

## Haitao Liao, Ph.D.

Professor of Department of Industrial Engineering  
University of Arkansas, Fayetteville, AR 72701, USA  
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### Education

Rutgers University, New Brunswick, NJ	Industrial and Systems Engineering	Ph.D.
Rutgers University, New Brunswick, NJ	Applied and Mathematical Statistics	M.S.
Rutgers University, New Brunswick, NJ	Industrial and Systems Engineering	M.S.
Beijing Institute of Technology, Beijing	Electrical Engineering	B.S.

### Professional Experience

- **Professor (tenured)**, Department of Industrial Engineering, University of Arkansas (08/2015 - present)  
**John & Mary Lib White Endowed Systems Integration Chair** (08/2018 – present)  
**Graduate Program Coordinator** (08/2018 – 08/2020)  
**Hefley Professorship in Logistics and Entrepreneurship** (08/2015 – 07/2018)
- **Associate Professor (tenured)**, Department of Systems & Industrial Engineering, University of Arizona (01/2012 – 07/2015)  
**Graduate Program Coordinator** (08/2013 – 07/2015)
- **Assistant Professor**, Department of Industrial & Information Engineering and Department of Nuclear Engineering, University of Tennessee – Knoxville (08/2008 – 12/2011)
- **Assistant Professor**, Department of Industrial & Manufacturing Engineering, Wichita State University (08/2005 – 07/2008)
- **Postdoc Fellow**, NSF Center for Intelligent Maintenance Systems, University of Wisconsin-Milwaukee (11/2004 – 05/2005)

### Areas of Expertise

**Reliability Engineering** – Reliability Testing, Diagnostics, Prognostics, Smart Maintenance

**Applied Probability and Statistics** – Data Analytics and Applications (e.g., 3-D printing)

**Applied Operations Research** – System Reliability Optimization, Service Logistics

**Risk Analysis** – Probabilistic Risk Assessment, Uncertainty Analysis

**Sensors and Signal Processing** – Feature Extraction, Data Recovery

### Courses Taught

<b>Wichita State University</b>	Engineering Probability & Statistics II; Information Systems; Reliability & Maintainability Engineering; Risk Analysis
<b>University of Tennessee</b>	Introduction to Reliability Engineering; Introduction to Maintainability Engineering; Process System Reliability & Safety
<b>University of Arizona</b>	Engineering Probability and Statistics; Reliability Engineering; Production Systems Analysis; Advanced Reliability Engineering
<b>University of Arkansas</b>	Applied Probability & Statistics for Engineers I; Engineering Statistics (Probability & Mathematical statistics); Design of Industrial Experiments; Intro. to Reliability Engineering

### Selected Funded Projects

*PI as Sole Investigator (~\$1M)*

- Collaborative Research: Automated Knowledge Discovery in Reliability and Healthcare from Complex Data with Covariates (\$176,860; 08/2016 - 01/2020), **PI, NSF**, #CMMI 1635379.
- Collaborative Research: Defect Modeling and Process Optimization for NW Growth towards Improved Nanodevice Reliability (\$168,000; 09/2011 - 08/2015), **PI, NSF**, #CMMI 1129658.

- Wind Energy and Sustainable Energy Solutions (Subcontract from Wichita State University), (\$100,000; 09/2010 - 09/2011), **PI, DoE**.
- Reliability, Availability, Maintainability and Inspectability Analysis of Spallation Neutron Source System (Phase I - \$10,000; 04/2010 - 07/2010; Phase II - \$42,799; 08/2010 - 05/2011), **PI, Oak Ridge National Laboratory**, #ORNL 4000092209.
- CAREER: Adaptive Operational Coordination Methodology for Uncertainty Reduction in Product Life Cycle Reliability and Service Logistics (\$400,000; 02/2010 - 01/2016), **PI, NSF**, #CMMI 0954667.
- Collaborative Research: Design of Equivalent Accelerated Life Testing Plans Involving Single or Multiple Stresses (\$133,176; 08/2006 - 01/2010), **PI, NSF**, #CMMI 0619984/0855812.
- University Research/Creative Projects Award: Integrated Approach for Optimizing Maintenance Schedules under Time-varying Operating Conditions (\$4,500; 01/2006 - 06/2006), **PI**, Office of Research Administration, Wichita State University.

