

CURRICULUM VITAE

Dr. Jing Li

Associate Professor in Industrial Engineering & Computer Engineering
Co-director of ASU-Mayo Clinic Imaging Informatics Laboratory

School of Computing, Informatics and Decision Systems Engineering
Arizona State University, Tempe, AZ, 85287-5906

Tel: (480)965-0125 (O)

Email: jinglz@asu.edu

URL: <http://www.public.asu.edu/~jli09/>

EDUCATION

Ph.D. 2007, Industrial and Operations Engineering, University of Michigan
(Advisor: Dr. Jianjun (Jan) Shi)

M.A. 2005, Statistics, University of Michigan

B.S. 2000, Civil Engineering, Tsinghua University, P. R. China

EMPLOYMENT

Associate Professor, Industrial Engineering, Computer Engineering, Arizona State University, 2013~present

Graduate Program Chair, Industrial Engineering, Arizona State University, 2013~2014

Assistant Professor, Computer Engineering, Arizona State University, 2011~2013

Assistant Professor, Industrial Engineering, Arizona State University, 2007~2013

HONORS AND AWARDS

- Harold Wolff-John Graham Award (Best Paper) by the American Academy of Neurology, 2016
- Harold G. Wolff Lecture Award (Best Paper) by the American Headache Society, 2015
- IIE Transactions Best Paper Award, 2014
- Outstanding Junior Faculty Award, School of Computing, Informatics and Decision Systems Engineering, ASU, 2013
- NSF CAREER Award, 2012
- Best Paper Award from Industrial Engineering Research Conference, 2008

- Distinguished Academic Achievement Award, University of Michigan, 2007
- Best Paper Award from Industrial Engineering Research Conference, 2006
- Rackham Predoctoral Fellowship, University of Michigan, 2006~2007
- Barbour Scholarship for Women Students, University of Michigan, 2006~2007

RESEARCH INTEREST

My research is statistical modeling and machine learning intersecting with systems or domains having complex data structures, such as multi-source, multi-level, and high-dimensionality. Specifically, I have been working on the following areas:

- Health analytics

Funded by National Institutes of Health (NIH), Mayo Clinic, and the state of Arizona.

- Integrative modeling and analysis of medical imaging, genomics, and clinical data toward personalized medicine. Focused diseases include solid tumor cancer, migraine, and the Alzheimer's disease.
- Health care system informatics for quality and process improvement

- Network analytics

Funded by US Army

- Machine learning methods for network big data
- Monitoring, anomaly detection, and prognostics in large communication networks

- Transfer learning based process modeling, control, and performance improvement of production systems

Funded by NSF.

RESEARCH GRANTS

- NSF-CMMI, "CAREER: Transfer Learning Based Quality Improvement in Spatially-Temporally Complex Systems," 2012-2018, \$400,000, PI.
- NIH-NICHHD (R21), "Toward New Classification Criteria for Mild and Moderate Traumatic Brain Injury by a Data-Inclusive Cross-Study Analysis using FITBIR," 2016-2018, \$436,374, multi-PI (Role: Dr. Li collaborates with Dr. Todd Schwedt (multi-PI) in Neurology of Mayo Clinic and Dr. Teresa Wu in ASU.)
- NIH-NIA (STTR Phase I), "Multi-Modality Image Data Fusion and Machine Learning Approaches for Personalized Diagnostics and Prognostics of MCI due to AD," 2016-2017, \$149,936, co-PI (Role: Dr. Li collaborates with Dr. Fleming Y. M. Lure (PI) in MS Technologies Corp and Dr. Teresa Wu in ASU.)
- NIH-NINDS (R21), "MRI-based Mapping for Identification of Genomic Diversity

in Glioblastoma,” 2013-2016, \$440,000, co-PI (Role: Dr. Li collaborates with Dr. Leland Lu (PI) in Radiology of Mayo Clinic, Dr. Teresa Wu, and researchers in Translational Genomics Research Institute.)

