**Nathan J. McNeese, PhD**

McQueen Quattlebaum Endowed Associate Professor of Human-Centered Computing
Director, Team Research Analytics in Computational Environments (TRACE) Research Group

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# Short Biography

Dr. Nathan J. McNeese is the McQueen Quattlebaum Endowed Associate Professor of Human-Centered Computing and the Founding Director of the Team Research Analytics in Computational Environments (TRACE) Research Group in the School of Computing at Clemson University. Dr. McNeese held the College of Engineering, Computing and Applied Sciences Dean's Professorship prior to his current endowed appointment. He received a PhD in Information Sciences & Technology from The Pennsylvania State University in 2014. His area of expertise is in human-autonomy/AI teaming and human-centered AI. Throughout his research, he draws on quantitative, qualitative, and computational methods including controlled experiments, contextual inquiry, participatory design, ethnography, and human-centered algorithmic methodologies to better develop and utilize AI in a way that improves human lives and contributes positively to society. His work in human-autonomy/AI teaming has brought forth many landmark contributions that have helped to provide the foundation for the concept and build a larger community interested in the area. He has been a principal investigator or co-principal investigator for more than 30 research grants and awards, generating more than $38 million in funding. In 2023, he received the prestigious NSF CAREER Award. His research work is funded by the U.S. National Science Foundation, Air Force Office of Scientific Research, Office of Naval Research, Army Research Office, Agency for Healthcare Research and Quality, Department of Education, and several other industry and state agencies. He teaches undergraduate and graduate courses on human-computer interaction, human-AI interaction paradigms, teamwork and technology, and human factors. He currently serves on multiple international/societal programs and technical committees, in addition to multiple editorial boards including Human Factors. He is a previous member of multiple National Academy of Sciences initiatives and a previous member of the Army Research Lab HRED Technical Advisory Board. He is the recipient of the 2022 Clemson University Researcher of the Year, the HFES William C. Howell Young Investigator Award, and The Pennsylvania State University College of Information Sciences & Technology Overall Outstanding Alumni Award among additional significant honors. His research has received multiple best paper awards/nominations and has been published in top peer-reviewed HCI and HF venues over 150 times.

# CURRICULUM VITAE

## Nathan J. McNeese

McQueen Quattlebaum Endowed Associate Professor
Human-Centered Computing
School of Computing, Clemson University
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Email: mcneese@clemson.edu

**Education**

Ph.D.      Information Sciences and Technology, The Pennsylvania State University, 2014 (Advisor: Madhu Reddy)

B.S.       Psychology, The Pennsylvania State University, 2009

**Appointments**

*Primary*

2023-      **McQueen Quattlebaum Endowed Associate Professor of Human-Centered Computing (Tenured)**

2023       **McQueen Quattlebaum Endowed Assistant Professor of Human-Centered Computing**

2021-2023  **College of Engineering, Computing and Applied Sciences Dean's Professor**

2017-2023  **Assistant Professor** (tenure track), Human-Centered Computing, School of Computing, College of Engineering, Computing and Applied Sciences, Clemson University

*Secondary*

2017-      **Founding Director**, Team Research Analytics in Computational Environments (TRACE) Research Group, Clemson University; computing.clemson.edu/trace/

2017-      **Founding Director**, TRACE Camp: A Programming Bootcamp

2017-      **Faculty Scholar**, Clemson University's School of Health Research

2017-      **Faculty Associate**, Clemson University's Human Factors Institute

2018-2020    **Watt Faculty Fellow**, Clemson University

2020-2023    **Founding Director**, The Clemson University Data Lab (Administrative position; University-wide initiative)

**Achievement Highlights**

- Received the **NSF CAREER Award** (2023).

- Named the **McQueen Quattlebaum Endowed Professorship of Human-Centered Computing**. This is an endowed professorship based on accomplishments.

- Awarded the **2022 Clemson University Junior Faculty Researcher of the Year**. This is a university level award presented to the top faculty researcher across all colleges and departments at Clemson who received their terminal degree within the past 10 years.

- Named to the **Clemson University President's Leadership Institute** (2023).

- Named as the **College of Engineering, Computing and Applied Sciences Dean's Professor**. This is a named professorship based on accomplishments.

- Awarded the **2022 College of Engineering, Computing and Applied Sciences Junior Faculty Researcher of the Year** and CECAS Nominee for Clemson University Junior Faculty Researcher of the Year.

- Awarded **The Pennsylvania State University College of Information Sciences and Technology Overall Outstanding Alumni Award** (2023).

- Awarded the **HFES William C. Howell Young Investigator Award** (2023).

- Recognized as **Clemson University Professor of the Game** (October 1, 2022) and **Clemson Board of Trustees "Focus on Faculty" recognition**.

- Received **30 grants and/or gifts** from funding organizations such as NSF, AFOSR, ONR, ARO, US Department of Education, AHRQ, and Clemson University in past 5 years.

- Grants secured total over **$38 Million and McNeese allocation totals over $6 Million**.

- Over **150 publications** in top HCI and Human Factors conferences, journals, and other venues.

- **Eight best papers** received or nominated for Best Paper Award in ACM CSCW,

ACM GROUP, iConference, ACM HAI, HICSS, JCEDM, and IEEE Cogsima.

- Advising **10 current PhD students** (all graduate research assistants). Supporting 15 graduate research assistantships across Clemson University.

- **Graduated 4 PhD** students.

- Over **50 presentations given** at top academic conferences, US government agencies, the United Nations, NATO, etc.

- Previous Member of **National Academy of Science, Engineering, & Medicine Committee on Human-Systems Integration Research- focus Human-AI Teaming**.

- Previous Member of **National Academy of Science, Engineering, & Medicine Panel on Human Factors Science**.

- Previous Member of **Army Research Lab Human Research & Engineering Technical Advisory Board**.

- Invited twice as **Chair of NASA Review Panels**.

- **Reviewer of over 40 journals, conferences, and funding agencies**. Multiple time National Science Foundation and The Royal Society panelist/reviewer. Member of multiple editorial boards (including Human Factors) and program committees.

- Leading faculty **research collaboration with North Atlantic Treaty Organization (NATO).**

- Clemson School of Computing **Search Committee Chair** for Provost's initiative on artificial intelligence faculty search. **Successfully hired 3 tenure track faculty members**.

- **Led effort to stand up the Clemson University Data (Science) Laboratory**, which serves as an interdisciplinary hub to provide data science knowledge and resources to faculty, staff, and students. Current Director of the Clemson University Data (Science) Laboratory.

- **Taught 6 different courses at Clemson**, including the development of 3 new courses. Received exemplar teaching evaluations for each course.

- **Founding Director of TRACE Camp**, a web development programming bootcamp aimed at providing educational accessibility to diverse populations at the undergraduate level. Over 100 students have participated in multiple camps.

**Sponsored Research Grants and Gifts**

Funding Summary
Awarded (total across all grants/gifts): $38,630,202
McNeese PI projects: $4,392,595
McNeese Allocation at Clemson: $6,370,174

External (Active):

2023        **PI, AFOSR subcontract through Mile 2**, JADE-C2: Joint Activity Design
            Evaluation for Command and Control. $45,000. McNeese funding based on
            percentage credit (100%): $45,000.

2023        **PI, Prolific**, Modeling Conversational Differences Between Interactions with
            AI Tools and AI Teammates Powered by Large Language Models. $10,000
            (Gift). McNeese funding based on percentage credit (100%): $10,000.

2023-2028   **Sole PI, NSF**, CAREER: Prioritizing the Development of Team Cognition in
            Human-AI Teams to Engender the Advancement and Acceptance of AI
            Teammates. $580,227. McNeese funding based on percentage credit (100%):
            $580,227.

2023        **Sole PI, AFOSR**, Synchronizing Collaborations for Human-Autonomy
            Teaming and Ethical Autonomy Use. $612,389.00. McNeese funding based
            on percentage credit (100%): 651,389.00.

2023-2027   **Co-PI, NSF**, FW-HTF-RL/Collaborative Research: The Future of Aviation
            Inspection: Artificial Intelligence and Mixed Reality as Agents of
            Transformation. $1,631,963. McNeese funding based on percentage credit
            (20%): $326,392.60

2023        **Sole PI, ONR subcontract through ARA**, Human-Centered Dashboard
            Design and Development for Decision Aid Models. $196,338. McNeese
            funding based on percentage credit (100%): $196,338.

2022-2024   **Sole PI, AFOSR**, The Pursuit of Exemplar Ethical Behavior in
            Human-Autonomy Teaming. $283,719. McNeese funding based on
            percentage credit (100%): $283,719.

2022-2025   **Co-PI, South Carolina Commission on Higher Education**, Providing
            Academic and Social-Emotional Supports: Students, Teachers, and Leaders
            Program (PASS-STLP). PI: Luke Rapa. $958,829. McNeese funding based on
            percentage credit (20%): $191,766.

2021        **Sole PI, ONR**, Connecting and Leveraging Physical and Digital Dimensions
            to Advance Human-Autonomy Teaming. $295,792. McNeese funding based
            on percentage credit (100%): $295,792.

2021-2024    **PI, AFOSR**, The Spread of Trust and Distrust in Distributed Human-Autonomy Teaming Constellations. $1,302,657. McNeese funding based on percentage credit (80%): $1,042,125.60.

2021-2024    **Sole PI, ONR**, Promoting Human Interpretation and Interaction to Mitigate Bias in Artificial Intelligence Assisted Decision Aids. $444,368. McNeese funding based on percentage credit (100%): $444,368.

2020-2023    **PI, AFOSR**, Considerations of Ethical and Unethical Behavior on Trust in Human-Autonomy Teaming. $586,538. McNeese funding based on percentage credit (70%): $410,576.60.

2020-2023    **Co-PI, U.S. Department of Education**, Clemson University's STEM Teacher Learning Progression (CU-TLP). PI: Jeff Marshall. $3,068,160 Total project (including match): $4,102,103. McNeese funding based on percentage credit (12%): $492,252.36.

2018-2023    **Co-PI, NSF**, NRT-HDR: Technology-Human Integrated Knowledge Education and Research (THINKER). PI: Laine Mears. $2,993,421. McNeese funding based on percentage credit (10%): $299,342.10.

2021-2026    **Co-PI, US Army**, The Virtual Prototyping of Ground Systems: Computational Representation and Analysis of Mission and System Requirements- SimBrs. PI: Zoran Filipi. $18,450,281. McNeese funding based on percentage credit (4.6%): $851,244.

External (Complete):

2019-2021    **Co-PI, NSF**, FW-HTF-P: Wearable Adaptive Cognitive Assistance to Auditory Situational Awareness for Workers Exposed to Complex and Dynamic Noises. PI: Tuyen Le. $146,198. McNeese funding based on percentage credit (10%): $14,619.80.

2019-2021    **Co-PI, AHRQ**, Human Factors Considerations in the Design and Implementation of Telemedicine-Integrated Ambulance-based Environments for Stroke Care. PI: Kapil Madathil. $100,000. McNeese funding based on percentage credit (20%): $20,000.

2018    **Co-PI, Prisma Health**, Collaborative Approaches to Improving Health-related Quality of Life, Fatigue, and Coping Skills of Adolescent and Young Adult Cancer Patients. PI: Hyewon Shin. $18,383. McNeese funding based on percentage credit (50%): $9,191.50.

2016    **Co-PI, ONR**, A Biometric Measurement Suite to Understand the Processes Behind Human Learning and Performance in Complex Settings. PI: Nancy Cooke. $286,155. McNeese funding based on percentage credit: $286,155- equipment grant.

2015-2018    **Co-PI, ONR**, Human-Autonomy Teaming in Remotely Piloted Aircraft Systems Operations Under Degraded Conditions. PI: Nancy Cooke. $920,652. Awarded to Cognitive Engineering Research Institute (CERI). McNeese funding based on percentage credit: N/A- paid as contractor on project due to being postdoc.

2017-2021    **Co-PI, AFOSR**, Improving Situation Awareness in Distributed Human-Robot Teams. Air Force Office of Scientific Research. $2,014,294. PI: Nancy Cooke & Subbarao Kambhampati. McNeese funding based on percentage credit: N/A- paid as contractor on project due to being postdoc.

2016-2019    **Senior Personnel, ONR**, Planning Challenges in Human Robot Teaming: An Integrated Exploration of Representations, Algorithms and Human Factors. PI: Subbarao Kambhampati. $774,376. McNeese funding based on percentage credit: N/A- paid as contractor on project due to being postdoc.

2018-2021    **Senior Personnel, NSF**, MRI: Development of Enodia: A highly reconfigurable, HPC-backed instrument enabling multifaceted interactive visualization. PI: Brygg Ullmer. $693,000. McNeese funding based on percentage credit (2%): $13,860.

*Internal:*

2020-2021    **CO-PI, Clemson University Tiger Grant**, Training to Support the Human Elements of Inclusive Teamwork Across Collaborative Spaces: Human-to-human and Virtual. PI: Jennifer Ogle.

2020    **PI, University Professional Internship/Co-op Program (UPIC)**, mentor undergraduate interns for Clemson Data Lab. $10,000. McNeese funding based on percentage credit (100%): $10,000.

2020    **PI, Clemson Creative Inquiry**, $2,000. McNeese funding based on percentage credit (100%): $2,000.

2018    **PI, Clemson Information Technology Student Advisory Board**, TRACECamp: A Web Development Programming Bootcamp. $26,040. McNeese funding based on percentage credit (100%): $26,040.

