2. CURRICULUM VITAE

Heather Keathley



CONTENTS	
BIOGRAPHY	1
Education & Training	1
Professional Experience	2
Professional Affiliations	2
Awards & Recognition	2
ACTIVITIES, OUTCOMES, & IMPACT STATEMENT	3
TEACHING, ADVISING & MENTORING	4
Courses Taught	4
Advising & Mentoring	6
Educational Contributions	
RESEARCH & SCHOLARLY ACTIVITIES	12
Publications	
Presentations	16
Grants & Contracts	
PROFESSIONAL SERVICE	19
College/University Service	19
Department Service	
Professional Service	
Community Service & Outreach	20

BIOGRAPHY

Heather Keathley (AKA Heather Keathley-Herring) is an Assistant Professor in the Department of Industrial Engineering & Management Systems (IEMS) at the University of Central Florida (UCF). She is also the Director of the Organizational Effectiveness & Sustainability Research Group and the Industrial Adoption of Technology Lab. Dr. Keathley has a background in industrial and systems engineering with a focus on management systems engineering. She has expertise in mixed-method research including qualitative analysis, statistical modeling, field research (surveys, interviews), and experimentation. She teaches undergraduate and graduate level courses with a specific focus on statistical analysis and industrial experimentation and her research program is centered on organizational change and improvement including implementation of management systems, performance management, organizational resilience, and adoption of emerging technologies to support the future of work.

Education & Training

Academic Degrees

Ph.D. Industrial & Systems Engineering, 2013-2016

Grado Department of Industrial and Systems Engineering, Virginia Tech, Blacksburg, Virginia, USA Concentration in Management Systems Engineering

Dissertation Title: Empirical Investigation of Factors that Affect the Successful Implementation of Performance Measurement Systems

Ph.D. Social & Military Sciences, 2014-2016

Dept. of Economy, Management & Leadership, Royal Military Academy, Brussels, Belgium
Dissertation Title: Learning Organizations in High-Risk Environments: The Role of Leadership Style and
Systems of Performance Measurement

M.S. Industrial & Systems Engineering, 2011-2013

Grado Department of Industrial and Systems Engineering, Virginia Tech, Blacksburg, Virginia, USA Non-Thesis/Direct Doctoral Program

B.S. Systems Engineering, Cum Laude, 2006-2011

Systems Engineering Department, University of Arkansas at Little Rock, Little Rock, Arkansas, USA Concentrations in Computer Engineering, Mechanical Engineering; Minor in Mathematics Senior Design: *Design of Auto-Piloted Unmanned Aerial Vehicle for Land Surveillance*

Professional Certifications

Future Professoriate, 2013-2015

Graduate School, Virginia Tech, Blacksburg, Virginia, USA

Engineering Intern License, 2011

Fundamentals of Engineering Exam (General), Arkansas License #7894

Professional Development Activities

Digital Learning STEM Institute (DLI 7836), Fall 2019

University of Central Florida, Orlando, Florida, USA

Non-credit course provided by UCF's Center for Distributed Learning (CDL) focused on online, mixed-mode, or reduced adaptive modalities.

Digitizing and Remediating STEM Assessments, Summer 2017

University of Central Florida, Orlando, Florida, USA

Non-credit course provided by UCF's Evaluation & Proficiency Center (EPC) focused on designing digital assessments for STEM courses.

Professional Experience

Assistant Professor, August 2016 - Present

Industrial Engineering & Management Systems, University of Central Florida, Orlando, Florida, USA

Graduate Research Assistant, February 2014- August 2016

Grado Department of Industrial and Systems Engineering, Virginia Tech, Blacksburg, Virginia, USA

Instructor, July 2015- August 2015

Grado Department of Industrial and Systems Engineering, Virginia Tech, Blacksburg, Virginia, USA Course: Engineering Economy

Graduate Teaching Assistant, August 2011- February 2014

Grado Department of Industrial and Systems Engineering, Virginia Tech, Blacksburg, Virginia, USA Courses: Engineering Economy, Deterministic Operations Research, Discrete-Event Simulation, Facilities Planning & Material Handling

Supplemental Instruction Coordinator, January 2011- May 2011

Department of Systems Engineering, University of Arkansas at Little Rock, Little Rock, Arkansas, USA

Supplemental Instructor, August 2010- May 2011

Department of Systems Engineering, University of Arkansas at Little Rock, Little Rock, Arkansas, USA Courses: Physics I, II for Science and Engineering

Undergraduate Research Assistant, May 2009- May 2011

Department of Systems Engineering, University of Arkansas at Little Rock, Little Rock, Arkansas, USA Assistant Laboratory Manager: Micro-Electromechanical Systems (MEMS) Laboratory NSF Summer Undergraduate Research Fellowship (SURF) Award: *Piezoelectric Sensors via Plasma Etching of Micro-Cantilever Beams on Silicon Substrates*

Professional Affiliations

American Society of Engineering Management (ASEM), 2012- Present

Member, Volunteer (Conference Session & Track Chair)

Institute of Industrial & Systems Engineers (IISE), 2012- Present

Society for Engineering and Management Systems (SEMS)

Member, Volunteer (Conference Session Chair)

Alpha Pi Mu (APM), 2014 – Present

Member, UCF Chapter Faculty Advisor (2016- Present)

Awards & Recognition

William Daughton World Headquarters Service Award, October 2021

American Society for Engineering Management; Awarded for contributions as a member of the Technical Committee supporting the transition of the society to a new conference management system.

Merritt Williamson Award for Best Conference Paper, October 2021

American Society for Engineering Management; Awarded for "Development of A Causal Model to Evaluate Factors in Performance Measurement Implementation," which was selected as the best dissertation by a panel of senior ASEM members.

Best Dissertation Award, October 2021

American Society for Engineering Management; Awarded for "A Dynamic Analysis of the Success Factors that affect Performance Measurement Implementation," which was selected as the best dissertation by a panel of senior ASEM members.

William Daughton World Headquarters Service Award, October 2020

American Society for Engineering Management; Awarded for contributions as a member of the Technical Committee supporting the transition of the society to a new conference management system.

ACTIVITIES, OUTCOMES, & IMPACT STATEMENT

Dr. Keathley aims to bring together researchers, students, and industry partners to conduct interdisciplinary research that advances our theoretical understanding of organizational science and behavior while developing practical strategies and tools that allow modern organizations to function more effectively in dynamic and operationally complex environments.

