

Ashlea Bennett Milburn

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Education

Doctor of Philosophy, Industrial and Systems Engineering, Georgia Institute of Technology, 2009
Master of Science, Industrial and Systems Engineering, Virginia Tech, 2004
Bachelor of Science, Industrial Engineering, *summa cum laude*, University of Arkansas, 2003

Academic Appointments

Department of Industrial Engineering, University of Arkansas
Assistant Professor of Industrial Engineering, January 2010 to present

Sponsored Research Grants

1. National Science Foundation Award 1026179, Workshop: Healthcare Systems Engineering Research and Education Leadership, Rardin (25%), Milburn (25%), Buyurgan (25%), Pohl (25%), 05/2010-08/2010, \$28,233.
2. Center for Innovation in Healthcare Logistics, Characterizing the Home Health Medical Equipment Supply Chain, Milburn (50%), Mason (50%), 05/2010-05/2011, \$64,911.
3. Department of Homeland Security, National Transportation Security Center of Excellence, Mitigating Dynamic Risk in Multi-Modal Perishable Commodity Supply Chains, Pohl (25%), Milburn (25%), Rainwater (25%), Mason (25%), 07/2010-06/2012, \$170,000.
4. Mack Blackwell Transportation Center, Rail Transportation Models for Rural Populations, Rainwater (67%), Milburn (33%), 07/2010-08/2011, \$76,445.
5. Center for Innovation in Healthcare Logistics, Quantifying Nurse Involvement in the Home Healthcare Supply Chain, Milburn (50%), Mason (50%), 05/2010-05/2011, \$51,957.
6. Mack Blackwell Transportation Center, Models for Real-Time Disaster Relief Shelter Location and Supply Routing, Milburn (50%), Rainwater (50%), 08/2011-06/2012, \$47,076.
7. Medline Industries, Center for Excellence in Logistics and Distribution, Scheduling Workers in a Warehouse Based on Labor Productivity, Milburn (100%), 01/2013-08/2013, \$29,163
8. Center for Innovation in Healthcare Logistics, What is the Impact of Various Service Objectives on Home Health Operational Logistics Efficiency? Milburn (100%), 08/2013-08/2014, \$28,974
9. Center for Innovation in Healthcare Logistics, Measuring the Potential Spatial Accessibility of Home Health Services, Milburn (100%), 08/2013-08/2014, \$41,591
10. National Science Foundation, Non-Traditional Designs for Order-Picking Warehouses, Milburn (33%), Gue (33%), Smith (33%), 08/2013-07/2015, \$113,381

11. Medline Industries, Center for Excellence in Logistics and Distribution, Scheduling Workers in a Warehouse Based on Labor Productivity Phase II, Milburn (100%), 08/2013-08/2014, \$60,000
12. Medline Industries, Center for Excellence in Logistics and Distribution, An Analysis of Current and Alternative Forecasting Practices, Milburn (100%), 08/2014-08/2015, \$60,000.
13. University of Arkansas Office of the Provost, Provost's Collaborative Research Grant: Quantifying Surge Capacity of the Home Health Sector for Public Health Emergencies, Milburn (50%), McNeill (50%), \$1,374.
14. National Science Foundation Award 1554412, CAREER: Information Accuracy and the Use of Social Data in Planning for Disaster Response, Milburn (100%), 02/2016-02/2021, \$500,000.