2019    **PI, Clemson Information Technology Student Advisory Board**, TRACECamp: A Web Development Programming Bootcamp Round 2. $14,000. McNeese funding based on percentage credit (100%): $14,000.

2020    **PI, Clemson Information Technology Student Advisory Board**, Clemson Data Lab Equipment. $33,500. McNeese funding based on percentage credit (100%): $33,500.

2019-2021    **Co-PI, Clemson University Impact Grant**, Using predictive agent based

simulation to improve ICU metrics related to interactions between teams, technology, and the health care built environment space. PI: Susan O'Hara $41,400. McNeese funding based on percentage credit (50%): $20,700.

2018-2019 **PI, Watt Family Faculty Fellow**, Clemson University. $5,000. McNeese funding based on percentage credit (100%): $5,000.

2019-2020 **PI, Watt Family Faculty Fellow**, Clemson University. $5,000. McNeese funding based on percentage credit (100%): $5,000.

2018 **PI, Clemson Human Factors Institute Director's Award**, $1,000. McNeese funding based on percentage credit (100%): $1,000.

## Publications

**\* Denotes a student advisee**

### Dissertation (Approved by Committee)

D.1 **McNeese, N.** (2014). The Role of Team Cognition in Collaborative Information Seeking During Team Decision-Making. The Pennsylvania State University. Doctoral Dissertation.

### Journal Articles

JA.55 \*Lancaster, C., \*Schulenberg, K., Flathmann, C., **McNeese, N.**, & Freeman, G. (2023). "It's Everybody's Role to Speak Up... But Not Everyone Will": Understanding AI Professionals' Perceptions of Accountability for AI Bias Mitigation. *ACM Responsible Computing*.

JA.54 \*Zhang, R., Flathmann, C., \*Musick. G., \*Schelble, B., **McNeese, N.**, & Knijnenberg, B. (2023). I Know This Looks Bad, But I Can Explain: Understanding When AI Should Explain Actions In Human-AI Teams. *ACM Transactions on Interactive Intelligent Systems*.

JA.53 Flathmann, C., \*Duan, W., **McNeese, N.**, \*Hauptman, A., & \*Zhang, R. (2023). Empirically Understanding the Potential Impacts and Process of Social Influence in Human-AI Teams. *Proceedings of the ACM on Human-Computer Interaction, CSCW*.

JA.52 Flathmann, C., \*Schelble, B., **McNeese, N.**, Knijnenberg, B., Gramopadhye, A., & Madathil K. (2023). The Purposeful Presentation of AI Teammates: Impacts on Human Acceptance and Perception. *International Journal of Human-Computer Interaction*.

JA.51 Grimm, D., Gorman, J., Demir, M., Cooke, N., & **McNeese, N.** (2023). Dynamical Measurement of Team Resilience. *Journal of Cognitive Engineering & Decision Making*.

JA.50    **McNeese, N.**, Flathmann, C., O'Neill, T., & Salas, E. (2023). Stepping Out of the Shadow of Human-human Teaming: Crafting a Unique Identity for Human-autonomy Teams. *Computers in Human Behavior*.

JA.49    O'Neill, T., Flathmann, C., **McNeese, N.**, & Salas, E., (2023). 21st Century Teaming and Beyond: Advances in Human-autonomy Teamwork *Computers in Human Behavior*.

JA.48    *Lopez, J., *Textor, C., *Lancaster, C., *Schelble, B., Freeman, G., *Zhang, R., **McNeese, N.**, & Pak, R. (2023). The Complex Relationship of AI Ethics and Trust in Human-AI Teaming: Insights from Advanced Real-World Subject Matter Experts. *AI and Ethics.*

JA.47    *Flathmann, C., Schelble B., Rosopa, P., **McNeese, N.**, Mallick, R., & Madathil, K. (2023). Examining the Impact of Varying Levels of AI Teammate Influence on Human-AI Teams. *International Journal of Human-Computer Studies*.

JA.46    *Zhang, R., *Duan, W., Flathmann, C., **McNeese, N.**, Freeman, G., & *Williams, A. (2023). Investigating AI Teammate Communication Strategies and Their Impact in Human-AI Teams For Effective Teamwork. *Proceedings of the ACM on Human-Computer Interaction, CSCW.*

JA.45    *Musick, G., *Gilman, E., *Duan, W., **McNeese, N.**, Knijnenburg, B., O'Neill, T. (2023). Knowing Unknown Teammates: Exploring Anonymity and Explanations in a Teammate Information-Sharing Recommender System. *Proceedings of the ACM on Human-Computer Interaction, CSCW.*

JA.44    O'Neill, T., *Flathmann, C., **McNeese, N.**, & Salas, E., (2023). Human-Autonomy Teaming: Need for a Guiding Team-Based Framework? *Computers in Human Behavior*.

JA.43    *Flathmann, C., **McNeese, N.**, *Schelble, B., Knijnenburg, B., & Freeman, G. (2023). Understanding the Impact and Design of AI Teammate Etiquette. *Human Computer Interaction*.

JA.42    *Moster, M., *Kokinda, E., Rodeghero, P., & **McNeese, N.** (2023). Both Sides of the Story: Changing the "pre-existing culture of dread" surrounding student teamwork in breakout rooms. *Proceedings of the ACM on Human-Computer Interaction. (CSCW).*

JA.41    *Hauptman, A.I., *Schelble, B., **McNeese, N.**, & Madathil, K. (2022). Adapt and Overcome: Perceptions of Adaptive Autonomous Agents for Human-AI Teaming. *Computers in Human Behavior*.

JA.40    Endsley, M., Cooke, N., **McNeese, N.**, Bisantz, A., Militello, L., & Roth, E.

(2022). Special Issue on Human-AI Teaming and Special Issue on AI in Healthcare. *Journal of Cognitive Engineering and Decision Making*.

JA.39    *Textor, C., *Zhang, R., *Lopez, J., *Schelble, B. G., **McNeese, N.**, Freeman, G., Pak, R., Tossell, C., & de Visser, E. (2022). Exploring the Relationship Between Ethics and Trust in Human-AI Teaming: A Mixed Methods Approach. *Journal of Cognitive Engineering and Decision Making*. **\*Best Paper Award\***

JA.38    *Schelble, B., *Lopez, J., *Textor, C., *Zhang, R., **McNeese, N.**, Pak, R., & Freeman, G. (2022). Towards Ethical AI: Empirically Investigating Dimensions of AI Ethics, Trust, and Performance in Human-AI Teaming. *Human Factors.*

JA.37    *Schelble, B., *Flathmann, C., **McNeese, N.**, O'Neill, T., Pak, R., & Namara, M. (2022). Investigating the Effects of Perceived Teammate Artificiality on Human Performance and Cognition. *International Journal of Human-Computer Interaction.*

JA.36    *Schelble, B., *Flathmann, C., *Musick, G., **McNeese, N.**, & Freeman, G. (2022). I See You: Examining the Role of Spatial Information in Human-Agent Teams. *Proceedings of the ACM on Human-Computer Interaction.(CSCW), 1-27.*

JA.35    *Li, L., Freeman, G., & **McNeese, N.** (2022) Channeling End-User Creativity for Distributed Collaboration in Indie Game Development. *Proceedings of the ACM on Human-Computer Interaction. (CSCW).*

JA.34    *Schelble, B., *Flathmann, C., **McNeese, N.**, Freeman, G., & *Mallick, R. (2021). Let's Think Together! Assessing Shared Mental Models, Performance, and Trust in Human-Agent Teams. *Proceedings of the ACM on Human-Computer Interaction.* 6 (GROUP), 1-29. DOI: 10.1145/3492832 **\*Best Paper Nomination\***

JA.33    Freeman, G., *Acena, D., **McNeese, N.**, & *Schulenberg, K. (2021). Working Together Apart through Embodiment: Engaging in Everyday Collaborative Activities in Social Virtual Reality. *Proceedings of the ACM on Human-Computer Interaction.* 6 (GROUP), 1-25. DOI: 10.1145/3492836 **\*Best Paper Nomination\***

JA.32    Rogers, H., Chalil Madathil, K., Joseph, A., Holmstedt, C., Qanungo, S., **McNeese, N.**, Morris, T., Holden, R., & McElligott, J. (2021). An Exploratory Study Investigating the Barriers, Facilitators, and Demands Affecting Caregivers in a Telemedicine Integrated Ambulance-Based Setting for Stroke Care. *Applied Ergonomics.* 97. DOI: 10.1016/j.apergo.2021.103537

JA.31    Johnson, C., Demir, M., **McNeese, N.**, Gorman, J., Wolff, A., & Cooke, N. (2021). The Influence of Training on Human–Autonomy Team Communications and Trust Calibration. *Human Factors*. DOI: 10.1177/00187208211047323

JA.30    *Musick, G., Freeman, G., & **McNeese, N.** (2021). Gaming as Family Time: Digital Game Coplay in Modern Parent-Child Relationships. *Proceedings of the ACM on Human-Computer Interaction*, 5 (CHI PLAY), 1-25. DOI: 10.1145/3474678

JA.29    Chiou, E., Demir, M., Buchanan, V., Corral, C., Endsley, M., Lematta, G., Cooke, N., & **McNeese, N.** (2021).Towards Human-robot Teaming: Tradeoffs of Explanation-based Communication Strategies in a Virtual Search and Rescue Task. *International Journal of Social Robotics.* 1-20. DOI: 10.1007/s12369-021-00834-1

JA.28    Demir, M., **McNeese, N.**, Gorman, J., Cooke, N., Myers, C., & Grimm, D. (2021). Exploration of Teammate Trust and Interaction Dynamics in Human-Autonomy Teaming. *IEEE Transactions on Human-Machine Systems.* 51 (6), 696-705. DOI: 10.1109/THMS.2021.3115058

JA.27    *Musick, G., O'Neill, T., *Schelble, B., **McNeese, N.**, & *Henke, J. (2021). What Happens When Humans Believe Their Teammate is an AI? An Investigation into Humans Teaming with Autonomy. *Computers in Human Behavior.* 122. DOI: 10.1016/j.chb.2021.106852

JA.26    Herro, D., **McNeese, N.**, *O'Hara, R., & Frady, K. (2021). Exploring Graduate Students' Collaborative Problem-Solving in Engineering Design Tasks. *Journal of Engineering Design.* 32 (9), 496-516. DOI: 10.1080/09544828.2021.1922616

JA.25    **McNeese, N.**, Demir. M., Cooke, N., & She, M. (2021). Team Situation Awareness and Conflict: A Study of Human-Machine Teaming. *Journal of Cognitive Engineering and Decision Making.* 15 (2-3), 83-96 DOI: 10.1177/15553434211017354

JA.24    **McNeese, N.**, *Schleble, B., *Barberis Canonico, L., & Demir, M. (2021). Who/What is My Teammate? Team Composition Considerations in Human-AI Teaming. *IEEE Transactions on Human-Machine Systems.* 51 (4), 288-299 DOI: 10.1109/THMS.2021.3086018

JA.23    *Rogers, H., Chalil Madathil, K., Joseph, A., **McNeese, N.**, Holmstedt, C., Holden, R., & McElligott, J. (2021). Task, Usability, and Error Analyses of Ambulance-based Telemedicine for Stroke Care. *IISE Transactions on Healthcare Systems Engineering.* 11 (3), 192-208. DOI: 10.1080/24725579.2021.1883775

JA.22    Joseph, A., Madathil, K., Jafarifiroozabadi, R., *Rogers, H., Mihandoust, S., Khasawneh, A., **McNeese, N.**, Holmstedt, C., & McElligott, J. (2021). Communication and teamwork during telemedicine-enabled stroke care in an ambulance. *Human Factors.* 64 (1), 21-41. DOI: 10.1177/0018720821995687

JA.21    *Musick, G., *Zhang, R., **McNeese, N.**, Freeman, G., & *Hridi, A. (2021). Leveling Up Teamwork in Esports: Understanding Team Cognition in a Dynamic Virtual Environment. Proc. *ACM on Human-Computer Interaction, CSCW.* 5 (CSCW1), 1-30. DOI: 10.1145/3449123

JA.20    Freeman, G, & **McNeese, N.** (2021). A Tale of Creativity and Struggles: Team Practices for Bottom-Up Innovation in Virtual Game Jams. Proc. *ACM on Human-Computer Interaction, CSCW.* 5 (CSCW1), 1-27. DOI: 10.1145/3449150

JA.19    **McNeese, N.**, Demir, M., Chiou, E., & Cooke, N. (2021). Trust and Team Performance in Human-Autonomy Teaming. *International Journal of Electronic Commerce- Special Issue on Digital Collaboration.* 25 (1), 51-72. DOI: 10.1080/10864415.2021.1846854

JA.18    O'Neill, T., **McNeese, N.**, *Barron, A., & *Schelble, B. (2020). Human-Autonomy Teaming: A Review and Analysis of the Empirical Literature. *Human Factors.* DOI: 10.1177/0018720820960865

JA.17    *Zhang, R., **McNeese, N.**, Freeman, G., & *Musick, G. (2020). "An Ideal Human": Expectations of AI Teammates in Human-AI Teaming. Proc. *ACM on Human-Computer Interaction, CSCW.* 4 (CSCW3), 1-25. DOI: 10.1145/3432945

JA.16    Freeman, G., Bardzell, J., Bardzell, S., & **McNeese, N.** (2020). Mitigating Exploitation: Indie Game Developers' Reconfigurations of Labor in Technology. Proc. *ACM on Human-Computer Interaction, CSCW.* 4 (CSCW1), 1-23. DOI: 10.1145/3392864 **\*CSCW Honorable Mention Award\***