- Mayo Clinic. Dr. Li has been a PI or co-PI for four projects since 2013 with total funding of \$522, 731.
 - “Application of MRI-based Maps of Histologic Invasion and Genetic Heterogeneity to Guide Surgical Biopsy and Resection in Glioblastoma,” 2016-2017, \$75,000, PI (Role: Dr. Li collaborates with Dr. Leland Hu in Radiology.)
 - “CORE-Utilization of Standardized Reports and Novel Quantitative Imaging Tools to Improve Tumor Response Measurement Accuracy, Diagnostic Outcomes and End-User Satisfaction,” 2015-2016, \$114,000, co-PI (Role: Dr. Li collaborates with Dr. Alvin Silva in Radiology and Dr. Teresa Wu (PI) in ASU.)
 - “Developing Quantitative Models for Linking Radiation Treatment Options with Clinical Outcomes,” 2014-2017, \$92,000, PI (Role: Dr. Li collaborates with Dr. Mirek Fatyga in Radiation Oncology.)
 - “Radiology Informatics -Automated System Development to Improve Efficiency, Safety and Quality in Radiology,” 2013-2016, \$241,734, co-PI (Role: Dr. Li collaborates with Dr. Amy Hara in Radiology and Dr. Teresa Wu (PI) in ASU.)
- ASU-Mayo Seed Grant, “Improving the Accuracy of Breast Cancer Screening Using Contrast-Enhanced Digital Mammography and Novel Textural Analysis Tools,” 2015-2016, \$50,000, co-PI (Role: Dr. Li collaborates with Dr. Bhavika Patel in Radiology of Mayo Clinic and Dr. Teresa Wu (PI) in ASU.)
- ASU-Mayo Seed Grant, “Magnetic Resonance Imaging Texture Analysis for the Discrimination of Human Papilloma Virus Related Oropharyngeal Cancer,” 2014-2015, \$50,000, PI (Role: Dr. Li collaborates with Dr. Joseph Hoxworth in Radiology of Mayo Clinic.)
- Intel Corporation, “Equipment Effects Causation Statistical Analysis,” 2015, \$1,000, PI (Role: Dr. Li collaborates with Dr. Andrew Gough in Intel in this project.)
- NSF-CMMI, “Collaborative Research: Multi-Level Data Fusion for Real-Time Prognostic Health Management of Hierarchical Systems,” 2011-2016), \$438,185, PI (Role: Dr. Li collaborates with Dr. Jian Liu in U of Arizona.)
- ASU Rising Star Grant, “A Computational Infrastructure to Support Evidence-based Proton Beam Treatment Planning,” 2013-2014, \$50,000, PI (Role: Dr. Li collaborates with Dr. Mirek Fatyga (co-PI in Mayo Clinic) and Dr. Teresa Wu (co-PI in ASU) in this project.)

- US. Army EPG (Electronic Proving Ground), “Big Data in Large Communication Networks – Mining and Visualization,” 2012-2014, \$300,858, PI (Role: Dr. Li is the sole investigator in this project.)
- Army Research Office, “Novel Network Statistics for Modern Social Interaction Modeling and Inference,” 2012-2013, \$50,000, PI (Role: Dr. Li is the sole investigator in this project.)
- Joint NIH-NIGMS and NSF-DMS (funded through NIH R01) “Sparse Structure Identification from High-Dimensional Epigenomic Data by Novel Statistical Methods,” 2010-2014 (extended to 2015), \$1,132,877, co-PI (Role: Dr. Li collaborates with Dr. Ji Zhu (PI in U of Michigan) and Dr. Wei Wang (co-PI in UCSD) in this project.)
- NSF-CMMI, “Regression-based Quality Improvement in Complex Systems with Consideration of Data Uncertainty,” with an REU supplement, 2008-2013, \$190,476, PI (Role: Dr. Li is the sole investigator in this project.)
- Arizona Department of Transportation, "Effectiveness of Young Driver Training and Graduated Licensing Laws," 2008-2011, \$200,000, co-PI (Role: Dr. Li collaborates with Dr. Rong Pan (PI in ASU) in this project.)
- Arizona Alzheimer's Consortium, "Heterogeneous Data Fusion and Analysis for Alzheimer's Disease Study," 2008-2009, \$10,000, co-PI (Role: Dr. Li collaborates with Drs. Jieping Ye (PI in ASU) and Teresa Wu (co-PI in ASU) in this project.)

