

Kang Zhao

S224 PBB, The University of Iowa.
Iowa City, IA 52242, USA.

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RESEARCH INTERESTS

Data science, complex social and business networks, social media, online health communities.

EDUCATION

- The Pennsylvania State University, University Park, PA, USA.
Ph.D., Information Sciences and Technology (IST), 2012.
- Santa Fe Institute, Santa Fe, NM, USA.
Complex Systems Summer School, 2010. (Awarded full financial support.)
- Eastern Michigan University, Ypsilanti, MI, USA.
M.S., Computer Science, 2006.
- Beijing Institute of Technology, Beijing, China.
B.E. (with Honor), Electrical Engineering, 2003.

PROFESSIONAL EXPERIENCE

- Associate Professor (with Tenure) and Tippie Research Fellow
Assistant Professor (Tenure-track) 2018 - Present
Department of Management Sciences, Tippie College of Business
Joint appointment with Informatics,
The University of Iowa, Iowa City, IA. 2012 - 2018
- Graduate Research and Teaching Assistant 2007 - 2012
College of Information Sciences and Technology
Penn State University, University Park, PA.
- Graduate Research Assistant 2004 - 2006
Institute for Geospatial Research and Education
Eastern Michigan University, Ypsilanti, MI.

HONORS AND AWARDS

- Mentor of Iowa Center for Research by Undergraduates Fellowship (2018)
The University of Iowa.
- Featured in the University of Iowa “Dare to Discover” campaign (2017)
The University of Iowa.
- Early Career Research Award (2016)
Tippie College of Business, The University of Iowa.
- R.W. Graham Endowed Graduate Fellowship (2007)
College of IST, Penn State University.
- Graduate Achievement Award (2006)
Department of Computer Science, Eastern Michigan University.
- Outstanding College Graduate of Beijing (2003)
Beijing Municipal Commission of Education.
- Outstanding College Graduate of Beijing Institute of Technology (2003)

- First-class Renmin Fellowship (1999-2003)
Beijing Institute of Technology, for 4 consecutive years. Awarded to the top 10% students.
- Beijing Institute of Technology Top Honor Xu Teli Fellowship (2002)
30 awardees from about 20,000 students.
- Leida Technology Progress Fellowship (2001)
Beijing Institute of Technology.
- Outstanding Student of Beijing Institute of Technology (2000)

JOURNAL ARTICLES (* indicates students I advised or co-advised)

- [J.30] Zuo, Z.*, Qian, H., and Zhao, K. "Understanding the Field of Public Affairs through the Lens of Ranked Ph.D. Programs in the United States." *Policy Studies Journal*. (In press)
- [J.29] Wang, X.*, Zhao, K., Cha, S., Amato, M.S., Cohn, A.M., Pearson, J.L., Papandonatos, G.D., and Graham, A.L. "Mining User-Generated Content in an Online Smoking Cessation Community to Identify Smoking Status: A Machine Learning Approach." *Decision Support Systems* (116), 2019, pp 26-34.
- [J.28] Cohn, A.M., Amato, M.S., Zhao, K., Wang, X.*, Cha, S., Pearson, J.L., Papandonatos, G.D., and Graham, A.L., "Discussions of Alcohol Use in an Online Social Network for Smoking Cessation: Analysis of Topics, Sentiment, and Social Network Centrality." *Alcoholism-Clinical and Experimental Research*. (In press)
- [J.27] Bigsby, K.G.*, Ohlmann, J.W., and Zhao, K. "The Turf is Greener on the Other Side: Predicting De-commitments in College Football Recruiting Using Social Network Data." *Decision Support Systems* (116), 2019, pp 1-12.
- [J.26] Zhao, K., Zuo, Z.*, and Blackhurst, J. "Modelling Supply Chain Adaptation for Disruptions: An Empirically Grounded Complex Adaptive Systems Approach," *Journal of Operations Management* (In press).
- [J.25] Pearson J.L., Amato M.S., Papandonatos G.D., Zhao K., Erar B., Wang X.*, Cha S., Cohn A.M., Graham A.L. "Exposure to Positive Peer Sentiment about Nicotine Replacement Therapy in an Online Social Network for Smoking Cessation is Associated with NRT Use." *Addictive Behaviors* (87), 2018, pp 39-45.
- [J.24] Zuo, Z.*, and Zhao, K. "The More Multidisciplinary the Better? --The Prevalence and Interdisciplinarity of Research Collaborations in Multidisciplinary Institutions." *Journal of Informetrics* (12:3), 2018, pp 736-756.
- [J.23] Amato, M.S., Papandonatos, G.D., Cha, S., Wang, X.*, Zhao, K., Cohn, A.M., Pearson, J.L., Graham, A.L. "Inferring Smoking Status from User Generated Content in an Online Cessation Community." *Nicotine and Tobacco Research* (In Press).
- [J.22] Zhao, K., Scheibe, K., Blackhurst, J., and Kumar, A. "Supply Chain Network Robustness Against Disruptions: Topological Analysis, Measurement, and Optimization." *IEEE Transactions on Engineering Management* (In Press).
- [J.21] Graham, A.L., Zhao, K., Papandonatos, G.D., Erar, B., Wang, X.*, Cha, S., Cohn, A.M., Pearson, J.L., and, Amato, M.S. "A Prospective Examination of Online Social Network Dynamics and Smoking Cessation." *PLOS ONE* (12:8), 2017, e0183655.
- [J.20] Bigsby, K.G.*, Ohlmann, J.W., and Zhao, K. "Online and Off the Field: Predicting School Choice in College Football Recruiting from Social Media Data." *Decision Analysis* (14:4), 2017, pp 261-273.