JA.15    Demir, M. **McNeese, N.**, & Cooke, N. (2020). Understanding Human-Robot Teams in Light of All-Human Teams: Aspects of Team Interaction and Shared Cognition. *International Journal of Human-Computer Studies.* 140. DOI: 10.1016/j.ijhcs.2020.102436

JA.14    Freeman, G., **McNeese, N.**, Bardzell, J., & Bardzell, S. (2020). "Pro-Amateur"-Driven Technological Innovation: Participation and Challenges in Indie Game Development. Proc. *ACM on Human-Computer Interaction,* 4(GROUP), 1-22. DOI: 10.1145/3375184

JA.13    Demir, M., **McNeese, N.**, & Cooke, N. J. (2019). The Evolution of Human-Autonomy Teams in Remotely Piloted Aircraft Systems Operations. *Frontiers in Communication,* 4, 50. DOI: 10.3389/fcomm.2019.00050

JA.12    Freeman, G., & **McNeese, N.** (2019). Exploring Indie Game Development: Team Practices and Social Experiences in A Creativity-Centric Technology Community. *Computer Supported Cooperative Work (CSCW)*, 28(3), 723-748. DOI: 10.1007/s10606-019-09348-x

JA.11    **McNeese, N.** (2019). The Pursuit of Transdisciplinary Research: Eight Recommendations for Integrating Disciplines. *IEEE Systems, Man, and Cybernetics Magazine*, 5(4), 10-15. DOI: 10.1109/MSMC.2019.2935677

JA.10    Myers, C., Ball, J., Cooke, N., Freiman, M., Caisse, M., Rogers, S., & **McNeese, N.** (2018). Autonomous Intelligent Agents for Team Training. *IEEE Intelligent Systems*, 34(2), 3-14. DOI: 10.1109/MIS.2018.2886670

JA.9    Demir, M., Likens, A. D., Cooke, N. J., Amazeen, P. G., & **McNeese, N.** (2018). Team Coordination and Effectiveness in Human-Autonomy Teaming. *IEEE Transactions on Human-Machine Systems*, 49(2), 150-159. DOI: 10.1109/THMS.2018.2877482

JA.8    Demir, M., **McNeese, N.**, & Cooke, N. J. (2018). The Impact of a Perceived Autonomous Agent on Dynamic Team Behaviors. *IEEE Transactions on Emerging Topics in Computational Intelligence*, 2(4), 258-267. DOI: 10.1109/TETCI.2018.2829985

JA.7    **McNeese, N.**, *Demir, M., Cooke, N., & Myers, C. (2018). Teaming with a Synthetic Teammate: Insights into Human Autonomy Teaming. *Human Factors*. 60(2), 262-273. DOI: 10.1177/0018720817743223

JA.6    *Demir, M., **McNeese, N.**, & Cooke, N. (2017). Team Situational Awareness within the Context of Human-Autonomy Teaming. *Cognitive Systems Research*. 46, 3-12. DOI: 10.1016/j.cogsys.2016.11.003

JA.5    *Buchanan, V., Lu, Y., **McNeese, N.**, Steptoe, M., Maciejewski, R., & Cooke, N. (2017). The Role of Teamwork in the Analysis of Big Data- A Study of Visual Analytics and Box Office Prediction. *Big Data*. 5 (1), 53-66. DOI: 10.1089/big.2016.0044

JA.4    Gray, R., Cooke, N., **McNeese, N.**, & McNabb, J. (2017). Investigating Team Coordination in Baseball Using a Novel Joint Decision-Making Paradigm. *Frontiers in Psychology*. 8: 907. DOI: 10.3389/fpsyg.2017.00907

JA.3    **McNeese, N.** & Reddy, M. (2017). The Role of Team Cognition in Collaborative Information Seeking. *Journal of the Association for Information Science and Technology*. 68(1), 129-140. DOI: 10.1002/asi.23614

JA.2    **McNeese, N.**, Cooke, N., Branaghan, R., Knobloch, A., & Taylor, A. (2016). Identification of the Emplacement of Improvised Explosive Devices by

Experienced Mission Payload Operators. *Applied Ergonomics*. 60, 43-51. DOI: 10.1016/j.apergo.2016.10.012

JA.1   **McNeese, N.**, Khera, N., Wordingham, S., Arring, N., Nyquist, S., Gentry, A., Tomlinson, B., Cooke, N., & Sen, A. (2016). Team Cognition As a Means to Improve Care Delivery in Critically Ill Patients With Cancer After Hematopoietic Cell Transplantation. *Journal of Oncology Practice*. 12(11), 1091-1099. DOI: 10.1200/JOP.2016.013672

**Book Chapters:**

B.10   *Sengupta, S., *Duan, W., Flathmann, C., & **McNeese, N.** (2023). Sustaining Human-AI Teams: Exploring the Interplay Between Ethics and Trust. Book Chapter in *The Routledge Handbook of Communication and Social Cognition*. Routledge/Taylor and Francis.

B.9   *Duan, W., **McNeese, N.**, & *Zhang, R. (2023). Communication in Human-AI Teaming. In T. Reimer, E. Park., J. Bonito (Eds.), *Group Communication: An Advanced Introduction*. Routledge/Taylor and Francis.

B.8   *Flathmann, C., *Schelble, B.G., & **McNeese, N.** (2023). Refocusing Human-AI Interaction Through a Teamwork Lens. Book Chapter in *Handbook on Virtual Work*. Edward Elgar Publishing.

B.7   Rapa, L., Marshall, J., Madison, S., *Flathmann, C., Knijnenburg, B., & **McNeese, N.** (2021). Clemson University's teacher learning progression program: Personalized advanced credentials for teachers. In Y. Huang (Ed.), *Credential innovations for inclusive pathways to professions*. Hershey, PA: IGI Global.

B.6   McNeese, M., **McNeese, N.**, Delise, L., Rentsch, J., & Brown, C. (2020). "Reflections on Team Simulations- Part 2: Contemporary Progressions", Chapter in *Foundations and Theoretical Perspectives of Distributed Team Cognition*. pg. 49-90. CRC Press. ISBN 9781138625549. DOI: N/A

B.5   McNeese, M., **McNeese, N.**, Delise, L., Rentsch, J., & Brown, C. (2020). "Reflections on Team Simulations- Part 1: Historical Precedence", Chapter in *Foundations and Theoretical Perspectives of Distributed Team Cognition*. pg. 27-48. CRC Press. ISBN 9781138625549. DOI: N/A

B.4   McNeese, M. D., & **McNeese, N.** (2020). Humans interacting with intelligent machines: at the crossroads of symbiotic teamwork. In *Living with Robots*. pg. 165-197. Academic Press. DOI: 10.1016/B978-0-12-815367-3.00009-8

B.3   **McNeese. N.**, *Demir, M., & Reddy, M. (2017). "Methodological Techniques and Approaches to Developing Empirical Insights of Cognition During Collaborative Information Seeking", In *Cognitive Systems Engineering: An*

*Integrative Living Lab Framework*. pg. 105-130. CRC Press. DOI: [10.4324/9781315155401](10.4324/9781315155401)

B.2    **McNeese. N.**, Cooke, N., *Fedele, M., & Gray, R. (2016). "Perspectives on Team Cognition and Team Sports", In *Sport and Exercise Psychology Research*. pg. 123-141. European Federation of Sport Psychology. DOI: [10.1016/B978-0-12-803634-1.00006-6](10.1016/B978-0-12-803634-1.00006-6)

B.1    Hall, D., **McNeese, N.**, & Llinas J. (2010). "H-Space: Humans as Observers", In *Human-Centered Fusion*, D. Hall and J. Jordan. pg. 59-84. Artech House. ISBN: 9781596934344. DOI: N/A

**Conference Full Papers (Refereed):**

C.75    *Sengupta, S. & McNeese, N. (2023). Public Perceptions, Critical Awareness, and Community Discourse on AI Ethics: Evidence from an Online Discussion Forum. In *Proceedings of the 57th Hawaii International Conference on System Sciences*.

C.74    *Murmu, C., *Parthiban, G., *McDowell, K., & **McNeese, N.** (2023) A Comparative Evaluation of Formed Team Perception when in Human-Human and Human-Autonomous Teams. *2023 ACM SIGGRAPH Conference on Motion, Interaction and Games (Poster Version- Shortened Paper)*.

C.73    *Zhou, S., *Yin, X., *Scalia, M. J., *Zhang, R., Gorman, J., & **McNeese, N.** (2023). Development of a Real-Time Trust/Distrust Metric Using Interactive Hybrid Cognitive Task Analysis. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*. Sage CA: Los Angeles, CA: SAGE Publications.

C.72    *Mallick, R., *Sawant, S., *Brady, C., **McNeese, N.**, & Madathil, K., (2023). Can We Build it? Yes, We Can! Development Procedure of High-Fidelity Simulation Environments for Human-Agent Teams. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*. Sage CA: Los Angeles, CA: SAGE Publications.

C.71    *Sawant, S., *Mallick, R., *Brady, C., Madathil, K., & **McNeese, N.** (2023). Human-AI teams in complex military operations: Soldiers' perception of intelligent AI agents as teammates in human-AI teams. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*. Sage CA: Los Angeles, CA: SAGE Publications.

C.70    *Sawant, S., *Mallick, R., *Brady, C., Madathil, K., & **McNeese, N.**, (2023). Balancing the Scales of Explainable and Transparent AI Agents within Human-Agent Teams. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*. Sage CA: Los Angeles, CA: SAGE Publications.

C.69   *Schulenberg, K., *Li, L., Freeman, G., & **McNeese, N.** (2023). Towards Leveraging AI-based Moderation to Address Emergent Harassment in Social Virtual Reality. T*he 2023 ACM Conference on Human Factors in Computing Systems (CHI'23).*

C.68   Freeman, G. , *Li, L., **McNeese, N.**, & *Schulenberg, K. (2023). Understanding and Mitigating Challenges for Non-Profit Driven Indie Game Development to Innovate Game Production. *The 2023 ACM Conference on Human Factors in Computing Systems (CHI'23).*

C.67   *Musick, G., *Schelble, B.G., *Mallick, R., & **McNeese, N.** (2023). Intelligent Sharing is Caring: Toward the Design of an Intelligent System to Facilitate Team Sharing. In *Proceedings of the 56th Hawaii International Conference on System Sciences.*

C.66   *Schelble, B.G., *Lancaster, C., *Duan, W., *Mallick, R., **McNeese, N.**, & *Lopez, J. (2023). The Effect of Ethical and Unethical AI Actions on Outcomes of Trust and Performance in Human-AI Teams. In *Proceedings of the 56th Hawaii International Conference on System Sciences.*

C.65   *Hauptman, A., *Duan, W., & **McNeese, N.**. (2022). The Components of Trust for Collaborating With AI Colleagues. *CSCW'22 Companion: Companion Publication of the 2022 Conference on Computer Supported Cooperative Work and Social Computing.* DOI: 10.1145/3500868.3559450

C.64   *Guo, L., *Flathmann, C., *Anaraky, R., **McNeese, N.**, & Knijnenburg, B. (2022) The Effect of Recommendation Source and Justification on Professional Development Recommendations for High School Teachers. *HT'22: 33rd ACM Conference on Hypertext and Social Media.*

C.63   *Hauptman, A., *Schelble, B., & **McNeese, N.** (2022). Adaptive Autonomy as a Means for Implementing Shared Ethics in Human-AI Teams. In *2022 AAAI Spring Symposium on AI Engineering.*

C.62   *Hauptman, A., & **McNeese, N.** (2022). Overcoming the Lumberjack Effect Through Adaptive Autonomy. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting.* Sage CA: Los Angeles, CA: SAGE Publications.

C.61   Lopes, S., *Brady, C., Madathil, K., Betrand, J., Li, D., & **McNeese, N.** (2022). Effect of Fatigue on Trust and Workload While Collaborating with AI-enabled Infrastructure Visual Inspection Systems. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting.* Sage CA: Los Angeles, CA: SAGE Publications.

C.60   *Mallick, R., *Sawant, S., **McNeese, N.**, & Madathil, K., (2022). Designing for

Mutually Beneficial Decision Making in Human-Agent Teaming. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*. Sage CA: Los Angeles, CA: SAGE Publications.

C.59    *Sawant, S., *Mallick, R., Madathil, K., & **McNeese, N.**, (2022). Mutually beneficial decision making in human-AI teams: Understanding soldier's perception and expectations of AI teammates in human-AI teams. *In Proceedings of the Human Factors and Ergonomics Society Annual Meeting*. Sage CA: Los Angeles, CA: SAGE Publications.

