Khatereh Ahadi | CV

Education

University of Arkansas **Fayetteville, AR**
Ph.D. in Industrial Engineering, GPA – 3.9/4.0 *2013–2018*
Advisor: Dr. Kelly M. Sullivan
Thesis Title: Optimally selecting maintenance activities for complex systems

Sharif University of Technology **Tehran, Iran**
Master of Science in Industrial Engineering, GPA – 17.49/20.0 *2010–2012*
Advisor: Dr. Farhad Ghassemi
Thesis Title: The inter-cell layout problem in cellular manufacturing systems

Sharif University of Technology **Tehran, Iran**
Bachelor of Science in Industrial Engineering, GPA – 16.87/20.0 *2006–2010*

Research Interests

Applied Operations Research

Data Analytics

Supply Chain Management

Large-scale Optimization

Transportation

Teaching Interests

Probability and Statistics

Operations Research

Operations Management

Supply Chain Management

Publications

Under Review

Ahadi, K., K.M. Sullivan and K.N. Mitchell. "Budgeting maintenance dredging projects under uncertainty to improve the inland waterway network performance". Submitted to *Transportation Research Part E: Logistics and Transportation Review*.

Ghassemi, F. and **K. Ahadi.** "Cellular layout design using Tabu search, a case study". Submitted to *RAIRO-Operations Research*

Working Paper

Ahadi, K. and K.M. Sullivan. "An approximate dynamic programming approach for selective maintenance in multi-component systems", In progress

Technical Report

K.M. Sullivan, **Ahadi, K.** (2017). "Efficient Dredging Strategies for Improving Transportation Infrastructure Resilience". *Maritime Transportation Research and Education Center (MarTREC), University of Arkansas*.

Teaching Experience

Spring 2018: **Teaching assistant** for Engineering Economic Analysis, Instructed by Dr. Tish Pohl, Department of IE, University of Arkansas

- *Instructing drill sessions for 90 students*

Fall 2017: **Teaching assistant** for Engineering Economic Analysis, Instructed by Dr. John White, Department of IE, University of Arkansas

- *Instructing drill sessions for 84 students*

Summer 2017: **Instructor:** for INEG 2413: Engineering Economic Analysis, Department of IE, University of Arkansas

- *Received course evaluation rating: 4:36 out of 5, Course GPA: 3.51 out of 4*
- *Prepared lectures, review sessions, tests, assignments, and quizzes*
- *Used online learning environment Blackboard*
- *Incorporated response technology for receiving immediate feedback from students*

Spring 2017: **Teaching assistant** for Applied Probability and Statistics for Engineers 1, Instructed by Dr. Kelly Sullivan, Department of IE, University of Arkansas

- *Instructing drill sessions for 94 students*

Spring 2013: **Teaching assistant** for Applied Probability and Statistics for Engineers 1, Instructed by Dr. Kelly Sullivan, Department of IE, University of Arkansas

- *Instructing drill sessions for 75 students*

Spring 2011: **Teaching Assistant** for Management Information Systems, Department of IE, Sharif University of Technology

Spring 2011: **Teaching Assistant** for Computers and Data and Information Management (Graduate course), Instructed by Dr. Nasser Salmasi, Department of IE, Sharif University of Technology

Fall 2011: **Teaching Assistant** for Operations Research (Undergraduate course), Instructed by Prof. Koroush Eshghi, Department of IE, Sharif University of Technology

Fall 2011: **Teaching Assistant** for Probability and Statistics (Undergraduate course), Instructed by Prof. Hashem mahlooji, Department of IE, Sharif University of Technology

Spring 2010: **Teaching Assistant** for Advanced Manufacturing Processes, Instructed by Prof. Mahmoud Hoshmand, Department of IE, Sharif University of Technology

Spring 2010: **Lab Instructor**, Instructing lab sessions of FESTO Fluidsim and Step 5 software, Department of IE, Sharif University of Technology