Refereed Journal Articles

1. Bennett, A.R., Erera, A. 2011. Dynamic periodic fixed appointment scheduling for home health. *IIE Transactions on Healthcare Systems Engineering* **1**(1), 6-19.
2. Milburn, A.B., Mason, S.J., Spicer, J. 2012. Characterizing the home healthcare supply chain. *Home Health Care Management & Practice* **24**(6), p. 266-274.
3. Milburn, A.B., Mason, S.J. 2013. How much time do home health nurses spend on non-clinical supply chain duties? *Home Health Care Management & Practice* **25**(4), p. 160-168.
4. Spicer, J, Milburn, A.B. 2013. Multi-objective home health nurse routing with remote monitoring devices. *International Journal of Planning and Scheduling* **1**(4), p. 242-263.
5. Milburn, A.B., Braham, A., McClinton, J. 2014. Integrating qualitative components in quantitative courses using Facebook. *Interdisciplinary Journal of E-Learning and Learning Objects* **10**, p. 229-246.
6. Milburn, A.B., Hewitt, M., Griffin, P., Savelsbergh, M.W.P. 2014. The value of remote monitoring systems for treatment of chronic disease. *IIE Transactions on Healthcare Systems Engineering* **4**(2), p. 65-79.
7. Kirac, E., Milburn, A.B., Wardell, C.L. 2015. The traveling salesman problem with imperfect information with application in disaster relief tour planning. *IIE Transactions* **47**(8), p. 783-799.

Journal Articles in Review

1. Li, B., Hernandez, I., Milburn, A.B., Ramirez-Marquez, J. Integrating uncertain user-generated data in disaster relief facility location. Under review with *Socio-Economic Planning Sciences*.
2. Hadiannassar, M., Milburn, A.B. Growing pains (a teaching case). Under revision with *INFORMS Transactions on Education*.
3. Kilinc, M., Milburn, A.B. A study of home telehealth diffusion among US home health-care agencies using system dynamics. Under second-round review with *IIE Transactions on Healthcare Systems Engineering*.

4. Lian, K., Milburn, A.B., Rardin, R. An improved multi-directional local search algorithm for the multi-objective consistent vehicle routing problem. Under second-round review with *IIE Transactions*.
5. Li, B., Milburn, A.B., Mason, S.J. A heuristic for scheduling unrelated parallel machines subject to job splitting. Under review with *International Journal of Production Research*.
6. Kilinc, M., Milburn, A.B., Heier Stamm, J. Measuring potential spatial access to home health-care services. Under review with *Socio-Economic Planning Sciences*.
7. Gedik, R., Kirac, E., Milburn, A.B., Rainwater, C. A constraint programming approach for the team orienteering problem with time windows. Under review with *Computers & Industrial Engineering*.

Book Chapters

1. Milburn, A.B. 2012. Operations research applications in home healthcare. In R. Hall (ed.), *Handbook of Healthcare System Scheduling* (pp. 281-303). New York: Springer.

Refereed Conference Proceedings

1. Thompson, B., Bennett, A.R. Reducing length of stay for congestive heart failure patients. *International Annual Conference for the American Society for Engineering Management*, October 2011, Lubbock, TX.
2. Bennett, A.R., Hewitt, H. Estimating the value of remote monitoring systems (2 page peer-reviewed abstract). *Proceedings of INFORMS Healthcare*, June 2011, Montreal, Canada.
3. Hewitt, M., Bennett, A.R. Home health care scheduling and routing (2 page peer-reviewed abstract). *Proceedings of INFORMS Healthcare*, June 2011, Montreal, Canada.
4. Milburn, A.B., Wardell, C.L. Evaluating the impact of incorporating information from social media streams in disaster relief routing. *World Wide Web 2012 Companion*, April 16-20, 2012, Lyon, France, p. 707-708.
5. Braham, A., Milburn, A.B., McClinton, J. Using LinkedIn in the classroom. *Proceedings of the American Society for Engineering Education Midwest Section Annual Conference*, September 2013, Salina, KS.
6. Kirac, E., Milburn, A.B., Wardell, C.L. How social media information is changing disaster relief routing plans. *Proceedings of the Industrial and Systems Engineering Research Conference*, May 2013, San Juan, Puerto Rico.
7. Kirac, E., Milburn, A.B., Wardell, C.L. How social media can aid disaster relief routing plans. *Proceedings of the International Institute of Industrial Engineers Conference*, June 2013, Istanbul, Turkey.

