Rohit Mallick, Ph.D.



Postdoctoral Research Associate
Assistant Director, *Organizational Teams & Technology Research Society (OTTRS)*

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Short Biography

Rohit Mallick is a Postdoctoral Research Associate working alongside Dr. Susannah Paletz within the College of Information at the University of Maryland, College Park (UMD). Within UMD, Rohit has joined several interdisciplinary groups, including the Organizational Teams and Technology Research Society (OTTRS), Artificial Intelligence Interdisciplinary Institute at Maryland (AIM), Trustwrothy AI in Law & Society (TRAILS), and more. Prior to this appointment, Dr. Mallick received his Ph.D. in Human-Centered Computing from Clemson University under the advisement of Dr. Nathan J. McNeese. On the recommendation of the Faculty, the School of Computing conferred the award of Outstanding Ph.D. Student in Human-Centered Computing to Dr. Mallick in recognition of his achievements in grantwork, publications, and service to Clemson. Throughout the past six years, Dr. Mallick has worked on funded grants from the United States Army Combat Capabilities Development Command (CCDC), the Office of Naval Research (ONR), the National Science Foundation (NSF), and the Air Force Office of Scientific Research (AFOSR). Dr. Mallick has leveraged these grants to make notable contributions to the fields of human-AI teaming (HAT), human-computer interaction (HCI), human factors, and computer-supported collaborative work (CSCW). To date, Dr. Mallick has produced 9 journal articles, 15 conference papers, a technology disclosure, 14 conference presentations, and 14 research posters as a mixed-methods researcher of qualitative and quantitative methods. Along with his research accomplishments, he has consistently taken on leadership roles within OTTRS as the Assistant Director, at TRACE as the Undergraduate Student Coordinator (2023), and as Lead Ph.D. Student (2024) to mentor incoming students in the nuances of academic research. Boasting research experience for over ten years via previous internships/assistantships at the United States Army Research Laboratory and Purdue University's Computational Cognitive Neuroscience Laboratory, Dr. Mallick actively works to provide diverse perspectives in the design of AI technologies to promote the well-being of their human collaborators.

CURRICULUM VITAE

Rohit Mallick, Ph.D.

Postdoctoral Research Associate
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Education

Ph.D. **Human-Centered Computing**. School of Computing, College of Engineering, Computing and Applied Sciences. Clemson University. May 2025
(Advisor: Nathan J. McNeese)

B.S. **Brain and Behavioral Sciences**. Department of Psychological Sciences, College of Health and Human Sciences. Purdue University. May 2020
Minor: Computer Science

Appointments

Primary

2025- **Postdoctoral Research Associate**, College of Information, University of Maryland, College Park.
Mentor: Dr. Susannah B. F. Paletz

2020-2025 **Graduate Research Assistant**, *Team Research Analytics in Computational Environments (TRACE) Research Group*. School of Computing, College of Engineering, Computing and Applied Sciences (CECAS). Clemson University.
Lab Director: Dr. Nathan McNeese
https://computing.clemson.edu/trace/

2018-2020 **Undergraduate Research Assistant**, *Purdue Laboratory of Computational Cognitive Neuroscience (CCN)*. Department of Psychological Sciences, College of Health and Human Sciences. Purdue University.
Lab Director: Dr. Sébastien Hélie https://ccn.psych.purdue.edu/

Secondary

2026- **Assistant Director**, *Organizational Teams & Technology Research Society (OTTRS)*. College of Information, University of Maryland, College Park.
Director: Dr. Susannah Paletz https://ottrs.info.umd.edu/

2020*, 2018* & 2016* **Summer Journeyman Fellow**, *Oak Ridge Institute of Science and Education (ORISE)*. Contracted to the Human Research and Engineering Directorate (HRED), U.S. Army Research Laboratory (ARL). Aberdeen Proving Ground (APG), Maryland.

2019* **Journeyman Fellow**, *Oak Ridge Institute of Science and Education (ORISE)*. Contracted to the Human Research and Engineering Directorate (HRED), U.S. Army Research Laboratory (ARL). Aberdeen Proving Ground (APG), Maryland.

2017* **College Qualified Leaders (CQL)**, *U.S. Army Research Laboratory (ARL)*. Employed at the Human Research and Engineering Directorate (HRED). Aberdeen Proving Ground (APG), Maryland.

2015*, 2014* **Science and Engineering Apprenticeship Program (SEAP)**, *U.S. Army Research Laboratory (ARL)*. (2015) Employed at the Human Research and Engineering Directorate (HRED). Aberdeen Proving Ground (APG), Maryland. (2014) Employed at the Sensors and Electron Devices Directorate (SEDD). Adelphi, Maryland.