PUBLICATIONS

Journal Papers

(Authors in italic are my students)

1. Hu, L.S., *Ning, S.*, Eschbacher, J.M., Baxter, L.C., Gaw, N., ..., & **Li, J.**, “Radiogenomics to Characterize Regional Genetic Heterogeneity in Glioblastoma.” Neuro-Oncology (impact factor: 7.371), in press.
2. *Zou, N.*, **Li, J.**, “Modeling and Change Detection of Dynamic Network Data by a Network State Space Model,” IIE Transactions, in press.
3. Chong, C., *Gaw, N.*, *Fu, Y.*, **Li, J.**, Wu, T., Schwedt, T., 2016, “Migraine Classification Using Magnetic Resonance Imaging Resting-State Functional Connectivity Data”, Cephalalgia (impact factor: 6.052). 0333102416652091. *(This paper received the Harold Wolff-John Graham Award from the American Academy of Neurology.)*
4. *Zou, N.*, Baydogan, M., Zhu, Y., Wang, W., Zhu, J., **Li, J.**, 2015, “A Transfer Learning Approach for Predictive Modeling of Degenerate Biological Systems,” Technometrics, 55(3):362-373.
5. Hu, L. S., *Ning, S.*, Eschbacher, J. M., *Gaw, N.*, Dueck, A. C., Smith, K. A., ... & **Li, J.**, 2015, “Multi-Parametric MRI and Texture Analysis to Visualize Spatial

- Histologic Heterogeneity and Tumor Extent in Glioblastoma," PloS one, 10(11): e0141506.
6. Titov, N., Diehl-Schmid, J., Shi, K., Perneczky, R., Zou, N., Förster, S., Grimmer, T., **Li, J.**, Drzezga, A., Yakushev, I. "Metabolic Connectivity for Differential Diagnosis of Dementing Disorders." 2015. Journal of Cerebral Blood Flow & Metabolism (impact factor: 4.929). 0271678X15622465.
 7. Schwedt, T., Chong, C., Gaw, N., Fu, Y., Wu, T., **Li, J.**, 2015, "Accurate Classification of Chronic Migraine via Brain Magnetic Resonance Imaging", Headache (impact factor: 2.961), 55(6):762-77. (This paper received the Harold G. Wolff Lecture Award from the American Headache Society.)
 8. Huang, S., **Li, J.**, Lamb, G., Schmitt, M., and Fowler, J., 2014, "Multi-data Fusion for Enterprise Quality Improvement by a Multilevel Latent Response Model," IIE Transactions, 46(5), 512-525.
 9. Zou, N., Chetelat, G., Baydogan, M., **Li, J.**, Fischer, F., Titov, D., Dukart, J., Fellgiebel, A., Schreckenberger, M., Yakushev, I., 2014, "Metabolic Connectivity as Index of Verbal Working Memory," Journal of Cerebral Blood Flow & Metabolism (impact factor: 4.929)., 35:1122-1126.
 10. Li, M., Liu, J., **Li, J.**, Kim, B., 2014, "Bayesian Modeling of Multi-state Hierarchical Systems with Multi-level Information Aggregation," Reliability Engineering & System Safety, 124, 158-164.
 11. Huang, S., **Li, J.**, Ye, J., Fleisher, A., Chen, K., Wu, T., and Reiman, E., 2013, "A Sparse Structure Learning Algorithm for Bayesian Network Identification from High-Dimensional Data," IEEE Transactions on Pattern Analysis and Machine Intelligence, 35(6), 1328-1342. (The student author of this paper received Best Student Paper Award (2nd place) in Quality Statistics and Reliability Subdivision of INFORMS Annual Conference 2011.)
 12. Inman, R.R., Blumenfeld, D.E., Huang, N., Li, J., and **Li, J.**, 2013, "Survey of Recent Advances on the Interface between Production System Design and Quality," IIE Transactions, 45(6), 557-574.
 13. Huang, S., **Li, J.**, Chen, K., Wu, T., Ye, J., Wu, X., and Li, Y., 2012, "A Transfer Learning Approach for Network Modeling," IIE Transactions, 44(11), 1-17. (This paper received IIE Transactions Best Paper Award).
 14. Lyon, J., Pan, R., and **Li, J.**, 2011, "National Evaluation of the Effect of Graduated Driver Licensing Laws on Teenager Fatality and Injury Crashes," Journal of Safety Research, 43(1), 29-37.
 15. **Li, J.**, and Jin, J., 2010, "Optimal Sensor Allocation by Integrating Causal Models and Set-Covering Algorithms," IIE Transactions, 42(8), 564-576. (This paper received Best Paper Award in Industrial Engineering Research Conference 2008.)
 16. **Li, J.**, and Huang, S., 2010, "Regression-based Process Monitoring with