- [J.19] Cohn, A.M., Zhao, K., Cha, S., Wang, X.*, Amato, M.S., Pearson, J.L., Papandonatos, G.D., and Graham, A.L. "A Descriptive Study of the Prevalence and Typology of Alcohol-related Posts in an Online Social Network for Smoking Cessation." *Journal of Studies on Alcohol and Drugs* (78:5), 2017, pp 665-673.
- [J.18] Wang, X.*, Zhao, K., and Street, N. "Analyzing and Predicting User Participations in Online Health Communities--A Social Support Perspective." *Journal of Medical Internet Research* (19:4), 2017, e130.
- [J.17] Graham, A.L., Papandonatos, G.D., and Zhao, K. "The Failure to Increase Social Support: It Just Might be Time to Stop Intervening (and Start Rigorously Observing)." *Translational Behavioral Medicine* (7:4), 2017, pp 816-820.
- [J.16] Zuo, Z.*, Zhao, K., and Eichmann, D. "The State and Evolution of U.S. iSchools: from Talent Acquisitions to Research Outcome." *Journal of the Association for Information Science and Technology (JASIST)* (68:5), 2017, pp 1266-1277.
- [J.15] Pearson, J.L., Amato, M.S., Wang, X.*, Zhao, K., Cha, S., Cohn, A.M., Papandonatos, G.D., and Graham, A.L., "How U.S. Smokers Refer to e-cigarettes: An Examination of User-generated Posts from a Web-based Smoking Cessation Intervention, 2008-2015." *Nicotine and Tobacco Research* (19:2), 2016, pp 253-257.
- [J.14] Lash, M.*, and Zhao, K. "Early Predictions of Movie Success: the Who, What, and When of Profitability." *Journal of Management Information Systems (JMIS)* (33:3), 2016, pp 874-903.
- [J.13] Zhao, K., Wang, X.*, Cha, S., Cohn, A.M., Papandonatos, G.D., Amato, M.S., Pearson, J.L., and Graham, A.L., "A Multi-relational Social Network Analysis of an Online Community for Smoking Cessation." *Journal of Medical Internet Research*, (18:8), 2016, e233.
- [J.12] Hu, Y., Song, Y., Zhao, K., and Xu, B. "Integrated Recovery of Aircraft and Passengers after Airline Operation Disruption based on the GRASP Algorithm." *Transportation Research Part E: Logistics and Transportation Review* (87) 2016, pp 97-112.
- [J.11] Zhao, K., Xie, Y., and Tsui, K.L. "System Informatics--from Methodology to Applications." *IEEE Intelligent Systems* (30:6) 2015, pp 12-29.
- [J.10] Zhao, K., Greer, G., Yen, J., Mitra, P., and Portier, K. "Leader Identification in an Online Health Community for Cancer Survivors: A Social Network-based Classification Approach." *Information Systems and e-Business Management* (13:4), 2015, pp 629-645.
- [J.9] Zhao, K., Yen, J., Greer, G., Qiu, B., Mitra, P., and Portier, K. "Finding Influential Users of Online Health Communities: a New Metric based on Sentiment Influence." *Journal of the American Medical Informatics Association (JAMIA)* (21:e2) 2014, pp e212-e218.
- [J.8] Zhao, K., Wang, X.*, Yu, M., and Gao, B. "User Recommendation in Reciprocal and Bipartite Social Networks--An Online Dating Case Study." *IEEE Intelligent Systems* (29:2) 2014, pp 27-35.
- [J.7] Portier, K., Greer, G.E., Rokach, L., Ofek, N., Wang, Y., Biyani, P., Yu, M., Banerjee, S., Zhao, K., Mitra, P., and Yen, J. "Understanding Topics and Sentiment in an Online Cancer Survivor Community." *Journal of the National Cancer Institute Monographs* (47) 2013, pp 195-198.
- [J.6] Zhao, K., and Kumar, A. "Who Blogs What: Understanding Publishing Behaviors of Bloggers." *World Wide Web* (16:5-6) 2013, pp 621-644.
- [J.5] Zhao, K., Yen, J., Ngamassi, L.-M., Maitland, C., and Tapia, A. "Simulating Inter-organizational Collaboration Networks: A Multi-relational and Event-based Approach." *Simulation* (88:5) 2012, pp 616-631.