Other Publications

1. Bennett, A.R., Mason, S.J., Kamali, B., Hilborn, J., Phan, E. 2011. Characterizing the home healthcare supply chain: phase I project report. Prepared for the Center for Innovation in Healthcare Logistics at the University of Arkansas.
2. Rainwater, C., Milburn, A.B., Gwaltney, J. 2011. Rail transportation models for rural populations. Prepared for the Mack-Blackwell Rural Transportation Center at the University of Arkansas.
3. Milburn, A.B., Rainwater, C., Boudhoum, O., Young, S. 2013. Models for disaster relief shelter location and supply routing. Prepared for the Mack-Blackwell Rural Transportation Center at the University of Arkansas.
4. Li, B., Milburn, A.B. 2014. Scheduling workers in a warehouse based on productivity performance. Medline project final report. Prepared for the Center for Excellence in Logistics and Distribution at the University of Arkansas.

Presentations

1. Bennett, A.R., Erera, A. Home health nurse routing and scheduling. Presented at MIT ORC Healthcare Conference, Cambridge, MA, May 2007.
2. Bennett, A.R., Erera, A. Scenario-based planning for the dynamic periodic home health nurse scheduling problem. Presented at INFORMS Annual Meeting, Seattle, WA, November 2007.
3. Bennett, A.R., Erera, A. Dynamic periodic routing of home health practitioners. Presented at INFORMS Annual Meeting, Washington D.C., November 2008.
4. Bennett, A.R., Erera, A. The home health nurse routing and scheduling problem. Presented at the University of Arkansas Center for Innovation in Healthcare Logistics Seminar, Fayetteville, AR, 2008.
5. Bennett, A.R. The development and assignment of service district boundaries for long-term health service liaisons. Presented at INFORMS Annual Meeting, San Diego, CA, November 2009.
6. Bennett, A.R., Erera, A. Determining service districts for home health workers. Presented at the Industrial Engineering Research Conference, Cancun, Mexico, May 2010.
7. Taylor, N., Mason, S., Bennett, A.R. Industrial engineering analysis to improve phlebotomy lab operations. Presented at the Industrial Engineering Research Conference, Cancun, Mexico, May 2010.
8. Bennett, A.R., Mason, S.J., Hilborn, J., Phan, E. Home health supply chain project update. Presented at the CIHL Semi-Annual Sponsors Meeting, Fayetteville, AR, June 2010.
9. Bennett, A.R., Hewitt, M. The promise and value of remote monitoring devices. Presented at the INFORMS Annual Meeting, Austin, TX, November 2010.
10. Kamali, B, Bennett, A.R., Erera, A. Evaluating operating costs in routing problems with fixed appointment times. Presented at the INFORMS Annual Meeting, Austin, TX, November 2010.