#### *Team Effort*

- EPSCoR Track-1 Data Science: Data Analytics that are Robust and Trusted (DART): From Smart Curation to Socially Aware Decision Making (\$4,303,221; 07/2020 - 06/2025), PI - Stanley, S., Co-PI - Cothren J. and key personnel, by the **NSF**, #OIA 1946391.
- Bayesian Accelerated Reliability Growth Testing for Systems of Systems (\$374,600; 10/2018 - 09/2022), PI - Pohl, E., Co-PIs - Liao, H. and Sullivan, K., by **Office of the Secretary of Defense**, DT&E (through Air Force Institute of Technology).
- EAGER: SSDIM: Data Simulation for Interdependence Modeling, Coordination and Emergency Response with Application in Multimodal Transportation (\$200,000; 09/2017 - 08/2020), **PI** - Liao, H., Co-PIs - Nachtmann, H., Shi, X., by **NSF**, #CMMI 1745353.
- A Proof of Concept for Adaptive Health Management of Cyber-Manufacturing Systems (\$21,858; 07/01/2017 - 06/30/2018) PI - Jensen, D., Co-PI - Liao, H., by Engineering Research and Innovation Seed Funding, College of Engineering, University of Arkansas.
- Resource-constrained Accelerated Reliability Growth Testing Technology for Systems of Systems (\$318,000; 06/2016 - 05/2019), PI - Pohl, E., Co-PIs - Liao, H. and Sullivan, K., by **Office of the Secretary of Defense**, DT&E (through Air Force Institute of Technology).
- Coordinating Machine Maintenance and Distributed Scheduling for Multi-factory Production (HK \$780,977; 09/2010 - 08/2013), PI - Chan, F.T.S. (The Hong Kong Polytechnic Uni.), Co-PI - Liao, H., by **Hong Kong Research Grants Council**.
- Faculty Development Program at the University of Tennessee (\$316,578; 05/2010- 04/2013), **PI** - Liao, H., Co-PI - Dodds, H.L., by the **U.S. Nuclear Regulatory Commission**.
- Exploration of a Statistically Accurate and Energy Efficient Accelerated Testing Methodology (\$298,462; 05/2010 - 04/2014), **PI** - Liao, H., Co-PI - Upadhyaya, B.R., by **NSF**, #CMMI 0969060.
- Multidisciplinary Research Project Award: Fundamental Research on Degradation Analysis of Nanocomposites under Harsh Environments (\$5,000; 01/2008 - 06/2008), PIs - Liao, H. and Asmatulu, R., by Office of Research Administration, Wichita State University.
- Integrated Vehicle Health Monitoring Requirements Definition (\$200,000; 07/2007 - 06/2008), PI - Steck, J.E., Co-PIs - Horn, W.J. and Liao, H., NIAR/Industry/State of Kansas.
- Metadata Enabled Systems Engineering Thinking Tool (\$120,000; 08/2007 - 07/2008), PI - Malzahn, D., Co-PI - Liao, H., by **NIS program**.
- Condition Based Maintenance of Industrial Systems (HK \$576,000; 01/2007 - 12/2008), PI - Chan, L.Y. (Uni. Of Hong Kong), Co-PI - Liao, H., by **Hong Kong Research Grants Council**.
- Wichita State University Industry University Cooperative Research Center for the Reduction of Waste in Aerospace Logistic Systems (\$10,000; 05/2007 - 04/2009), PI - Twomey, J., Co-PIs - Liao, H., Whitman, L. and Yildirim, M.B., by **NSF**, #IIP 0654337.

#### *Grants for Laboratory Improvement*

- Partnership with Reliability and Intelligent Systems Engineering (RISE) Laboratory at the University of

- Arizona (Software and computers; \$600,000; 10/2012), PI, **ReliaSoft Corporation**.
- Partnership with Reliability and Intelligent Systems Engineering (RISE) Laboratory at the University of Arizona (\$122,411; 02/2012), PI, **Qualmark Corporation**.
- Sustainable Engineered Systems Laboratory: Equipment Proposal II (\$47,595; 04/2007), PI - Twomey, J., Co-PIs - Whitman, L., Yildirim, M.B., and Liao, H. (\$3,995), College of Engineering, Wichita State University.
- Sustainable Engineered Systems Laboratory: Equipment Proposal I (\$58,681; 02/2007), PI - Twomey, J., Co-PIs - Liao, H. (\$24,155), Whitman, L., and Yildirim, M.B., College of Engineering, Wichita State University.
- Reliability and Maintenance Engineering Laboratory (RMEL) (\$35,000; 02/2007), PI, College of Engineering, Wichita State University.