C.58    *Flathmann, C., *Schelble, B., & **McNeese, N.** (2021). Fostering Human-Agent Team Leadership by Leveraging Human Teaming Principles. In *2021 IEEE International Conference on Human-Machine Systems*. DOI: 10.1109/ICHMS53169.2021.9582649

C.57    *Flathmann, C., *Schelble, B., *Zhang, R., & **McNeese, N.** (2021). Modeling and Guiding the Creation of Ethical Human-AI Teams. In *2021 AAAI/ACM Conference on AI, Ethics, and Society.* DOI: 10.1145/3461702.3462573

C.56    *Kirabo, L., *Namara, M., & **McNeese, N.** (2021). "The Power of the Blue Tick." Ugandans' experiences and engagement on Twitter at the onset of the COVID-19 pandemic. In *2021 ACM African Human-Computer Interaction Conference (AfriCHI '21)*, March 8-12, 2021. Maputo, Mozambique. DOI: 10.1145/3448696.3448746

C.55    *Rogers, H., Chalil Madathil, K., Joseph, A., Holmstedt, C., Qanungo, S., **McNeese, N.**, Morris, T., Holden, R. & McElligott, J. (2021). Barriers and facilitators in a telemedicine-integrated ambulance-based setting for stroke care. In *Proceedings of the 2021 IEA Conference*. DOI: 10.1016/j.apergo.2021.103537

C.54    *Schelble, B.G., *Flathmann, C., *Canonico, L., & **McNeese, N.** (2021). Understanding Human-AI Cooperation Through Game-Theory and Reinforcement Learning Models. In *Proceedings of the 54th Hawaii International Conference on System Sciences (HICSS)*. (pp. 348). DOI: 10.24251/HICSS.2021.041 **Best Paper Nomination**

C.53    *Schelble, B., **McNeese, N.**, & *Flathmann, C. (2020). Towards Meaningfully Integrating Human-Autonomy Teaming in Applied Settings. In *Proceedings of the 8th International Conference on Human Agent Interaction (HAI); ACM Co-Sponsor*. (pp. 149-156). DOI: 10.1145/3406499.3415077

C.52    *Flathmann, C., *Schelbe, B., *Tubre, B., **McNeese, N.**, & Rodeghero, P. (2020). Invoking Principles of Groupware to Develop and Evaluate Present and Future Human-Agent Teams. In *Proceedings of the 8th International Conference on Human Agent Interaction (HAI); ACM Co-Sponsor*. (pp. 15-24).

DOI: [10.1145/3406499.3415072](#) **\*Overall Best Paper Award\***

C.51  \*Zhang, R., Freeman, G., & **McNeese, N.** (2020). Breakups on Social Media: Social Behaviors and Dilemmas. The *2020 ACM Conference on Computer Supported Cooperative Work and Social Computing Late Breaking Work (CSCW'20 Companion)*. (pp. 431-435). DOI: [10.1145/3406865.3418310](#)

C.50  \*Musick, G., \*Maloney, D., **McNeese, N.**, & Walton, J. (2020). Differentiated Instruction further Realized through Teacher-Agent Teaming. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*. (Vol. 64, No. 1, pp. 1318-1322). Sage CA: Los Angeles, CA: SAGE Publications. DOI: [10.1177/1071181320641315](#)

C.49  \*Scheble, B., \*Barberis Canonico, L., **McNeese, N.**, \*Carroll, J., & \*Hird, C., (2020). Designing Human-Autonomy Teaming Experiments Through Reinforcement Learning. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*. (Vol. 64, No. 1, pp. 1426-1430). Sage CA: Los Angeles, CA: SAGE Publications. DOI: [10.1177/1071181320641340](#)

C.48  Rogers, H., Ponathil, A., Madathil, K., Joseph, A., **McNeese, N.**, Holmstedt, C., & McElligot, J. (2020). Evaluation and Prediction of Human Error in Ambulance-Based Telemedicine Stroke Assessment. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*. (Vol. 64, No. 1, pp. 663-663). Sage CA: Los Angeles, CA: SAGE Publications. DOI: [10.1177/1071181320641151](#)

C.47  \*Barberis Canonico, L., \*Vakeel, V., \*Dominic, J., Rodeghero, P., & **McNeese, N.** (2020). Human-AI Partnerships for Chaos Engineering. In *Proceedings of the IEEE/ACM 42nd International Conference on Software Engineering Workshops*. (pp. 499-503). DOI: [10.1145/3387940.3391493](#) (Publishing error left my name off authorship online).

C.46  Rogers, H., Madathil, K., **McNeese, N.**, Ponathil, A., McElligott, J., Holmstedt, C., & Joseph, A. (2020). Heuristic Evaluation of a Pilot Telemedicine System for Stroke Evaluation in Ambulances. *2020 International Symposium on Human Factors and Ergonomics in Healthcare*. Virtual. DOI: N/A

C.45  Johnson, C., Demir, M., Zabala, G., He, H., Grimm, D., Radigan, C., Wolff, A., Cooke, N., **McNeese, N.**, & Gorman, J. (2020). Training and Verbal Communications in Human–Autonomy Teaming Under Degraded Conditions. In *2020 IEEE International Multi-Disciplinary Conference on Cognitive Methods in Situation Awareness and Decision Support (COGSIMA)*. (pp. 53-58). IEEE. DOI: [10.1109/CogSIMA49017.2020.9216061](#)

C.44  \*Barberis Canonico, L., & **McNeese, N.** (2019). Flash Crashes in Multi-Agent

Systems: Using Minority Games and Reinforcement Learning to Test AI Safety. In *2019 Winter Simulation Conference*. (pp. 193-204). Washington, DC. IEEE. DOI: 10.1109/WSC40007.2019.9004675

C.43   *Flathmann, C., **McNeese, N.**, & *Barberis Canonico, L. (2019). Using Human-Agent Teams to Purposefully Design Multi-Agent Systems. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*. (Vol. 63, No. 1, pp. 1425-1429). Sage CA: Los Angeles, CA: SAGE Publications. DOI: 10.1177/1071181319631238

C.42   *Barberis Canonico, L., **McNeese, N.**, & *Flathmann, C. (2019). The Wisdom of the Market: Using Human Factors to Design Prediction Markets for Collective Intelligence. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*. (Vol. 63, No. 1, pp. 1471-1475). Sage CA: Los Angeles, CA: SAGE Publications. DOI: 10.1177/1071181319631282

C.41   *Barberis Canonico, L., **McNeese, N.**, & *Flathmann, C. (2019). Collectively Intelligent Teams: Integrating Team Cognition, Collective Intelligence, and AI for Future Teaming. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*. (Vol. 63, No. 1, pp. 1466-1470). Sage CA: Los Angeles, CA: SAGE Publications. DOI: 10.1177/1071181319631278

C.40   Grimm, D. A., Demir, M., Gorman, J. C., Cooke, N. J., & **McNeese, N.** (2019). Layered Dynamics and System Effectiveness of Human-Autonomy Teams Under Degraded Conditions. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*. (Vol. 63, No. 1, pp. 165-165). Sage CA: Los Angeles, CA: SAGE Publications. DOI: 10.1177/1071181319631307

C.39   Demir, M., **McNeese, N.**, Cooke, N. J., Grimm, D. A., & Gorman, J. C. (2019). An Empirical Exploration of Resilience in Human-Autonomy Teams Operating Remotely Piloted Aircraft Systems. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*. (Vol. 63, No. 1, pp. 153-154). Sage CA: Los Angeles, CA: SAGE Publications. DOI: 10.1177/1071181319631020

C.38   Demir, M., **McNeese, N.**, She, M., & Cooke, N. J. (2019). Team Coordination of Team Situation Awareness in Human-Autonomy Teaming. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*. (Vol. 63, No. 1, pp. 146-147). Sage CA: Los Angeles, CA: SAGE Publications. DOI: 10.1177/1071181319631259

C.37   Lematta, G. J., Coleman, P. B., Bhatti, S. A., Chiou, E. K., **McNeese, N.**, Demir, M., & Cooke, N. J. (2019). Developing Human-Robot Team Interdependence in a Synthetic Task Environment. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*. (Vol. 63, No. 1, pp. 1503-1507). Sage CA: Los Angeles, CA: SAGE Publications. DOI: 10.1177/1071181319631433

C.36    Freeman, G., Bardzell, J., Bardzell, S., & **McNeese, N.** (2019). The Innovation
        Ecology: Collaborative Information, Community Support, and Policy in a
        Creative Technology Community. In *International Conference on Information
        (iConference)*. (pp. 614-624). Springer, Cham. DOI:
        10.1007/978-3-030-15742-5_58 **\*Best Paper Nomination (Top 5 out of 133
        submissions)\***

C.35    Demir, M., **McNeese, N.**, Johnson, C., Gorman, J. C., Grimm, D., & Cooke,
        N. J. (2019). Effective Team Interaction for Adaptive Training and Situation
        Awareness in Human-Autonomy Teaming. In *2019 IEEE Conference on
        Cognitive and Computational Aspects of Situation Management (CogSIMA)*. (pp.
        122-126). IEEE. DOI: 10.1109/COGSIMA.2019.8724202

C.34    **McNeese, N.**, Demir, M., Choui, E., Cooke, N., & Yanikan, G. (2019).
        Understanding the Role of Trust in Human-Autonomy Teaming. In
        *Proceedings of the 52nd Hawaii International Conference on System Sciences
        (HICSS)*. Maui, HI. (pp. 254-263). DOI: 10.24251/HICSS.2019.032

C.33    *Barberis Canonico, L.& **McNeese, N.**, & *Duncan, C. (2018). Machine
        Learning as Grounded Theory: Human-Centered Interfaces for Social
        Network Research through Artificial Intelligence. In *Proceedings of the
        Human Factors and Ergonomics Society Annual Meeting*. (pp. 1252-1256.) Sage
        CA: Los Angeles, CA: SAGE Publications. DOI: 10.1177/1541931218621287

C.32    *Barberis Canonico, L.& **McNeese, N.** (2018). Intelligent and
        Human-Centered Clinical Checklists: A Voice Interface for Virtualized
        Clinical Paths. In *Proceedings of the Human Factors and Ergonomics Society
        Annual Meeting*. (pp. 1197-1201.) Sage CA: Los Angeles, CA: SAGE
        Publications. DOI: 10.1177/1541931218621275

C.31    *Barberis Canonico, L., **McNeese, N.**, & Shuffler, M. (2018). Stable
        Teamwork Marriages in Healthcare: Applying Machine Learning to
        Surgeon-Nurse Patient Matching. In *Proceedings of the Human Factors and
        Ergonomics Society Annual Meeting*. (pp. 1202-1206.) Sage CA: Los Angeles,
        CA: SAGE Publications. DOI: 10.1177/1541931218621276

C.30    Demir, M., **McNeese, N.**, & Cooke, N. J. (2018). Dyadic Team Interaction and
        Shared Cognition to Inform Human-Robot Teaming. In *Proceedings of the
        Human Factors and Ergonomics Society Annual Meeting*. pp. 124-124. Sage CA:
        Los Angeles, CA: SAGE Publications. DOI: 10.1177/1541931218621028

C.29    O'Hara, S., **McNeese, N.**, Toft Klar, R., Chavira-Razo, L., & Andrade-Romo,
        Z. (2018). Macrocognition in the Health Care Built Environment: A New
        Model for Emergency Response Extending Macrocognition Results in the
        Inpatient Setting to the Mexico 2017 Earthquake Disaster. In *2018 Human
        Factors and Ergonomics in Health Care Symposium.* Boston, MA. DOI: N/A

C.28    *Demir, M. Amazeen, N., **McNeese, N.**, Cooke, N., & Likens, A. (2017). Team Coordination Dynamics in Human-Autonomy Teaming. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*. (Vol. 61, No. 1, pp. 236-236). Sage CA: Los Angeles, CA: SAGE Publications. DOI: 10.1177/1541931213601542

C.27    *Demir, M., **McNeese, N.**, & Cooke, N. (2017). Team Synchrony in Human-Autonomy Teaming. In *8th International Conference on Applied Human Factors and Ergonomics (AHFE 2017) and the Affiliated Conferences*. (pp. 303-312). Springer, Cham. DOI: 10.1007/978-3-319-60384-1_29

C.26    **McNeese, N.**, Cooke, N., Shope, S., & *Knobloch, A. (2016). The Extreme Environment of High Altitude Gas Ballooning: Lessons Learned in Assessing Cognition. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*. (Vol. 60, No. 1, pp. 1409-1413). Sage CA: Los Angeles, CA: SAGE Publications. DOI: 10.1177/1541931213601324

C.25    Cooke, N., Shope, S., & **McNeese, N.** (2016). Human Systems Integration: A 28,000 Foot View. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*. (Vol. 60, No. 1, pp. 1459-1463). Sage CA: Los Angeles, CA: SAGE Publications. DOI: 10.1177/1541931213601334

C.24    *Demir, M., **McNeese, N.**, Cooke, N., & Myers, C. (2016). The Synthetic Teammate as a Team Player in Command-and-Control Teams. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*. (Vol. 60, No. 1, pp. 116-116). Sage CA: Los Angeles, CA: SAGE Publications. DOI: 10.1177/1541931213601026

C.23    McNeese, M., & **McNeese, N.** (2016). Intelligent Teamwork: A History, Framework, and Lessons Learned. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*. (Vol. 60, No. 1, pp. 153-157). Sage CA: Los Angeles, CA: SAGE Publications. DOI: 10.1177/1541931213601035

C.22    Myers, C., Ball, J., Cooke, N., *Demir, M., **McNeese, N.**, Caisse, M., Freiman, M., & Halverson, T. (2016). Maintaining Team Training Efficacy with Autonomous Synthetic Teammates. In *2016 Interservice/Industry Training, Simulation, and Education Conference*. Orlando, FL. DOI: N/A

C.21    **McNeese, N.**, Cooke, N., Gray, R., & *Fedele, M. (2016). Knowledge Elicitation Methods for Developing Insights into Team Cognition During Team Sports. In *7th International Conference on Applied Human Factors and Ergonomics (AHFE 2016) and the Affiliated Conferences*. (pp. 3-15). Springer, Cham. DOI: 10.1007/978-3-319-41953-4_1

C.20    McNeese, M., **McNeese, N.**, Endsley, T., Reep, J., & Forster, P. (2016). Simulating Team Cognition in Complex Systems: Practical Considerations

for Researchers. In *7th International Conference on Applied Human Factors and Ergonomics (AHFE 2016) and the Affiliated Conferences*. (pp. 255-267). Springer, Cham. DOI: 10.1007/978-3-319-41691-5_22