Note: * Signifies a summer internship

Grant Work and Funded Projects

Funded Work as a Co-Principal Investigator (Co-PI):

2025-2026 ″AI + X″ Track: AI in Teams **Artificial Intelligence Interdisciplinary Institute at Maryland (AIM) Course Development Grant**. (PI: Susannah Paletz. $10,000. *(Awarded))*

Writing Support and Development:

2025- An Offensive and Defensive Strategy to Human-AI Teaming: Amplifying and Combating Catastrophic Teamwork Breakdowns to Bolster Human-AI Teams. **Air Force Office of Scientific Research (AFOSR)**. (PI: Nathan McNeese. $850,000. *(Awarded))*

Projects employed under as a Postdoctoral Research Associate:

2025- Collaborative Research Agreement: Contextualized Human-Agent System for Intelligence Activities (CHASIA). **Army Research Office (ARO)**. (PI: Susannah Paletz).

Projects employed under as a Graduate Research Assistant:

2024-2025 Considerations of Ethical and Unethical Behavior on Trust in Human-Autonomy Teaming. **Air Force Office of Scientific Research (AFOSR)**. (PI: Nathan McNeese. $586,538.)

2024 FW-HTF-RL/Collaborative Research: The Future of Aviation Inspection: Artificial Intelligence and Mixed Reality as Agents of Transformation. **National Science Foundation (NSF).** (PI: Anand Gramopadhye. $1,631,963.)

2023 Human-Centered Dashboard Design and Development for Decision Aid Models. **Office of Naval Research (ONR)** subcontract through **Applied Research Associates (ARA) Inc.** (PI: Nathan McNeese. $196,338.)

2020-2023 Virtual Prototyping in Ground Systems (VIPR-GS): 1.2 Enhanced Situational Intelligence for Off-Road Depot Vehicle through Collaborative Perception and Human-Centered Algorithmic Intent. Ground Vehicle Systems Center (GVSC), **U.S. Army Combat Capabilities Development Command (DEVCOM)**. (PI: Zoran Filipi. $18,450,281.)

Publications

Dissertation (Approved by Committee)

D.1 **Mallick, R.** (May, 2025). Strengthening the Bonds Between Us: An Empirical Investigation of Morale in Human-AI Teams and the Socially Supportive AI Teammates Who Empower it.
Committee: Nathan McNeese, Kapil Chalil Madathil, Guo Freeman, Carlos Toxtli-Hernández

Journal Articles

JA.9 Schelble, B. G., **Mallick, R.**, & McNeese, N.J., (2026). A Mixed Methods Approach to Analyzing the Role of AI Teammates in Transition Phases. *Proceedings of the ACM on Human-Computer Interaction (GROUP)*, 10(1), 1-26. https://doi.org/10.1145/3799438

JA.8 Schelble, B.G., **Mallick, R.**, Hauptman, A., McNeese, N.J., (2025). Should AI Teammates Give the Answers? Examining the Role of Different Information-Sharing Techniques on Team Cognition in Human-AI Teams. *International Journal of Human-Computer Interaction*, 1-26. https://doi.org/10.1080/10447318.2025.2528988

JA.7 Hauptman, A., Schelble, B.G., Flathmann, C., **Mallick, R.**, Macdonald, J.P., McNeese, N.J., (2025). Ethical Adaptation: Exploring the Use of Adaptive Autonomy in the Design of Ethical AI Teammates in Healthcare. *AI and Ethics*, 1-18. https://doi.org/10.1007/s43681-025-00782-w

JA.6 Lancaster, C.M., Duan, W., **Mallick, R.**, & McNeese, N.J. (2025). Human-Centered Team Training for Human-AI Teams: From Training with AI Tools to Training for AI Teammates. *Proceedings of the ACM on Human-Computer Interaction*, 9(2), 1-38. https://doi.org/10.1145/3710998

JA.5 **Mallick, R.**, Flathmann, C., Duan, W., Schelble, B.G., & McNeese, N.J. (2024). What you say vs what you do: Utilizing positive emotional expressions to relay AI teammate intent within human-AI teams. *International Journal of Human-Computer Studies*, 103355. https://doi.org/10.1016/j.ijhcs.2024.103355

JA.4 Hauptman, A.I., **Mallick, R.**, Flathmann, C., & McNeese, N.J. (2024). Human factors considerations for the context-aware design of adaptive autonomous teammates. *Ergonomics*, 1-17. https://doi.org/10.1080/00140139.2024.2380341

JA.3 **Mallick, R.**, Flathmann, C., Lancaster, C.M., Hauptman, A., McNeese, N.J., & Freeman, G. (2023). The pursuit of happiness: the power and influence of AI teammate emotion in human-AI teamwork. *Behaviour & Information Technology*, 1-25. https://doi.org/10.1080/0144929X.2023.2277909

