

Julie L. Hammett

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SUMMARY – KEY AREAS OF EXPERTISE AND SKILLS

- Team leadership, project management, mentorship and teaching
- Proposal and report writing, budgeting, organizing and facilitating events
- Qualitative and quantitative research methods
- Community and stakeholder engagement
- Systems engineering, healthcare systems integration, scalability and sustainability

EDUCATION

Ph.D. Industrial Engineering (IE) Expected Graduation: Aug. 2021
Texas A&M University (TAMU), College Station, TX
Department of Industrial and Systems Engineering (ISEN)
(Working) Title: “Multi-Modal Integration of Telehealth into Primary Care”
Co-Advisor: Dr. Farzan Sasangohar
Co-Advisor: Dr. Mark Lawley

M.S. Engineering Management Graduation: Dec. 2014
University of South Florida (USF), Tampa, FL
Department of Industrial and Management Systems Engineering (IMSE)
Graduate Certificates: Systems Engineering, Technology Management

B.S. Industrial Engineering Graduation: Cum Laude, Dec. 2014
University of South Florida, Tampa, FL
Department of Industrial and Management Systems Engineering
Outstanding Fall BSIE Graduate

ACADEMIC RESEARCH

Research Assistant Aug. 2015 – Present
Texas A&M University, College Station, TX
Department of Industrial and Systems Engineering
Supervisors: Dr. Mark Lawley & Dr. Farzan Sasangohar
Projects:

- Precise Advanced Technologies and Health Systems for Underserved Populations (PATHS-UP) Engineering Research Center (ERC) stakeholder engagement (Funding: National Science Foundation ERC)
- Improving National Health with the Patient-Centric Smart Chronic Illness Care System (Funding: National Science Foundation Graduate Research Fellowship Program)
- System modeling to improve sustainability and scalability of telebehavioral health in rural communities
- VA enterprise resource planning software benchmarking for supply chain (Funding: Veterans Affairs)
- VA point of use supply management system analysis (Funding: Veterans Affairs)

Research Assistant

May 2014 – May 2015

University of South Florida, Tampa, FL
Department of Industrial and Management Systems Engineering
Collaborative for Research & Education in Aging, Technology and Health (CREATE-Health)

Supervisors: Dr. Ali Yalcin & Dr. Carla VandeWeerd

Projects:

- Proactive health management technology for elderly care using in-home sensors (Funding: AlwaysNear Inc.)
- AlwaysNear Living Lab deployment (Funding: St. Joseph’s John Knox Village)

RESEARCH INTERESTS

1. Engineering Education

Applications of educational tools to engineering curriculum and engaging underrepresented populations in engineering research activities to retain student scholars.

2. Remote Health Monitoring of Chronic Disease

Study of patients with mental illness, CVD, or diabetes managing their disease through multi-dimensional resource access, education, and remote health monitoring.

3. Systems Modeling and Simulation

Multi-modal modeling and simulation of systems to understand impact of policy decisions on performance metrics using case studies to inform assumptions and validate the model.

4. Healthcare Systems Engineering

Use of systems thinking to understand scalability and sustainability of technological advancements in healthcare and policy implications on patient safety and reliability.

PUBLICATIONS

Manuscripts In Press

1. Tarlow, K. R., McCord, C. E., Du, Y., **Hammett, J.**, Wills, T. “Rural mental health service utilization in a Texas telepsychology clinic.” *Journal of Clinical Psychology*. 2019; 0–0. <https://doi.org/10.1002/jclp.22903>

Refereed Conference Proceedings

1. **Hammett, J.**, McCord, C., Lawley, M., Sasangohar, F. "System Modeling of Telebehavioral Health Resource Allocation." *Proceedings of the HFES 2019 Annual Meeting*, 63(1), 785–786. <https://doi.org/10.1177/1071181319631271>
2. **Hammett, J.**, Sasangohar, F., Lawley, M. "Home Telemonitoring Platforms for Adults with Diabetes Mellitus: A Narrative Review of Literature." *Proceedings of the HFES 2018 Annual Meeting*, 62(1), 508–512. <https://doi.org/10.1177/1541931218621116>

Manuscripts in Preparation

1. **Hammett, J.**, Sasangohar, F., Lawley, M. “Not all Home Telemonitoring Systems are Created Equal: A Review of Successes and Challenges in Adult Diabetic Trials.” Target journal: *Journal for Medical Internet Research*. 2019.
2. **Hammett, J.**, Hegde, S., McCord, C., Lawley, M., Sasangohar, F. "System Modeling of Telebehavioral Health Resource Allocation." Target journal: *IIE Transactions on Healthcare Systems Engineering*. 2019.