Teaching. Dr. Keathley's teaching strategies focus on meaningfully engaging students in individual and team-based activities that integrate conceptual foundations and practical applications allowing them to exercise support skills (e.g., professionalism, teamwork) while preparing them to be effective in practice. Her student evaluations have reflected these efforts with an average 'Overall Effectiveness' rating of 4.17 on a five-point scale (note that the average for the same measure was 3.81 and 3.95 for the department and college, respectively, over the same time period). As part of her teaching efforts, Dr. Keathley has completed two professional development courses in digitizing course content and teaching in online environments to develop courses that are scalable for larger class sizes while providing an enriching, secure, and accessible learning environment for students. She is also active in mentoring undergraduate and graduate students in fundamental and applied research. Since coming to UCF, she has mentored fortynine undergraduate students through interdisciplinary directed research projects, senior design projects (extensions of research projects where Dr. Keathley served as one of the primary advisors), and the honors thesis program. She has also supervised five doctoral students who have graduated and secured positions in academia and industry. Of these, one student was awarded the Best Dissertation award from the American Society of Engineering Management. Dr. Keathley is currently advising three doctoral students and four undergraduate students as well as a postdoctoral scholar with a background in organizational psychology.

Research. Dr. Keathley has served as Principal Investigator on three externally funded projects during her time at UCF. One project is funded by the National Science Foundation and is focused on the adoption of intelligent robotics in manufacturing to support the future of work. She is also Principal Investigator on two projects funded by the Belgian Armed Forces to study performance management systems and change management in the defense and public sectors. In addition, she served as a Co-Principal Investigator on a project funded by the Defense Advanced Research Projects Agency to study information spread in social networks. Dr. Keathley's external funding totals \$799,350, which has been used to support postdoctoral,

graduate, and undergraduate researchers, establish the Industrial Adoption of Technology lab, and build industry partnerships. During her time at UCF, Dr. Keathley has published seven peer-reviewed journal articles and sixteen peer-reviewed conference papers. As of June 2022, her work has been cited 256 times with an h-index of eight. One of her most impactful publications provides a framework for assessing the development of a research area through analysis of published literature. Dr. Keathley regularly provides one-hour seminars on the systematic literature review approach to graduate researchers both within the IEMS program at UCF as well as for external research collaborators. Recently, one of Dr. Keathley's conference papers was awarded Best Conference Paper by the American Society of Engineering Management leading to an invited publication in the Engineering Management Journal. Through this work, Dr. Keathley has established the Organizational Effectiveness & Sustainability Research Group and the Industrial Adoption of Technology Lab to support her research program and maintain partnerships with industry. Her work has been internationally recognized leading to one invited talk and two invited papers.

Service. Dr. Keathley has a strong appreciation for professional service and often volunteers to support the department and university when possible. This includes participation in committees at the department and college levels as well as service as a reviewer for academic journals, conferences, and funding agencies. Within the Department of Industrial Engineering & Management Systems, Dr. Keathley is a member of the Undergraduate Curriculum Committee and the ABET committee. She also serves as the Assessment Coordinator for the B.S. Industrial Engineering program, which consists of managing the program assessment process to continuously improve student outcomes. Dr. Keathley is also an active member of the Institute of Industrial & Systems Engineering (IISE) as well as the American Society for Engineering Management (ASEM) and she regularly serves as conference session chair at annual conferences as well as track chair for two tracks at the ASEM International Annual Conference. In addition, Dr. Keathley served on the technical committee for the ASEM annual conference for three years during which time she worked to establish and maintain the conference web portal including transitioning the conference to a new platform. The society recognized Dr. Keathley's contributions by awarding her the William Daughton World Headquarters Service Award in 2020 and 2021. Finally, Dr. Keathley serves as the faculty advisor for the UCF chapter of the Alpha Pi Mu (APM) honors society. As part of this role, Dr. Keathley participates in two UCF outreach programs aimed at introducing local primary and secondary school students to STEM disciplines. She manages teams of undergraduate volunteers to complete activities that demonstrate core sub-disciplines of industrial engineering. Dr. Keathley has led the development of five activities that are offered each semester at UCF events. She also leads a one-hour seminar at these events to help students and parents understand the role of industrial engineers in different industries and how industrial engineering contributes to society.

TEACHING, ADVISING & MENTORING

Courses Taught

Industrial Engineering & Management Systems, University of Central Florida, 2016- Present Note that student evaluations are from Question 9 (Overall Effectiveness) on the UCF Student Perceptions of Instruction (SPI) survey.

UNDERGRADUATE COURSES:

ESI 4221 Empirical Methods for Industrial Engineering, 3 Credits

Semester	Modality	No. of Students	Mean Score on SPI Q9	Dept./College Mean Q9 Score
Fall 2016	Face-to-Face	119	3.82	3.69/ 3.88
Fall 2017	Face-to-Face	154	3.94	3.82/ 3.88
Fall 2018	Face-to-Face	155	4.38	3.87/ 3.96
Fall 2019	Face-to-Face	113	4.55	3.69/ 3.88
Fall 2020	Face-to-Face/ Remote ¹	146	4.08	3.87/3.99
Fall 2021	Face-to-Face/ Blended ²	121	3.19	3.60/4.01
Fall 2022	Face-to-Face	TBD	TBD	TBD

- 1. The course consisted of synchronous lectures streamed live via Zoom and online homework/exams.
- 2. The course was conducted as face-to-face with the lectures live streamed and recorded so that students could participate as preferred. Students were required to take exams in person at the Evaluation and Proficiency Center according to regular course policy.

STA 3032/3032H Probability & Statistics for Engineering, 3 Credits

Semester	Modality	No. of Students	Mean Score on SPI Q9	Dept./College Mean Q9 Score
Summer 2020	Online	279	3.60	3.78/3.94
Spring 2022	Face-to-Face	21	3.78	3.83/4.03
Fall 2022	Face-to-Face	TBD	TBD	TBD

EIN 4545 Industrial Engineering Applications in the Service Industry, 3 Credits

Semester	Modality	No. of Students	Mean Score on SPI Q9	Dept./College Mean Q9 Score
Fall 2019	Face-to-Face	31	4.53	3.69/ 3.88

EGS 3030/3031 Engineering Leadership, 0 Credits

Semester	Modality	No. of Students	Mean Score on	Dept./College
Semester	semester Modality I		SPI Q9	Mean Q9 Score
Fall 2018	Face-to-Face	82	4.44	3.87/ 3.96
Spring 2019	Face-to-Face	109	4.45	3.99/ 3.99

ESI 3933 Industrial Engineering Career Advising, 0 Credits

Semester	Modality	No. of Students	Mean Score on SPI Q9	Dept./College Mean Q9 Score
Fall 2021	Online	1	NR	-