**Selected Publications (86 journal papers, 60 conf. papers, 5 book chapters) [\* student coauthor]**

- Karimi, S.\* , **Liao, H.**, and Fan, N., “Flexible Methods for Reliability Estimation Using Aggregate Failure-time Data”, *IIE Transactions*, Vol. 53(1), pp. 101-115, 2021.
- Liu, J.\* , **Liao, H.**, and White, J., “Queueing Analysis of the Replenishment of Multiple In-the-Aisle Pick Positions”, *IIE Transactions*, Vol. 53(1), pp. 1-20, 2021.
- Ruiz, C.\* , Luo, H.\* , **Liao, H.**, and Xie, W., “Component Replacement and Reordering Policies for Spare Parts Experiencing Two-phase On-shelf Deterioration”, *IIE Transactions*, Vol. 52(1), pp. 75-90, 2020.
- Jin, Y.\* , Pierson, H., and **Liao, H.**, “Toolpath Allocation and Process Scheduling for Concurrent Fused Filament Fabrication with Multiple Extruders”, *IIE Transactions*, Vol. 51(2), pp. 192-208, 2019.
- Jin, T., Taboada, H., Espiritu, J., and **Liao, H.**, “Allocation of Reliability-Redundancy and Spares Inventory under Poisson Fleet Expansion”, *IIE Transactions*, Vol. 49(7), pp. 737-751, 2017.
- Fathi Aghdam, F.\* , **Liao, H.**, and Huang, Q., “Modeling Interaction in Nanowire Growth Process toward Improved Yield”, *IEEE Transactions on Automation Science and Engineering*, Vol. 14(2), pp. 1139 - 1149, 2017.
- Hu, J., Jiang, Z., and **Liao, H.**, “Preventive Maintenance of a Batch Production System under Time-Varying Operational Condition”, *International Journal of Production Research*, Vol. 55(19), pp. 5681-5705, 2017.
- Hamidi, M.\* , **Liao, H.**, and Szidarovszky, F., “Noncooperative and Cooperative Game-Theoretic Models for Usage-based Lease Contracts”, *European Journal of Operational Research*, Vol. 255(1), pp. 163-174, 2016.
- Xu, Y.\* and **Liao, H.**, “Reliability Analysis and Redundancy Allocation for a One-Shot System Containing Multi-functional Components”, *IEEE Transactions on Reliability*, Vol. 65(2), pp. 1045-1057, 2016.
- Pascual, R., Santelices, G., **Liao, H.**, and Maturana, S., “Channel Coordination on Fixed-Term Maintenance Outsourcing Contracts”, *IIE Transactions*, Vol. 48(7), pp. 651-660, 2016.
- Zhang, D.\* and **Liao, H.**, “A Fully Integrated Double-loop Approach to the Design of Statistically and Energy Efficient Accelerated Life Tests”, *IIE Transactions*, Vol. 48(4), pp. 371-388, 2016.
- Liu, D., Zhou, J., **Liao, H.**, Peng, Y., and Peng, X., “A Health Indicator Extraction and Optimization Framework for Lithium-ion Battery Degradation Modeling and Prognostics”, *IEEE Transactions on Systems, Man and Cybernetics: Systems*, Vol. 45(6), pp. 915-928, 2015.
- Zhang, Y.\* and **Liao, H.**, “Analysis of Destructive Degradation Tests for a Product with Random Degradation Initiation Time”, *IEEE Transactions on Reliability*, Vol. 64(1), pp. 516-527, 2015.
- Fathi Aghdam, F.\* and **Liao, H.**, “Prognostics-based Two-operator Competition in Proactive Replacement and Service Parts Procurement”, *The Engineering Economist*, Vol. 59(4), pp. 282-306, 2014.
- Sun, J.\* , **Liao, H.**, and Upadhyaya, B., “A Robust Functional-Data-Analysis Method for Data Recovery in Multichannel Sensor Systems”, *IEEE Transactions on Cybernetics*, Vol. 44(8), pp. 1420-1431, 2014.
- Zhang, D.\* and **Liao, H.**, “Design of Statistically and Energy Efficient Accelerated Life Testing Experiments”, *IIE Transactions*, Vol. 46(10), pp. 1031-1049, 2014.
- Xie, W.\* , **Liao, H.**, and Jin, T., “Maximizing System Availability through Joint Decision on Component Redundancy and Spares Inventory”, *European Journal of Operational Research*, Vol. 237(1), pp. 164-176, 2014.
- Xie, W.\* , **Liao, H.**, and Zhu, X., “Estimation of Gross Profit for a New Durable Product Considering