- Consideration of Measurement Errors," IIE Transactions, 42(2), 146-160. (This paper was selected as a Feature Article by IIE Magazine.)
17. Huang, S., Li, J., Sun, Li., Ye, J., Fleisher, A., Wu, T., Chen, K., and Reiman, E., 2010, "Learning Brain Connectivity of Alzheimer's Disease by Sparse Inverse Covariance Estimation," NeuroImage (impact factor: 6.357), 50, 935-949.
 18. Huang, S., Pan, R., and Li, J., 2010, "A Graphical Technique and Penalized Likelihood Method for Identifying and Estimating Infant Failures," IEEE Transactions on Reliability, 59(4), 650-660.
 19. Li, J., Xie, H., and Jin, J., 2010, "Optimal Process Adjustment by Integrating Production Data and Design of Experiments," Quality and Reliability Engineering International, 27(3), 327-336.
 20. Jin, J. and Li, J., 2009, "Multiscale Mapping of Aggregated Signal Features to Embedded Time-Frequency Localized Operations Using Wavelets," IIE Transactions, 41(7), 615-625 (This paper was selected as a Feature Article by IIE Magazine.)
 21. Li, J., Jin, J., and Shi, J., 2008, "Causation-based T² Decomposition for Multivariate Process Monitoring and Diagnosis," Journal of Quality Technology, 40(1), 46-58 (This paper received Best Paper Award in Industrial Engineering Research Conference 2006.)
 22. Li, J., Huang, K.Y., Jin, J., and Shi, J., 2008, "A Survey on Statistical Methods for Health Care Fraud Detection," Health Care Management Science, 11, 275-287.
 23. Li, J., Shi, J., and Satz, D., 2008, "Modeling and Analysis of Disease and Risk Factors through Learning Bayesian Network from Observational Data," Quality and Reliability Engineering International, 24, 291-302.
 24. Li, J., and Shi, J., 2007, "Knowledge Discovery from Observational Data for Process Control using Causal Bayesian Networks," IIE Transactions, 39 (6), 681 - 690.
 25. Li, J., Shi, J., and Chang, T.S., 2007, "On-line Seam Detection in Rolling Processes using Snake Projection and Discrete Wavelet Transform," ASME Transactions, Journal of Manufacturing Science and Engineering, 129(5), 926-933.
 26. Lin, G., Li, J., Hu, S. J., and Cai, W., 2007, "A Computational Response Surface Study of 3D Aluminum Hemming using Solid-to-Shell Mapping," ASME Transactions, Journal of Manufacturing Science and Engineering, 129(2), 360-368.
 27. Jin, R., Li, J., and Shi, J., 2007, "Quality Prediction and Control in Rolling Processes using Logistic Regression," Transactions of NAMRI/SME, 35, 113-120.
 28. Liu, J., Li, J., and Shi, J., 2005, "Integration of Engineering Knowledge Driven Cause-Effect Modeling and Statistical Analysis for Multi-Operational Machining Process Diagnosis," Transactions of NAMRI/SME, 33, 65-72.

Conference Papers (peer-reviewed, acceptance rate < 20%)

1. Huang, S., Li, J., Ye, J., Wu, T., Chen, K., Fleisher, A., Reiman, E., "Identifying Alzheimer's Disease-Related Brain Regions from Multi-Modality Neuroimaging Data using Sparse Composite Linear Discrimination Analysis," The 25th Annual Conference on Neural Information Processing Systems (NIPS 2011) (paper acceptance rate 4.8%) December 13-15, 2011, Granada, Spain.
2. Huang, S., Li, J., Ye, J., Fleisher, A., Chen, K., and Wu, T., Reiman, E., "Brain Effective Connectivity modeling for Alzheimer's Disease by Sparse Bayesian Network," The 17th ACM SIGKDD International Conference on Knowledge Discovery & Data Mining (KDD 2011) (paper acceptance rate 17.5%), August 21-24, 2011, San Diego, USA.
3. Huang, S., Li, J., Sun, Li., Ye, J., Chen, K., and Wu, T., Fleisher, A., and Reiman, E., "Learning Brain Connectivity of Alzheimer's Disease from Neuroimaging Data," NIPS 2009 (paper acceptance rate 8%), December 7-9, 2009, Vancouver, B.C., Canada.
4. Sun, L., Patel, R., Liu, J., Chen, K., Wu, T., Li, J., Reiman, R., and Ye, J., 2009, "Mining Brain Region Connectivity for Alzheimer's Disease Study via Sparse Inverse Covariance Estimation," KDD 2009 (paper acceptance rate 9.8%), June 28-July 1, 2009, Paris, France.
5. Ye, J., Chen, K., Wu, T., Li, J., Zhao, Z., Patel, R., Bai, M., Janardan, R., Liu, H., Alexander, G., and Reiman, E., 2008, "Heterogeneous Data Fusion for Alzheimer's Disease Study," KDD 2008 (paper acceptance rate 14%), August 24-27, 2008, Las Vegas, USA.