EIN 4903H/4970H Honors Directed Research/Thesis, 3 Credits

Semester	Modality	No. of Students	Mean Score on SPI Q9	Dept./College Mean Q9 Score
Spring 2019	Face-to-Face	1	NR	-
Fall 2019	Face-to-Face	1	NR	-
Fall 2020	Face-to-Face	1	NR	-
Spring 2021	Face-to-Face	1	NR	-

ESI 4912 Directed Undergraduate Research, 0-3 Credits

Semester	Modality	No. of Students	Mean Score on SPI Q9	Dept./College Mean Q9 Score
Spring 2017	Face-to-Face	2	NR	-
Fall 2018	Face-to-Face	10	NR	-
Fall 2019	Face-to-Face	7	NR	1
Spring 2020	Face-to-Face	12	NR	-
Fall 2020	Face-to-Face	8	NR	-
Spring 2021	Face-to-Face	9	NR	-
Fall 2021	Face-to-Face	3	NR	-

GRADUATE COURSES:

ESI 6247 Experimental Design & Taguchi Methods, 3 Credits

Compostor	Modality	No. of Students	Mean Score on	Dept./ College
Semester		No. of Students	SPI Q9	Mean Q9 Score
Spring 2019	Mixed Mode	54	4.59	3.99/ 3.99
Spring 2020	Mixed Mode	44	4.41	3.83/ 3.97
Spring 2021	Mixed Mode	33	4.77	3.84/ 4.01

EIN 6182 Engineering Management, 3 Credits

Semester	Modality	No. of Students	Mean Score on SPI Q9	Dept./College Mean Q9 Score
Spring 2017	Mixed Mode	10	NR	-

Industrial & Systems Engineering, Virginia Tech, Summer 2015

UNDERGRADUATE COURSES:

ISE 2014 Engineering Economy, 3 Credits

Semester	Modality	No. of Students	Student Perceptions of Teaching (SPOT)
Summer 2015	Face-to-Face	25	NR

Advising & Mentoring

Postdoctoral Scholars

<u>CURRENT - University of Central Florida Scholars</u>

1. Juseob Lee, Industrial/Organizational Psychology, 2021- Present

Funding: NSF Future of Work at the Human-Technology Frontier; UCF Preeminent Postdoctoral Program (P3)

Project: Supervise It! Optimizing Intelligent Robot-Human Partnerships Through Feedback and Control: A Study on Supervised Work Cells

Dissertation Students

COMPLETED – University of Central Florida Students: Primary Advisor

1. Elaf Makkawi, Ph.D. Industrial Engineering, 2017- Summer 2020

Dissertation Title: The Impact of Work Environment on Successful Implementation of Lean Six Sigma in Emergency Department

Funding: Self-Funded

Current Position: Assistant Professor

2. Joshua Nelson, Ph.D. Industrial Engineering, 2017- Fall 2020

Dissertation Title: Leveraging Augmented Reality for Real-time Operational Performance

Management

Funding: Employer Funded; NSF iCorps (Summer 2020)

Current Position: Professional Engineer

3. Mustafa Rawshdeh, Ph.D. Industrial Engineering, 2016- Spring 2021

Dissertation Title: Factors That Affect the Successful Implementation of Quality Management

Systems in Healthcare

Funding: Jordanian Government; UCF IEMS Graduate Teaching Assistant/Associate

Current Position: Assistant Professor

COMPLETED - University of Central Florida Students: Co-Advisor

4. Laura Segarra, Ph.D. Industrial Engineering, 2017- Summer 2022

Co-Advisor Dr. Luis Rabelo

Dissertation Title: A Contingent Approach to Studying Technical Programs in the Public Aerospace

Industry

Funding: Employer Funded

Current Position: Professional Engineer

<u>COMPLETED – External Students: Co-Advisor</u>

5. Olufunke Oladimeji, Ph.D. Systems & Engineering Management, 2016- Summer 2020

Texas Tech University; Co-Advisor Dr. Jennifer Cross

Dissertation Title: A Dynamic Analysis of the Success Factors that Affect Performance Measurement

Implementation

Funding: Texas Tech University Graduate Teaching Assistant/Associate

Current Position: Assistant Professor

<u>CURRENT – University of Central Florida Students: Primary Advisor</u>

6. Seyedreza Baharisaravi, Ph.D. Industrial Engineering, 2017- Present

Dissertation Title: Developing a Multi-Level Model of Organizational Resilience

Funding: Start-up funding; UCF IEMS Graduate Teaching Assistant; Graduate Research Assistant NSF

Future of Work at the Human-Technology Frontier

Expected Defense: Fall 2022

7. Cherie Herrin, Ph.D. Industrial Engineering, 2021- Present

Dissertation Title: TBD – Organizational Transformation & Change Management

Funding: Employer Funded Expected Defense: Spring 2025

8. Sara Ansari, Ph.D. Industrial Engineering, 2022- Present

Dissertation Title: TBD – System Dynamics Modeling to Improve Technology Adoption Success Funding: Graduate Research Assistant NSF Future of Work at the Human-Technology Frontier

Expected Defense: Summer 2025

Undergraduate Thesis Students

COMPLETED – University of Central Florida Students: Primary Advisor

1. Valentina Parra Alvarez, B.S. Industrial Engineering, 2019

Program: Honors in the Major Thesis

Thesis Title: Successful Implementation of The Baldrige Performance Excellence Program

2. Stefani Baz, B.S. Industrial Engineering, 2020-2021

Program: Honors in the Major Thesis

Thesis Title: A Model for Assessing Staff Resilience to Improve Organizational Resilience in

Emergency Departments

Awarded the UCF Honors Undergraduate Thesis (HUT) scholarship (Fall 2020, \$1k)

Undergraduate Non-Thesis Students

<u>COMPLETED – Directed Undergraduate Research: Primary Advisor</u>

1. Systematic Literature Review, Spring 2017

Students: Sean Birkholz; Brian Strevens

Project: Change Management Theory: Systematic Review of Simulation and Modeling Techniques

2. Systematic Literature Review, Fall 2018

Students: Vivian Abreu; David Corredor; Christopher Geszti; Harley Gomez; Chirag Merchant; Natnisha Nimityongskul; Carlos Ricoveri Granito; Alexander Riffe; Teresa Rintoul; Benny Tang Project: Systematic Literature Review Study Group

3. Laboratory Experiment, Fall 2019- Fall 2020

Students: Stefani Baz; Michaela Green; Bijan Hejazimanesh; Santiago Holguin; Colin Jackson; Steve Montes; Fatemah Najafali; Lawrence O'Connor-Emanuel; Jackson Trudel; Angela Vaca; Bailey Waldorf; Elizabeth Warner