C.19    **McNeese, N.** & Cooke, N. (2016). Team Cognition As A Mechanism For Developing Collaborative and Proactive Decision Support in Unmanned Aerial Systems. In *18th International Conference on Human- Computer Interaction*. (pp. 198-209). Springer, Cham. DOI: 10.1007/978-3-319-39952-2_20

C.18    *Demir, M., **McNeese, N.,** & Cooke, N. (2016). Team Communication Behaviors of The Human-Automation Teaming. In *2016 IEEE International Multi-Disciplinary Conference on Cognitive Methods in Situation Awareness and Decision Support (COGSIMA). (pp. 28-34).* IEEE. DOI: 10.1109/COGSIMA.2016.7497782 **\*Overall Best Paper of 2016 Cogsima Conference\***

C.17    *Hinski, S., Cooke, N., **McNeese, N.,** Sen, A., & Patel, B. (2016). A Human Factors Approach to Building High-Performance Multi-Professional Cardiac Arrest Teams: Developing a Code Blue Team Performance Metric. In *Proceedings of the International Symposium on Human Factors and Ergonomics in Health Care*. (Vol. 5, No. 1, pp. 68-71). Sage CA: Los Angeles, CA: SAGE Publications. DOI: 10.1177/2327857916051006

C.16    **McNeese, N.**, Cooke, N., & *Buchanan, V. (2015). Human Factors Guidelines for Developing Collaborative Intelligence Analysis Technologies. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*. (Vol. 59, No. 1, pp. 821-825). Sage CA: Los Angeles, CA: SAGE Publications. DOI: 10.1177/1541931215591249

C.15    **McNeese, N.**, *Buchanan, V., & Cooke, N. (2015). The Cognitive Science of Intelligence Analysis. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*. (Vol. 59, No. 1, pp. 826-830). Sage CA: Los Angeles, CA: SAGE Publications. DOI: 10.1177/1541931215591250

C.14    **McNeese, N.**, & Reddy, M. (2015). Concept Mapping as a Methodology to Develop Insights on Cognition During Collaborative Information Seeking. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*. (Vol. 59, No. 1, pp. 245-249). Sage CA: Los Angeles, CA: SAGE Publications. DOI: 10.1177/1541931215591050

C.13    **McNeese, N.**, & Reddy, M. (2015). Articulating and Understanding the Development of a Team Mental Model in a Distributed Medium. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*. (Vol. 59, No. 1, pp. 240-244). Sage CA: Los Angeles, CA: SAGE Publications. DOI: 10.1177/1541931215591049

C.12 *Demir, M., **McNeese, N.**, Cooke, N., Ball, J, & Myers, C. (2015). Synthetic Teammate Communication and Coordination with Humans. In *Proceedings of the Human Factors And Ergonomics Society Annual Meeting*. (Vol. 59, No. 1, pp. 951-955). Sage CA: Los Angeles, CA: SAGE Publications. DOI: 10.1177/1541931215591275

C.11 *Demir, M., & **McNeese, N.** (2015). The Role of Recognition Primed Decision Making in Human Automation Teaming. In *International Conference on Naturalistic Decision Making 2015*. McLean, VA. (pp. 1-4). DOI: N/A

C.10 **McNeese, N.**, Cooke, N., *Fedele, M., & Gray, R. (2015). Theoretical and Methodical Approaches to Studying Team Cognition in Sports. In *6th International Conference on Applied Human Factors and Ergonomics (AHFE 2015) and the Affiliated Conferences*. (pp. 1211-1218). DOI: 10.1016/j.promfg.2015.07.201

C.9 McNeese, M., Mancuso, V., **McNeese, N.**, & Glantz, E. (2015). What Went Wrong, What Can Go Right: A Prospectus on Human Factors Practice. In *6th International Conference on Applied Human Factors and Ergonomics (AHFE 2015) and the Affiliated Conferences*. (pp. 5222-5229). DOI: 10.1016/j.promfg.2015.07.592

C.8 **McNeese, N.**, Cooke, N., Hoffman, R., Klein, G., McNeese, M., & Patterson, E. (2015). The Human Factors of Intelligence Analysis. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*. (Vol. 59. No.1, pp. 130-134). Sage CA: Los Angeles, CA: SAGE Publications. DOI: 10.1177/1541931215591027

C.7 **McNeese, N.**, Reddy, M., & *Friedenberg, E. (2014). Team Mental Models within Collaborative Information Seeking. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting (Vol. 58, No. 1, pp. 335-339)*. Sage CA: Los Angeles, CA: SAGE Publications. DOI: doi.org/10.1177/1541931214581069

C.6 McNeese, M., Mancuso, V., **McNeese, N.**, Endsley, T. & Forster, P. (2014). An Integrative Simulation to Study Team Cognition in Emergency Crisis Management. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting (Vol. 58, No. 1, pp. 285-289)*. Sage CA: Los Angeles, CA: SAGE Publications. DOI: 10.1177/1541931214581059

C.5 Murphy, A., Reddy, M., & **McNeese, N.** (2014). Exploring the Perceptions and Use of Electronic Medical Record Systems by Non-Clinicians. In *Proceedings of the 2014 Conference on Designing Interactive systems (DIS) (pp. 429-432)*. DOI: 10.1145/2598510.2600884

C.4 Johnson, N., Murphy, A., **McNeese, N.**, Reddy, M., & Purao, S. (2013). A

Survey on Rural Hospitals' Perspectives on Health Information Technology Outsourcing. In *AMIA Annual Symposium Proceedings (Vol. 2013, p. 732)*. American Medical Informatics Association. DOI: N/A

C.3    McNeese, M., Mancuso, V., **McNeese, N.**, Endsley, T., & Forster, P. (2013). Using the Living Laboratory Framework as a Basis for Understanding Next Generation Analyst Work. In *SPIE Defense, Security, and Sensing*. (pp. 87580F-87580F-12). DOI: 10.1117/12.2016514

C.2    Caragea, C., **McNeese, N.**, Jaiswal, A., Traylor, G., Kim, W., Mitra, P., Wu, D., Tapia, A., Giles, L., Jansen, B. J., & Yen, J. (2011). Classifying Text Messages for the Haiti Earthquake. In *Proceedings of the 8th international ISCRAM conference*. Lisbon, Portugal. DOI: N/A

C.1    **McNeese, N.**, Pfaff, M., Santoro, G., & McNeese, M. (2008). Team Performance in Real and Virtual Worlds: The Perceived Value of Second Life. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting (Vol. 52, No. 19, pp. 1435-1439)*. Sage CA: Los Angeles, CA: SAGE Publications. DOI: 10.1177/154193120805201928

**Published Reports & Technical Reports:**

R.8    The Spread of Trust and Distrust in Distributed Human-Autonomy Teaming Constellations Year 2. Technical Report for AFOSR Grant no. FA9550-19-S-0003.

R.7    Considerations of Ethical and Unethical Behavior on Trust in Human-Autonomy Teaming Year 3. Technical Report for AFOSR Grant no. FA9550-20-1-0342

R.7    Promoting Human Interpretation and Interaction to Mitigate Bias in Artificial Intelligence Assisted Decision Aids. Technical Report for ONR.

R.6    National Academies of Engineering, Sciences, and Medicine. 2021 Human-AI Teaming: State of the Art and Research Needs.

R.5    The Spread of Trust and Distrust in Distributed Human-Autonomy Teaming Constellations Year 1. Technical Report for AFOSR Grant no. FA9550-19-S-0003.

R.4    Considerations of Ethical and Unethical Behavior on Trust in Human-Autonomy Teaming Year 2. Technical Report for AFOSR Grant no. FA9550-20-1-0342.

R.3    National Academies of Engineering, Sciences, and Medicine, 2019-2020 Human Factors Science Assessment of the Army Research Laboratory.

R.2     Considerations of Ethical and Unethical Behavior on Trust in Human-Autonomy Teaming Year 1. Technical Report for AFOSR Grant no. FA9550-20-1-0342

R.1     2016 Synthetic Teammates as Team Players: Coordination of Human and Synthetic Teammates. Technical Report for AFOSR Grant no. N000141110844.

**Patents and Technology Disclosures:**

TD.1     Madathil, K., Bertrand, J., McNeese, N., Sawant, S., Mallick, R., Brady C., Gramopadhye, A. (2023) Suite for Human-AI Teaming Research, Clemson University: College of Engineering Computing and Applied Sciences, Approved: 00657

**Workshop Papers & Organization (Peer Reviewed):**

WP.8     *Schelbe, B., *Sengupta, S., *Williams, A., & **McNeese, N.** (2023). Addressing Trust Repair for AI Ethicality: The Influence of Team Role and Violation Type [Paper presentation]. *Workshop on Trust and Reliance in AI-Assisted Tasks (at CHI 2023)*, Hamburg, Germany. April 23, 2023.

WP.7     *Lancaster, C., *Aly, H., *Sengupta, S., & **McNeese, N.** (2023). Responsible Human-AI Teaming: Interface Designs to Promote Bias Awareness in Human-AI Fact-checking Teams. *Workshop on Trust and Reliance in AI-Assisted Tasks (TRAIT) (at CHI 2023)*, Hamburg, Germany. April 23, 2023.

WP.6     *Sengupta, S., & **McNeese, N.** (2023). Synthetic Authority: Speculating the Future of Leadership in the Age of Human-Autonomy Teams. *AutomationXP23: Intervening, Teaming, Delegating - Creating Engaging Automation Experiences (at CHI 2023)*, Hamburg, Germany. April 23, 2023.

WO.1     O'Neill, T., & **McNeese, N.** (2023). Human-Autonomy Teaming: Mapping Out a Way Forward. *56th Hawaii International Conference on System Sciences.*

WP.5     *Flathmann, C. & **McNeese, N**. (2022). Understanding the Criticality of Human Adaptation when Designing Human-Centered AI Teammates. *HCAI@NeurIPS 2022*. Virtual. December 9, 2022.

WP.4     *Schelble, B., *Flathmann, C., *Scalia, M., *Zhou, S., Myers, C., **McNeese, N.,** Gorman, J., & Freeman, G. (2022). Addressing the Spread of Trust and Distrust in Distributed Human-AI Teaming Constellations. Workshop on Trust and Reliance in AI-Human Teams (TRAIT). *The 2022 ACM Conference on Human Factors in Computing Systems (CHI'22)*. New Orleans, LA. April 30th, 2022.

WP.3     *Guo, L., *Anaraky, R., *Flathmann, C., **McNeese, N.**, & Knijenburg, B. (2021). How to Recommend Professional Development Pathways to High

School Teachers. Workshop on Human-Machine Partnerships in the Future of Work: Exploring the Role of Emerging Technologies in Future Workplaces. *2021 ACM Conference on Computer Supported Cooperative Work (CSCW'21).* Virtual. Oct. 23rd, 2021.

WP.2 Schelble, B.*, Flathmann, C.*, & **McNeese, N.** (2021). Reducing Bias by Prioritizing Multi-Cultural Human-Agent Teams. Workshop on Human-Machine Partnerships in the Future of Work: Exploring the Role of Emerging Technologies in Future Workplaces. *2021 ACM Conference on Computer Supported Cooperative Work (CSCW'21).* Virtual. Oct. 23rd, 2021.

WP.1 **McNeese, N.** & Reddy, M. (2013). Studying Team Cognition during Collaborative Information Seeking: A Position Paper. Workshop on Collaborative Information Seeking: Consolidating the Past, Creating the Future. *2013 ACM Conference on Computer Supported Cooperative Work (CSCW'13).* San Antonio, Tex. Feb. 24, 2013.

**Panels:**

PL.8 AI and Other Emerging Trends in the Technology Industry. Penn State College of IST Alumni Symposium. October 20, 2023.

PL.7 Board on Human Systems Integration (BOHSI) Spring 2023 Seminar Multidisciplinary Collaboration and Technology: How Diverse Groups Work Together. *National Academies of Sciences, Engineering, and Medicine.* March 21, 2023.

PL.6 UNIDIR Webinar "Human-AI Teaming" *United Nations.* January 25, 2023.

PL.5 The National Academies Board on Human System Integration (BOHSI) Panel: Human-AI Teaming: Research Frontiers. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting.* Sage CA: Los Angeles, CA: SAGE Publications. October 2022

PL.4 AIRISE Coded Bias Film Screening: Panel with Experts. *Clemson University.* October 20, 2021.

PL.3 New Inspirations for Intelligent Autonomy. *ONR Science of Autonomy Program Meeting.* August 4, 2020.

PL.2 Artificial Intelligence: Implications of the Fourth Industrial Revolution Panel. *Dahlonega Science Festival 2020.* March 7, 2020.

PL.1 Clemson University State of the Science Panel. *Inaugural International Nursing Conference for Excellence in Healthcare Design: History, Design and Innovation.* August 17, 2019.

**Research Posters:**

P.15    *Lancaster, C., *Gilman, E., *Duan, W., *Sengupta, S., Flathmann, C., **McNeese, N.** (2023). Promoting Human Interpretation and Interaction to Mitigate Bias in Artificial Intelligence Assisted Decision Aids Through Intentional Interface Designs. In *Seventh Annual Workshop on Naval Applications of Machine Learning* (NAML 2023). San Diego, CA.

P.14    * Mallick, R., **McNeese, N.**, Brooks, J., & Madathil, K. C. (2021). Building bi-directional HCA frameworks for Human-Artificial Intelligent Teams. *VIPR-GS Student Symposium.* September 24, 2021.