- [J.4] Zhao, K., Kumar, A., and Yen, J. "Achieving High Robustness in Supply Distribution Networks by Rewiring." *IEEE Transactions on Engineering Management* (58:2) 2011, pp 347-362.
- [J.3] Zhao, K., Kumar, A., Harrison, T.P., and Yen, J. "Analyzing the Resilience of Complex Supply Network Topologies against Random and Targeted Disruptions." *IEEE Systems Journal* (5:1) 2011, pp 28-39.
- [J.2] Zhao, K., Yen, J., Ngamassi, L.-M., C., and Tapia, A.H. "Modeling Emerging Coalitions in the Context of Inter-organizational Networks: A Case Study of Humanitarian Coordination." *International Journal of Intelligent Control and Systems* (14:1) 2009, pp 97-103.
- [J.1] Xie, Y., Batty, M., and Zhao, K. "Simulating Emergent Urban Form Using Agent-Based Modeling: Desakota in the Suzhou-Wuxian Region in China." *Annals of the Association of American Geographers* (97:3) 2007, pp 477-495.

REFEREED CONFERENCE AND WORKSHOP PAPERS

- [C.29] Wang, X.*, Joshi, A.*, Zhao, K., and Zhou, X. "Social Support and User Churn Prediction for Online Health Communities--A Trajectory-based Deep Learning Method." *The 28th Annual Workshop on Information Technologies and Systems (WITS)*, Santa Clara, CA, 2018.
- [C.28] Rios, J.*, Zhao, K., and Street, N. "Predicting Stock Price Movements via Multi-relational Inter-firm Networks." *INFORMS Data Science Workshop*, Phoenix, AZ, 2018.
- [C.27] Zuo, Z.*, Zhao, K. "A Graphical Model for Topical Impact Over Time." *The ACM/IEEE Joint Conference on Digital Libraries (JCDL)*, Fort Worth, TX, 2018, pp 405-406.
- [C.26] Wang, X.*, Zhao, K., Cha, S., Amato, M.S., Cohn, A.M., Pearson, J.L., Papandonatos, G.D., and Graham, A.L. "Identifying Smoking Status from User-Generated Content in An Online Community for Smoking Cessation--A Machine Learning Approach." *27th Annual Workshop on Information Technologies and Systems (WITS)*, Seoul, Korea, 2017.
- [C.25] Bigsby, K.G.*, Ohlmann, J.W., and Zhao, K. "The Turf is Greener on the Other Side: Predicting De-commitments in College Football Recruiting Using Social Network Data." *INFORMS Data Science Workshop*, Houston, TX, 2017.
- [C.24] Lin, Q., Wang X.*, and Zhao, K. "Reciprocal Recommendation in Online Dating by Binary Matrix Completion with Data-Dependent Regularization." *INFORMS Data Science Workshop*, Houston, TX, 2017 (**Best Paper Award**).
- [C.23] Wang, X.*, Zuo, Z.*, Zhang, Y., Zhao, K., Chang, Y.-C., Chou, C.-S. "Investigating Regional Prejudice in China Through the Lens of Weibo." *Proceedings of International Conference on Social Informatics (SocInfo'16)*, Bellevue, WA, 2016, pp. 500-513.
- [C.22] Zuo, Z.*, Wang, X.*, Eichmann, D., and Zhao, K. "Research Collaborations in Multidisciplinary Environments – a Case Study of iSchools." *Proceedings of the 3rd WWW Workshop on Big Scholarly Data (BigScholar'16)*, Montreal, Canada, 2016, pp. 443-448.
- [C.21] Wang, S.*, Zhao, K., Yang, T., and Zhang, Q. "Concurrent Diffusions of Information and Behaviors in Online Social Networks—A Case Study of the Ice Bucket Challenge." *Proceedings of the 25th Annual Workshop on Information Technologies and Systems (WITS'15)*, Dallas, TX, 2015.
- [C.20] Wang, X.*, Zhao, K., Pant, G. and Rodriguez, J.R.* "The Diffusion of User Roles via Social Networks in Online Health Communities." *Proceedings of the 25th Annual Workshop on Information Technologies and Systems (WITS'15)*, Dallas, TX, 2015.

