

RESUME – Jamiahus Walton

PERSONAL DATA

Assistant Professor
Department of Industrial Engineering
Clemson University
Clemson, SC 29634
864.656.3114
jamiahw@g.clemson.edu

EDUCATION

Ph.D., Iowa State University, 2019, Human-Computer Interaction
M.S., Iowa State University, 2015, Industrial Engineering
B.S., Millikin University, 2013, Physics

PROFESSIONAL EXPERIENCE

Clemson University, 2019, Assistant Professor, Industrial Engineering
Iowa State University, 2016 – 2019, Research Assistantship
2014, 2017, 2018, Graduate Mentor
2018 (summer), Research Assistantship
2013 – 2015, Research Assistantship
2018 (Spring and Fall), Teaching Assistant
Millikin University, 2012 – 2013, Tutor for Mathematics Department
Tunghai University, 2012, Summer Research Intern
Southern Illinois University Carbondale, 2012, Summer Research Intern
Bradley University, 2009, Summer Research Intern
2007, Summer Research Intern
2005 – 07 (summer) S.T.E.P Group Leader
Caterpillar, Inc., 2008 (summer), Intern in Industry

MEMBERSHIPS

Member, Institute of Industrial and Systems Engineers (2020-)
Member, Human Factors and Ergonomics Society (2019-)
Member, Association for Computing Machinery, (2016 –)

PROFESSIONAL ACTIVITIES

Human Factors and Ergonomics Society Annual Conference, Program
Chair Assistant, Cognitive Engineering and Decision Making
Technical Group (2017 – 2018)

PUBLICATIONS

Refereed Journal Publications

Ouverson, K., Ostrander, A., **Walton, J.**, Kohl, A., Gilbert, S., Dorneich, M., Winer, E., Sinatra, A., (*Accepted*, January 2021 2020). Analysis of Communication, Team Situational Awareness, and Feedback in a Three-Person Intelligent Team Tutoring System. *Frontiers in Psychology*.

Ostrander, A., Bonner, D., **Walton, J.**, Slavina, A., Ouverson, K., Kohl, A., Gilbert, S. B., Dorneich, M. C., Sinatra, A., & Winer, E. (2020). Evaluation of an intelligent team tutoring system for a collaborative two-person problem: Surveillance. *Computers in Human Behavior*, 104, 105873. <https://doi.org/10.1016/j.chb.2019.01.006>

Conference Proceedings (Reviewed)

Walton, J., Gilbert, S. (*Accepted*, June 24, 2020). The Effect of Feedback Type on Perception of Performance. In *Proceedings of Human Factors and Ergonomics Society Annual Meeting*.

Musick, G., Maloney, D., Flathmann, C., McNeese, N., **Walton, J.** (*Accepted*, May 21, 2020). Differentiated Instruction further Realized through Teacher-Agent Teaming. In *Proceedings of Human Factors and Ergonomics Society Annual Meeting*.

Gilbert, S., Dorneich, M., **Walton, J.**, & Winer, E. (2018). Five Lenses on Team Tutor Challenges: A Multidisciplinary Approach. In J. Johnston, R. Sottolare, A. M. Sinatra, & C. S. Burke (Eds.), *Building Intelligent Tutoring Systems for Teams: What Matters*. UK: Emerald Publishing.

Ouverson, K., Ostrander, A., MacAllister, A., Kohl, A., **Walton, J.**, Gilbert, S., ... Sinatra, A. M. (2018). Team Training for Enemy Identification Using an Intelligent Tutoring System. In *Proceedings of Interservice/Industry Training, Simulation, and Education Conference (IITSEC)*. Orlando, FL.

Ouverson, K., Pena, M. I., **Walton, J.**, Gilbert, S., & Dorneich, M. (2018). Applying Human-Agent Team Concepts to the Design of Intelligent Team Tutoring Systems. In R. Nkambou, R. Azevedo, & J. Vassileva (Eds.), *Intelligent Tutoring Systems* (pp. 457–459). Cham: Springer International Publishing.

Walton, J., Ostrander, A., Ouverson, K., Gilbert, S., Dorneich, M., Winer, E., & Sinatra, A. (2018). Feedback Design Considerations for Intelligent Team Tutoring Systems. In *Proceedings of Human Factors and Ergonomics Society Annual Meeting*. Philadelphia, PA.