Fall 2010: **Teaching Assistant** for Advanced Linear Programming, Instructed by Dr. Nasser Salmasi, Department of IE, Sharif University of Technology

Fall 2010: **Teaching Assistant** for Plant Layout, Instructed by Dr. Mohammadreza Akbari, Department of IE, Sharif University of Technology

Research Experience

2014–Present: Graduate Research Assistant, University of Arkansas, Supervisor: Dr. Kelly Sullivan

- Developed efficient dredging strategies for improving transportation infrastructure resilience
- Financially Supported by: U.S. Department of Transportation under Grant Award Number DTRT13-G-UTC50

2013–2014: Graduate Research Assistant, University of Arkansas, Supervisor: Dr. Kelly Sullivan

- Research: Developing an approximate dynamic programming approach for selective maintenance in multi-component systems
- Financially Supported by: Department of Industrial Engineering, University of Arkansas

Conference and Poster Presentations

Ahadi, K. and K.M. Sullivan. A Stochastic Programming Approach for Selecting Inland Waterway Maintenance Projects under Consideration of Random Disruptions, Industrial and Systems Engineering Research Conference, Pittsburgh, PA, May 2017.

Ahadi, K. and K.M. Sullivan. A Stochastic Programming Approach for Selecting Inland Waterway Maintenance Projects, INFORMS Annual Meeting, Nashville, TN, November 2016.

Ahadi, K. and K.M. Sullivan. Efficient Dredging Strategies for Improving Transportation Infrastructure Resilience, MarTrec Poster Competition, Fayetteville, AR, November 2016.

Ahadi, K. and K.M. Sullivan. Selecting Inland Waterway Maintenance Projects under Consideration of Random Disruptions, Industrial and Systems Engineering Research Conference, Anaheim, CA, May 2016.

Ahadi, K. and K.M. Sullivan. Selecting Inland Waterway Maintenance Projects under Consideration of Random Disruptions, INFORMS Annual Meeting, Philadelphia, PA, November 2015.

Ahadi, K. and K.M. Sullivan. Selecting Inland Waterway Maintenance Projects under Consideration of Random Disruptions, Industrial and Systems Engineering Research Conference, Nashville, TN. May 2015.

Ahadi, K. and K.M. Sullivan. Efficient Dredging Strategies for Improving Transportation Infrastructure Resilience , MarTrec Poster Competition, Fayetteville, AR, November 2015.

Ahadi, K. and K.M. Sullivan. Age-based preventive maintenance in multi-component systems: An integer programming approach, INFORMS Annual Meeting, San Francisco, CA, November 2014.

Ahadi, K. and K.M. Sullivan. Efficient Dredging Strategies for Improving Transportation Infrastructure Resilience, MarTrec Poster Competition, Fayetteville, AR, November 2014.

Honors and Awards

Summer 2017: Scholarship Award, Graduate School, University of Arkansas ($\$3000$)

Fall 2016: First Place Award, Research Poster Competition, Maritime Transportation and Education Center (MarTREC)

Spring 2012: Outstanding Teaching Assistant Award, Department of IE, Sharif University of Technology

2010: Top 10% of 92 B.Sc. students in the Department of IE, Sharif University of Technology, Sharif University of Technology

2010: Identified as an **exceptionally talented** student at Sharif University of Technology and granted permission to study for the Master's degree without taking the entrance exam

2006: Ranked 2nd in the state and 633th nationwide in the university entrance exam in Iran

Extracurricular Experience

2016–2017: **Secretary** of "INFORMS Student Chapter" in Industrial Engineering Department, University of Arkansas

- Held seminar series on various subjects in the IE department
- Organized an academic/industry job search panel discussion
- Held and supported a High Performance Computation (HPC) & CPLEX workshop
- Organized presentation practice sessions for IISE & INFORMS conferences

2010–2011: **Treasurer** of Industrial Engineering Magazine, Department of IE, Sharif University of Technology