11. Hewitt, M., Bennett, A.R., Nowak, M. Impact of consistency of care on home healthcare routing. Presented at the INFORMS Annual Meeting, Austin, TX, November 2010.
12. Bennett, A.R., Mason, S.J., Hilborn, J., Phan, E. Home health supply chain project update. Presented at the CIHL Semi-Annual Sponsors Meeting, Fayetteville, AR, December 2010.
13. Milburn, A.B., Mason, S.J., Kamali, B. Characterizing the home healthcare supply chain. Presented at the Society for Health Systems Conference, Orlando, FL, February 2011.
14. St. John, D., Spicer, J., Rainwater, C., Pohl, E., Milburn, A.B., Mason, S.J. Mitigating dynamic risk in multi-modal perishable commodity supply chain networks. Presented at the Fifth Annual Department of Homeland Security University Network Student Day, Washington, D.C., March 2011.
15. Spicer, J., Milburn, A.B., Hewitt, M. Impact of remote monitoring technologies on home health nurse routing. Presented at the Industrial Engineering Research Conference, Reno, NV, May 2011.
16. Milburn, A.B., Mason, S.J., Kamali, B. Characterizing the home healthcare supply chain. Presented at the Industrial Engineering Research Conference, Reno, NV, May 2011.
17. Milburn, A.B., Hewitt, M. Estimating the value of remote monitoring systems. Presented at the INFORMS Health Applications Conference, Montreal, Canada, June 2011.
18. Hewitt, M., Milburn, A.B. Home health care scheduling and routing. Presented at the INFORMS Health Applications Conference, Montreal, Canada, June 2011.
19. Milburn, A.B. Evaluating the impact of the Medicare hospice face to face encounter requirement. Presented at the Hospice and Palliative Care Association of Arkansas Fall Conference, Little Rock, AR, September 2011.
20. Thompson, B., Milburn, A.B. Reducing length of stay for congesting heart failure patients. Presented at the Annual Conference for the American Society for Engineering Management, October 2011.
21. Milburn, A.B., Mason, S.J., Spicer, J. How do home health nurses spend their time (poster). Presented at the INFORMS Annual Meeting, Charlotte, NC, November 2011.
22. Lin, Y.S., Erera, A., Milburn, A.B. Multi-scenario heuristics for a dynamic traveling salesman problem with fixed appointment times. Presented at the INFORMS Annual Meeting, Charlotte, NC, November 2011.
23. Spicer, J., Milburn, A.B., Mason, S.J. Patient and nurse considerations in home health routing with telehealth devices (poster). Presented at the INFORMS Annual Meeting, Charlotte, NC, November 2011.
24. Rainwater, C., Gwaltney, J., Milburn, A.B. Rail transportation models for rural populations. Presented at the Mack-Blackwell Rural Transportation Center Advisory Board Meeting, Fayetteville, AR, November 2011.
25. St. John, D., Bright, J., Rainwater, C., Pohl, E., Milburn, A.B., Mason, S.J. Mitigating dynamic risk in multi-modal perishable commodity supply chain networks (poster). Presented at the Mack-Blackwell Rural Transportation Center Advisory Board Meeting, Fayetteville, AR, November 2011.

26. Boudhoum, O., Milburn, A.B., Rainwater, C. Models for disaster relief and supply routing (poster). Presented at the Mack-Blackwell Rural Transportation Center Advisory Board Meeting, Fayetteville, AR, November 2011.
27. Wardell, C.L., Milburn, A.B. Evaluating the impact of incorporating information from social media streams in disaster relief routing. Presented at the First International Workshop on Social Web for Disaster Management, Lyon, France, April 2012.
28. Milburn, A.B., Mason, S.J., Spicer, J. Quantifying nurse involvement in the home health supply chain. Presented at the Industrial and Systems Engineering Research Conference, Orlando, FL, May 2012.
29. Milburn, A.B., Rainwater, C., Boudhoum, O., Young, S. Models for disaster relief shelter location and supply routing. Presented at the Industrial and Systems Engineering Research Conference, Orlando, FL, May 2012.
30. Milburn, A.B. Logistics for the common good. Presented at the Engineering Campus, Christ University, Bangalore, India, July 2012.
31. Milburn, A.B., Rainwater, C. Online point of distribution location in disaster relief. Presented at the INFORMS Annual Meeting, Phoenix, AZ, October 2012.
32. Kirac, E., Milburn, A.B., Wardell, C.L. Can social media information improve disaster relief routing plans? Presented at the INFORMS Annual Meeting, Phoenix, AZ, October 2012.
33. Wardell, C.L., Milburn, A.B., Kirac, E. Crisis, data, and decision making: when does accuracy matter? Presented at the Fourth Annual International Conference of Crisis Mappers, Washington, D.C., October 2012.
34. Spicer, J., Milburn, A.B. Patient and nurse considerations in home health routing with remote monitoring devices (poster). Presented at the University of Arkansas From Abstract to Contract Graduate Student Research Competition, Fayetteville, AR, October 2012.
35. Kirac, E., Milburn, A.B., Wardell, C.L. How social media information is changing disaster relief routing plans. Presented at the Industrial and Systems Engineering Research Conference, San Juan, Puerto Rico, May 2013.
36. Kirac, E., Milburn, A.B., Wardell, C.L. How social media can aid disaster relief routing plans. Presented at the International Institute of Industrial Engineers Conference, Istanbul, Turkey, June 2013.
37. Milburn, A.B., Mason, S.J. Uncovering hidden costs in home health supply chains. Presented at INFORMS Healthcare, Chicago, IL, July 2013.
38. Braham, A., Milburn, A.B., McClinton, J. Using LinkedIn in the classroom. Presented at the American Society for Engineering Education Midwest Section Annual Conference, Salina, KS, September 2013.
39. Lian, K., Milburn, A.B., Rardin, R. Patient-focused considerations in home health nurse routing problems. Presented at the INFORMS Annual Meeting, Minneapolis, MN, October 2013.