3. **Hammett, J.**, Bonet Olivencia, S., Rao, A., Lawley, M., Sasangohar, F. “Stakeholder Perspectives on Barriers to Remote Patient Monitoring Systems Integration.” *Target journal: Journal for Medical Internet Research*. 2020.

PRESENTATIONS

1. Zahed, K., **Hammett, J.**, Sasangohar, F., Lawley, M. "Home Telemonitoring Platforms for Adults with Diabetes Mellitus: A Narrative Review of Literature." *HFES 2018 International Annual Meeting*, Philadelphia, PA. October 1-5, 2018.
2. Du, Y., McCord, C., Tarlow, K., **Hammett, J.**, Chang, J. “Overcoming Geographical Distances: An Investigation of a Hub and Spoke Telemental Health Model.” *Academy Health Annual Research Meeting*, Seattle, WA. June 24-26, 2018.
3. **Hammett, J.**, Tarlow, K., McCord, C., Sasangohar, F., Lawley, M. “Tele-mental Health Provider Resource Allocation for Academic and Community Partnerships.” *IISE Annual Conference and Expo*, Orlando, FL. May 19-22, 2018.
4. **Hammett, J.**, Sasangohar, F., Lawley, M. "Home Telemonitoring Platforms for Adults with Diabetes Mellitus: A Narrative Review of Literature." *Houston HFES 2018 Symposium*, Houston, TX. April 20, 2018.
5. **Hammett, J.**, McCord, C., Lawley, M. “Remote Healthcare System Model.” *INFORMS Annual Meeting*, Houston, TX. Oct. 22-25, 2017.
6. **Hammett, J.**, Alvarado, M., Lawley, M. “Remote Patient Monitoring System Framework: A User Perspective.” *INFORMS Annual Meeting*, Nashville, TN. Nov. 13-16, 2016.
7. **Hammett, J.**, Alvarado, M., Lawley, M. “VHA Supply Chain Enterprise System Benchmarking Analysis.” *INFORMS Annual Meeting*, Nashville, TN. Nov. 13-16, 2016.
8. **Hammett, J.**, Alvarado, M., Avnet, M., and Lawley, M. “A framework for customized patient-centric remote monitoring systems.” *IIE Annual Conference and Expo*, Anaheim, CA. May 21-24, 2016.
9. VandeWeerd, C., Agu, N., Aden-Buie, G., **Hammett, J.**, Yetisener, A., Radwan, C., Salow, V., Yalcin, A. “Aging in place: the potential of sensor technology to increase seniors’ independence.” *The Gerontological Society of America 68th Annual Scientific Meeting*, Washington, DC. Nov. 18–22, 2015
10. Yalcin, A., Agu, N., Aden-Buie, G., **Hammett, J.**, Yetisener, A., Radwan, C., Salow, V., VandeWeerd, C. “Ambient sensor monitoring to enable aging in place for older adults.” *APHA Annual Meeting and Expo*, Chicago, IL. Oct. 31- Nov. 4, 2015.
11. **Hammett, J.**, Aden-Buie, G., Yetisener, A., Agu, N., Radwan, C., Yalcin, A., VandeWeerd, C. “Ambient Intelligence Based Solutions for Senior Healthcare Management.” *7th Annual USF College of Engineering Research Day*, Tampa, FL. Nov. 19, 2014.