P.13    *Flathmann, C., *Schelble, B., & **McNeese, N.** (2019) Creating Human-Oriented Multi- Agent Teams. *Insights @ BMW Manufacturing Co. LLC.* September 12, 2019.

P.12    *Flathmann, C., & **McNeese, N.** (2019) Using Human-Agent Teams to Purposefully Design Multi-Agent Teams. *2019 Clemson University Research Symposium.* May 8, 2019.

P.11    Mears, L., **McNeese, N.**, Apon, A., Summers, J., Frady, K., Stanley, L., Switzer, D., Herro, D., & Niaki, F. (2019) NSF THINKER: A New National Model for Integrated Education Technology-Human INtegrated Knowledge, Education, and Research. *2019 Clemson University Research Symposium.* May 8, 2019.

P.10    O'Hara, R., Frady, R., Herro, D., **McNeese, N.**, & Switzer, D. (2019) Technology-Human INtegrated Knowledge Research Education: Educational Team Developing Insights for a New Graduate Program. *2019 Clemson University Research Symposium.* May 8, 2019.

P.9     **McNeese, N.** (2018) Explorations of Team Cognition and Technology. *CRA Computing Community Consortium Early Career Researcher Symposium.* August 1, 2018.

P.8     **McNeese, N.**, *Barberis Canonico, L., *Blando, A., & *Dejesus, R. (2018). Team Research Analytics in Computational Environments (TRACE) Research Group. *Southeastern Human Factors Applied Research Conference.* April 7, 2018.

P.7     *Hinski, S., **McNeese, N.**, Khera, N., Wordingham, S., Arring, N., Nyquist, S., Gentry, A., Tomlinson, B., Cooke, N.,& Sen, A. Team Cognition As a Means to Improve Care Delivery in Critically Ill Patients With Cancer After Hematopoietic Cell Transplantation. *HFES 2017 International Symposium on Human Factors and Ergonomics in Health Care.* New Orleans, LA. March 7, 2017.

P.6     *Buchanan, V., **McNeese, N.**, Lu, Y., Wang, F., Cooke, N.,& Maciejewski, R. (2015). An Empirical Testbed for Human-in-the-Loop Studies of Collaboration with Visualization. *Foresight Partner Meeting, Arizona State University, Tempe, AZ.* February 19, 2015.

P.5     **McNeese, N.**, *Fedele, M., *Buchanan, V.,& Cooke, N. (2015). Human Factors Guidance for Collaborative Intelligence Analysis. *Foresight Partner Meeting, Arizona State University, Tempe, AZ.* February 19, 2015.

P.4     **McNeese, N.**, *Buchanan, V.,& Cooke, N. (2015). The Cognitive Science of Intelligence Analysis. *Foresight Partner Meeting, Arizona State University, Tempe, AZ.* February 19, 2015.

P.3     **McNeese, N.** (2014). Studying Team Cognition During Collaborative Information Seeking. *The 2014 Pennsylvania State University Graduate Exhibition, The Pennsylvania State University, University Park, PA.* April 6, 2014.

P.2     Murphy, A., **McNeese, N.**,& Reddy, M. (2012). "Supporting Multi-Disciplinary Team (MDT) Collaboration through the EMR." Poster Presentation. *NSF CHOT Industry Advisory Board Meeting. Hershey, PA.* September 6-7, 2012.

P.1     Murphy, A., **McNeese, N.**, Reddy, M.,& DeFlitch, C. (2012). Exploring How Electronic Medical Record (EMR) Systems Support Non-Clinical Users. *The 2012 Center for Health Organization Transformation (CHOT) Advisory Board Meeting, Hershey, PA.* Sep 6, 2012.

**Public Relations Coverage:**

PR.18   Eriana Meadows. "Clemson University researchers study how human-teaming AI systems are useful" 10/11/23. https://www.wspa.com/news/local-news/clemson-university-researchers-study-how-human-teaming-ai-systems-are-useful/.

PR.17   "Seven Young Faculty Garner NSF CAREER Grants" 9/29/23 https://clemson.world/seven-young-faculty-garner-nsf-career-grants/.

PR.16   "Artificial intelligence at a critical crossroads, says Clemson University's Nathan McNeese" 9/26/23. https://news.clemson.edu/artificial-intelligence-at-a-critical-crossroads-says-clemson-universitys-nathan-mcneese/.

PR.15   "Early CAREER Development grants awarded to Clemson researchers representing 4 colleges" 7/12/23. https://news.clemson.edu/early-career-development-grants-awarded-to-clemson-researchers-representing-4-colleges/.

PR.14   "25 faculty and staff chosen for the 2023 President's Leadership Institute"

5/16/23. https://news.clemson.edu/25-faculty-and-staff-chosen-for-the-2023-presidents-leadership-institute/.

PR.13   "Powell, McNeese named Researchers of the Year" 5/11/22. https://news.clemson.edu/powell-mcneese-named-researchers-of-the-year/.

PR.12   Paul Alonghi. "Artificial intelligence could one day be your teammate" 11/1/21. https://news.clemson.edu/artificial-intelligence-could-one-day-be-your-teammate/.

PR.11   Alex Cooper. "New projects at Clemson look to take AI into the classroom" 3/12/21. https://greenvillejournal.com/education/new-projects-at-clemson-look-to-take-ai-into-the-classroom/.

PR.10   Paul Alonghi. "Artificial intelligence helps advance personalized learning for South Carolina's K-12 teachers and students" 3/8/21. https://news.clemson.edu/artificial-intelligence-helps-advance-personalized-learning-for-south-carolinas-k-12-teachers-and-students/.

PR.9   Ryan Real. "Clemson Data Lab Connects Data Science, Research for All" 2/10/21. https://news.clemson.edu/clemson-data-lab-connects-data-science-research-for-all/.

PR.8   Nathaniel Cary. "Clemson program studies intersection of robots and people in advanced manufacturing" 12/26/20. https://www.postandcourier.com/greenville/business/clemson-program-studies-intersection-of-robots-and-people-in-advanced-manufacturing/article_aa23dbfa-4164-11eb-a3f3-873a856209f2.html.

PR.7   Michael Stanton. "Clemson awarded $3 million grant to develop AI-powered professional development for teachers" 11/9/20. http://newsstand.clemson.edu/mediarelations/clemson-awarded-3-million-grant-to-develop-ai-powered-professional-development-for-teachers/.

PR.6   Paul Alongi. "New $3-million program could help close skills gap in advanced manufacturing." 9/10/18. http://newsstand.clemson.edu/mediarelations/new-3-million-program-could-help-close-skills-gap-in-advanced-manufacturing/.

PR.5   Frances Parrish. "CBSHS, CAFLS, CECAS, Business faculty named new School of Health Research faculty scholars." 3/28/18. http://newsstand.clemson.edu/cbshs-cafls-cecas-business-faculty-named-new-school-of-health-research-faculty-scholars/.

PR.4   Shannon Keeler. "Two Eagles transoceanic balloon trek has Fulton engineering connection." Full Circle. 1/29/15

http://fullcircle.asu.edu/research/two-eagles-transoceanic-balloon-trek-has-fulton-engineering-connection/.

PR.3    Amelia Huggins. "ASU, NGA to address national security risks of climate change." ASU News Science & Tech. 6/18/14 https://asunews.asu.edu/20140618-asu-nga-address-climate-change.

PR.2    Mark Harris. "Second Life beats real life for collaboration" TechRadar. 9/28/08 http://www.techradar.com/us/news/internet/second-life-beats-real-life-for-collaboration-471985.

PR.1    "IST student, faculty examine problem solving in Second Life" Penn State News. 9/22/08 http://news.psu.edu/story/183485/2008/09/22/ist-student-faculty-examine-problem-solving-second-life.

## Keynote & Plenary Presentations:

KEY.3    Human-Centered AI & Teaming: A Path Forward. 2023 Penn State College of IST Alumni Symposium. October 2023.

KEY.2    Human-Centered AI & Teaming: A Path Forward. 2023 Clemson University Research Symposium. May 2023.

KEY.1    Artificial Intelligence for Improving the Design of Healthcare Spaces. International Nursing Conference for Excellence in Healthcare Design. July 2021.

## Presentations (Invited, Conference, & Program Reviews):

PRE.55   Creating Human-Centered Artificial Intelligence. Clemson Board of Trustees. October 2023.

PRE.55   The Spread of Trust and Distrust in Distributed Human-Autonomy Teaming Constellations Year 2. Air Force Office of Scientific Research Trust and Influence Annual Program Review Meeting. August 2023.

PRE.54   Considerations of Ethical and Unethical Behavior on Trust in Human-Autonomy Teaming Year 3. Air Force Office of Scientific Research Trust and Influence Annual Program Review Meeting. August 2023.

PRE.53   Ethical Dilemmas in Human-AI Teaming: Considerations for a Path Forward. DoD Workshop on Ethics in AI. February 2023.

PRE.52   Key Criteria and Challenges for Human-Autonomy/AI Teaming. United Nations. January 2023.

PRE.51   Human-Autonomy Teaming: Metaphor or Reality? Clemson AMFG 6200. November 2022.

PRE.50 Promoting Human Interpretation and Interaction to Mitigate Bias in Artificial Intelligence Year 2. Office of Naval Research Annual Program Review Meeting. September 2022.

PRE.49 Connecting and Leveraging Physical and Digital Dimensions to Advance Human-Autonomy Teaming. Office of Naval Research Annual Program Review Meeting. September 2022.

PRE.48 The Spread of Trust and Distrust in Distributed Human-Autonomy Teaming Constellations Year 1. Air Force Office of Scientific Research Trust and Influence Annual Program Review Meeting. September 2022.

PRE.47 Considerations of Ethical and Unethical Behavior on Trust in Human-Autonomy Teaming Year 2. Air Force Office of Scientific Research Trust and Influence Annual Program Review Meeting. September 2022.

PRE.46 Human-Autonomy Teaming: Metaphor or Reality? Clemson AMFG 6200. October 2021.

PRE.45 Promoting Human Interpretation and Interaction to Mitigate Bias in Artificial Intelligence. ONR Annual Program Review Meeting. September 2021.

PRE.44 Human-Autonomy Teaming: Metaphor or Reality? Boeing Human Factors Community of Excellent. August 2021.

PRE.43 Considerations of Ethical and Unethical Behavior on Trust in Human-Autonomy Teaming Year 1. AFOSR Annual Program Review Meeting. August 2021.

PRE.42 The Spread of Trust and Distrust in Distributed Human-Autonomy Teaming Constellations Kickoff. AFOSR Annual Program Review Meeting. August 2021.

PRE.41 Examining the Relationship Between an Autonomous Teammate's Ethical Decision Making and Trust. American Psychological Association's Conference on Technology, Mind & Society 2021.

PRE.40 Adventures and Explorations of Human-Centered Artificial Intelligence. Dahlonega Science Festival 2020.

PRE.39 Perspectives and Trajectories on Team Cognition in Human-AI Teaming. Presented to Clemson AMFG 6800. October 2019.

PRE.38 The Good, The Bad, & The Ugly: Principles of Human-Centered Design. Presented to Clemson CPSC 4150/6150. September 2019.

PRE.37 Perspectives and Trajectories on Team Cognition in Human-AI Teaming. Presented to Georgia Tech Engineering Psychology. April 2019.

PRE.36 A Fireside Chat with Nathan McNeese on Teaming and Artificial Intelligence. April 2019. Digital Health SE. Greenville, SC.

PRE.35 Should I Trust My Team Member? Understanding the Role of Trust in Human-Autonomy Teaming. January 2019. 2019 Hawaii International Conference on System Science (HICSS). Maui, HI.

PRE.34 Insights, Theories, and Models for Human-Agent Teaming from the Organizational and Psychological Science Literature (Tom O'Neill presenter, McNeese co-author). January 2019. 2019 Hawaii International Conference on System Science (HICSS). Maui, HI.

PRE.33 The Intersections of Teaming, Qualitative Research, and Artificial Intelligence. Presented to Clemson University Business Anthropology. November 2018.

PRE.32 Perspectives and Trajectories on Team Cognition in Human-AI Teaming. Presented to Clemson University Industrial Engineering. November 2018.

PRE.31 The What, Why, and How of Teamwork: New Frontiers in Teaming. Presented to Clemson CPSC 4910 Section 1. October 2018.

PRE.30 The What, Why, and How of Teamwork: New Frontiers in Teaming. Presented to Clemson CPSC 4910 Section 2. October 2018.

PRE.29 Human Autonomy-Teaming in Remotely Piloted Aircraft Systems Under Degraded Conditions (with Cooke & Gorman). Presented at 2018 Science of Autonomy Program Review Meeting.

PRE.28 Collaborative Approaches to Improving Health-related Quality of Life, Fatigue, and Coping Skills of Adolescent and Young Adult Cancer Patients (with Shin). Presented at to Greenville Health System Nursing Research Committee. June 2018.

PRE.27 Perspectives and Trajectories on Team Cognition in Human-AI Teaming. Presented to Duke University Mechanical Engineering & Computer Science. April 2018.

PRE.26 The What, Why, and How of Teamwork: New Frontiers in Teaming. Presented to Clemson CPSC 4910. March 2018.

PRE. 25 Macrocognition in the Health Care Built Environment: A New Model for Emergency Response Extending Macrocognition Results in the Inpatient Setting to the Mexico 2017 Earthquake Disaster. 2018 Human Factors and

Ergonomics in Health Care Symposium. March 2018. Boston, MA.