40. Kirac, E., Milburn, A.B. Social media usage in disaster relief routing. Presented at the INFORMS Annual Meeting, Minneapolis, MN, October 2013.
41. Kirac, E., Milburn, A.B. Incorporating needs from social media in static disaster relief routing plans (poster). Presented at the INFORMS Annual Meeting, Minneapolis, MN, October 2013.
42. Li, B., Milburn, A.B. Scheduling workers in a warehouse based on productivity performance. Presented at the INFORMS Annual Meeting, Minneapolis, MN, October 2013.
43. Li, B., Milburn, A.B. Scheduling workers in a warehouse based on productivity performance (poster). Presented at the Center for Excellence in Logistics and Distribution Industrial Advisory Board Meeting and Research Symposium, Chicago, IL, April 2014.
44. Kirac, E., Milburn, A.B., Wardell, C.L. Humanitarian relief routing using social data. Presented at the Industrial and Systems Engineering Research Conference, Montreal, Canada, June 2014.
45. Li, B., Hernandez, I., Milburn, A.B., Ramirez-Marquez, J. Integrating uncertain data in disaster relief facility location. Presented at the Industrial and Systems Engineering Research Conference, Montreal, Canada, June 2014.
46. Kilinc, M., Milburn, A.B. Does home care accessibility depend on place or related variables? Presented at the Industrial and Systems Engineering Research Conference, Montreal, Canada, June 2014.
47. Lian, K., Milburn, A.B., Rardin, R. Study on home health care nurse routing problem. Presented at the Industrial and Systems Engineering Research Conference, Montreal, Canada, June 2014.
48. Milburn, A.B., Li, B. Scheduling workers in a warehouse based on productivity performance: phase II. Presented at the Center for Excellence in Logistics and Distribution Industrial Advisory Board Meeting and Research Symposium, Dallas, TX, October 2014.
49. Li, B., Milburn, A.B. Scheduling workers in a warehouse based on productivity performance: phase II (poster). Presented at the Center for Excellence in Logistics and Distribution Industrial Advisory Board Meeting and Research Symposium, Dallas, TX, October 2014.
50. Lian, K., Milburn, A.B., Rardin, R. Patient-focused considerations in home health nurse routing problems. Presented at the INFORMS Annual Meeting, San Francisco, CA, November 2014.
51. Kilinc, M., Milburn, A.B. Measuring the efficiency of home health agencies. Presented at the INFORMS Annual Meeting, San Francisco, CA, November 2014.
52. Hadiannassar, M., Milburn, A.B. Growing Pains (a teaching case study). Presented at the INFORMS Annual Meeting, San Francisco, CA, November 2014.
53. Kirac, E., Milburn, A.B. Social media usage in disaster relief routing. Presented at the INFORMS Annual Meeting, San Francisco, CA, November 2014.
54. Kirac, E., Milburn, A.B., Wardell, C.L. Social media usage in static disaster relief routing plans (poster). Presented at the INFORMS Annual Meeting, San Francisco, CA, November 2014.