- [C.19] Zhao, K., Wang, X.*, Graham, A.L., Cha, S., Cohn, A.M., Erar, B., and Papandonatos G.D. "The Structure and Dynamics of a Multi-relational Online Social Network for Smoking Cessation." *Proceedings of the 25th Annual Workshop on Information Technologies and Systems (WITS'15)*, Dallas, TX, 2015.
- [C.18] Wang, X.*, Zuo, Z.*, and Zhao, K. "The Evolution and Diffusion of User Roles in Online Health Communities--A Social Support Perspective." *Proceedings of IEEE International Conference on Healthcare Informatics (ICHI'15)*, Dallas, TX, 2015, pp. 48-56.
- [C.17] Lash, M.*, Fu, S.*, Wang, S.*, and Zhao, K. "Early Prediction of Movie Success--What, Who, and When." *Proceedings of the 2015 International Conference on Social Computing, Behavioral-Cultural Modeling, & Prediction (SBP'15)*, Washington, DC, 2015, pp. 345-349.
- [C.16] Wang, X.*, Zhao, K., and Street, N. "Social Support and User Engagement in Online Health Communities." *Proceedings of the International Conference for Smart Health (ICSH'14)*, Beijing, China, 2014, pp. 97-110.
- [C.15] Kumar, A., and Zhao, K. "Making Sense of a Healthcare Forum--Smart Keyword and User Navigation Graphs." *Proceedings of the 34th International Conference on Information Systems (ICIS'2013)*, Milan, Italy, 2013.
- [C.14] Yu, M., Zhao, K., Yen, J., and Kreager, D. "Recommendation in Reciprocal Bi-partite Social Networks--A Case Study of Online Dating." *Proceedings of the 6th International Conference on Social Computing, Behavioral-Cultural Modeling and Prediction (SBP'13)*, Washington, DC, 2013, pp. 231-239.
- [C.13] Zhao, K., Qiu, B., Caragea, C., Wu, D., Mitra, P., Yen, J., Greer, G.E., and Portier, K. "Identifying Leaders in an Online Cancer Survivor Community." *Proceedings of the 21st Annual Workshop on Information Technologies and Systems (WITS'11)*, Shanghai, China, 2011, pp. 115-120.
- [C.12] Qiu, B., Zhao, K., Mitra, P., Wu, D., Caragea, C., Yen, J., Greer, G.E., and Portier, K. "Get Online Support, Feel Better--Sentiment Analysis and Dynamics in an Online Cancer Survivor Community." *Proceedings of the Third IEEE International Conference on Social Computing (SocialCom'11)*, Boston, MA, 2011, pp. 274-281.
- [C.11] Zhao, K., Kumar, A., Spaziani, M., and Yen, J. "Who Blogs What: Understanding Behavior, Impact and Types of Bloggers." *Proceedings of the 20th Annual Workshop on Information Technologies and Systems (WITS'10)*, St. Louis, Missouri, 2010, pp. 176-181.
- [C.10] Zhao, K., Yen, J., Ngamassi, L.-M., Maitland, C., and Tapia, A. "From Communication to Collaboration: Simulating the Emergence of Inter-organizational Collaboration Network." *Proceedings of 2010 IEEE International Conference on Social Computing (SocialCom'10)*, Minneapolis, MN, 2010, pp. 413-418.
- [C.9] Tapia, A.H., Ngamassi, L.-M., Maitland, C., Zhao, K., and Bajpai, K. "Crossing Borders, Organizations, Levels and Technologies: IS Collaboration in Humanitarian Relief." *AMCIS 2010 Proceedings*, Peru, 2010, Paper 115.
- [C.8] Ngamassi, L.-M., Zhao, K., Maldonado, E., Maitland, C., and Tapia, A. "Exploring Motives for Collaboration within a Humanitarian Inter-organizational Network." *Proceedings of the 5th Annual iConference*, University of Illinois at Urbana-Champaign, 2010, pp. 224-232.
- [C.7] Zhao, K., Ngamassi, L.-M., Yen, J., Maitland, C., and Tapia, A. "Assortativity Patterns in Multi-dimensional Inter-organizational Networks: A Case Study of the Humanitarian Relief Sector." *Proceedings of the 2010 International Conference on Social Computing, Behavioral Modeling & Prediction (SBP'10)*, Bethesda, MD, 2010, pp. 265-272.