PRE.24 Team Cognition & Collaboration in the Healthcare System. Presented to 2017 Academy of Nursing Excellence in Design Summit. October 2017. Clemson, SC.

PRE.23 A Transdisciplinary Approach to Teamwork: Improving Systems through Team Cognition in Multiple Sociotechnical Settings. Presented to The Human Systems Engineering Program. Arizona State University. February 2017. Mesa, AZ.

PRE.22 A Transdisciplinary Approach to Teamwork: Improving Sociotechnical Settings through Team Cognition and Human-Centered Collaborative Technology. Presented to The School of Computing. Clemson University. February 2017. Clemson, SC.

PRE.21 Improving Healthcare Systems Through Team Cognition and Human-Centered Collaborative Technology. Presented to The Department of Biomedical Informatics. Vanderbilt University. February 2017. Nashville, TN.

PRE.20 A Transdisciplinary Approach to Teamwork: Improving Systems through Team Cognition in Multiple Sociotechnical Settings. Presented to The Department of Systems & Industrial Engineering. University of Arizona. February 2017. Tucson, AZ.

PRE.19 A Transdisciplinary Approach to Teamwork: Improving Systems through Team Cognition in Multiple Sociotechnical Settings. Presented to The Department of Industrial & Systems Engineering. University of Wisconsin-Madison. January 2017. Madison, WI.

PRE.18 Teamwork and Collaboration: Perspectives of Information Science, Human Factors, Human Computer Interaction, and Computer Supported Cooperative Work. Presented at ASU Human Systems Engineering Brown Bag. September 2016. Mesa, AZ.

PRE.17 Knowledge Elicitation Methods for Developing Insights into Team Cognition During Team Sports. Presented at the 2016 AHFE Annual Conference, July 2016. Orlando, FL.

PRE.16 Team Cognition As A Mechanism For Developing Collaborative and Proactive Decision Support in Unmanned Aerial Systems. Presented at the 2016 HCII Annual Conference, July 2016. Toronto, CA.

PRE.15 Improving Cancer Care Coordination Through Team Science. Presented at the Science of Team Science (SciTS) 2016 Conference, May 2016. Phoenix,

AZ.

PRE.14 Concept Mapping as a Methodology to Develop Insights on Cognition During Collaborative Information Seeking. Presented at 2015 Human Factors an Ergonomics Annual Meeting, October 2015. Los Angeles, CA.

PRE.13 Articulating and Understanding the Development of a Team Mental Model in a Distributed Medium. Presented at 2015 Human Factors an Ergonomics Annual Meeting, October 2015. Los Angeles, CA.

PRE.12 Methodologies and Theories for Studying Team Cognition In Sports. Presented at the 2015 AHFE Annual Conference, July 2015. Las Vegas, NV.

PRE.11 How Do Teams Collaborate? The Importance of Team Cognition During Collaborative Information Seeking. Presented at ASU Research Brown Bag, March 2015.

PRE.10 The Role of Team Cognition in Collaborative Information Seeking During Team Decision-Making. Presented at Penn State Dissertation Defense, November 2014. University Park, PA.

PRE.9 Towards a Team Mental Model of Collaborative Information Seeking During Team Decision-Making. Presented at 2014 HFES Annual Meeting, October 2014. Chicago, IL.

PRE.8 Studying Team Cognition during Collaborative Information Seeking. Presented at 16th Annual CSCW conference, February 2013. San Antonio, TX.

PRE.7 The Role and Effect of Experience and Diversity on Collaboration. Presented to IST 541, December 2011. University Park, PA.

PRE.6 Health Information Technology: An Overview, Presented to IST 501, December 2011. University Park, PA.

PRE.5 Health Informatics Information Challenges. Presented to IST 501, September 2011. University Park, PA.

PRE.4 The Development of a Collaborative Space: IST CollabSPACE. Presented to IST 521, April 2011. University Park, PA.

PRE.3 The Learning of Database and Web Programming Concepts Through End User Programming. Presented to IST 511, December 2010. University Park, PA.

PRE.2 Rural Hospitals Adoption of Health Information Technology. Presented to IST 531, December 2010. University Park, PA.

PRE.1 Team Performance in Real and Virtual Worlds: The Perceived Value of Second Life. Presented at the 2008 HFES Annual Meeting, October 2008. New York, NY

## Student Advising

### *As an Assistant Professor at Clemson University*

#### PhD Students Graduated (Chair)

2017-2019 Lorenzo Barberis Canonico, Human-Centered Computing
Dissertation Title: *"Human-Machine Teamwork: An Exploration of Multi-Agent Systems, Team Cognition, and Collective Intelligence"*
Current Position: Postdoc at Stanford University

2019-2022 Geoff Musick, Human-Centered Computing
Dissertation Title: *"Developing and Facilitating Temporary Team Mental Models Through an Information-Sharing Recommender System"*

2019-2023 Christopher Flathmann, Human-Centered Computing
Dissertation Title: *How to Make Agents and Influence Teammates: Understanding the Social Influence AI Teammates Have in Human-AI Teams*

#### Current PhD Students (Chair)

2018-2023 Rui Zhang, Human-Centered Computing (*Dissertation Focus: Communication in Human-AI Teams*)

2019-2023 Beau Schelble, Human-Centered Computing (*Dissertation Focus: Team Cognition in Human-AI Teams*)

2020- Rohit Mallick, Human-Centered Computing (*Dissertation Focus: Emotions and Creativity in Human-AI Teaming*)

2021- Allyson Hauptman, Human-Centered Computing (*Dissertation Focus: Levels of Autonomy In Human-AI Teaming*)

2022- Cailtin Lancaster, Human-Centered Computing (*Dissertation Focus: Training In Human-AI Teaming*)

2022- Elizabeth Gilman, Human-Centered Computing (*Dissertation Focus: Bias and Ethics In Human-AI Teaming*)

2022- Jasmine McKeller, Human-Centered Computing (co-advised with Prof. Kelly Caine)

| 2022- | Camden Brady, Industrial Engineering (co-advised with Prof. Kapil Madathil) (*Dissertation Focus: TBD;*) |

***Service as Academic Committee Member (Not as Chair)***

<u>PhD Committee- Current</u>

| 2020- | Lingyuan Li, Human-Centered Computing (Clemson) |

| 2021- | Makayla Moster, Computer Science (Clemson) |

| 2022- | Lijie Guo, Human-Centered Computing (Clemson) |

| 2022- | Ibrahim Oluwajoba Adisa, Learning Sciences (Clemson) |

| 2023- | Heather Watkins, Psychology (Clemson) |

| 2023- | Owen Carter, Psychological Science (The University of Western Australia) (External Examiner) |

<u>PhD Committee- Graduated</u>

| 2021- | Matt Chambers, Rhetorics, Communication, and Information Design (Clemson) Dissertation: *"Data In-Form: Measuring The Effect Of Visualization Rhetoric"* |

| 2021- | Alex Adkins, Human-Centered Computing (Clemson) Dissteration: *"The Importance of Hand Motions for Communication and Interaction in Virtual Reality"* |

| 2021-2022 | Moses Namara, Human-Centered Computing (Clemson) Dissertation: *"Evaluating Privacy Adaptation Presentation Methods to support Social Media Users in their Privacy-Related Decision-Making Process"* |

| 2018-2020 | Yifang Li, Human-Centered Computing (Clemson) Dissertation: *"Investigating Obfuscation as a Tool to Enhance Photo Privacy on Social Networks Sites"* |

| 2014-2017 | Mustafa Demir, Simulation, Modeling, and Applied Cognitive Science (ASU) Dissertation: *"The Impact of Coordination Quality on Coordination Dynamics and Team Performance: When Humans Team with Autonomy"* |

<u>Current Postdocs</u>

| 2022- | Wen Duan- PhD, Communication & Human Computer Interaction, Cornell University |

| 2022- | Subhasree Sengupta- PhD, Information Science  Technology, Syracuse University |

## Masters- Graduated

2020-2022    Brighton Owen, Mechanical Engineering (Clemson)

2018-2019    James Dominic, Computer Science (Clemson) Masters Thesis: *"Exploring Effects of Spatial and Screen Space Annotation on Navigation in Virtual Reality"*

2018-2019    Mavi Elena, Mechanical Engineering (Clemson) Masters Thesis: *"Understanding Requirement Generation: Studies on Interventions and Comparison between Novices and Experts"*

2014-2017    Michael Fedele, Human Systems Engineering (ASU) Masters Thesis: *"Synchrony: Biological Indicators of Team Cognition in Three Person Task Teams"*

## Masters Students

2023-    Siddharth Malladi- MS, Computer Science

2023-    Swapnil Srivastava- MS, Computer Science

2022-    Rishav Karanjit- MS, Computer Science; co-advising with Vidya Samadi

2020-2023    John Henke- MS, Industrial Organizational Psychology (*University of Calgary*); Co-advising with Prof Tom O'Neill

2019-2021    Nirali Bandaru- MS, Computer Engineering

## Undergraduate Students

2017-2020    Alfred Blando- BS, Mathematics (*Calhoun Honors College; multiple projects: 10 hours/week*)

2018-2019    Jake Armstrong- BS, Communications (*Calhoun Honors College; multiple projects: 10 hours/week*)

2019-2020    Sarah Morrison- BS, Computer Science (*multiple projects: 10 hours/week*)

2020    John Paul Lineberger- BS, Bioengineering (*multiple projects: 10 hours/week*)

2018-2019    Beau Schelble- BS, Psychology (*Calhoun Honors College; multiple projects: 10 hours/week*)

2020    Mari Kilgus- BS, Psychology & Computer Science (*multiple projects: 5 hours/week*)

2017-2020    Rafael Dejesus- BS, Computer Science (*multiple projects: 10 hours/week*)

2018-2020    Mark Blasko- BS, Computer Science (*multiple projects: 10 hours/week*)

2018-2020    Casey Hird- BS, Computer Engineering (*multiple projects: 10 hours/week*)

2019-2022    Steve Russell- BS, Computer Science (*multiple projects: 10 hours/week*)

2019-2021    Dylan Cathapermal- BS, Computer Science (*multiple projects: 10 hours/week*)

2020-2021    Jack Carroll- BS, Computer Science (*multiple projects: 5 hours/week*)

2020-2022    Wesley Everett- BS, Computer Science ( *UPIC Intern*)

2020-2022    Richard Garcia- BS, Computer Science ( *UPIC Intern*)

2020-2021    Top Lee- BS, Computer Science ( *multiple projects: 10 hours/week*)

2020         Jada Houser- BS, Computer Science (*UPIC Intern*)

2020-        Joshua Little- BS, Computer Science (*multiple projects: 10 hours/week*)

2021-        Alyssa Williams BS, Computer Science ( *multiple projects: 10 hours/week*)

2021-        Christian Ihekweazu BS, Computer Science
             (*multiple projects: 10 hours/week*)

2022-        Noah Taverez BS, Computer Science
             (*multiple projects: 10 hours/week*)

2022-        Jake Macdonald BS, Computer Science (*multiple projects: 10 hours/week*)

Honors Contracts

2019         Lake Summers- BS, Computer Science (CPSC 4910)

2020         Matt Franchi- BS, Computer Science (CPSC 2910)

***As a Postdoctoral Scholar & Reserach Assistant at Arizona State University***
PhD Students

2014-2017    Mustafa Demir- PhD, Simulation, Modeling, and Applied Cognitive Science

2015-2016    Saliha Akca-Hobbins- PhD, Simulation, Modeling, and Applied Cognitive
             Science

2015-2017    Sandra Hinski- PhD, Simulation, Modeling, and Applied Cognitive Science

2014-2017    Verica Buchanan- PhD, Simulation, Modeling, and Applied Cognitive
             Science

Masters Students

2015-2017    Michael Fedele- MS, Human Systems Engineering

2015-2017    Jade Best- MS, Human Systems Engineering

2016-2017    Carrie Russell- MS, Human Systems Engineering

2015-2016    Cade Bartlett- MS, Human Systems Engineering

2016          Kyle Walter- MS, Human Systems Engineering

2016          Alec Wightman- MS, Human Systems Engineering

2015          Joe O'Brian- MS, Human Systems Engineering

2015-2016    Rachel Howes- MS, Human Systems Engineering

Undergraduate Students

2016-2017    Bryant Armistead- BS, Human Systems Engineering

2015-2017    Hailey Torres- BS, Human Systems Engineering

2016          Lais Goncalves de Lima- BS

2015          Serena Mata- BS, Human Systems Engineering

2015          Pamela Coleman- BS, Human Systems Engineering

*As a PhD Student at Pennsylvania State University*
2011-2014    Evan Friedenberg- BS, Information Sciences and Technology (*Penn State Schreyer's Honors College*)

2011-2012    Kelsey Bailey- BS, Information Sciences and Technology, Political Science

2011          Michael Cwenar- BS, Information Sciences and Technology

2011          Greg Traylor- BS, Information Sciences and Technology

**Teaching Experience**

**Clemson University**

New Course Development

HCC 8500    *The Science of Teamwork and Technology*

CPSC 3990   *Team Research in Computational Environments*

AMFG 6200   *Collaboration and Teamwork in Manufacturing Systems*

Courses Taught

Fall 2020     **Instructor,** AMFG 4200/6200: Collaboration in Teamwork in Manufacturing
Systems
Fall 20 Students' Instructor Evaluation: 5/5

Spring 2020  **Instructor,** CPSC 1990/3990: Team Research in Computational
Environments
Spring 2020 Students' Instructor Evaluation: N/A due to COVID-19