Project: Augmented Reality as a Tool for Operational Decision-Making

4. Systematic Literature Review, Fall 2020- Spring 2021

Students: Sofia Florez; Yaroslav Spichak; Diego Tovar-Lopenza; Juan Villalobos Project: Systematic Review of Strategic-Level Stakeholders in the Defense Sector

5. Systematic Literature Review, Spring 2021

Students: Quan Do; Santiago Gonzalez Aguado; Roger Guerrero; Alexandra Hernandez

Project: Systematic Review Experiential Reality Applications in Industry

6. Systematic Literature Review, Fall 2020- Spring 2021

Students: Julieth Esparragoza Gomez; Nathan O'Brien

Project: Systematic Review of Technology Adoption Models & Theory

7. Case Study, Fall 2020- Fall 2021

Student: Navindra Maraj

Project: Systems Requirements Analysis for Surface Defect Detector

8. Grounded Theory Study, Fall 2020- Fall 2021

Students: Sofia Florez; Alexandra Hernandez; Hannah Rowland

Project: Development of a Survey and Interview Protocol to Investigate Adoption of Advanced

Robotics in Industry

CURRENT - Directed Undergraduate Research: Primary Advisor

1. Laboratory and Field Study, Summer 2022

Students: Kayla Sterling, Sofia Covelli, Jayson Srouji, Landen Teelon-Rozo Project: Adoption of Advanced Robotics in Human-Led Manufacturing

<u>COMPLETED – Directed Undergraduate Research: Co- Advisor</u>

1. Laboratory Experiment, Spring 2020

Student: Charles De Jager Co-Advisor: Dr. Joon-Hyuk Park

Project: Car Damage Detection System

COMPLETED - UCF EXCEL Program: Primary Advisor

1. Survey Study, 2018-2019

Student: Breanne Dodier

Project: Expert Study & large-scale survey on Quality Management system implementation

COMPLETED -Senior Design Team Advisor

1. Prototype Design & Testing, Spring 2020- Fall 2020

Students: Kyle Cabra, Charles de Jager, Peter Dorsaneo, John Hatchitt, Bijan Heljazimanesh, Santiago Holguin, John LaSala, Angela Vaca, Elizabeth Warner, Grant White, Ryan Wilson, Leo, Zhang, Ryan Ziegler

Project: Augmented Reality Tool to Improve Industrial Process in Manufacturing

Mentored an interdisciplinary team of Industrial Engineering and Computer Science students to develop an augmented reality tool to support operations at a local manufacturing company.

2. Systematic Literature Review, Fall 2020

Students: Gabe Kagan; Julia Khan; Marah Kosto; Jonathan Manglardi; Omar Zavala

Project: Experiential Reality Interoperability Research: Investigation, Analysis, and Findings

Mentored a team of Industrial Engineering students to conduct a Systematic Literature Review to investigate current applications of eXperiential Reality tools to support client decision-making related to technology adoption readiness.

Curriculum Vitae Heather Keathley

Doctoral Committee Member

COMPLETED - University of Central Florida Students

Student	Years	Primary Advisor	Program
Mengmeng Chen	2016- 2018	Dr. Luis Rabelo	Ph.D. Industrial Engineering
Title:	An Engineeri	ng Analytics-Based Framew	ork for Computational
	Advertising S	Systems	
Sultan Almutairi	2018- 2019	Dr. Tomas O'Neal	Ph.D. Industrial Engineering
Title:	The Challeng	es and Barriers to Employm	nent for Female in Riyadh and
	Tabuk		
Prateek Basavaraj	2018- 2020	Dr. Ivan Garibay	Ph.D. Industrial Engineering
Title:	Utilizing Inst	itutional Data for Curriculur	m Enhancement to Improve
	Student Succ	ess in Undergraduate Comp	outing Programs
Seyyedmilad	2018- 2020	Dr. Ivan Garibay	Ph.D. Industrial Engineering
Talebzadehhosseini	2010 2020	Dirivan Ganbay	This massial Engineering
Title:	Investigating	the Interaction Effects of G	Green Product Development and
	Countries Gr	een Growth Performance: E	conomic Complexity Perspective
Ryan Rust	2018- 2021	Dr. Ahmad Elshennawy	Ph.D. Industrial Engineering
Title:	A Frameworl	k for Mitigating Obsolescen	ce in Military Based Systems
Shahed Obeidat	2018-2021	Dr. Waldemar Karwowski	Ph.D. Industrial Engineering
Title:	Assessment of	of Work-Related Feelings Ar	mong Teachers Within
	Jordan and T	he United States Education	al Systems

CURRENT - University of Central Florida Students

Student	Years	Primary Advisor	Program		
Yousef	2018-	Dr. Adan Vela	Ph.D. Industrial Engineering		
Oleyaeimotlagh	Present				
	Expected Defense: Summer 2022				
Alper Senol	2019-	Dr. Ahmad Elshennawy	Ph.D. Industrial Engineering		
	Present		FII.D. IIIdustriai Engineering		
Expected Defense: Fall 2022					
Mohamed	2019-	Dr. Luis Rabelo	Ph.D. Industrial Engineering		
Hamada	Present		Ph.D. Industrial Engineering		
	Candidacy Scheduled: Spring 2022				
Ben Park	2020-	Dr. Timothy Kotnour	Ph.D. Industrial Engineering		
	Present				
Candidacy Passed: Spring 2022					

<u>CURRENT – External Students</u>

Student	Years	Primary Advisor	Program	
Joaquim Soares	2018-	Dr. Geert Letens	Social & Military Sciences (Royal	
	Present		Military Academy, Belgium)	
Final Defense Planned: Summer 2023				
Sven Vanhengel	2020-	Dr. Geert Letens	Social & Military Sciences (Royal	
	Present		Military Academy, Belgium)	
Qualifying Exam Planned: Fall 2022				
Mohammed	2021-	Dr. Eileen Van Aken	Industrial & Systems Engineering	
Alrezq	Present		(Virginia Tech)	
Qualifying Exam Passed: Fall 2021				

Educational Contributions

Course Development – ESI 4221 Empirical Methods for Industrial Engineering, 2017- Present Industrial Engineering & Management Systems, University of Central Florida

Revising and digitizing the required ESI 4221 Empirical Methods for Industrial Engineering undergraduate course to improve scalability and increase active/experiential learning.