- Warranty and Post-warranty Repairs”, *IIE Transactions*, Vol. 46(2), pp. 87-105, 2014.
19. Liu, D., Wang, H., Peng, Y., Xie, W.\*, and **Liao, H.**, “Satellite Lithium-ion Battery Remaining Cycle Life Prediction with Novel Indirect Health Indicator Extraction”, *Energies*, Vol. 6(8), pp. 3654-3668, 2013.
  20. Xie, W.\* and **Liao, H.**, “Some Aspects in Estimating Warranty and Post-Warranty Repair Demands”, *Naval Research Logistics*, Vol. 60(6), pp. 499-511, 2013.
  21. **Liao, H.** and Tian, Z., “A Framework for Predicting the Remaining Useful Life of a Single Unit under Time-varying Operating Conditions”, *IIE Transactions*, Vol. 45(9), pp. 964-980, 2013.
  22. Guo, H. and **Liao, H.**, “Methods of Reliability Demonstration Testing and Their Relationships”, *IEEE Transactions on Reliability*, Vol. 61(1), pp. 231-237, 2012.
  23. **Liao, H.** and Sun, J.\*, “Nonparametric and Semi-parametric Sensor Recovery in Multichannel Condition Monitoring Systems”, *IEEE Transactions on Automation Science and Engineering*, Vol. 8(4), pp. 744-753, 2011.
  24. Tian, Z. and **Liao, H.**, “Condition Based Maintenance Optimization for Multi-component Systems using Proportional Hazards Model”, *Reliability Engineering & System Safety*, Vol. 96, (5), pp. 581-589, 2011.
  25. Rausch, M.\* and **Liao, H.**, “Joint Production and Spare Part Inventory Control Strategy Driven by Condition Based Maintenance”, *IEEE Transactions on Reliability*, Vol. 59(3), pp. 507-516, 2010.
  26. **Liao, H.** and Elsayed, E.A., “Equivalent Accelerated Life Testing Plans for Log-Location-Scale Distributions”, *Naval Research Logistics*, Vol. 57(5), pp. 472-488, 2010.
  27. Zhu, Y., Elsayed, E.A., **Liao, H.**, and Chan, L.Y., “Availability Optimization of Systems Subject to Competing Risk”, *European Journal of Operational Research*, Vol. 202(3), pp. 781-788, 2010.
  28. **Liao, H.**, “Optimal Design of Accelerated Life Testing Plans for Periodical Replacement with Penalty”, *Naval Research Logistics*, Vol. 56(1), pp. 19-32, 2009.
  29. Guo, H., **Liao, H.**, Zhao, W.B., and Mettas, A., “A New Stochastic Model for Systems under General Repairs”, *IEEE Transactions on Reliability*, Vol. 56(1), pp. 40-49, 2007.
  30. **Liao, H.**, Elsayed, E.A., and Chan, L.-Y., “Maintenance of Continuously Monitored Degrading Systems”, *European Journal of Operational Research*, Vol. 175(2), pp. 821-835, 2006.
  31. **Liao, H.** and Elsayed, E.A., “Reliability Inference for Field Conditions from Accelerated Degradation Testing”, *Naval Research Logistics*, Vol. 53(6), pp. 576-587, 2006.
  32. Elsayed, E.A., **Liao, H.**, and Wang, X., “An Extended Linear Hazard Regression Model with Application to Time-dependent-dielectric-breakdown of Thermal Oxides”, *IIE Transactions*, Vol. 38(4), pp. 329-340, 2006.

*Edited Conference Proceedings*

- Guan, Y. and **Liao, H.** (eds.), Proceedings of Industrial and Systems Engineering Research Conference 2014, Montreal, Canada, May 31-June 03, 2014.