JA.2 Flathmann, C., Schelble, B.G., Rosopa, P.J., McNeese, N.J., **Mallick, R.**, & Madathil, K.C. (2023). Examining the impact of varying levels of AI teammate influence on human-AI teams. *International Journal of Human-Computer Studies*, 177, 103061. https://doi.org/10.1016/j.ijhcs.2023.103061

🏆 JA.1 Schelble, B.G., Flathmann, C., McNeese, N.J., Freeman, G., & **Mallick, R.** (2022). Let's Think Together! Assessing Shared Mental Models, Performance, and Trust in Human-Agent Teams. *Proceedings of the ACM on Human-Computer Interaction. GROUP.* (Vol. 6, No. 13, pp. 1-29) Association of Computing Machinery (ACM). https://doi.org/10.1145/3492832
***Honorable Mention Paper Award**

Under Review

UR.1 Li, W., **Mallick, R.**, Aly, H., Weng, N., Toxtli-Hernandez, C., Flathmann, C., McNeese, N.J., Gramopadhye, A., Madathil, K.C., Nanda, G., Lercel, D., Johnson, K., Patankar, M., (Under Review). Balancing Autonomy and Explainability of AI Systems in Virtual Environments. *User Modeling and User-Adapted Interaction(UMUAI), The Journal of Personalization Research*

Works in Progress

WIP.5 Mayo-Johnson, G., **Mallick, R.**, & Paletz, S.B.F., (Work in Progress). Measuring the Impact and Influence of AI Explainability Techniques and External Endorsements within Human-AI Interaction. *The 19th International Conference on Social Computing, Behavioral, Cultural Modeling & Prediction and Behavior Representation in Modeling and Simulation (SBP-BRiMS)*

WIP.4 Paletz, S.B.F., Kane, A.A., **Mallick, R.**, Diep, M., Vahlkamp S.H., & Porter, A., (Work in Progress). A Test of AI Summarizers on Perceived Workload in a Distributed Intelligence Analysis Task. *Human Factors*

WIP.3 **Mallick, R.**, Aly, H., Ihekweazu, C., Guynup, C., Schelble, B., Flathmann, C., McNeese, N. J., (Work in Progress). The Role of Promotional Strategies to Endorse Ethical AI-Teammate Decision-Making in Human-AI Teams. *AI & Ethics*

WIP.2 Basappa, R., **Mallick, R.**, Duan, W., Flathmann, C., Lancaster, C. M., McNeese, N. J., (Work in Progress). Creating the Dream Team: How Real Workers Want AI Teammates to Support Team Cognition. *Behavior & Information Technology (BIT)*

WIP.1 **Mallick, R.**, Nguyen, H., Basappa, R., Lancaster, C., Flathmann, C., McNeese, N. J., (Work in Progress). Bolstering Morale! The Benefits of Social Support Behaviors in Human-AI Teamwork. *Behavior & Information Technology (BIT)*

Conference Papers (Referred):

C.15 **Mallick, R.**, Paletz, S.B.F., Kane, A.A., Do, K., Porter, A.A., Diep, M., & Fabian, C., (2026). Model of Collective Judgment Formation for Sequential Teams in Information-Dense Scenarios. *In Proceedings of the Human Factors and Ergonomics Society Annual Meeting*. Sage CA: Los Angeles, CA: SAGE Publications. https://doi.org/10.1177/10711813261475151

C.14 Do, K., **Mallick, R.**, Kane, A.A., & Paletz, S.B.F., (in-print). Measuring the Sensemaking in Intelligence Analysis Teams. *In Companion Publication of the 2022 Conference on Computer Supported Cooperative Work and Social Computing (CSCW)*

C.13 Basappa, R., **Mallick, R.**, Flathmann, C., McNeese, N.J., (2025). Unlocking Collective Potential: Modelling Creativity in Human-AI Teams. *In Proceedings of the Human Factors and Ergonomics Society Annual Meeting*. Sage CA: Los Angeles, CA: SAGE Publications. https://doi.org/10.1177/10711813251358795

C.12 Basappa, R., Lancaster, C., **Mallick, R.**, Flathmann, C., McNeese, N.J., (2025). Mind the Gaps: How AI shortcomings and Human Concerns May Disrupt Team Cognition in HATs. *In Proceedings of the Human Factors and Ergonomics Society Annual Meeting*. Sage CA: Los Angeles, CA: SAGE Publications. https://doi.org/10.1177/10711813251361002

C.11 Wang, Y., Nguyen, H., **Mallick, R.**, Andre, K., Duan, W., McNeese, N.J., Flathmann, C., (2025). The Cross-effect of Human, AI and Team Resilience. *In Proceedings of the Human Factors and Ergonomics Society Annual Meeting*. Sage CA: Los Angeles, CA: SAGE Publications. https://doi.org/10.1177/10711813251358241