HONORS AND AWARDS

National Level

2016-2019 National Science Foundation Graduate Research Fellow (NSF GRFP)

University Level

2018 Texas A&M Close the Gap Career Fellow, NSF funded program (\$1,840 travel)

2017 Texas A&M Close the Gap Career Fellow, NSF funded program (\$1,000 travel)

2015-2016 Texas A&M Institute for Advanced Study, Heep Graduate Student Fellow

College Level

2016 Excellence in Research Award, Matching Grants Research Program (USF)

2012, 2013, 2014 College of Engineering Dean's List (USF)

Department Level

2017 Distinguished Student Service Award (TAMU ISEN)

2014 Outstanding Fall BSIE Graduate (USF IMSE)

TEACHING EXPERIENCE

Classroom Experience

SPARK Conference, Organizer & Facilitator, Elementary and High School student design competition, Dec. 2017 (TAMU SEC)

ISEN 411: Engineering Management Techniques, Guest Lecturer, Feb. 2016 (TAMU ISEN)

ISEN and Alpha Pi Mu Graduate Student Round-Robin Seminar, Organizer & Facilitator, Feb. 2016 (TAMU ISEN)

EGN 4930: Leadership in Engineering, Teaching Assistant & Co-Instructor, Spring 2015, Students: 48 (USF College of Engineering)

EGN 4930: Leadership in Engineering, Teaching Assistant & Co-Instructor, Fall 2014, Students: 47 (USF College of Engineering)

Great American Teach-In, Lecturer, Nov. 2013, Students: 20 fifth-graders, Tampa, FL

Mentoring Experience

TAMU NSF Graduate Student Awardee Panelist and Peer Mentor, Fall 2017 & 2018
Review applications for undergraduate and graduate students applying to the NSF GRFP, and serve on a panel of awardees to discuss application experiences.

TAMU Research Intensive Community for Undergraduates Program, Summer 2016

Mentor to 6 undergraduates under the supervision of Dr. Michelle Alvarado

Project: Chronic illnesses, their indicators, and monitoring devices in the home

ISEN 459: Senior Design Team Mentor, Fall 2016

Project: Veterans Health Administration POU Benchmarking

ISEN 459: Senior Design Team Mentor, Spring 2016

Project: Veterans Health Administration ERP System Benchmarking

INDUSTRY EXPERIENCE

Performance Improvement Intern

May 2013 – Sept. 2014

Hospital Corporation of America, Inc., Management Engineering Department

Tampa, FL

Projects:

- Region-wide study of specimen flow from hospital emergency department to laboratory with recommendations to improve efficiency and reduce errors.
- Lean Six-Sigma 5S supply room redesign for a primary care clinic to eliminate waste from expired and underutilized inventory.
- Process flow mapping of case management denials process and remapping of improved process with Insurance Case Expert involvement.

Department Supervisor

Aug. 2004 – Mar. 2012

Best Buy Co., Inc., Geek Squad Department

Multiple locations

Primary responsibility: lead teams to motivate excellence in client service fulfillment

PROFESSIONAL SOCIETIES AND SERVICE ACTIVITIES

American Telemedicine Association (2017-2018)
2018 ATA Connector
Healthcare Information and Management Systems Society (2017)
Human Factors and Ergonomics Society (2018-2019)
Institute of Electrical and Electronics Engineers (2016)
Engineering in Medicine and Biology Society
Women in Engineering
Institute of Industrial and Systems Engineers (2012-2019)
2016 IISE General Meeting, Panel Speaker, Oct. 2016 (TAMU)
2012-2014 Volunteer (USF)
2012-2013 Undergraduate mentor (USF)
Institute for Operations Research and the Management Sciences (2014-2019)
Minority Issues Forum (2016-2019)
Health Applications Society (2015-2019)
Women in ORMS (WORMS) Forum (2015-2019)
2018-2019 WORMS Student Liaison
2018-2019 Student Affairs Committee Member
2017 President (TAMU)
2016 President-Elect (TAMU)
2014 Volunteer (USF)
Society of Women Engineers (2014-2017)
2014 Undergraduate mentor (USF)

TRAINING AND WORKSHOPS

2018 LAUNCH Mentoring Undergraduate Researchers: A Workshop for Graduate Students, College Station, TX
2017 International Summer School in Healthcare Operations Research, Enschede, The Netherlands
2017 LAUNCH Mentoring Undergraduate Researchers: A Workshop for Graduate Students, College Station, TX
2017 GRAD Aggies Basic Level Professional Development Certificate, College Station, TX
2016 International Summer School on Web Science and Technology, Bilbao, Spain
2015 NSF Grant Training Workshop, College Station, TX

REFERENCES

Available on request