- Completed the Digitizing STEM Assessments course during the summer of 2017 to earn access to the Evaluation and Proficiency Center (EPC) testing services.
- Began digitizing assessments for the ESI 4221 Empirical Methods for Industrial Engineers course in Fall 2017 including developing four digital quizzes, digitizing two existing exams, and developing one digital exam.
- Earned a course-release for Spring 2018 to continue digitizing and revising content for the ESI 4221 course including: digitizing all homework, quizzes, and exams; developing a course project; revising and updating course modules; pre-recording demonstrations, and selection of new course texts and materials.
- Taught the revised course in Fall 2018 featuring digitized, auto-graded assessments including seven homework assignments, seven quizzes, four midterm exams, and a final exam. The revision also expanded the course project to focus on use of software tools (IBM SPSS & MS Excel) to solve a relevant industrial engineering problem. The mean score on Question 9 of the SPI (i.e., overall effectiveness) was 4.38 (out of 5.0).
- Revised the course content and structure based on feedback from Fall 2018 and completed the DLI
 7836 course to earn the ability to hold fully online and mixed-mode courses during the Summer of
 2019. Continued to refine the course content and structure and held the revised course in Fall 2019
 earning a mean score of 4.53 (out of 5.0) on Question 9 of the SPI (i.e., overall effectiveness).
- Course development was affected by remote teaching efforts during Fall 2020 and 2021. This was
 further complicated by technical difficulties interfacing with the EPC during Fall 2021. The
 challenges and lessons learned were evaluated and strategies for improving the resilience of the
 course were developed in Spring 2022. The newly revised course will be offered in Fall 2022.

Course Development – STA 3032/3023H Probability & Statistics for Engineering, 2022- Present Industrial Engineering & Management Systems, University of Central Florida

Generating digital content for the required STA 3032/3032H Probability & Statistics for Engineering undergraduate course to improve scalability and increase student success (supporting freshmen/sophomore students in self-directed learning in a fully online course). This includes creating pre-recorded

lectures that will be made available on-demand in both the live and online sections of the course as well as curating additional guidance/resources for student success in online learning environments (e.g., detailed guidelines for progressing through course materials, key differences in learning strategies in live vs. online courses, UCF and external resources for online learning, self-assessment strategies).

RESEARCH & SCHOLARLY ACTIVITIES

Keywords: Management System Engineering, Engineering Management, Systems Engineering, System Implementation, Change Management, Performance Measurement & Management, Organizational Resilience, Technology Adoption.

Publications

Note: Publications are listed in reverse chronological order with the Lead Author listed first.

Note: * indicates graduate or undergraduate students under direct supervision

** indicates a graduate or undergraduate students under general advisement

Refereed Journal Papers

Published:

- 1. Soares, J., Letens**, G., Vallet, N., Van Bockhaven, W., Keathley-Herring, H., & Van Aken, E. (2022). The defence performance measurement framework: measuring the performance of defence organizations at the strategic level. Defence Studies, 1-24. . IF(2021): 2.0.
- 2. Nelson, J.*, & Keathley, H. (2021). Augmented Reality for Managerial Tasks: Review and Implications for Engineering and Operations Management. Engineering Management Journal, 1-17. IF(2021): 2.548.
- 3. Oladimeji, O.*, Cross, J., & Keathley-Herring, H. (2020). System dynamics applications in performance measurement research: progress and challenges. Management Decision. IF(2021): 5.589.
- 4. Oladimeji, O. O.*, Keathley-Herring, H., & Cross, J. A. (2020). System dynamics applications in performance measurement research: A systematic review. International Journal of Productivity and Performance Management. JCI(2021): 0.70.
- 5. Talebzadehhosseini, S.**, Garibay, I., Keathley-Herring, H., Al-Rawahi, Z. R. S., Garibay, O. O., & Woodell, J. K. (2019). Strategies to enhance university economic engagement: evidence from US universities. Studies in Higher Education, 1-20. IF(2021): 4.017.
- 6. Keathley-Herring, H. (2017). An Approach to Quantify the Factors That Affect Performance Measurement System Implementation. Engineering Management Journal, 29(2), 63-73. IF(2021): 2.548.
- 7. Keathley-Herring, H., Van Aken, E., Gonzalez-Aleu, F., Deschamps, F., Letens, G., & Orlandini, P. C. (2016). Assessing the maturity of a research area: bibliometric review and proposed framework. Scientometrics, 1-25. IF(2021): 3.801.

Submitted/Under Review:

1. Makkawi, E.*, Keathley-Herring, H., The Impact of Work Environment on Successful Lean Six Sigma Projects. Total Quality Management (Submitted August 2022). IF(2021): 0.299.

- 2. Rawshdeh, M.*, Keathley-Herring, H., Successful Implementation Factors of Quality Management Systems in Healthcare. Healthcare (submitted July 2022). IF(2021): 3.160.
- 8. Oladimeji, O.*, Cross, J., & Keathley-Herring, H., Predicting Performance Measurement Implementation Success: An ANP Study. Engineering Management Journal (Submitted May 2022). IF(2021): 2.548.

In Preparation:

- 1. Baharisaravi, S.*, Keathley-Herring, H., *Multi-Dimensional Model of Organizational Resilience:* Integrating Insights across domains.
- 2. Baz, S.*, Keathley-Herring, H., *Impact of Staff Members on Organizational Resilience in Emergency Departments.*
- 3. Makkawi, E.*, Keathley-Herring, H., A Conceptual Framework for Critical Success Factors of Lean Six Sigma in Emergency Departments.
- 4. Makkawi, E.*, Keathley-Herring, H., Lean Six Sigma Implementation in Emergency Departments: A Qualitative Case Study Using Grounded Theory.
- 5. Nelson, J.*, Keathley-Herring, H., An Expert Study on Leveraging Augmented Reality for Operational Performance Measurement.
- 6. Nelson, J.*, Keathley-Herring, H., Augmented Reality in Operational Performance Management: Creating Immersive Performance Environments to Support Real-Time Decision Making.
- 7. Oladimeji, O.*, Cross, J., & Keathley-Herring, H., A dynamic analysis to evaluate the success factors of the performance measurement implementation process.
- 8. Rawshdeh, M.*, Keathley-Herring, H., Facilitators, Barriers, And Benefits of Quality Management Systems Implementation: Healthcare Experts' Perspectives.
- 9. Soares, J.**, Letens, G., Keathley-Herring, H., Systematic Review of Defense Stakeholders' Perceptions of Military Performance.