55. Li, B., Hernandez, I., Milburn, A.B., Ramirez-Marquez, J. Integrating uncertain data in disaster relief facility location. Presented at the INFORMS Annual Meeting, San Francisco, CA, November 2014.
56. Hadiannassar, M., Milburn, A.B. Dillard's store delivery project. Presented at the University of Arkansas From Abstract to Contract Graduate Research Competition, Fayetteville, AR, November 2014.
57. Kilinc, M., Milburn, A.B. Measuring spatial access to home healthcare services. Presented at the University of Arkansas From Abstract to Contract Graduate Research Competition, Fayetteville, AR, November 2014.
58. Milburn, A.B., Li, B., Rossetti, M. An analysis of current and alternative forecasting. Center for Excellence in Logistics and Distribution Industrial Advisory Board Meeting and Research Symposium, Chicago, IL, 2015.
59. Kirac, E., Milburn, A.B. Social media usage in static disaster relief routing plans (poster). University of Arkansas Faculty Poster Showcase for Cyber, Smartgrid and Logistics, Fayetteville, AR, 2015.
60. Milburn, A.B. The logistics of home health care. University of Arkansas Center for Innovation in Healthcare Logistics Collaboration Meeting, Fayetteville, AR, 2015.
61. Milburn, A.B. The logistics of home health care. University of Arkansas Supply Chain Management Research Center Fall Symposium, Fayetteville, AR, 2015.
62. Milburn, A.B. The logistics of home health care. University of Arkansas Freshman Engineering Program Honors Research Colloquium, Fayetteville, AR, 2015.
63. Kilinc, M., Milburn, A.B. Comparing efficiency and quality in the home health care industry. Industrial and Systems Engineering Research Conference, Nashville, TN, 2015.
64. Hadian, M., Milburn, A.B. Inventory routing problem with time windows. Industrial and Systems Engineering Research Conference, Nashville, TN, 2015.
65. Lian, K., Milburn, A.B., Rardin, R. Study on multi-objective periodic vehicle routing problem with service consistency. INFORMS Annual Meeting, Philadelphia, PA, 2015.
66. Li, B., Milburn, A.B., Mason, S.J. Parallel machine scheduling with unrelated machines and job splitting. Industrial and Systems Engineering Research Conference, Nashville, TN, 2015.
67. Kirac, E., Milburn, A.B. Uncertain social media with application in multi-objective disaster relief tour planning. Industrial and Systems Engineering Research Conference, Nashville, TN, 2015.
68. Lian, K., Milburn, A.B., Rardin, R. Study on multi-objective periodic vehicle routing problem with service consistency. Industrial and Systems Engineering Research Conference, Nashville, TN, 2015.
69. Kilinc, M., Milburn, A.B., Heier Stamm, J. Measuring the potential spatial accessibility of home healthcare services. Industrial and Systems Engineering Research Conference, Nashville, TN, 2015.

70. Li, B., Milburn, A.B., Mason, S.J. Heuristic approach for an unrelated parallel machine scheduling problem with ready times and due dates. INFORMS Annual Meeting, Philadelphia, PA, 2015.
71. Kirac, E., Milburn, A.B. Multiple-scenario approach for a dynamic disaster relief routing problem with uncertain social data. INFORMS Annual Meeting, Philadelphia, PA, 2015.
72. Li, B., Milburn, A.B., Rossetti, M.D. An analysis of current and alternative forecasting (poster). Center for Excellence in Logistics and Distribution Industrial Advisory Board Meeting and Research Symposium, Chicago, IL, 2015.
73. Li, B., Milburn, A.B., Rossetti, M.D. An analysis of current and alternative forecasting (poster). Center for Excellence in Logistics and Distribution Industrial Advisory Board Meeting and Research Symposium, Atlanta, GA, 2015.
74. Gedik, R., Kirac, E., Milburn, A.B., Rainwater, C.E. A constraint programming approach for the team orienteering problem with time windows. Industrial and Systems Engineering Research Conference, Nashville, TN, 2015.
75. Gedik, R., Kirac, E., Milburn, A.B., Rainwater, C.E. A constraint programming approach for the team orienteering problem with time windows. INFORMS Annual Meeting, Philadelphia, PA, 2015.
76. Milburn, A.B. Engineering solutions for home health care logistics challenges. Center for Innovation in Healthcare Logistics Driving Value through Innovation Conference, Fayetteville, AR, 2016.

