Amal Hashky

Human-Centered AI · Interactive Intelligence
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Research Interest

eXplainable Artificial Intelligence, Human-in-the-loop Machine Learning, Human-Computer Interaction

Education

Ph.D. in Human-Centered Computing Aug 2021 – present
University of Florida - Gainesville, FL

- ***Related courses:*** Human-computer Interaction, User Experience Design, HCC Research methods, Information Visualization, Trustworthy Machine-Learning

M.S. in Computer Science Aug 2018 – Dec 2020
Georgia Institute of Technology - Atlanta, GA

- ***Related courses:*** *Machine Learning, Machine Learning for Trading, Introduction to Analytics Modeling, Knowledge-Based AI, Software Development*

B.S. in Computer Engineering Sept 2004 – Jun 2009
Jordan University of Science and Technology - Irbid, Jordan

Research Experience

Research Assistant – INDIE Lab May 2022 – Dec 2024
University of Florida, Gainesville, FL **Advisor**: Dr. Eric Ragan

- Environment-Driven Conceptual Learning (ECOLE) Program – Funded by DARPA

To develop novel interaction and visualization techniques that enable people to understand new AI models and teach the system about concepts using Human-in-the-loop ML methods.

- Perceptually-enabled Task Guidance (PTG) Program – Funded by DARPA

To develop artificial intelligence (AI) technologies to help users perform complex physical tasks while making them more versatile by expanding their skillset and more proficient by reducing their errors.

Research Assistant – Engaging Learning lab Oct 2020 – May 2022
University of Florida, Gainesville, FL ***Advisor**: Dr. Christina Gardner-McCune*

- Member of the AI4GA research team to design and evaluate a 9-week AI curriculum for middle school students – Funded by NSF
- Engaged in developing a visual learning tool for machine learning models, specifically a convolutional neural network.

Research Assistant – Text Analytic lab Feb 2016 – May 2016
University of North Carolina At Charlotte, Charlotte, NC **Advisor**: Prof. Wlodek Zadrozny

- Built a semantic-driven visual interactive analytics engine that provides insights on innovation data using conceptual knowledge using Java as a volunteer research assistant.

Teaching Experience

Teaching Assistant
University of Florida, Gainesville, FL Jan 2026 – present

CAP 3220 (3D Modeling) – Spring 2025 **Instructor:** Dr. Rong Zhang
CIS6261(Trustworthy Machine Learning) – Fall 2025 **Instructor:** Dr. Vincent Bindschaedler
CAI6108 (Machine Learning Engineering)- Spring 2026 **Instructor:** Dr. Vincent Bindschaedler

Work Experience

Graduate Research Intern Jun 2023 – Jul 2023

Laboratory for Analytic Sciences (LAS) Raleigh, NC
Summer Conference for Applied Data Science (SCADS)

- Collaborated with researchers from different domains and disciplinaries toward one challenge: creating Tailored Daily Report (TLDR) through the application of cutting-edge AI techniques.

Field Support Engineer Sep 2013 – Sep 2014

Cupola Teleservice, Dubai, United Arab Emirates

- Examined faulty equipment, interpreted reports, and analyzed customer complaints to diagnose equipment malfunction.
- Monitored work performance and quality to maintain standards.
- Supervised and managed a team of 8 field engineers and coordinated with other involved parties.

Sr. Technical Support Representative Oct 2009 – Jan 2013

Etisalat Telecommunication, Ajman, United Arab Emirates

- Responded to support requests from end users and patiently walked individuals through basic troubleshooting tasks.
- Designed surveys and questionnaires as per stakeholders' requirements.
- Planned and designed product testing roadmap prior to launch.

Internship Student Jun 2008 – Sep 2008

Optimiza Solutions, Amman, Jordan

- Tested and installed motherboards, processors, and graphics cards on desktops and laptops and Used diagnostic tools to identify hardware failures and replace nonfunctional components.

Publications

[9] Shahriari, R., **Hashky, A.**, Arya, S., Audino, T., Ragan, E. D., Gogate, V., & Ruiz, J., Comparison of Text-Based Inputs for Human-in-the-Loop Feedback in Vision–Language Models. ACM Transactions on Interactive Intelligent Systems (Tiis). Under Review

[8] **Hashky, A.**, & Ragan, E. D. A Systematic Review on Human Roles, Solutions, and Methodological Approaches to Address Bias in AI. *ACM Computing Surveys* (CSUR) 58 (9), 37.

[7] Chu, S. L., Karcz, M., **Hashky, A.**, Rani, N., Chaspari, T., Arthur Jr, W., & Ragan, E. D. (2025). User judgment of an AI model is biased by its description: A study in a job interview training context. *International Journal of Human-Computer Studies*, 103691.

[6] Nourani, M., **Hashky, A.**, & Ragan, E. D. (2024). User Profiling in Human-AI Design: An Empirical Case Study of Anchoring Bias, Individual Differences, and AI Attitudes. *Proceedings of the AAAI Conference on Human Computation and Crowdsourcing*, *12*(1), 137-146. https://doi.org/10.1609/hcomp.v12i1.31608

[5] **Hashky, A.,** Rheault, B., Ahsan, A. R., Benda, B., Audino, T., Lonneman, S., & Ragan, E. D. (2024, March). Multi-Modal User Modeling for Task Guidance: A Dataset for Real-Time Assistance with Stress and Interruption Dynamics. In *2024 IEEE Conference on Virtual Reality and 3D User Interfaces Abstracts and Workshops (VRW)* (pp. 544-550). IEEE.

[4] **Hashky, A.,** Rheault, B., Ahsan, A. R., Newman, L., & Ragan, E. D. (2024, March). Multitasking with Graphical Encoding Visualization of Numerical Values in Virtual Reality. In *2024 IEEE Conference on Virtual Reality and 3D User Interfaces Abstracts and Workshops (VRW)* (pp. 781-782). IEEE.

[3] Lamb, R., Pugh, Z., **Hashky, A.**, Rathore, S., Wang, W., Kosiur, K., & Mamoun, T. (2024). Use of Neurocognitive Data to Evaluate Text Summarization of Science Content, *in proceedings of the NARST Annual International Conference*, Denver, CO.

[2] Al-Ani, M. A., Bai, C., **Hashky, A.**, Parker, A. M., Vilaro, J. R., Aranda Jr, J. M., ... & Mardini, M. T. (2023). Artificial intelligence guidance of advanced heart failure therapies: A systematic scoping review. *Frontiers in Cardiovascular Medicine*, 10, 1127716.

[1] Mardini, M. T., **Hashky, A.**, & Raś, Z. W. (2021). Personalizing patients to enable shared decision making. *Recommender Systems for Medicine and Music*, 75-90.

Fellowships & Awards

- GenerationNext Fellowship Award — Nov 2020
- IEEE VR 2024 Diversity, Equity, Inclusion, and Accessibility Grant — Mar 2024
- Gartner Group Graduate Fellowship- CISE Scholarship Award — Apr 2024
- Gartner Group Graduate Fellowship - CISE Scholarship Award — Mar 2025