- Ouerson, K., Iglesias-Pena, M., **Walton, J.**, Gilbert, S., & Dorneich, M. (2018). Applying Human-Agent Team Concepts to the Design of Intelligent Team Tutoring Systems. In R. Nkambou, R. Azevedo, & J. Vassileva (Eds.), *Intelligent Tutoring Systems: 14th International Conference*.
- Helgerson, A., **Walton, J.**, Loya, C., Kawell, C., Atwell, K., Monaghan, Q., ... Sharma, A. (2018). Developing an Optimized UI for Traffic Incident Managers. In *Proceedings of Human Factors and Ergonomics Society Annual Meeting*. Philadelphia, PA.
- Ouerson, K., Iglesias Pena, M., **Walton, J.**, Gilbert, S., & Dorneich, M. (2018). What Intelligent Team Tutoring Systems Can Learn from Human-Agent Teams. In *Proceedings of Technology, Mind and Society*. Washington, DC.
- Monaghan, Q., **Walton, J.**, Gilbert, S., & Sharma, A. (2018). The Software-Based Challenges Faced by Traffic Incident Managers. In *Proceedings of Transportation Research Board 97th Annual Meeting*. Washington, D.C.
- Walton, J.**, Gilbert, S., Winer, E., Dorneich, M., & Bonner, D. (2015). Evaluating Distributed Teams with the Team Multiple Errands Test. In *Proceedings of Interservice/Industry Training, Simulation, and Education Conference (IITSEC)*.
- Walton, J.**, Bonner, D., Walker, K., Mater, S., Dorneich, M., Gilbert, S., & West, R. (2015). The Team Multiple Errands Test: A Platform to Evaluate Distributed Teams. In *Proceedings of the 18th ACM Conference Companion on Computer Supported Cooperative Work & Social Computing* (pp. 247–250).
- Bonner, D., **Walton, J.**, Dorneich, M. C., Gilbert, S. B., & Robert A. Sottolare. (2015). The Development of a Testbed to Assess an Intelligent Tutoring System for Teams. In *Proceedings of the Workshops at the 17th International Conference on Artificial Intelligence in Education (AIED)* (pp. 31–37).
- Walton, J.**, Dorneich, M. C., Gilbert, S., Bonner, D., Winer, E., & Ray, C. (2014). Modality and Timing of Team Feedback: Implications for GIFT. In *Proceedings of the 2nd Annual Generalized Intelligent Framework for Tutoring (GIFT) Users Symposium*. Army Research Laboratory.
- Bonner, D., Gilbert, S., Dorneich, M., Burke, S., **Walton, J.**, Ray, C., & Winer, E. (2014). Taxonomy of Teams, Team Tasks, and Tutors. In *Proceedings of the 2nd Annual Generalized Intelligent Framework for Tutoring (GIFT) Users Symposium*. Army Research Laboratory.

PRESENTATIONS

Lecture Presentations

Walton, J., “Developing an Optimized UI for Traffic Incident Managers,” Philadelphia, PA (October 2018)

Poster Presentations

- Walton, J., “The Effect of Feedback Type on Perception of Performance”, Virtual Conference (October 2020), *Human Factors and Ergonomics Society*
- Walton, J., “What Intelligent Team Tutoring Systems Can Learn from Human-Agent Teams”, Washington, DC (April 2018), *Technology, Mind, and Society*
- Walton, J., “The Team Multiple Errands Test: A Platform to Evaluate Distributed Teams,” Vancouver, Canada (March 2015), *Computer Supported Cooperative Work & Social Computing*

HONORS AND AWARDS

- Research Symposium Award for Outstanding Oral Presentation, Graduate Minority Assistantship Program (2017)
- Presidential Scholarship, Iowa State University (2017)
- Governor’s Volunteer Award, Iowa (2016)
- College of Engineering Graduate Fellowship Award, Iowa State University (2014)
- Student Laureate Award, The Lincoln Academy of Illinois (2013)
- Honored for Scholarship, Pi Mu Epsilon National Honor Society (2013)
- Honored for Scholarship, Phi Kappa Phi (2013)
- Honored for Scholarship, Sigma Pi Sigma (2013)
- Long-Vanderburg Caterpillar Scholar, Millikin University (2009-2013)
- Celebration of Scholars 2nd Place Award, Millikin University (2013)
- Parent and Family Association Award, Millikin University (2013)
- Scovill Award, Millikin (2012)
- Outstanding Physics Major Award, Millikin University (2012)
- C.W. Barnes Memorial Award, Millikin University (2011)

TEACHING

Courses Taught

IE 4880, Human Factors Engineering, Fall: 2019 – 2020

Course Revised

IE 8930, Research Methods in Collaboration, Spring: 2020

Honors Contract Advisees

- Jacob Vander Leest, IE 4880, Fall 2020
- Rachel Green, IE 4880, Fall 2020
- Rebecca West, IE 4880, Fall 2020

UNIVERSITY AND PUBLIC SERVICE

Committees

Department: Undergraduate Committee Member (2020-)

Graduate Committee Member (2019 - 20)
Search Committee Member (2019-20)

GRADUATE STUDENTS

Current Graduate Advising

- William Walters, PhD, IE, “Investigating the Impact of User Presence on Performance within a Virtual Reality Collaborative Search Task,” (Expected May 2023)
- Maya Rucks, PhD, IE, “Investigating the Characteristics of Human Tutors Who Effectively Instruct a Group,” (Expected July 2023)

Membership on PhD degree committees

- Katherina Jurewicz, PhD, IE, “Using a Bayesian Framework to Develop 3D Gestural Input Systems Based on Expertise and Exposure in Anesthesia,” 2020

Membership on MS degree committees

- Courtney K. Linder, MS, IE, “The Effects of A Healthcare Chatbots' Language and Persona on User Trust, Satisfaction, and Chatbot Effectiveness,” 2020

Updated 2021-01-13