C.10 Schelble, B., Lancaster, C., **Mallick, R.**, McNeese, N.J., Freeman, G., Pak, R., (2024). A Comparative Evaluation of Ad Hoc Team Performance, Effectiveness, and Interactions in Modern Collaborative Technology. *In Proceedings of the Human Factors and Ergonomics Society Annual Meeting*. Sage CA: Los Angeles, CA: SAGE Publications. https://doi.org/10.1177/10711813241280939

C.9 Lancaster, C., Gilreath, H., **Mallick, R.**, McNeese, N.J., (2024). Evaluating Cross-Training's Impact on Perceived Teaming Outcomes for Human-AI Teams *In Proceedings of the Human Factors and Ergonomics Society Annual Meeting*. Sage CA: Los Angeles, CA: SAGE Publications. https://doi.org/10.1177/10711813241262033

C.8 Macdonald, J.P., **Mallick, R.**, Wollaber, A.B., Peña, J.D., McNeese, N.J., & Siu, H.C. (2024). Language, Camera, Autonomy! Prompt-engineered Robot

Control for Rapidly Evolving Deployment. *In Companion of the 2024 ACM/IEEE International Conference on Human-Robot Interaction (pp. 717-721)* https://doi.org/10.1145/3610978.3640671

C.7 **Mallick, R.**, Sawant, S., Brady, C., McNeese, N.J., Madathil, K.C., Bertrand, J. (2023, September). 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* (Vol. 67, No. 1, pp. 1617-1622). Sage CA: Los Angeles, CA: SAGE Publications. https://doi.org/10.1177/21695067231192225

C.6 Sawant, S., **Mallick, R.**, Brady, C., Chalil Madathil, K., McNeese, N., Bertrand, J., Rangaraju, N. (2023, September). Balancing the Scales of Explainable and Transparent AI Agents within Human-Agent Teams. *In Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (Vol. 67, No. 1, pp. 2082-2087). Sage CA: Los Angeles, CA: SAGE Publications. https://doi.org/10.1177/21695067231192250

C.5 Sawant, S., Brady, C., **Mallick, R.**, McNeese, N., Chalil Madathil, K., Bertrand, J. (2023, September). 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* (Vol. 67, No. 1, pp. 1122-1124). Sage CA: Los Angeles, CA: SAGE Publications. https://doi.org/10.1177/21695067231192423

C.4 Musick, G., Schelble, B.G., **Mallick, R.**, & McNeese, N.J., (2023). Selective sharing is caring: Toward the design of a collaborative tool to facilitate team sharing. *Proceedings of the 56th Hawaii International Conference on System Sciences* (pp. 428) https://hdl.handle.net/10125/102681

C.3 Schelble, B.G., Lancaster, C., Duan, W., **Mallick, R.**, McNeese, N.J., & Lopez, J., (2023). The Effect of AI Teammate Ethicality on Trust Outcomes and Individual Performance in Human-AI Teams. *Proceedings of the 56th Hawaii International Conference on System Sciences* (pp. 322) https://hdl.handle.net/10125/102668

C.2 **Mallick, R.**, Sawant, S., McNeese, N.J., & Madathil, K.C., (2022). Designing for Mutually Beneficial Decision Making in Human-Agent Teaming. *In Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (Vol. 66, No. 1, pp. 392-396). Sage CA: Los Angeles, CA: SAGE Publications. https://doi.org/10.1177/1071181322661358

C.1 Sawant, S., **Mallick, R.**, Madathil, K.C., & McNeese, N.J., (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* (Vol.

66, No. 1, pp. 287-289). Sage CA: Los Angeles, CA: SAGE Publications. https://doi.org/10.1177/1071181322661355

Patents and Technology Disclosures:

TD.1 Madathil, K.C., Bertrand, J., McNeese, N.J., Sawant, S., **Mallick, R.**, Brady C., & Gramopadhye, A., (2023) Suite for Human-AI Teaming Research, Clemson University Research Foundation (CURF), *Tech Record ID: #2023-049*

Workshop Papers & Organization (Peer Reviewed):

Org.1 **Mallick, R.**, Paletz, S.B.F., Kane, A.A., Do, K., Porter, A.A., Diep, M., & Fabian, C., (in-print). Model of Collective Judgement Formation for Sequential Teams in Information-Dense Scenarios. *2026 Annual Interdisciplinary Network for Group Research (INGRoup) Conference*