Courses Taught

INEG 2313: Applied Probability and Statistics for Engineers I, University of Arkansas

Spring 2010, enrollment 73, rating 3.70/5.0

Fall 2011, enrollment 80, rating 4.31/5.0

Fall 2013, enrollment 92, rating 4.73/5.0

Fall 2015, enrollment 93, rating 4.68/5.0

INEG 410V: Introduction to Healthcare Systems Engineering, University of Arkansas

Fall 2010, enrollment 12, 4.30/5.0

Fall 2014, enrollment 28, 4.70/5.0

INEG 4633: Introduction to Transportation Logistics, University of Arkansas

Spring 2011 (cross-listed with INEG 5533), enrollment 17, rating 3.95/5.0

Spring 2012, enrollment 17, rating 4.81/5.0

Spring 2013, enrollment 20, 4.71/5.0

Spring 2015, enrollment 55, 4.43/5.0

GNEG 4103: Globalization and Innovation, Christ University, Bangalore, India

Summer 2012, enrollment 7, rating 5.0/5.0

INEG 514V: Research in Healthcare Systems Engineering, University of Arkansas
Fall 2011, enrollment 5, 4.91/5.0

INEG 5533: Network Optimization in Transportation Logistics, University of Arkansas
Spring 2011 (cross-listed with INEG 4633), enrollment 20, rating 3.95/5.0
Spring 2013, enrollment 22, 4.79/5.0
Spring 2015, enrollment 22, 4.6/5.0

Dissertations and Master's Theses Directed

1. Jessica Spicer, MSIE, Incorporating Patient Service Considerations in Home Health Nurse Routing, 2012
2. Mina Hadiannassar, MSIE, Inventory Routing Problem with Time Windows, 2015
3. Mehmet Kilinc, PhD, Understanding Technology Diffusion and Spatial Accessibility in the Home Healthcare Industry, 2015
4. Emre Kirac, PhD, Incorporating Uncertain User-Generated Data in Disaster Relief Routing, Anticipated 2016
5. Bin Li, PhD, Quantitative Methods for Select Problems in Facility Location and Logistics, Anticipated 2016
6. Kunlei Lian, PhD, Service Consistency in Vehicle Routing, Anticipated 2016

Master's and Doctoral Committee Service

1. Jeff Gwaltney, MSIE, Thesis Committee, Chaired by C. Rainwater, 2011
2. Fan Zhang, MSIE, Oral Exam Committee, Chaired by M. Rossetti, 2011
3. James Hilborn, MSIE, Oral Exam Committee, Chaired by A.B. Milburn, 2011
4. Coby Durham, MSIE, Oral Exam Committee, Chaired by A.B. Milburn, 2012
5. Crystal Wilson, MSIE, Thesis Committee, Chaired by S. Root, 2013
6. M. Gonzalez, MSIE, Thesis Committee, Chaired by H. Nachtman, 2013
7. Mohammad Shbool, PhD, Dissertation Committee, Chaired by M. Rossetti, TBD
8. Amir Ghahari, PhD, Dissertation Committee, Chaired by E.Pohl, TBD
9. Anh Pham, MSIE, Thesis Committee, Chaired by S. Zhang, TBD
10. Tiffany Yang, MSIE, Thesis Committee, Chaired by K. Sullivan, TBD

Undergraduate Honors Theses Directed

1. Othman Boudhoum, BSIE, Disaster Relief Models: Location of Points of Distribution, 2013
2. Adeola Yusuf, BSIE, Cost Distribution Analysis of Remote Monitoring System Use in the Treatment of Chronic Diseases, 2013
3. Katy Accurso, BSIE, Analysis of the Suitability of the Trauma Center Location Configuration in the State of Arkansas, 2014
4. Christopher Bayles, BSIE, Uncertainty in Relief Supply Distribution, 2014
5. Yulong Su, BSIE, Models for Incorporating Block Scheduling in Blood Drive Staffing Problems, 2014

Undergraduate Honors Committee Service

1. Natassia Taylor, BSIE, Chaired by S. Mason, 2010
2. Blake Puryear, BSCS, Chaired by C. Thompson, 2013

Professional Service

National Service

ISERC, Healthcare Systems Engineering Track Co-Chair, 2010-2011

ISERC, Session Chair, 2010-2014

IIE Society for Health Systems, Student Paper Competition Faculty Coordinator, 2011-2013