- [C.6] Zhao, K., Kumar, A., and Yen, J. "Effect of Topology on Robustness of a Supply Network--Metrics and Results." *Proceedings of the 19th Annual Workshop on Information Technologies and Systems (WITS'09)*, Phoenix, Arizona, USA, 2009, pp. 97-102.
- [C.5] Zhao, K., Yen, J., Maitland, C., Tapia, A., and Ngamassi Tchouakeu, L.-M. "A Formal Model for Emerging Coalitions under Network Influence in Humanitarian Relief Coordination." *Proceedings of the Spring Simulation Multi-conference (SpringSim'09)*, San Diego, CA, 2009, Article No.10.
- [C.4] Zhao, K., Maitland, C., Ngamassi Tchouakeu, L.-M., Orendovici, R., Tapia, A.H., and Yen, J. "Emergence of Collaborative Projects and Coalitions: A Framework for Coordination in Humanitarian Relief." *Proceedings of the World Congress of Social Simulation (WCSS'08)*, George Mason University, Fairfax, VA, 2008.
- [C.3] Saab, D.J., Maldonado, E., Orendovici, R., Tchouakeu, L.M., Gorp, A.v., Zhao, K., Maitland, C., Tapia, A.H. "Building Global Bridges: Coordination Bodies for Improved Information Sharing among Humanitarian Relief Agencies." *Proceedings of the 5th International Information Systems for Crisis Response & Management Conference (ISCRAM'08)*, Washington, DC, 2008, pp. 471-483.
- [C.2] Zhao, K., and Evett, M.P. "CyberLab: An Online Virtual Laboratory Toolkit for Non-Programmers." *Proceedings of the 8th IEEE International Conference on Advanced Learning Technologies (ICALT '08)*, Santander, Spain, 2008, pp. 316-318.
- [C.1] Xie, Y., Batty, M., and Zhao, K. "Simulating an Emergent Urban Form: Desakota in China," *Proceedings of the Ninth International Conference on Computers in Urban Planning and Urban Management (CUPUM'05)*, London, UK, 2005.

BOOK CHAPTER

- [B.1] Tchouakeu, L.-M. N., Maldonado, E., Zhao, K., Robinson, H., Maitland, C., and Tapia, A. "Exploring Barriers to Coordination between Humanitarian NGOs: A Comparative Case Study of two NGO's Information Technology Coordination Bodies." *Information Systems and Modern Society: Social Change and Global Development*, IGI Global, 2013, pp 87-112.