WP.2 Li, W., **Mallick, R.**, Toxtli-Hernandez, C., Flathmann, C., McNeese, N.J. (2024). Leveraging Artificial Intelligence to Promote Awareness in Augmented Reality Systems. *CHI'24 Novel Approaches for Understanding and Mitigating Emerging New Harms in Immersive and Embodied Virtual Spaces*, arXiv preprint arXiv:2405.05916. https://doi.org/10.48550/arXiv.2405.05916

WP.1 **Mallick, R.**, Slayback, D., Touryan, J., Ries, A.J., & Lance, B.J., (2016) The Use of Eye Metrics to Index Cognitive Workload in Video Games. *2016 IEEE Second Workshop on Eye Tracking and Visualization (ETVIS)* (pp. 60-64). Institute of Electrical and Electronics Engineers (IEEE). https://doi.org/10.1109/ETVIS.2016.7851168

Published Reports & Technical Reports:

R.4 Marble, J., Pandza, N.B, Kane, A., Diep, M., Paletz, S.B.F., Karuzis, V., Carbone, D., Fleming, L., **Mallick, R.**, Gunther, K., Campbell, S., Do, K., (2026) Baseline Performance of Human-Agent Systems for Intelligence Activity (HAS-IA) Testbed. Collective Judgment Formation Collaborative Research Alliance (CJF CRA). U.S. Army DEVCOM

R.3 **Mallick, R.**, (2017) Quantifying Visual Perception Before, Upon, and After an Eye Fixation, *2017 ARL Summer Student Program, Volume II: Compendium of Abstracts (ARL-SR-0388)* (p. 95) Army Research Laboratory Adelphi.

R.2 **Mallick, R.**, (2016) The Use of Eye Metrics to Index Cognitive Workload in Video Games, *2016 ARL Summer Student Program, Volume II: Compendium of Abstracts (ARL-TM-2016a)* (p. 31), Army Research Laboratory Adelphi.

R.1 **Mallick, R.**, (2015) Correlations Between Tetris Fall Speeds and Eye Movement, *2015 ARL Summer Student Program, Volume II: Compendium of Abstracts (ARL-TM-2015a)* (p. 35), Army Research Laboratory Adelphi.

Presentations (Invited, Conference, & Program Reviews):

PRE.15 **Mallick, R.**, Paletz, S.B.F., Kane, A.A., Do, K., Porter, A.A., Diep, M., & Fabian, C., Model of Collective Judgment Formation for Sequential Teams in Information-Dense Scenarios. *70th Annual Meeting for the Human Factors and Ergonomics Society*, Grand Sierra Resort, Reno, NV, 21 October 2026.

PRE.14 Paletz, S.B.F., Kane, A.A., Diep, M., Porter, A.A., **Mallick, R.**, Do, K., & Fabian, C., TA1: Contextualized Human-Agent System for Intelligence Activities (CHASIA). *Technical Exchange Meeting (Program Review)*, Applied Research Laboratory for Intelligence and Security (ARLIS), College Park, MD, 15 September 2026.

PANEL.1 Hill, N.S., Larson, L.E., **Mallick, R.**, Robert, L.P., "New Teammates, Familiar Problems? What Virtual Team Research Can Teach Us About Human-AI Teams," *Interdisciplinary Network for Group Research (INGRoup)*, Carnegie Mellon University, Pittsburgh, PA, 25 July 2026.

PRE.13 **Mallick, R.**, Paletz, S.B.F., Kane, A.A., Do, K., Porter, A.A., Diep, M., & Fabian, C., Model of Collective Judgment Formation for Sequential Teams in Information-Dense Scenarios. *Interdisciplinary Network for Group Research (INGRoup)*, Carnegie Mellon University, Pittsburgh, PA, 24 July 2026.

PRE.12 Mayo-Johnson, G., **Mallick, R.**, & Paletz, S.B.F., "Measuring the Impact and Influence of AI Explainability Techniques and External Endorsements within Human-AI Interaction," *Ronald E. McNair Scholars Program Oral Presentations*, University of Maryland, College Park, MD, 8 July 2026.

PRE.11 **Mallick, R.**, "Prioritizing Human-Centered AI Development: An Interdisciplinary Approach Towards Designing Resilient Human-Machine Systems," *Human-Computer Interaction Laboratory*, University of Maryland, College Park, MD, 26 March 2026.

PRE.10 **Mallick, R.**, "Prioritizing Human-Centered AI Development: An Interdisciplinary Approach Towards Designing Resilient Human-Machine Systems," *Department of Engineering Management & Systems Engineering, The George Washington University*, Science and Engineering Hall, Washington D.C., 18 March 2026.

PRE.9 Fabian, C., Paletz, S.B.F., **Mallick, R.**, & Kane, A.A., "Transactive Memory Systems at Game Night: Proposed Research on Varying Types of Teams for In-Person and Digital Games," *2026 Mid-Year Interdisciplinary Network for Group Research (INGRoup*, Virtual, 15 January 2026.