**Awards and Honors**

- The 2020 William A.J. Golomski Award for the paper: “Selective Maintenance of Multi-component Systems with Multiple Failure Modes” (co-authors: Cesar Ruiz and Edward Pohl) in the Proceedings of the 2020 Annual Reliability and Maintainability Symposium (RAMS), awarded by IISE Quality Control and Reliability Engineering (QCRE) Division, 01/2021
- 2019-2020 Outstanding Researcher Award, Department of Industrial Engineering, University of Arkansas, 05/2020.
- 2020 Outstanding Faculty Member of the Year, Graduate-Professional Student Congress (GPSC) and Associated Student Government (ASG), University of Arkansas, 04/2020.
- The 2019 International Conference on Mathematical Methods in Reliability (MMR) Best Paper Award for the paper: “Reliability Estimation from Multiple Degradation Processes with Dependent Random Effects” (co-authors: Cesar Ruiz [student], Edward Pohl, and Fuqiang Sun), 06/2019.
- IISE Fellow, elected in 2019.
- 2017-2018 Award for Excellence in Research Dissemination, College of Engineering, University of Arkansas, 05/2019.
- The 2019 Stan Ofsthun Award for the paper: “A Robust Tool for Estimating Field Reliability Using Aggregate Failure Time Data” (co-authors: Samira Karimi [student] and Edward Pohl) in the Proceedings of the 2019 Annual Reliability and Maintainability Symposium (RAMS), awarded by Society of Reliability

Engineers (SRE), 01/2019.

- John and Mary Lib White Systems Integration Chair, University of Arkansas, 08/2018.
- 2017-2018 Outstanding Faculty Member, Arkansas Academy of Industrial Engineering, 04/2018.
- The 2017 William A.J. Golomski Award for the paper: “Reliability Study on High-K Bi-layer Dielectrics” (co-author: Faranak Fathi Aghdam [student]) in the Proceedings of the 2017 RAMS, awarded by IISE Quality Control and Reliability Engineering (QCRE) Division, 01/2018.
- Alan O. Plait Award for Tutorial Excellence for the tutorial: “Practical Approaches for Reliability Evaluation Using Degradation Data [2015-2017]” (co-author: Huairui Guo) at RAMS, 01/2018.
- PHM-Harbin Best Paper Award for the paper: “Comparison Study on General Methods for Modeling Lifetime Data with Covariates” (co-author: Samira Karimi [student]) in Proceedings of 2017 Prognostics and System Health Management Conference, 07/2017.
- 2016-2017 Outstanding Researcher Award, Department of Industrial Engineering, University of Arkansas, 05/2017.
- Hefley Professorship in Logistics and Entrepreneurship, University of Arkansas, 08/2015.
- The 2015 Stan Ofsthun Award for the paper: “Planning Accelerated Destructive Degradation Tests with Initiation Time” (co-authors: Ye Zhang [student] and Yili Hong) in the Proceedings of the 2015 RAMS, awarded by SRE, 01/2015.
- The 2013 William A.J. Golomski Award for the paper: “A Generic Method for Modeling Accelerated Life Testing Data” (co-author: Huairui Guo) in the Proceedings of the 2013 RAMS, awarded by IIE QCRE Division, 01/2014.
- IIE QCRE Track Best Paper Award for the paper: “Managing Operational Availability via Integrated Redundancy Allocation and Spare Parts Provisioning” (co-authors: Wei Xie [student] and Tongdan Jin) in the Proceedings of 2013 Industrial and Systems Engineering Research Conference (ISERC), 05/2013.
- The 2010 William A.J. Golomski Award for the paper: “Spare Part Inventory Control Driven by Condition Based Maintenance” (co-author: Mitchell Rausch [student]) in the Proceedings of the 2010 RAMS, awarded by IIE QCRE Division, 01/2011.
- The Energy, Natural Resources & Environment Best Presentation Award at INFORMS 2010.
- NSF CAREER Award, 01/2010.
- INFORMS Quality, Statistics and Reliability (QSR) Section Best Student Paper Award (Finalist) for the paper: “Customer-Oriented Reliability Verification and Robust Design Optimization for Highly Reliable Products under Stochastic Use Conditions”, 2003.
- Graduate Fellowship, Department of Industrial & Systems Engineering, Rutgers University, 1999.

### **Synergistic Activities**

- **Associate Editor**, *International Journal of Reliability and Safety*, 2020 – present.
- **Associate Editor**, *IISE Transactions on Quality and Reliability Engineering*, 2017 – present.
- **Co-Guest Editor** of “SMRLO-2019 Special Issue”, *IMA Journal of Management Mathematics*, 2019-2020.
- **Co-Guest Editor**, Special issue on “Resilient Energy Systems”, *Sustainable and Resilient Infrastructure*, 2019-2020.
- **Editorial Board Member**, *Journal of Quality Technology*, 2015 – 2018.
- **Associate Editor**, *IEEE Transactions on Reliability*, 2015 – 2016.
- **Associate Editor**, *Journal of Industrial and Production Engineering*, 2011 – 2014.
- **Associate Editor**, *Quality Technology and Quantitative Management*, 2013 – 2015.
- **Co-Guest Editor**, Special issue on “Big Data Applications in Reliability”, *Journal of Quality Technology*, 2015-2017.
- **At-large Representative** for Sections, INFORMS Subdivisions Council, 2020-2021.
- **President, President-Elect**, IIE Quality Control and Reliability Engineering (QCRE) Division, 2014, 2013.
- **Chair, Vice-Chair**, INFORMS Section on Quality, Statistics & Reliability (QSR), 2014, 2013.
- **Cluster chair** for INFORMS QSR Section, INFORMS International Meeting, HI, 2016.
- **Track co-chair** of tutorial sessions, Industrial and Systems Engineering Research Conference (ISERC) Conference, Nashville, TN, 2015.