Spring 2020  **Instructor,** CPSC 2910: Seminar in Professional Issues I (4 sections)
Spring 2020 Students' Instructor Evaluation: N/A due to COVID-19

2018-2021    **Instructor,** CPSC 4140/6140: Human-Computer Interaction
Fall 2021 Students' Instructor Evaluation: 4140- 4.2/5; 6140- 4.2/5
Fall 20 Students' Instructor Evaluation: 4140- 4.76/5; 6140- 4.9/5
Fall 19 Students' Instructor Evaluation: 4140- 4.89/5; 6140- 4.25/5
Fall 18 Students' Instructor Evaluation: 4140- 4.64/5; 6140- 4.67/5

2018-2023    **Instructor,** HCC 8500: The Science of Teamwork and Technology
Spring 2023 Students' Instructor Evaluation:
Spring 2021 Students' Instructor Evaluation: 4.82/5
Spring 2019 Students' Instructor Evaluation: 5/5
Spring 2018 Students' Instructor Evaluation: 4.8/5

Fall 2017     **Co-Instructor,** CPSC 4910: Seminar in Professional Issues II
Students' Instructor Evaluation: 4.67/5

**Arizona State University**

Spring 2017  **Instructor,** HSE 225: Human Systems Integration
Students' Instructor Evaluation: 4.81/5

Spring 2016  **Instructor,** PSY 437: Human Factors
Students' Instructor Evaluation: 4.85/5

Fall 2015     **Instructor,** Psy 399: Individualized Study on Teamwork (Fall 2015)
Students' Instructor Evaluation: N/A

**The Pennsylvania State University**

Spring 2010  **Graduate Teaching Assistant,** IST 301: Information and Organizations
(with Dr. Madhu Reddy & Dr. Carleen Maitland)

**Professional Activities**

**Memberships**

2009-         **Member** Association for Computing Machinery (ACM)

2008-         **Member** Human Factors and Ergonomics Society (HFES)

2018-         **Member** Institute of Electrical and Electronics Engineers (IEEE), since 2018

2018-         **Member** Systems, Man, and Cybernetics Society (SMC)

2009-         **Member** American Psychological Association (APA)

**Reviewing**
*Journals*

2020-         ACM Transactions on Human-Robot Interaction

2015-         Human Factors: The Journal of the Human Factors and Ergonomics Society

2015-         Journal of the Association for Information Sciences and Technology

2015-         ACM Transactions on Computer-Human Interaction (TOHCI)

2015-         Computers in Human Behavior

2017-         International Journal of Human-Computer Studies

2018-         Journal of CSCW

2022-         Applied Artificial Intelligence

2019-         Journal of Computing and Information Science Engineering

2020-         ASME Journal of Computing and Information Science in Engineering

2018-         IEEE Access

2016-         Information Processing and Management

2019-         Applied Ergonomics

2018-         IEEE Transactions on Human-Machine Systems

2019-         Journal of Information Technology & Politics

2019-         Journal of Cognitive Engineering and Decision-Making (JCEDM)

2018-         Ergonomics

2020-         Technology in Society

2019-         Educational Review

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|---|---|
| 2016- | Frontiers in Psychology |
| 2016- | Theoretical Issues in Ergonomics Science |
| 2018- | PLOS One |
| 2018- | Studies in Higher Education |
| 2020- | Computational Intelligence |
| 2018- | Cognition, Technology, & Work |
| 2016- | Journal of Behaviour & Information Technology |
| 2016- | Sport, Exercise, and Performance Psychology |
| 2016- | Small Group Research |
| 2022- | International Journal of Industrial Ergonomics |
| 2022- | Journal of Field Robotics |

*Conferences*

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|---|---|
| 2013- | ACM Conference on Human Factors in Computing Systems (CHI) *Exceptional Reviewer Recognition* |
| 2013- | Human Factors and Ergonomics Society Annual Meeting (HFES) |
| 2015- | ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW) *Exceptional Reviewer Recognition* |
| 2019- | AIS Conference of Americas Conference on Information Systems |
| 2018 | ACM Conference on Designing Interactive Systems (DIS) |
| 2018 | HFES CEDM Best Student Paper |
| 2020 | IEEE International Conference on Human-Machine Systems |
| 2018- | Hawaii International Conference on System Sciences (HICSS) |
| 2020- | ACM/IEEE International Conference on Human Robot Interaction (HRI) |
| 2020 | Military Health System Research Symposium |
| 2022- | ACM Symposium on User Interface Software and Technology (UIST) |

*Funding Agencies*

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|---|---|
| 2023- | NWO, Dutch Research Council |

2022-        The Royal Society (UK National Academy of Science)

2018-        NASA, both as panelist and chair

2023-        National Science Foundation, Mind, Machine and Motor Nexus

2020-        National Science Foundation, Information Integration and Informatics

2021-        National Science Foundation, Human-Centered Computing

2020-        National Science Foundation Graduate Research Fellowship Program

2021-        United States Army (multiple divisions)

2023-        Office of Naval Research

*Book Proposals*
2018        John Wiley & Sons, Inc.- proposal related to human factors engineering

*Editorial Boards*
2023-        Journal of Business and Psychology

2017-        Human Factors: The Journal of the Human Factors and Ergonomics Society

2018-        IEEE Press Series on Human-Machine Systems

2019-        IET Collaborative Intelligent Manufacturing

*Associate Editor*
2019-        IET Collaborative Intelligent Manufacturing

2020-        IEEE Systems, Man, and Cybernetics

*Special Issue Editor*
2022        *21st Century Teaming and Beyond: Advances in Human-Autonomy Teamwork*, Computers in Human Behavior, Co-Editors: Thomas O'Neill & Eduardo Salas

2022        *The Emerging Cognitive Science of Human-Autonomy Teams*, Topics in Cognitive Science, Co-Editors: Christopher Myers, Jamie Gorman,  Nancy Cooke

2022        *Human-AI Teaming*, Journal of Cognitive Engineering and Decision Making, Co-Editors: Mica Endsley & Nancy Cooke

*Professional Community/National Service*
2023-        CHI Program Committee Member

2023-        External Tenure Letter Writer (multiple times)

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| 2021- | NSF NRT Mentor |
| 2022- | Member, HFES Alphonse Chapanis Best Student Paper Award Committee (multiple times) |
| 2021 | Member, National Academy of Science Committee on Human-Systems Integration Research |
| 2019 | Organizer, Workshop on Interactive Team Cognition in Distributed and Heterogenous Human-Autonomy Systems |
| 2018-2020 | Member, Army Research Lab Human Research & Engineering Technical Advisory Board |
| 2018 | Member, National Academy of Science Panel on Human Factors Science |
| 2018 | HFES CEDM Mentorship Program (Mentor) |
| 2017 | HFES CEDM Mentorship Program (Mentor) |
| 2017 | Invited Panelist for Nursing Innovation Summit |
| 2017 | Chair of Analyzing Teams Session at HFES |
| 2017 | Chair of Human-Robot Teaming Session at AHFE |
| 2016 | Chair of Teamwork Session at HFES |
| 2016 | Participant in NCI-ASCO Teams in Cancer Care Delivery Workshop |
| 2015 | Chair/Organizer of Panel on Intelligence Analysis at HFES |
| 2015 | Invited Participant for the Future of Proactive & Adaptive Decision Support (Future PADS) (ONR) |
| 2013 | Student Volunteer for 2013 ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW) |

*Society/International Service*

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|---|---|
| 2021 | IEEE Human-Machine Systems Conference Program Committee/Associate Editor |
| 2021 | ACM Southeast (ACMSE) Conference Program Committee |
| 2020 | ACM/IEEE Winter Simulation Conference Program Committee |
| 2020 | IEEE SMC CSCWD Program Committee |

| 2020 | IEEE SMC Computer Supported Cooperative Work in Design Technical Committee |
|---|---|
| 2020 | Super Track Chair of Human Factors in IEEE Human-Machine Systems Conference |
| 2020 | IEEE Human-Machine Systems Conference Steering Committee |
| 2019 | IEEE Mentor |

**University Service**

*University Service/Representation*
*Clemson University*

| 2023 | Clemson Elementary STEM Night Faculty Participant |
|---|---|
| 2022-2023 | Member, SoC Director Search Committee |
| 2021-2022 | Chair, CECAS and SoC AI Cluster Hire Search Committee (successfully hired 3 positions) |
| 2021- | Member, SoC Broadening Participation in Computing Committee |
| 2021- | Faculty Advisor, UPE Honors Society |
| 2021 | Member, HCC Chair Administrator Evaluation Committee |
| 2021 | Judge, Clemson Learning Science Poster Competition |
| 2020- | Member, SoC Computing Curriculum Committee |
| 2020- | Member, Undergraduate Affairs Committee |
| 2020 | Member, Pinson Endowed Professorship Search Committee |
| 2020-2021 | Advisor, UPIC Internship Program |
| 2020- | Mentor/Instructor, Creative Inquiry Program |
| 2020- | Member, Clemson Artificial Intelligence Research Institute for Science and Engineering (AIRISE) |
| 2020 | Mentor, Clemson Learning Sciences Research Networking |
| 2020 | Invited and Hosted Dr. Eric Vorm for School of Computing Seminar Series |
| 2019- | TIGER Advocate (Promoting gender equality and diversity in academia) |

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|---|---|
| 2019- | Member, School of Computing Recruiting & Admissions Committee |
| 2018- | Director, TRACE Boot Camp for Programming |
| 2018-2021 | Advisor, School of Computing Graduate Student Association |
| 2018- | Faculty Mentor, Clemson HFES Student Chapter |
| 2017- | Reviewer, Multiple Internal Clemson Funding Initiatives |
| 2017 | Member of HCC Faculty Search Committee |
| 2017- | Member of HCC Portfolio Review Committee |
| 2017- | Member of HCC Graduate Recruiting Committee |
| 2018-2019 | Assisted in Civil Engineering Faculty Candidate Search |
| 2018 | Invited and Hosted Dr. Nancy Cooke for TIGERS ADVANCE Distinguished Speaker Series |
| 2018- | Member of Business Anthropology & Human Behavior Curriculum Committee |

*Arizona State University*

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| 2016 | Fulton Day in the Life Lab Demo |
| 2015-2016 | Night of the Open Door Lab Demo |
| 2016-2017 | Co-Director of the Industrial Advisory Board for Human Systems Engineering |
| 2016-2017 | Planning Taskforce for Human Systems Engineering |
| 2016-2017 | Mentor to HFES Student Chapter |
| 2015-2017 | Faculty Host for Prospective Graduate Students |

*Pennsylvania State University*

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|---|---|
| 2010-2014 | Student Host for Prospective Graduate Students |
| 2013 | Judge for The Graduate Exhibition |

**Honors & Awards**

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|---|---|
| 2023 | Invited Presentation to Clemson Board of Trustees |

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|---|---|
| 2023 | The Pennsylvania State University College of Information Sciences and Technology Overall Outstanding Alumni Award |
| 2023 | HFES William C. Howell Young Investigator Award |
| 2023 | Journal of Cognitive Engineering and Decision Making Best Article of the Year Award |
| 2023 | NSF CAREER Award |
| 2023 | Clemson University President's Leadership Institute Member |
| 2023- | McQueen Quattlebaum Endowed Professorship |
| 2023 | ACM GROUP Honorable Mention Best Paper Award (Paper 2) |
| 2023 | ACM GROUP Honorable Mention Best Paper Award (Paper 1) |
| 2022 | Clemson University Professor of the Game (October 1, 2022) |
| 2022 | Clemson Board of Trustees "Focus on Faculty" Recognition |
| 2022 | Clemson University Junior Faculty Researcher of the Year |
| 2022 | College of Engineering, Computing and Applied Sciences Junior Faculty Researcher of the Year |
| 2022 | College of Engineering, Computing and Applied Sciences Nominee for Clemson University Junior Faculty Researcher of the Year |
| 2021-23 | College of Engineering, Computing and Applied Sciences Dean's Professor |
| 2021 | Member, National Academy of Science Committee on Human-Systems Integration Research |
| 2021 | HICSS Best Paper Nomination |
| 2020 | ACM CSCW Honorable Mention Best Paper Award |
| 2020 | Overall Best Paper Award for International Conference on Human-Agent Interaction (HAI) |
| 2020 | Top Papers of International Conference on Human-Agent Interaction (HAI) |
| 2020-2021 | Invited Chair, NASA Scientific Research Panel |
| 2019 | Member, Army Research Lab Human Research & Engineering Technical Advisory Board |

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| 2019-2020 | Member, National Academy of Science Panel on Human Factors Science |
| 2019 | Lee Dirks Award for Best Full Research Paper Nomination at iConference |
| 2018 | Clemson Human Factors Institute Director's Award |
| 2018-2020 | Watt Faculty Fellow |
| 2018- | CUSHR Faculty Scholar |
| 2018 | Invited Participant in CRA Computing Community Consortium Early Career Researcher Symposium |
| 2016-2017 | AZ Computing Postdoc Best Practice Fellow (NSF Sponsored) |
| 2017 | ASU institutional endorsement for MacArthur Foundation 100&Change proposal (McNeese PI) |
| 2016 | Cogsima Conference Best Paper Award |
| 2011 | Center for Integrative Healthcare Delivery Scholar |
| 2009 | Penn State College of IST Night of Honors- Acknowledgement for Outstanding Research Assistant |
| 2010-2014 | NSF CAREER Grant Graduate Research Assistantship |
| 2007-2009 | Psi Chi Honor Society Member |
| 2006-2009 | Multiple Dean's List as Undergrad |