PRE.8 Do, K., Kane, A.A., Paletz, S.B.F., & **Mallick, R.**, "Measuring the Sensemaking of Intelligence Analysis Teams," *2026 Mid-Year Interdisciplinary*

Network for Group Research (INGRoup, Virtual, 15 January 2026.

PRE.7 **Mallick, R.**, Brady, C., McNeese, N. J., "Focus Area 1.2 Task 5: Enhancing Situational Intelligence within Human-AI Teams," *2024 VIPR-GS Annual Review*, Embassy Suites by Hilton Greenville Golf Resort & Conference Center, Greenville, SC, 5 March 2024.

PRE.6 Macdonald, J., **Mallick, R.**, McNeese, N. J., Wollaber, A., Peña, J., & Siu, H. C., "Demonstration of the Context-observant LLM-Enabled Autonomous Robots (CLEAR) System," *Recent Advances in AI for National Security (RAAINS)*, Massachusetts Institute of Technology (MIT) Lincoln Laboratory, Lexington, MA, 13-16 November 2023.

PRE.5 Sawant, S., **Mallick, R.**, Brady, C., Madathil, K. C., McNeese, N. J., Bertrand, J., & Rangaraju, N., "Human-AI teams in complex military operations: Soldiers' perception of intelligent AI agents as teammates in human-AI teams", *67th Annual Meeting for the Human Factors and Ergonomics Society*, Washington Hilton, District of Columbia, 27 October 2023.

PRE.4 **Mallick, R.**, Brady, C., & McNeese, N. J., "Development of Soldier-Centered AI to enhance Situational Awareness within Human-Agent Teams" *VIPR-GS Student Symposium*, Clemson University International Center for Automotive Research (CU-ICAR), Greenville, SC, 1 March 2023.

PRE.3 **Mallick, R.**, Sawant, S., McNeese, N. J., & Madathil, K. C., "Designing for Mutually Beneficial Decision Making in Human-Agent Teaming" *66th Annual Meeting for the Human Factors and Ergonomics Society*, Atlanta Marriott Marquis, Georgia, 12 October 2022.

PRE.2 Sawant, S., **Mallick, R.**, Madathil, K. C., & McNeese, N. J., "Mutually beneficial decision making in Human-AI teams under uncertainty: Understanding soldier's perceptions and expectations of AI teammates" *66th Annual Meeting for the Human Factors and Ergonomics Society*, Atlanta Marriott Marquis, Georgia, 11 October 2022.

PRE.1 **Mallick, R.**, Ries, A., Touryan, J., Slayback, D., & Lance, B., "The Use of Eye Metrics to Index Cognitive Workload in Video Games" *IEEE – Vis (ETVIS)*, Hilton Baltimore, Maryland, 23 October 2016.

Research Posters:

P.15 Mayo-Johnson, G., **Mallick, R.**, & Paletz, S.B.F., "Measuring the Impact and Influence of AI Explainability Techniques and External Endorsements within Human-AI Interaction," *Ronald E. McNair Scholars Program Poster Presentations*, University of Maryland, College Park, MD, 10 July 2026.

P.14 Paletz, S.B.F., Kane, A.A., Diep, M., Porter, A., & **Mallick, R.**, "Testing

Human-Centered AI for Intelligence Analysis in Context," *Artificial Intelligence Interdisciplinary Institute at Maryland (AIM) Research and Learning Symposium*, University of Maryland, College Park, MD, 5 May 2026.

P.13 Schelble, B., Lancaster, C., **Mallick, R.**, McNeese, N.J., Freeman, G., & Pak, R., "A Comparative Evaluation of Ad Hoc Team Performance, Effectiveness, and Interactions in Modern Collaborative Technology," *68th Annual Meeting for the Human Factors and Ergonomics Society*, Arizona Biltmore, Phoenix, AZ, 12 September 2024.

P.12 Lancaster, C., Gilreath, H., **Mallick, R.**, & McNeese, N.J., "Evaluating Cross-Training's Impact on Perceived Teaming Outcomes for Human-AI Teams," *68th Annual Meeting for the Human Factors and Ergonomics Society*, Arizona Biltmore, Phoenix, AZ, 12 September 2024.

P.11 Macdonald, J., **Mallick, R.**, Wollaber, A., Peña, J., McNeese, N. J., & Siu, H. C., "Language, Camera, Autonomy! Prompt-engineered Robot Control for Rapidly Evolving Deployment," *ACM/IEEE International Conference on Human-Robot Interaction (HRI)*, University of Colorado, Boulder, CO, 13 March 2024.