Refereed Publications in Conference Proceedings

- 1. Quan 'Chloe' Do*, Santiago Gonzalez Aguado*, Roger Guerrero*, Alexandra Hernandez-Gonzalez*, Heather Keathley, (2021), Recent Advancements in XR Interoperability Research: Systematic Review and Synthesis, Simulation Interoperability Standards Organization SIMposium, September 2021.
- 2. Oladimeji, O.*, Cross, J., Keathley-Herring, H., (2020), Development of a causal model to evaluate factors in performance measurement implementation, Proceedings of the American Society for Engineering Management (ASEM) 2021 Conference, Virtual.
- 3. Dr. Ganapathy Natarajan, Dr. Ean H. Ng, Dr. Elizabeth Schott, Dr. Heather Keathley, (2020), Round Table Presentation Format: Lessons Learned and Application to Active Learning Pedagogies,

Proceedings of the American Society for Engineering Management (ASEM) 2020 Conference, Virtual.

- 4. Oladimeji, O.*, Cross, J., Keathley-Herring, H., (2020). Identifying case studies for performance measurement implementation models using systematic review. In IIE Annual Conference. Proceedings (pp. 186-191). Institute of Industrial and Systems Engineers (IISE).
- 5. Harfoush, A*, Baharisaravi, S*, Keathley, H. (2020). Using Statistic Tools in Organizational Resilience: A Review. Proceedings of the 2020 Industrial and Systems Engineering Research Conference, Institute of Industrial Engineers, May 2020.
- 6. Oladimeji, O.*, Cross, J., Keathley-Herring, H., (2019). Developing causal relationships for the performance measurement implementation process. In 2019 International Annual Conference of the American Society for Engineering Management and 40th Meeting Celebration: A Systems Approach to Engineering Management Solutions, ASEM 2019. American Society for Engineering Management.
- 7. Oladimeji, O.*, Cross, J., Keathley-Herring, H., (2019). Factors Affecting Performance Measurement Implementation: A SEM Analysis. In IIE Annual Conference. Proceedings (pp. 230-235). Institute of Industrial and Systems Engineers (IISE).
- 8. Bidoki, N. H.**, Sukthankar, G., Keathley, H., & Garibay, I. (2019). A Cross-Repository Model for Predicting Popularity in GitHub. arXiv preprint arXiv:1902.05216.
- 9. Gorte, L., Deschamps, F., de Lima, E. P., & Keathley-Herring, H. (2018). Aligning organizational and operations performance: a process-based approach. In IIE Annual Conference. Proceedings (pp. 1055-1060). Institute of Industrial and Systems Engineers (IISE).
- 10. Oladimeji, O.*, Keathley-Herring, H., & Cross, J. (2018). System Dynamics Applications in Performance Measurement Research: Bibliometric Analysis, Proceedings of the 2018 Industrial and Systems Engineering Research Conference, Institute of Industrial Engineers, May 19 May 22, 2018.
- 11. Soares, J.*, Letens, G., Vallet, N., Van Bockhaeven, W., Keathley-Herring, H. and Van Aken, E. (2018). The Defense Performance Measurement Framework: A Strategic-level Case Study, Proceedings of the Performance Measurement Association International Conference, Warshaw, September 2018.
- 12. Soares, J.*, Letens, G., Vallet, N., Van Bockhaeven, W., Keathley-Herring, H. and Van Aken, E. (2018). The Defense Performance Measurement Framework: A Tactical and Operational Case Study, Proceedings of the International Joint Conference, Lisbon, July 2018.
- 13. Letens, G., Soares, J.*, Van Aken, E., Keathley, H., Vallet, N. & Van Bockhaven W. (2017). A Preliminary Generic Strategic Defense Performance Measurement Framework, In: Proceedings of the American Society for Engineering Management (ASEM) 2017 Conference, Huntsville, U.S.A.
- 14. Oladimeji, O.*, Cross, J., and Keathley, H. (2017). Systematic Literature Review of Modeling and Simulation of Organizational Change, International Annual Conference, American Society for Engineering Management, Oct. 2017.
- 15. Gonzalez-Aleu, F. and Keathley, H. (2017) Bibliometric Analysis of Research in Continuous Improvement Projects in Hospitals, Proceedings of the International Conference on Industrial Engineering and Operations Management, Conrad Istanbul Bosphorus (Turkey), April 11-14, 2017.

16. Keathley, H., Bean, A., Chen, T., Vila, K., Ye, K., Gonzalez-Aleu, F. (2016). Bibliometric Analysis of Research Design Characteristics in Engineering Management Research, Proceedings of the 2016 Industrial and Systems Engineering Research Conference, Institute of Industrial Engineers, May 21-24, 2016. (Received 2nd Place in the SEMS Best Student Paper Competition for the Engineering Management Track).

- 17. Keathley, H., Van Aken, E., and Letens, G., (2015). Learning organization characteristics in deployed military units, Proceedings of the 2015 International Annual Conference, American Society for Engineering Management, October 7-10, 2015.
- 18. Keathley, H., Bean, A., Chen, T., Vila, K., Ye, K., and Gonzalez-Aleu, F. (2015). Bibliometric analysis of author collaboration in engineering management research, Proceedings of the 2015 International Annual Conference, American Society for Engineering Management, October 7-10, 2015. (Received 2nd Place in the Merl Baker Best Student Paper Competition).
- 19. Keathley, H., Du, R., and Olliges, K. (2015). Review of performance measurement practices in military and government sectors, Proceedings of the 2015 Industrial and Systems Engineering Research Conference, Institute of Industrial Engineers, May 30 -June 2, 2015.
- 20. Gonzalez-Aleu, F. and Keathley, H. (2015). Design and application of a meta-evaluation framework, Proceedings of the 2015 Industrial and Systems Engineering Research Conference, Institute of Industrial Engineers May 30-June 2, 2015. (Received 2nd Place in the SEMS Best Student Paper Competition for the Engineering Management Track).
- 21. Keathley, H., Van Aken, E.M., and Letens, G. (2014). Performance measurement system implementation: Systematic review of success factors, Proceedings of the 2014 International Annual Conference, American Society for Engineering Management, October 15-18, 2014.
- 22. Keathley, H., Van Aken, E.M., and Letens, G. (2014). Review of factors affecting performance measurement system implementation, Proceedings of the 2014 International Conference on Theory and Practice of Performance Measurement and Management, Performance Measurement Association, June 25-27, 2014.
- 23. Keathley, H., Van Aken, E.M., and Letens, G. (2014). Performance measurement system implementation: Meta-evaluation of literature on success factors, Proceedings of the 2014 Industrial and Systems Engineering Research Conference, IIE, May 31-June 3, 2014.
- 24. Keathley, H. (2013). Quantitative analysis of factors that affect performance measurement system implementation, Proceedings of the 2013 International Annual Conference, American Society for Engineering Management, October 2-5, 2013. (Received first place, Best Student Paper Competition)
- 25. Keathley, H., Gonzalez-Aleu, F., Cardenas Orlandini, P.F., Van Aken, E.M., Deschamps, F., and Rosa Leite, L. (2013). Maturity assessment of performance measurement implementation success factor literature, Proceedings of the 2013 International Annual Conference, American Society for Engineering Management, October 2-5, 2013.