GRANTS

- Support for the Doctoral Consortium Program at the IEEE International Conference on Healthcare Informatics 2016.** 2016-17
National Science Foundation, Award 1644419. PI. \$23,000.
- Health Knowledge Discovery and Personalized Treatment from Online Social Media.** 2016-19
National Natural Science Foundation of China, Award 71572013. Co-PI. CNY 470,000.
- Social Dynamics of Substance Use in Online Social Networks for Smoking Cessation.** 2014-16
National Institute of Health, R01 CA192345. \$468,382.
As a co-PI for this multiple-PI project (Graham and Zhao).
- Old Gold Fellowship** 2013
The University of Iowa. PI.
- Network Science Exploration Research Grant.** 2010
Penn State University. PI. \$4,000.

TALKS AND PRESENTATIONS

- [T.33] "Social Dynamics of Substance Use in Online Social Networks for Smoking Cessation." Health Communication and Informatics Research Branch, National Cancer Institute, 2018.

- [T.32] "Online and Off the Web--Analyzing User Behaviors and Health Outcome in Online Health Communities." *The 6th International Conference on Smart Health (ICSH'18)*, Wuhan, China, 2018.
- [T.31] "Social Media Data Mining and Network-based Simulations." Wuhan University Summer School on Business Data Analytics, China, 2018.
- [T.30] "Online, Offline and In-Betweens--Mining Social Network and Scholarly Data for Behavior Patterns." Nanjing University, China, 2018.
- [T.29] "Online and Off the Web--Mining Online Data for Offline Behaviors." Central University of Finance and Economics, China, 2018.
- [T.28] "Online and Off the Web--Mining Online Data for Offline Behaviors." Tsinghua University, China, 2018.
- [T.27] "On and Off the Social Web--Connecting Online Social Networks to Offline Behaviors." Southwest University, China, 2017.
- [T.26] "On and Off the Social Web--Connecting Online Social Networks to Offline Behaviors." Wuhan University, China, 2017.
- [T.25] "Predicting Decommittments in College Football Recruiting Using Social Network Data." *Winter Conference on Business Analytics*, Snowbird, Utah, 2017.
- [T.24] "A Network Analysis Approach to Predict Supply Chain Performance." *Winter Conference on Business Analytics*, Snowbird, Utah, 2017.
- [T.23] "Network Analysis of Supply Chain Adaptation for Disruption Recovery--An Empirically Grounded Complex Adaptive Systems Approach." *INFORMS Annual Meeting*, Nashville, TN. 2016.
- [T.22] "Concurrent Diffusion of Information and Behaviors in Online Social Networks." *2016 Winter Conference on Business Intelligence*, Snowbird, Utah, 2016.
- [T.21] "Social Dynamics of Substance Use in Online Social Networks for Smoking Cessation." *VA Innovations in Healthcare Informatics Cyberseminar*, U.S. Department of Veteran Affairs, 2015.
- [T.20] "The Evolution of User Roles in Online Health Communities--A Social Support Perspective." *The 19th Pacific-Asia Conference on Information Systems (PACIS'15)*, Singapore, 2015.
- [T.19] "Who is Going to Change Next? A Study of User Roles Transition in Online Health Communities." *The 9th China Summer Workshop on Information Management (CSWIM'15)*, Hefei, China, 2015.
- [T.18] "Predicting User Engagement in Online Health Communities Based on Social Support Analysis." *2015 Winter Conference on Business Intelligence*, Snowbird, Utah, 2015.
- [T.17] "Predicting User Engagement in Online Health Communities Based on Social Support Activities." *INFORMS Annual Meeting*, San Francisco, CA. 2014.
- [T.16] "Predicting Movie Success—a Social Network Perspective." *INFORMS Annual Meeting*, San Francisco, CA. 2014.
- [T.15] "Users' Roles and Involvement in Online Health Communities--a Social Support Perspective." *The 16th International Conference on Electronic Commerce (ICEC'14)*, Philadelphia, 2014.
- [T.14] "Analyzing Social Networks--from Macroscopic Topology to Microscopic Interactions." Harbin Engineering University, China, 2014.
- [T.13] "Analyzing Social Networks--from Macroscopic Topology to Microscopic Interactions." Sun Yat-sen University, China, 2014.
- [T.12] "Users' Roles and Involvement in Online Health Communities--a Social Support Perspective." *The 8th China Summer Workshop on Information Management (CSWIM'14)*, Chengdu, China, 2014.