P.10 Macdonald, J., **Mallick, R.**, McNeese, N. J., Wollaber, A., Peña, J., & Siu, H. C., "Context-observant LLM-Enabled Autonomous Robots (CLEAR)," *Recent Advances in AI for National Security (RAAINS)*, Massachusetts Institute of Technology (MIT) Lincoln Laboratory, Lexington, MA, 13-16 November 2023.

P.9 **Mallick, R.**, Sawant, S., Brady, C., McNeese, N. J., Madathil, K. C., & Bertrand, J., "Can We Build it? Yes, We Can! Development Procedure of High-Fidelity Simulation Environments for Human-Agent Teams," *67th Annual Meeting for the Human Factors and Ergonomics Society*, Washington Hilton, District of Columbia, 25 October 2023.

P.8 Sawant, S., **Mallick, R.**, Brady, C., Madathil, K. C., McNeese, N. J., Bertrand, J., & Rangaraju, N., "Balancing the Scales of Explainable and Transparent AI Agents within Human-Agent Teams," *67th Annual Meeting for the Human Factors and Ergonomics Society*, Washington Hilton, District of Columbia, 25 October 2023.

P.7 **Mallick, R.**, Sawant, S., McNeese, N. J., & Chalil Madathil, K., "Enhancing Situational Intelligence through Explainable and Transparent AI Teammates," *VIPR-GS Student Symposium*, Clemson University International Center for Automotive Research (CU-ICAR), Greenville, SC, 1 March 2023.

P.6 Sawant, S., **Mallick, R.**, Chalil Madathil, K., & McNeese, N. J., "Building multimodal interfaces to enhance team situation awareness," *VIPR-GS*

Student Symposium, Clemson University International Center for Automotive Research (CU-ICAR), Greenville, SC, 1 March 2023.

P.5 **Mallick, R.**, McNeese, N. J., Brooks, J., & Chalil Madathil, K., "Building bi-directional HCA frameworks for Human-Artificial Intelligent Teams," *VIPR-GS Student Symposium*, Clemson University International Center for Automotive Research (CU-ICAR), Greenville, SC, 24 September 2021.

P.4 Mishra, P., **Mallick, R.**, & Hélie, S., "A Network for 3D Perception Using Psychophysical Constraints," *Center for Research on Brain, Behavior, and NeuroRehabilitation (CEREBBRAL) Symposium*, Purdue University, West Lafayette, IN, 17 April 2019.

P.3 **Mallick, R.**, Waytowich, N., Asher D., Henthorn, B., & Cesar-Tondreau, B., "Human-in-the-Loop Reinforcement Learning in Ground Robots," *ARL Summer Symposium*, Human Research and Engineering Directorate (HRED), Army Research Laboratory (ARL), Aberdeen Proving Ground (APG), MD, 25 July 2018.

P.2 **Mallick, R.**, Ries, A., Touryan, J., Slayback, D., & Lance, B. J., "Quantifying visual perception before, during, and after an eye fixation," *ARL Summer Symposium*, Human Research and Engineering Directorate (HRED), Aberdeen Proving Ground (APG), Maryland, 25 July 2017.

P.1 **Mallick, R.**, Green, S., & Nothwang, W., "Range and Throughput Assessment of Wireless Radios in Various Environments," *ARL Summer Student Symposium, Sensors and Electron Devices Directorate (SEDD)*, Adelphi, Maryland, 8 August 2014.

Teaching Experience

University of Maryland, College Park

New Course Development

2026 Artificial Intelligence Interdisciplinary Institute at Maryland (AIM) Sponsored Course Development: AI in Teams

Courses Taught

Fall 2026 **Instructor of Record**
INST 631: Fundamentals of Human-Computer Interaction. University of Maryland, College Park.

Clemson University

Courses Taught

2025 **Invited Guest Lecturer**
HCC 8500: The Science of Teamwork and Technology. Clemson University.

2023-2024 **Volunteer Graduate Teaching Assistant**
HCC 8500: The Science of Teamwork and Technology

Student Advising

Ronald E. McNair Post-Baccalaureate Achievement Program at *The University of Maryland*

2026 Ganela Mayo-Johnson, B.S. Information Studies

Student Mentoring

Ph.D. Students at *The University of Maryland*

2025- Kimberly Do- PhD, Information Studies

2025- Ciara Fabian- PhD, Information Studies

Undergraduate Students at *The University of Maryland*

2026- Elijah Park- B.S., Information Studies

Ph.D. Students at *Clemson University*

2024-2025 Yunhao Wang- PhD, Human-Centered Computing

2024-2025 Rhea Basappa- PhD, Human-Centered Computing

2023-2025 Nan (Phoebe) Weng- PhD, Human-Centered Computing

2022-2025 Camden Brady- PhD, Industrial Engineering

Masters Students at *Clemson University*

2023-2024 Swapnil Srivastava- M.S., Computer Science

2022-2023 Siddharth Malladi- M.S., Computer Science

2020-2023 Richard Garcia- M.S., Biomedical Data Science and Informatics

Undergraduate Students at *Clemson University*

2025-2025 Simone Toppel- B.S. Student, Criminal Justice (AI Minor)