26. Keathley, H. and Van Aken, E.M. (2013). Systematic literature review on the factors that affect performance measurement system implementation, Proceedings of the 2013 Industrial and Systems Engineering Research Conference, IIE, May 18-22, 2013.

27. Keathley, H., Gonzalez-Aleu, F., Cardenas Orlandini, P.F., Van Aken, E.M., Deschamps, F., and Rosa Leite, L. (2013). Proposed maturity assessment framework for a research field, Proceedings of the 2013 Industrial and Systems Engineering Research Conference, IIE, May 18-22, 2013.

Non-Refereed Publications

- 1. Quan 'Chloe' Do, Santiago Gonzalez Aguado, Roger Guerrero, Alexandra Hernandez-Gonzalez, Heather Keathley (2021). Systematic Review of eXperiential Reality Interoperability Literature, Unpublished Technical Report, May 2021.
- 2. Keathley, H., Du, R., Olliges, K., Chen, T., Van Aken, E.M., Letens, G. (2016). Systematic literature review of performance measurement practices in military and government sectors; Results of an undergraduate research project Part 2, Unpublished Technical Report, February 2016.
- 3. Keathley, H., Du, R., Olliges, K., Van Aken, E.M., Letens, G. (2015). Systematic literature review of performance measurement practices in military and government sectors; Results of an undergraduate research project Part 1, Unpublished Technical Report, January 2015.

Presentations

Note: * indicates graduate or undergraduate students under direct supervision

** indicates a graduate or undergraduate students under general advisement

Invited Presentations

 Heather Keathley, (2021), Creating Immersive Performance Environments to Support Real-Time Operations Management, Simulation Interoperability Standards Organization Simulation Innovation Workshop, February 2021.

Presentations at International Conferences

- 1. Harfoush, A.*, Keathley, H., "Using Statistic Tools in Organization Resilience: A Review." Presented at the 2019 American Society for Engineering Management International Annual Conference.
- 2. Keathley, H., "Simulating Organizational Change: A System Dynamics Model to Support Change Success." Presented at the 2019 American Society for Engineering Management International Annual Conference.
- 3. Rawshdeh, M.*, Keathley-Herring, H. (2019) Successful Implementation of Quality Management Systems in Hospitals: Expert Study, Industrial and Systems Engineering Research Conference, Orlando, FL.
- 4. Keathley-Herring, H. (2019) System Dynamics Model to Support Organizational Change, Industrial and Systems Engineering Research Conference, Orlando, FL.
- 5. Keathley-Herring, H. (2019) Defining and Enforcing Reputation on Online Social Networks: Systematic Review, Industrial and Systems Engineering Research Conference, Orlando, FL.

6. Rawshdeh, M.*, Keathley-Herring, H. (2018) Success Factors for Implementing Quality Management Systems in Healthcare Organizations, American Society for Engineering Management International Annual Conference, Coeur d'Alene, ID.

- 7. Baharisaravi, S.*, Keathley-Herring, H. (2018) Developing a Multi-Level Model of Organizational Resilience, American Society for Engineering Management International Annual Conference, Coeur d'Alene, ID.
- 8. Letens, G., Van Aken, E.M., & Keathley-Herring, H., (2018) Successful Implementation of Quality Management Systems in Healthcare: Systematic Review, Industrial and Systems Engineering Research Conference, Orlando, FL.
- 9. Gorte, L., Deschamps, F., & Keathley-Herring, H., (2018) Aligning organizational and operations performance: a process-based approach, Industrial and Systems Engineering Research Conference, Orlando, FL.
- 10. Keathley-Herring, H., (2018), Systematic Review of Modeling Techniques for Organizational Change, Industrial and Systems Engineering Research Conference, Orlando, FL.
- 11. Baharisaravi, S.*, & Keathley-Herring, H., (2018) Systematic Review of Factors that Affect Organizational Resilience, Industrial and Systems Engineering Research Conference, Orlando, FL.
- 12. Rawshdeh, M.* & Keathley-Herring, H., (2018) Successful Implementation of Quality Management Systems in Healthcare: Systematic Review, Industrial and Systems Engineering Research Conference, Orlando, FL.
- 13. Keathley, H., (2018) Supporting Quality Management through Effective Implementation of Performance Measurement Systems, 3rd Central Florida Quality Conference, University of Central Florida American Society for Quality Conference, Orlando, FL.
- 14. Keathley, H., Van Aken, E., & Letens, G., (2017) Quantifying the Effects of Factors that Affect Performance Measurement System Implementation, American Society for Engineering Management International Annual Conference, Huntsville, AL.
- 15. Keathley, H., (2017) Systematic Literature Review of Modeling and Simulation of Organizational Change, American Society for Engineering Management International Annual Conference, Huntsville, AL.
- 16. Keathley, H., Van Aken, E., & Letens, G., (2017) Development of Learning Organization Characteristics in Deployed Military Units, American Society for Engineering Management International Annual Conference, Huntsville, AL.
- 17. Keathley, H., Van Aken, E., & Letens, G., (2017) Leadership Styles in Deployed Military Units, Industrial and Systems Engineering Research Conference, Pittsburgh, PA.
- 18. Keathley, H., Van Aken, E., & Letens, G., (2017) Critical Success Factors for Performance Measurement System Implementation, Industrial and Systems Engineering Research Conference, Pittsburgh, PA.
- 19. Keathley, H. (2016) Factors that Affect the Success of Performance Measurement System Implementation, Industrial and Systems Engineering Research Conference, May 21- 24, 2016.

 Keathley, H., Van Aken, E., Letens, G., (2016) Factors that Affect the Success of Performance Measurement System Implementation, Industrial and Systems Engineering Research Conference, May 21-24, 2016.

- 21. Keathley, H., Du, R., & Olliges, K., (2015). Learning Organization Characteristics in Deployed Units, *International Annual Conference*, American Society for Engineering Management, October 7-10, 2015.
- 22. Keathley, H., Gonzalez-Aleu, F., Cardenas-Orlandini, P., Deschamps, F., Van Aken, E., and Letens, G., (2014). Performance measurement research: Lessons learned from Systematic Literature Review, *International Annual Conference*, American Society for Engineering Management, October 15-18, 2014.
- 23. Keathley, H., Gonzalez-Aleu, F., Cardenas-Orlandini, P., Deschamps, F., and Van Aken, E., (2014). Framework for assessing the maturity of a research field, Industrial and Systems Engineering Research Conference, May 31-June 3, 2014.

