Computer Science</i> Web Sciences Center, School of Computer Science & Engineering Adviser: Prof. Tao Zhou	Sept. 2014 - Now Chengdu, China
Univ. of Elec. Sci. & Tech. of China (UESTC) <i>Master Student in Computer Science</i> Web Sciences Center, School of Computer Science & Engineering Adviser: Prof. Tao Zhou	Sept. 2012 - Jul. 2014 Chengdu, China
Univ. of Elec. Sci. & Tech. of China (UESTC) <i>Bachelor of Science in Mathematics, Highest honors</i> School of Mathematical Sciences	Sept. 2008 - Jul. 2012 Chengdu, China
Shangzhi (No.1) High School <i>High School Diploma</i>	Sept. 2005 - Jul. 2008 Harbin, China

RESEARCH EXPERIENCE

Research Assistant Web Sciences Center, UESTC Advised by Prof. Tao Zhou and Yanqing Hu <i>Did research on online social networks and percolation on spatial networks, accomplished two journal papers, will write one more journal paper.</i>	Sept. 2013 - Sept. 2014
Research Assistant Web Sciences Center, UESTC Advised by Prof. Mingsheng Shang and Shimin Cai <i>Did research on missing value imputation, evolution and ranking problem of online rating systems, accomplished two journal papers, will write one conference paper.</i>	Nov. 2011 - Aug. 2013
Research Assistant School of Mathematical Sciences, UESTC Advised by Assoc. Prof. Mingqi Li <i>Did research on modeling the evolution of microbial population in a wine cellar and evaluating scholarship in universities, published two journal papers in Chinese.</i>	Sept. 2010 - Oct. 2011

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)

Journal Papers

- [1] Jian Gao, Yu-Wei Dong, Ming-Shing Shang, Shi-Min Cai, and Tao Zhou. *A group-based ranking method for online rating systems with spamming attacks*. 2014. (In Preparation)
- [2] Jian Gao, Tao Zhou, and Yanqing Hu. Bootstrap percolation on spatial networks. arXiv:1408.1290, 2014. (Submitted)
- [3] Jian Yuan, Qian-Ming Zhang, Jian Gao, Linyan Zhang, Xue-Song Wan, Xiao-Jun Yu, and Tao Zhou. *Promotion and resignation in employee networks*. 2014. (Submitted)
- [4] 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.
- [5] 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)
- [6] Jian Gao, Ding-Rong Di, and Ze-Fang Yang. *Study of the evolution of microbial population in a wine cellar by modeling*. Experiment Science and Technology. 2012, 10(3), 249-253. (in Chinese)
- [7] Jian Gao, and Xi-Nan Zhang. *Comprehensive scholarship evaluation model in colleges and universities*. J Chongqing Technol Business Univ. (Nat Sei Ed). 2012, 29(1), 36-41. (in Chinese)
- [8] Jian Gao, Jie Cheng, and Wei Xie. *Volume calculation of a shifted oil tank*. Tianfu Mathematic. 2011, 17, 24-32. (in Chinese)

TEACHING EXPERIENCE

Teaching Assistant School of Mathematical Sciences, UESTC Course: Mathematical Modeling Instructor: Lectr. Hongfei Du <i>Developed and gave lectures in a senior undergraduate level course. Instructed students in the Mathematical Contest in Modeling (MCM).</i>	Sept. 2012 - Jan. 2013
Teaching Assistant School of Mathematical Sciences, UESTC Course: Calculus (II) Instructor: Assoc. Prof. Yong Zhang <i>Developed and gave lectures in a freshman level course. Instructed students in research training.</i>	Sept. 2013 - Jan. 2014

WORKING EXPERIENCE

Research Intern Hire Big Data (Chengdu) LTD., Chengdu, China Position: Senior Algorithms Engineer <i>Did workload and performance analysis, promotion and resignation predication, and searching algorithm design.</i>	Jan. 2014 - Dec. 2014
Management Intern Department of Student Affair, School of Mathematical Sciences, UESTC Position: Assistant Counselor	Sept. 2010 - Jun. 2012

Engaged in the management of undergraduate students. Assisted the Student Counselor to deal with student affairs, including Financial Aid, Loans, Scholarships, etc.

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

AWARDS	Best Poster Award in the 2nd Conference on Complexity Science (5%) <i>Chinese Complexity Science Research Council</i>	2014
	Outstanding Winner Award in 2012 Mathematical/Interdisciplinary Contest in Modeling (0.3%) <i>COMAP, sponsored by SIAM, MAA, NSA and INFORMS</i>	2012
	Second-class Award in Asia-Pacific Mathematical Contest in Modeling (4.5%) <i>MATHOR Network, sponsored by APMMW</i>	2011
	Second-class Award in SuBei Mathematical League in Modeling (10%) <i>IIAM of Jiangsu Province, sponsored by CUM and IIAM of Xuzhou City</i>	2011
	Third-class Award in Online Mathematical Modeling (20%) <i>Mathematical Society of Inner Mongolia and madio.net</i>	2011
	National Second-class Award in Contemporary Undergraduate Mathematical Contest in Modeling (5%) <i>CSIAM, sponsored by COMAP, MathWorks Inc and IBM Inc</i>	2010
	First-class Award in Mathematical Contest in Modeling (1.8%) <i>UESTC, sponsored by School of Continuing Education</i>	2010

HONOURS	Deserving Candidate and Outstanding Team of CAS Summer School on Systems Science, China Academic of Science (CAS) & Beijing Normal University	2013
	Outstanding Student of the University (0.2%, highest honor), UESTC	2012
	Outstanding Graduates Awards of the University (5%), UESTC	2012
	A-level Certificate of Students' Comprehensive Ability, Sichuan Youth League	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
	Excellent League Cadres of the University (5%), UESTC	2010
	Ten Person of the Year - Self-star (2%), School of Math, UESTC	2009
	Excellent Class Cadres (5%), School of Math, UESTC	2009
	Spiritual Civilization Award (5%), School of Math, UESTC	2009

CONTRIBUTED TALKS	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 for National Graduates - School of Systems Science. Academy of Mathematics and 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>	

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. Chengdu, China</i>	
	Instructor of Association Mathematical Modeling (AMM)	Oct. 2011 - Jun. 2014
	<i>The AMM is a student association in UESTC. I served as a Distinguished Instructor and gave lecture to members for over two years. The association won "Top Ten Associations in UESTC" for two years and won "Attractive Associations in Sichuan Province" in 2012. Chengdu, China</i>	
	Vice Station of Mathematical Modeling Forum	Mar. 2011 - Dec. 2012
	<i>The forum is built by School of Mathematical Sciences in UESTC, aiming to serve all mathematical modeling enthusiasts. I served as the Vice Station and engaged in the daily management. Chengdu, China</i>	
	Leader of Work-Study Team in the School	Sept. 2010 - Jun. 2012
	<i>The program is built by Student Financial Aid Center (SFAC) in UESTC. I led the team win "Outstanding Units in Work-Study Program of UESTC" for two years. Chengdu, China</i>	
	Vice Minister and Journalist of Propaganda Department	Sept. 2008 - Jun. 2009
	<i>Student Union, School of Mathematical Sciences, UESTC. Chengdu, China</i>	
	Monitor of the Class, No. 28102010	Sept. 2008 - Jan. 2011
	<i>School of Mathematical Sciences, UESTC. I led the class win "Outstanding Class in UESTC" for three years. Chengdu, China</i>	

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
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