IIE Society for Health Systems Conference, Applied Research Track Chair, 2012-2013

IIE Society for Health Systems Conference, Panel Moderator, 2012-2013

INFORMS Annual Meeting, Session Chair, 2012-2014

Healthcare Systems Engineering Alliance Treasurer, 2014-2016

Peer Review, various journals, 2010-2015

University Service

University of Arkansas Student Health Center Advisory Committee, 2011-present

Reviewer for Honors College Study Abroad Grant Proposals, 2013

Departmental Service

Committee on the Evaluation of Teaching, 2010-2011

Graduate Committee, 2010-2013, 2015-2016

Arkansas Chapter of Alpha Pi Mu, **Faculty Advisor**, 2010-2015

Graduate Optimization Curriculum Subgroup, **Co-chair**, 2011-2012

Undergraduate Committee, 2013-2015

Student Awards Banquet, **Chair**, 2013-2016

Scholarship Committee, **Co-Chair**, 2013-2016

Endowed Faculty Position Search Committee, 2013-2016

Industry Experience

Visiting Nurse Health System, Atlanta, GA, Graduate Student Assistant, Sep 2008-May 2009
The Boeing Company, St. Louis, MO, Pricing Intern, May-Aug 2002
JB Hunt, LLC, Lowell, AR, Engineering Services Intern, May 2001-Apr 2002

Awards and Recognitions

- National Science Foundation Graduate Research Fellowship, 2003 - 2008
- INFORMS Doctoral Student Colloquium, 2008
- Georgia National Defense Transportation Association Fellowship, 2008
- Richard P. Covert HIMSS Foundation Scholarship for Management Systems, 2009
- Industrial Engineering Research Conference New Faculty Colloquium, 2010
- “Growing Pains” teaching case selected as finalist in INFORMS Case Competition with graduate student co-author Mina Hadiannassar, 2014
- Won 2nd place in INFORMS Annual Meeting Interactive Sessions Competition with graduate student co-author Emre Kirac, 2014
- University of Arkansas Department of Industrial Engineering Outstanding Teacher, 2013
- University of Arkansas Department of Industrial Engineering Outstanding Researcher, 2015
- University of Arkansas Department of Industrial Engineering Outstanding Faculty Advisor (selected by graduate students), 2015
- National Science Foundation CAREER Award, 2016

Awards by Supervised Students

- The Arkansas Alpha Chapter of Alpha Pi Mu won 3rd place in the 2011 National Outstanding Chapter Competition
- The Arkansas Alpha Chapter of Alpha Pi Mu won 2nd place in 2012 National Outstanding Chapter Competition
- Graduate student Jessica Spicer was awarded 1st place in the 2012 From Abstract to Contract Graduate Student Research Competition at the University of Arkansas
- The Arkansas Alpha Chapter of Alpha Pi Mu won 5th place in 2013 National Outstanding Chapter Competition
- Undergraduate honors student Katy Accurso was awarded an Honors College Research Grant in 2013
- Undergraduate honors student Yulong Su was awarded an Honors College Research Grant in 2013

- The Arkansas Alpha Chapter of Alpha Pi Mu won 3rd place in 2014 National Outstanding Chapter Competition
- “Growing Pains” teaching case selected as finalist in INFORMS Case Competition with graduate student co-author Mina Hadiannassar, 2014
- Won 2nd place in INFORMS Annual Meeting Interactive Sessions Competition with graduate student co-author Emre Kirac, 2014
- Doctoral student Emre Kirac won the University of Arkansas Department of Industrial Engineering Graduate Research Award, 2015
- The Arkansas Alpha Chapter of Alpha Pi Mu won 4th place in 2015 National Outstanding Chapter Competition

Professional Affiliations

Member, Institute of Industrial Engineers (IIE)

Member, IIE Society for Health Systems (SHS)

Member, Alpha Pi Mu Industrial Engineering Honor Society

Member, Institute for Operations Research and Management Science (INFORMS)