- [T.11] "Analyzing Social Networks--from Macroscopic Topology to Microscopic Interactions." Zhejiang University, China, 2014.
- [T.10] "User Behaviors in Online Health Communities--from Influence, Social support, to Community engagement." Beijing Institute of Technology, China, 2014.
- [T.9] "Understanding Social Support and User Behaviors in Online Health Communities." *2014 Winter Conference on Business Intelligence*, Snowbird, Utah, 2014.
- [T.8] "Sentiment Influence and Influential Users in Online Health Communities." *INFORMS Annual Meeting*, Minneapolis, MN. 2013.
- [T.7] "Sentiment Influence and Influential Users in Online Health Communities." 3M Corporate Research, St. Paul, MN. 2013.
- [T.6] "Role Identification--Influential users and community leadership." *International Conference on Social Intelligence and Technology*, University Park, PA, 2013.
- [T.5] "Recommendation in Reciprocal Bipartite Social Networks for Online Dating." *2013 Winter Conference on Business Intelligence*, Snowbird, Utah, 2013.
- [T.4] "Robustness of Heterogeneous Supply Networks--New Metrics and Model." *2010 American Physical Society March Meeting*, Portland, OR, 2010.
- [T.3] "Exploring Assortative Patterns in Multi-dimensional Inter-organizational Networks: A Case Study of the Humanitarian Relief Sector." *2009 North American Association for Computational Social & Organization Sciences Annual Conference*, Tempe, Arizona, USA, 2009.
- [T.2] "Robustness of Heterogeneous Supply Networks against Random and Targeted Disruptions." *First Annual Complexity Conference*, Ann Arbor, MI, USA, 2009.
- [T.1] "EnDURE: Environmental Disaster Urban Recovery and Evaluation Model." *Annual Conference of the North American Association for Computational Social & Organizational Sciences*, Notre Dame, IN, 2006.

CITATION

Google Scholar: citation count 925, h-index 16 (as of Oct. 2018).

TEACHING

Teaching load: 3 courses per academic year. Avg. student evaluation score **5.45** out of 6.

- MSCI 3200: Database Management (*Undergraduate*).
- MSCI 3250: Analyzing Data for Business Intelligence (*Undergraduate*).
- MSCI 4220: Databases and Web Services (*Undergraduate*).
- MSCI 7000: Social Network Analytics--Models and Algorithms (*PhD*).
- MSCI 9230: Database Systems (*Full-time MBA*).
- MSCI 9050: Data Management and Visual Analytics (*Full-time MBA and MAc*).

SELECTED PRESS COVERAGE

- "University of Iowa Researcher Can Predict Where Football Recruits Will Go." *USA Today*, Jan. 27, 2018.
- "Commitment Is Key for Online Quit-Smoking Groups." *U.S. News and World Report*, Nov 17, 2017.
- "It's Hard to Predict a Movie's Profitability, but You Learn Some Lessons Along the Way." *Washington Post*, May 16, 2016.

- "Predicting Future Box Office Success." *Inside Higher Ed*, March 25, 2016.
- "The AI that Could Change Hollywood." *BBC*, Feb 24, 2016.
- "Box Office Predictions from Robots Find A-List Actors Hurt Film Profits." *International Business Times*, June 24, 2015.
- "Is Big Data Dating the Key to Long-lasting Romance?" *BBC News*, March 24, 2014.
- "New Twists for Love in Age of Big Data." *Agence France-Presse*, Feb 12, 2014.
- "Machine Learning + Love." *New York Public Radio*, Feb 12, 2014.
- "Why the Future of Online Dating Relies on Ignoring You." *Forbes*, Dec 7, 2013.
- "A New Online Dating Algorithm Will Match You with Someone You Might Actually Have A Chance With." *Business Insider*. Dec 11, 2013.
- "Good Samaritan Index Identifies Web Users Who Help Other Most." *MIT Technology Review*. Nov 28, 2012.