Grants & Contracts

Awarded

1. Change management in Public Sector Organizations

Position: Principal Investigator

Collaborators: Dr. Geert Letens; Royal Military Academy, Belgium

Funding Source: Belgian Armed Forces (BAF)

Funding Amount: \$48,000.00

Period of Support: November 2021 – November 2025

2. Supervise It! Optimizing Intelligent Robot-Human Partnerships Through Feedback and Control: A Study on Supervised Work Cells

Position: Principal Investigator

Collaborators: Dr. Adan Vela, Dr. Waldemar Karwowski, Dr. Patricio Vela (Georgia Tech)

Funding Source: National Science Foundation (NSF)

Funding Amount: \$ 469,207.00 (Total award amount: \$ 1,042,683.00)

Period of Support: October 2020 – September 2023

3. I-Corps: Leveraging Emerging Technologies to Create Immersive Performance Environments

Position: Principal Investigator

Collaborators: Joshua Nelson, Colin Jackson

Funding Source: National Science Foundation (NSF)

Funding Amount: \$ 2,548.00

Period of Support: May 2020 – November 2020

4. Design of Effective Performance Measurement Systems for Defense and Security Organizations

Position: Principal Investigator

Collaborators: Dr. Geert Letens; Royal Military Academy, Belgium

Funding Source: Belgian Armed Forces (BAF)

Funding Amount: \$ 90,956.00

Period of Support: December 2018 – December 2021

5. Deep Agent: A Framework for Information Spread and Evolution in Social Networks

Position: Co-Principal Investigator

Collaborators: Ivan Garibay, Gita Sukthankar, Alexander Mantzaris, Stephen Fiore

Funding Source: Defense Advanced Research Projects Agency (DARPA)

Funding Amount: \$ 188,638.00

Period of Support: May 2018 – December 2021

6. RF: ell2 Community of Practice 2019: Coming Together to Share and Develop Innovation Best

Practices

Position: Principal Investigator

Collaborators: Dr. Geert Letens; Royal Military Academy, Belgium

Funding Source: Central Florida Companies (TBD)

Funding Amount: \$ 1.00

Period of Support: December 2018 – December 2021

Awards

1. Preeminent Postdoctoral Program, Awarded \$50,000.00 in matching funds to support a postdoctoral scholar over two years, College of Graduate Studies, UCF, (2020- 2022).

PROFESSIONAL SERVICE

College/University Service

CECS Awards Committee, 2016 – Present

College of Engineering and Computer Science, University of Central Florida

IEMS Representative – Evaluate candidates and provide recommendations for scholarships offered within CECS as well as college-level awards for students, faculty, and staff.

Department Service

IEMS ABET Committee, 2021 – Present

Dept. of Industrial Engineering and Management Systems, University of Central Florida

Member - Support departmental activities focused on compliance with ABET best practices.

B.S. Industrial Engineering Program Assessment Coordinator, 2018 – Present

Dept. of Industrial Engineering and Management Systems, University of Central Florida

Manage the BSIE program assessment process including collection and analysis of data, working with course owners to ensure accurate and reliable data, disseminating results to IEMS faculty and staff as well as the IEMS Industrial Advisory Board and relevant CECS groups, and supporting the continuous improvement of the program including the transition to the new ABET 1-7 student outcomes.

Undergraduate Curriculum Committee, 2018 – Present

Dept. of Industrial Engineering and Management Systems, University of Central Florida

Member - Support the continuous improvement of IEMS undergraduate course curriculum.

Alpha Pi Mu Faculty Advisor, 2016 - Present

Dept. of Industrial Engineering and Management Systems, University of Central Florida

Advise and mentor the APM officers and active members including supporting induction of new members and execution of service-based pledge projects as well as coordination of new and ongoing chapter activities.

Graduate Admissions Committee, 2018 - 2020

Dept. of Industrial Engineering and Management Systems, University of Central Florida

CECS Instructor/ Lecturer Promotion Committee Member, 2018-2019

Dept. of Industrial Engineering and Management Systems, University of Central Florida

Professional Service

NSF Panelist, 2021, 2022

Future of Work at the Human-Technology Frontier, National Science Foundation.

Invited by NSF to participate as a panelist for the FWHTF program. Reviewed proposals and participated in the discussions to make funding recommendations.

International Conference Technical Committee, 2017-2020

American Society for Engineering Management International Annual Conference

Member - Develop and maintain the electronic submission management system, manage automated attendee and reviewer communications, manage the abstract and review process, and support other committee activities.

International Conference Track Chair, 2017-Present

American Society for Engineering Management International Annual Conference

Tracks: Legal issues in Engineering Management, Professional Codes of Conduct and Ethics

Publication Reviewer, 2016- Present

<u>Peer-Reviewed Academic Journals:</u> Int. Journal of Management Reviews (IF 13.42), Engineering Management Journal (IF 1.67), Journal of Engineering and Technology Management (IF 3.85), Operations Management Research (IF 2.706)

<u>Peer-Reviewed Academic Conferences:</u> Institute for Industrial & Systems Engineering, American Society for Engineering Management

International Conference Session Chair, 2016- Present

American Society for Engineering Management (ASEM) International Annual Conference (IAC); (2017, 2018, 2019, 2020, 2021)

Institute of Industrial & Systems Engineering (IISE) Industrial & Systems Engineering Research Conference (ISERC); (2016, 2017, 2018, 2020)

Community Service & Outreach

UCF STEM Day, University of Central Florida, 2016- Present

Mentor undergraduate volunteers (Alpha Pi Mu/BSIE students) in developing and hosting an interactive demonstration of how Industrial Engineers contribute to production and supply chains (LEGO Assembly Line Activity). The demonstration is conducted during UCF STEM Day, which occurs once per semester and focuses on exposing local secondary school students to STEM fields.

Curriculum Vitae Heather Keathley

UCF Camp Connect, University of Central Florida, 2016- Present

Mentor undergraduate volunteers (Alpha Pi Mu/BSIE students) in developing and hosting a series of five interactive demonstrations of core Industrial Engineering sub-disciplines and host a one-hour seminar to introduce Industrial Engineering. The demonstrations are conducted during UCF Camp Connect, which occurs during the summer semester and focuses on exposing local secondary school students to STEM fields.