- **Program co-Chair**, 2014 ISERC, Montréal, Canada, 2014.
- **Track chair** for IIE QCRE Division, ISERC Conference, San Juan, Puerto Rico, 2013.
- **Judge** for the IIE QCRE Track Best Student Paper Competition, 2016, 2015.
- **Judge** for the IIE Process Industry Track Best Student Paper Competition, 2015.
- **Judge** for the INFORMS QSR Best Student Paper Competition, 2016, 2014.
- **Member** of 2011-2012 *IIE Transactions on Quality and Reliability Engineering* Best Paper Award Committee, 2012.

*Proposal reviewer/panelist for funding agencies (selected):*

- Department of Energy Nuclear Engineering University Program, 2017, 2018, 2019, 2020.
- Kansas NSF EPSCoR First Award Program, 2019.
- Technology Foundation STW of The Netherland, 2016.
- Hong Kong Research Grant Council, 2016, 2017, 2019.
- Natural Sciences and Engineering Research Council of Canada (NSERC), 2014.
- National Science Foundation, 2007, 2010, 2014, 2015, 2020.
- U.S. Civilian Research & Development Foundation, 2011.

*External reviewer for faculty tenure & promotion (selected):*

- Department of Industrial & Manufacturing Engineering, Florida State University.
- School of Mechanical Engineering, Shanghai Jiaotong University.
- H. Milton Stewart School of Industrial & Systems Engineering, Georgia Institute of Technology.
- Department of Industrial Engineering, Lamar University.
- Department of Mathematics & Statistics, Southern Illinois University.
- School of Business, Sun Yat-sen University.
- Department of Engineering Technology and Industrial Distribution, Texas A&M University.
- Department of Systems and Industrial Engineering, University of Arizona
- Department of Electrical & Computer Engineering, University of Connecticut.
- Department of Engineering Technology, University of Houston.
- Grado Department of Industrial and Systems Engineering, Virginia Tech.
- Department of Industrial & Systems Engineering, Wayne State University.
- Department of Ind. & Manufacturing Engineering, Wichita State University.

### **Doctoral Students Directed (13 graduated, 4 in progress)**

- **University of Arkansas – Fayetteville (7):** ◇ Guanzhou Wei (co-advising with Dr. Xiao Liu). ◇ Jose Azucena. ◇ Samira Karimi [*female*]. ◇ Basem Alkhaleel (co-advising with Dr. Kelly Sullivan). ◇ Sinan Obaidat [08/2020] (*First position*: Assistant Prof. at Yarmouk University). ◇ Yu Jin [*female*] (co-advised with Dr. Harry Pierson) [05/2020] (*First position*: Assistant Prof. at Binghamton University). ◇ Jingming Liu (co-advised with Dr. John White) [08/2019].
- **University of Arizona (7):** ◇ Maryam Hamidi [*female*] [05/2016] (*First position*: Assistant Prof. at Lamar University). ◇ Hongwei Luo [05/2016]. ◇ Faranak Fathi Aghdam [*female*] [05/2016]. ◇ Yiwen Xu [12/2015] (*First position*: Assistant Prof. at North Dakota State University). ◇ Ye Zhang [12/2014]. ◇ Dan Zhang [*female*] [05/2014]. ◇ Wei Xie [12/2013] (*First position*: Associate Prof. at South China University of Technology).
- **University of Tennessee – Knoxville (1):** ◇ Jian Sun [12/2011].
- **Wichita State University (2):** ◇ Gracia Toubia-Stucky [*female*] [05/2009] (*First position*: Assistant Prof. at College of Coastal Georgia). ◇ Murad Hamada [12/2006].

### **Professional Affiliations**

Members of IISE (Fellow), INFORMS, Society of Reliability Engineers (lifetime member).