PROFESSIONAL SERVICE

- Chair, INFORMS Artificial Intelligence Section, 2014-2016.
- Cluster Chair, INFORMS Annual Meeting 2013, 2017, 2018.
- Publicity Chair, International Conference for Smart Health (ICSH), 2017 and 2018.
- Publicity Chair, INFORMS Workshop on Data Science, 2017 and 2018.
- Doctoral Consortium Chair, IEEE International Conference on Healthcare Informatics (ICHI), 2016.
- Editor, Journal of the Association for Information Science and Technology (JASIST), 2018-Present.
- Associate Editor, International Conference on Information Systems (ICIS), 2016 and 2018.
- Guest Editor, IEEE Intelligent Systems, 2015.
- Panelist, National Science Foundation, 2015.
- Program Committee Member for Workshop on Information Technologies and Systems (WITS), INFORMS Data Science Workshop, Conference on Information Systems and Technology (CIST), China Summer Workshop on Information Management (CSWIM), International Conference on Social Computing, Behavioral-Cultural Modeling, & Prediction (SBP), International Conference on Electronic Commerce (ICEC), IEEE International Conference on Healthcare Informatics (ICHI), IEEE International Conference on Social Computing (SocialCom), International Conference for Smart Health (ICSH), ACM KDD Big Scholar Workshop.
- Ad-hoc journal reviewer
 - ACM Transactions on Intelligent Systems and Technology
 - ACM Transactions on Management Information Systems
 - Annals of Operations Research
 - Communications of the Association for Information Systems
 - Computers in Biology and Medicine
 - Decision Sciences
 - Decision Support Systems
 - Electronic Commerce Research and Applications
 - IEEE Intelligent Systems
 - IEEE Transactions on Computational Social Systems
 - IEEE Transactions on Engineering Management
 - IEEE Transactions on Systems, Man and Cybernetics: Systems
 - Information and Management
 - Information Systems and e-Business Management
 - Information Systems Research

International Journal of Electronic Commerce
 Journal of the Association for Information Science and Technology
 Journal of the Association for Information Systems
 Journal of Information Science
 Journal of Management Information Systems
 Journal of Medical Internet Research
 Journal of Operations Management
 INFORMS Journal on Computing
 MIS Quarterly
 Management Science
 Neural Computing and Applications
 Simulation
 Social Network Analysis and Mining

- Ad-hoc conference reviewer for ACM Conference on Knowledge Discovery and Data Mining (KDD), International Conference on Information Systems for Crisis Response & Management (ISCRAM), Hawaii International Conference on System Sciences (HICSS), Pacific Asia Conference on Information Systems (PACIS).
- Member, Research Steering Committee, Tippie College of Business. 2015-2017, 2018-Present.
- Member, Undergraduate Program Committee, Dept. of Management Sciences. 2017-Present.
- Member, Graduate Program Committee, Dept. of Management Sciences. 2012-2015.
- Member, Research Committee, Dept. of Management Sciences. 2018-Present.
- Member, Faculty Recruitment Committee, Dept. of Management Sciences. 2013, 2015, 2017.
- Coordinator, Tippie Brown-bag Series on Computational Data Science. 2018.
- Coordinator, Dept. of Management Sciences Seminars. 2012-2013.

GRADUATE STUDENT ADVISING

- PhD students advising (programs, years of final defense, and placements if available):
 - Zhiya Zuo (Informatics)
 - John Rios Rodriguez (Management Sciences)
 - Xiangyu Wang (Informatics)
 - Xi Wang (Informatics, 2017. Assistant Professor, Central Univ. of Finance & Economics, China)
 - Kristina Bigsby (Informatics, 2018. co-advising with Prof. Jeffrey Ohlmann)
- MS students advising (programs and years of degree conferral if available):
 - Shiyao Wang (Computer Science, 2016)
 - Joshi Apoorva (Electrical and Computer Engineering, 2018)
- PhD dissertation committee members (programs and years of final defense if available):
 - Mike Rechenthin (Management Sciences, 2014)
 - Charisse Madlock-Brown (Informatics, 2014)
 - Chao Yang (Computer Science, 2015)
 - Senay Yasar Saglam (Management Sciences, 2015)
 - Yang Zhang (Political Science, 2016)
 - Emily White (Geography, 2016)
 - Wenjun Wang (Management Sciences, 2016)
 - Haoyi Xiong (Geography)
 - Yuanyang Liu (Management Sciences)
 - Amin Khezerlou (Management Sciences)
 - Huyen T. Le (Computer Science)

CAMPUS AND COMMUNITY ACTIVITIES

- President – Graduate Student Association of IST, Penn State University.

2010-2011

- Board member – Chinese Friendship Association, Penn State University. 2008-2009
- President – Undergraduate Class at Beijing Institute of Technology. 1999-2003