TEACHING

- Graduate course "Statistical Learning and Predictive Models," IE, ASU.
- Graduate course "Advanced Quality Control," IE, ASU.
- Undergraduate course "Quality Control," IE, ASU.
- Undergraduate course "Engineering Statistics with Probability," IE, ASU.
- Undergraduate course "Introduction to Industrial Engineering," IE, ASU.

INVITED TALKS

- Panel Discussion on Publishing in Quality and Reliability: The Editors' Perspective," INFORMS Annual Conference, Nashville, 2016
- "Faulty Equipment Identification in Semiconductor Manufacturing Processes," Center of Quality and Data Science, Chinese Academy of Sciences, Beijing, China, 2016

- “IEEE Intelligent Systems Invited Panel Discussion on Healthcare Intelligence,” INFORMS Annual Conference, Philadelphia, 2015
- “Regression-based Process Monitoring with Consideration of Measurement Errors,” IIE Transactions invited session, INFORMS Annual Conference, Philadelphia, 2015
- “Semiconductor Corner Lot Generation Robust to Process Variation - Modeling and Analysis,” Center of Quality and Data Science, Chinese Academy of Sciences, Beijing, China, 2015
- “Transfer Learning in Quality and Reliability Engineering,” Academy of Mathematics & System Sciences, Center of Quality and Data Science, Chinese Academy of Sciences, Beijing, China, 2014
- “Test Data Analytics for Large Communication Network Traffic Modeling and Visualization,” US Army Electronic Proving Ground, 2013
- “Multi-level Information Aggregation for Health Monitoring of Hierarchical Systems,” Center of Quality and Data Science, Chinese Academy of Sciences, Beijing, China, 2012
- “Computational Informatics in Production and Health systems,” University of Wisconsin-Madison, 2012
- “Transfer Learning in Data Fusion with Applications in Health Care,” Beijing University of Science and Technology, 2011
- “Regression-based Process Monitoring with Consideration of Measurement Errors,” IIE Transactions invited session, INFORMS Annual Conference, Austin, 2010
- “Transfer Learning of Exploratory Graphical Models with Application in Alzheimer’s Disease,” University of Wisconsin-Madison, 2009
- “Transfer Learning of Exploratory Graphical Models with Application in Alzheimer’s Disease,” Georgia Tech, 2009
- "Learning Brain Connectivity of Alzheimer’s Disease by Exploratory Graphical Models," the First International Conference on the Interface between Statistics and Engineering, Beijing, China, 2009.
- “Causation-based Methodologies with Applications in Health Care,” University of Pittsburgh, 2009
- “Multitask Learning of Bayesian Networks with Application in Alzheimer’s Disease Study,” Center of Quality and Data Science, Chinese Academy of Sciences, Beijing, China, 2009.
- “Causation-based T^2 Decomposition for Multivariate Process Monitoring and Diagnosis,” Journal of Quality Technology invited session: Data and Knowledge

Engineering for Quality, INFORMS Annual Conference, D.C., 2008

- “Causation-based Quality Control Methodologies and Applications,” Center of Quality and Data Science, Chinese Academy of Sciences, Beijing, China, 2008.

ADVISEES

Ph.D. students

- Shuai Huang (graduated in 2012; current position: Assistant Professor, Department of Industrial & Systems Engineering, University of Washington). Thesis: Novel Statistical Models for Complex Data Structures
- Na Zou (graduated in 2015; current position: Assistant Instructional Professor, Department of Industrial & Systems Engineering, Texas A&M). Thesis: A Probabilistic Framework of Transfer Learning – Theory and Application
- Shuluo Ning (expected to graduate in 2016). Thesis: Imagenomics – Use Radiologic Imaging to Inform Tumor Genomics, Progression, and Treatment Response by Advanced Predictive Analytics
- Bing Si (expected to graduate in 2016). Thesis: Transfer Learning based Modeling and Process Improvement of Evolving Systems.
- Kun Wang (expected to graduate in 2016). Thesis: Efficient and Parallel Algorithms for Modeling and Analysis of Network Big Data.
- Xiaonan Liu (expected to graduate in 2017). Thesis: TBD
- Nathan Gaw (expected to graduate in 2018). Thesis: TBD

M.S. students

- Junghae Kim (graduated in 2009). Thesis: Linking Care Coordination with Patient Outcomes by Modeling and Analysis of Multi-level Multi-source Health Care Data
- Andrew Gough (graduated in 2014). Thesis: Semiconductor Sample Generation Experimental Designs Robust to Random Process Shocks
- Burhan Şentürk (graduated in 2014). Thesis: Mining and Visualization of Large Communication Network Traffic Data for Quality of Service Estimation, Monitoring, and Diagnostics.

