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*Department of Systems and Industrial Engineering*  
*The University of Arizona*  
*Tucson, AZ 85721*

<http://www.u.arizona.edu/~qpzhang/>

**Objective**

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Research position at research universities or institutions.

**Education**

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- 2009-NOW THE UNIVERSITY OF ARIZONA  
*Doctor of Philosophy in Systems and Industrial Engineering*  
*Minor in Management Information Systems*  
Committee Members: Drs. Daniel Dajun Zeng (Chair), Fei-Yue Wang, Wei Hua Lin, Ronald Breiger, Jian Liu
- 2009-2011 THE UNIVERSITY OF ARIZONA  
*Master of Science in Industrial Engineering*
- 2005-2009 HUAZHONG UNIVERSITY OF SCIENCE AND TECHNOLOGY  
*Bachelor of Engineering in Automation*

**Research Experience**

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- 2009-NOW Research Assistant, Department of Systems and Industrial Engineering and Department of Management Information Systems, The University of Arizona, Tucson, AZ
- 2011 PhD Intern, Pacific Northwest National Laboratory, Richland, WA
- 2009-2010 Research Intern, The National Laboratory of Intelligent Control and Management for Complex Systems, Chinese Academy of Sciences, Beijing, China
- 2007-2009 Undergraduate Research Assistant, The Key Laboratory of Image Processing and Intelligent Control, Huazhong University of Science and Technology

**Teaching Experience**

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- 2009-NOW Teaching Assistant, The University of Arizona  
SIE 340, Deterministic Operations Research, Fall 2011  
SIE 350, Deterministic Systems, Spring 2011  
SIE 250, Introduction to Systems and Industrial Engineering, Fall 2010  
SIE 370, Embedded Computer Systems, Spring 2010 and 2012  
SIE 410A, Human Factor and Ergonomics in Design, Fall 2009

**Research Interests**

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Social Computing, Complex Systems and Networks, Social Network Analysis, Social Dynamics, Science of Team Science, Cyber-enabled Social Movement Organizations, Artificial Societies

## Journal Publications

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1. G. Lai, **Q. Zhang**, D. Wen, Y. Gao, Z. Feng, G. Ke, H. Lu, “A Prototype of the Next Generation Journal System for ITS: Academic Social Networking and Media Based on Web 3.0,” **IEEE Transactions on Intelligent Transportation Systems**, in press
2. T. Wang, **Q. Zhang**, Z. Liu, W. Liu, D. Wen, “On Social Computing Research Collaboration Patterns: A Social Network Perspective,” **Frontiers of Computer Science**, vol. 6, no. 1, pp. 122-130, 2012
3. X. Zheng, Y. Zhong, F.-Y. Wang, D. Zeng, **Q. Zhang**, K. Cui, “Social Dynamics Research Based on Internet Information,” **Journal of Complex Systems and Complexity Science (in Chinese)**, vol. 8, no. 3, pp. 1-12, 2011
4. **Q. Zhang**, Z. Feng, X. Li, X. Zheng, L. Zhang, “25 Years’ Collaborations at IEEE Intelligent Systems,” **IEEE Intelligent Systems**, vol. 25, no. 6, pp. 67-75, 2010
5. Z. Feng, **Q. Zhang**, X. Li, G. Ke, G. Xiong, “A Bibliographic Analysis of the IEEE Intelligent Systems,” **IEEE Intelligent Systems**, vol. 25, no. 6, pp. 59-66, 2010
6. F.-Y. Wang, D. Zeng, J. Hendler, **Q. Zhang**, Z. Feng, Y.-Q. Gao, H. Wang, G. Lai, “A Study of Human Flesh Search Engine: Crowd-Powered Expansion of Online Knowledge,” **IEEE Computer**, vol. 43, no. 8, pp. 45-53, 2010 (as cover feature).

## Conference Publications and Presentations

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1. **Q. Zhang**, F.-Y. Wang, D. Zeng, “Understanding Crowd-Powered Search Community,” The Third Annual International Science of Teach Science Conference (SciTS’12), poster presentation, April 16-19, 2012, Chicago, IL, 2012
2. T. Wang, Z. Liu, B. Xiu, **Q. Zhang**, H. Mo, F.-Y. Wang, “On the Evolvement of Social Computing Research: A Bibliographic Analysis Perspective,” The Third Annual International Science of Teach Science Conference (SciTS’12), poster presentation, April 16-19, 2012, Chicago, IL, 2012
3. **Q. Zhang**, Z. Feng, D. Zeng, F.-Y. Wang, “Modeling Cyber-Enabled Crowd-Powered Search,” The Second Chinese Conference on Social Computing (CCSC’10), research paper, 2010

## Working Papers

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1. **Q. Zhang**, D. Zeng, F.-Y. Wang, “Understanding Crowd-Powered Search Community: A Social Network Perspective,” **PLoS ONE**, in revision
2. **Q. Zhang**, D. Haglin, “Measuring Semantic Similarity at Different Scales,” working paper
3. F.-Y. Wang, D. Zeng, **Q. Zhang**, J.A. Hendler, Z. Feng, “The Chinese Human Flesh Web,” **Communications of the ACM (CACM)**, under review
4. **Q. Zhang**, “Monitoring Changes in Social Networks Using Multivariate SPC Techniques,” technical report, The University of Arizona
5. D. Xu, **Q. Zhang**, G. Obisopo, A. Khaleghi, P. Bhardwaj, Y.-J. Son, “Hybrid Simulation-based Duopoly Game Solving under Multiple Control Variables and Integrated Payoff Functions,” working paper

## Invited Talks

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1. *Tutorial on Social Computing*, INFORMS Student Chapter, The University of Arizona, Tucson, AZ, Nov 2011
2. *Measuring Semantic Similarity at Different Scales*, Student Accomplishment Workshop, High-Performance Computing, Pacific Northwest National Laboratory, Richland, WA, Aug 2011

## Skills

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Technical: Proficient in the analysis of complex networks; expert in agent-based, discrete-event, and system dynamics modeling with Arena, Anylogic and NetLogo.

Programming: Java, C/C++, Python, MATLAB, PHP, VBA, SQL

Database: MySQL, Oracle, SQL Server

## Professional Activities

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Member *The Institute of Electrical and Electronic Engineers (IEEE), The Association for Computing Machinery (ACM), The International Council on Systems Engineering (INCOSE), and The Society for Industrial and Applied Mathematics (SIAM)*

Reviewer *IEEE Intelligent Systems, IEEE Transactions on Intelligent Transportation Systems, IEEE Transactions on Services Computing*

## References

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Ronald Breiger, Ph.D.  
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