2025-2025 Maya Mack- B.S. Student, Computer Science

2024-2025 Michael Schoonmaker- B.S. Student, Computer Science

2024-2025 Mac Howe- B.S. Student, Computer Science

2024-2025 Kwame Andre- B.S. Student, Computer Science

2024-2025 Mia Yancey- B.A. Student, Computer Information Systems & History

2024-2025 Anna Galeano- B.S. Student, Computer Science

2021-2025 Christian Ihekweazu- B.S. Student, Computer Science

2023-2024 Kyle Zheng- B.S. Student, Computer Science

2022-2024 Jake Macdonald- B.S. Student, Computer Science

2023-2024 Jennifer Hsu- B.S. Student, Computer Science

2023-2024 Ethan Johnson- B.S. Student, Computer Science

2021-2024 Noah Tavarez- B.S. Student, Computer Science

2021-2024 Alyssa Williams- B.S. Student, Computer Science

2020-2021 Wesley "Houston" Everett- B.S., Computer Science

2020-2021 Top Lee- BS, Computer Science

High School Students at *Clemson University*

2023-2024 Shreya Mathur- High School Diploma @ South Carolina Governor's School for Science & Mathematics

Professional Activities

Memberships

2026- **Affiliate** Trustworthy AI in Law & Society (TRAILS)

2025- **Affiliate** Artificial Intelligence Interdisciplinary Institute at Maryland (AIM)

2025- **Asst. Director** Organizational Teams & Technology Research Society (OTTRS)

2025- **Associate** Human-Computer Interaction Laboratory (HCIL) at UMD

2025- **Affiliate** Clemson University Center for Human-AI Interaction, Collaboration, and Teaming (CU-CHAI)

2025- **Member** Interdisciplinary Network for Group Research (INGRoup)

2025- **Member** Association for Computing Machinery (ACM)

2025- **Member** Human Factors and Ergonomic Society (HFES)

2023-2025 **Clemson Chapter Member** Human Factors and Ergonomics Society

2023-2025 **Student Member** Human Factors and Ergonomic Society

Reviewing

Journals

2026- Proceedings of the ACM on Human-Computer Interaction: Computer Supported Cooperative Work (PACMHCI-CSCW)

2025- American Journal of Psychology

2025- Computers in Human Behavior Reports

2024- International Journal of Human-Computer Interaction

2024- Human Factors: The Journal of the Human Factors and Ergonomics Society

2023- Topics of Cognitive Science

Conferences

2023- ACM/IEEE International Conference on Human-Robot Interaction (HRI)

University Service/Representation

University of Maryland, College Park

2026 Annual Society of American Military Engineers (SAME) Chesapeake Post/HCC Spring STEM Student Networking Event Volunteer Mentor @ Harford Community College. *8 April 2026*

2025- Assistant Director of the Organizational Teams & Technology Research Society (OTTRS)

Clemson University

2024-2025 CU-CHAI Undergraduate Student Coordinator

2021-2025 NeoCities Virtual Research Platform Developer

2020-2025 Clemson Experimental Forest Virtual Simulation Environment Developer

2025 Clemson University: Honors College Breakthrough Scholar Exposé Supporting Subject

2024-2025 Clemson University Fiercely Forward Campaign Subject

2022-2024 TRACE Undergraduate Student Coordinator

2023 United States Air Force Academy Visiting Cadet Host. *Duration: Two Weeks*

2023 Human-AI Interaction Lead @ Clemson Elementary STEAM Night. *23 February 2023*

2022 Visiting Scholar at the U.S. Army Research Laboratory: Human Research and Engineering Directorate. *Aberdeen Proving Ground, Maryland. 4 March 2022*

Honors & Awards

2026 Certificate of Appreciation for exceptional guidance, dedication, and support as a faculty mentor during the 2026 Summer Research Institute at the University of Maryland, College Park

2025 Recipient of the Outstanding Ph.D. Student Award in Human-Centered Computing

2024 & 2023 Human Factors Institute (HFI) Travel Award Recipient. *Amount: $500*

2022 ACM GROUP Honorable Mention Best Paper Award

2022 Graduate Student Government (GSG) Travel Grant Recipient. *Amount: $750*

Mult. Yrs. Oak Ridge Institute of Science and Education Summer Journeyman Fellow (2020, 2018, & 2016)

2019 Oak Ridge Institute of Science and Education Journeyman Fellow