Undergraduate students

- Andrew Hieber (NSF-REU, 2008-2009)
- Vanessa Soronson (ASU-FURI, 2008-2009)
- Garrett Austin (NSF-REU, 2011-2012)

- Nathan Gaw (NSF-REU, 2012-2013)

Postdoc

- Mustafa Baydogan (2012-2013; current position: Assistant Professor, Department of Industrial Engineering, Bogazici University, Turkey)

Visiting scholar

- Hua Zhang (MD and Associate Professor, Department of Internal Neurology, Beijing University of Chinese Medicine, 2009-2010)

PROFESSIONAL SERVICE

Editorial Activities

- Editor-in-Chief, Quality Technology & Quantitative Management, 2016-present
- Editorial Board, Journal of Quality Technology, 2014-present
- Associate Editor, IIE Transactions on Healthcare Systems Engineering, 2014-present
- Associate Editor, Quality Technology & Quantitative Management, 2013-2015
- Associate Editor, Journal of Chinese Institute of Industrial Engineers, 2010-present
- Guest Editor, IIE Transactions Special Issue on Integration of Manufacturing System Design and Quality Management, 2012
- Guest Editor, Journal of Quality and Reliability Engineering International Special Issue on Data Mining, 2013
- Guest Editor, Journal of Quality and Reliability Engineering International Special Issue on INFORMS 2009 Annual Conference, 2010

Society Activities

- Chair, INFORMS Subdivision on Data Mining, 2011-2012
- Chair-elect, INFORMS Subdivision on Data Mining, 2010-2011
- Elected Council Member, INFORMS Section on Data Mining, 2009-2010

Conference Organizing Activities

- Program Committee, the 33rd Quality and Productivity Research Conference, Tempe, AZ, 2016
- Program Chair, the 2nd International Symposium on System Informatics and Engineering; theme: Big Data, Data Mining, Data Quality (consisting of 18 technical sessions and panels), Xi'an, China, 2013
- Organizer and Chair, Data Mining Cluster/Track (consisting of 23 technical

sessions and panels), INFORMS Annual Conference, Charlotte, 2011

- Organizer and Chair, panel discussion on “Funding Opportunities from NSF, NIH, and DOD,” INFORMS Annual Conference, Charlotte, 2011
- Organizer and Chair, panel discussion on “Research on the Interface between Statistics and OR,” INFORMS Annual Conference, Austin, 2010
- Organizing Committee, INFORMS Regional Conference, Tempe, AZ, 2009
- Organizer and Chair, panel discussion on “Health Care in System Engineering: Past, Present, and Future Directions,” INFORMS Annual Conference, San Diego, 2009
- Organizer and Chair (also led paper review committee), the 3rd pre-INFORMS Workshop on Data Mining and Health Informatics, D.C., 2008

University-wide Service

- SCIDSE Personnel Committee, ASU, 2016-present
- SCIDSE Director Search Committee, ASU, 2016
- Faculty Advisor, IIE Student Chapter, ASU, 2010-2013
 - ASU IIE Student Chapter won the 2011 Gold Award
 - Three students nominated in 2012 all won IIE scholarships and fellowships
- Graduate Program Committee, IE, ASU, 2012-2013
- Faculty Search Committee, IE, ASU, 2011, 2013, 2015
- Faculty Honors Advisor, Barrett Honors College, ASU, 2009-2013
- Undergraduate Affairs Committee, IE, ASU, 2007~2012

Professional Affiliations

- Member of Institute of Industrial Engineers (IIE)
- Member of Institute for Operation Research and the Management Sciences (INFORMS)
- Member of American Society for Quality (ASQ)

OUTREACH

- Faculty advisor, IE Envoy (an outreach project that sends IE faculty and students to high school classrooms to introduce and promote IE)
- Faculty advisor, IE Website for High School Students (an outreach project that designs a kids friendly website to introduce and promote IE),
<http://ietohighschool.engineering.asu.edu/>