

Reza Shahriari

PH.D. CANDIDATE · COMPUTER SCIENCE

CISE Department, University of Florida, USA

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Education

University of Florida

PH.D. IN COMPUTER SCIENCE

- Advisor: Prof. Eric D. Ragan
- Focus: Designing Multimodal Interaction Features in User Interfaces to Enhance Human-AI Interaction

Gainesville, FL

2021 – 2026 (expected)

Sharif University of Technology

B.S. IN COMPUTER ENGINEERING

Tehran, Iran

2015 – 2020

Research Interests

Human-computer interaction (HCI); human-centered computing (HCC) • Human-centered artificial intelligence (AI) • Information visualization; Natural language interaction; Knowledge graph exploration

Experience

University of Florida

GRADUATE RESEARCH/TEACHING ASSISTANT

- Led DARPA ECOLE UI design for multimodal vision–language model interaction
- Led software research for designing interactive knowledge graph exploration tools as a part of the NIH TIPTOE project

Gainesville, FL

2021–2026

Publications

JOURNAL ARTICLES

- J.6 Esmaeili, S., **Shahriari, R.**, and Ragan, E. *Graphical Perception of Quantitative Encodings in Multi-Point Displays*. *IEEE Transactions on Visualization and Computer Graphics (TVCG)*. Under Review.
- J.5] Block, J. E., Honeycutt, D., Benda, B., Rheault, B., **Shahriari, R.**, and Ragan, E. D. *Automated Segmentation and Summarization of Provenance Logs for Communication*. *International Journal of Human-Computer Interaction (IJHCI)*. Under Review.
- J.4 **Shahriari, R.**, Anyi, C. L., Ragan, E. D., Whorton, J., Bona, J., Hogan, W. R., Brakenridge, S. C., Brochhausen, M., and Sexton, K. W. *An Interview Study of Challenges in Bridging Patient Outcome Data and Organizational Changes*. *Journal of Surgical Research*. Under Review.
- J.3 **Shahriari, R.**, Hashky, A., Arya, S., Audino, T., Ragan, E. D., Gogate, V., and Ruiz, J. (2026). *Comparison of Text-Based Inputs for Human-in-the-Loop Feedback in Vision–Language Models*. *ACM Transactions on Interactive Intelligent Systems (TiiS)*. DOI: 10.1145/3816700.
- J.2 **Shahriari, R.** and Ragan, E. D. (2026). *A Systematic Survey of Empirical User Studies of Unintentional Information Disclosure in Everyday Digital Interaction*. *International Journal of Human-Computer Interaction*, 1–29. DOI: 10.1080/10447318.2026.2620054.
- J.1 **Shahriari, R.**, Yang, Y., Tamboli, D., Perez, M., Zha, Y., Hou, J., Deng, M., Ragan, E., Ruiz, J., Wang, D. Z., Hu, Z., and Xing, E. (2025). *MuCHEx: A Multimodal Conversational Debugging Tool for Interactive Visual Exploration of Hierarchical Object Classification*. *IEEE Computer Graphics and Applications*, 1–13. DOI: 10.1109/MCG.2025.3598204.

CONFERENCE PAPERS

- C.4 **Shahriari, R.**, Whorton, J., Bona, J., Sexton, K., Brochhausen, M., Ruiz, J., and Ragan, E. *NEXO: Adaptive Visualization for Comparative Exploration of Knowledge Graphs with Natural Language Interaction*. *IEEE Visualization (VIS)*. Accepted 2026.

- C.3 **Shahriari, R.**, Ragan, E., and Ruiz, J. (2025). *Natural Language Interaction for Editing Visual Knowledge Graphs*. *Proceedings of the 13th Knowledge Capture Conference (K-CAP 2025)*. ACM. p. 26–34. DOI: 10.1145/3731443.3771344.
- C.2 Chappell, E., Whorton, J., Villafranca, A., **Shahriari, R.**, Brakenridge, S., Bennett, J., Ounpraseuth, S., Ragan, E., Hogan, W., Bona, J., Sexton, K., and Brochhausen, M. (2025). *Generation of Interactive Knowledge Graphs to Enable Research of the Effects of Trauma Center Organization on Patient Outcomes*. *International Conference on Knowledge Graphs and Semantic Web (KGSWC 2025)*. Lecture Notes in Computer Science, vol. 16373. Springer, Cham. p. 1–8. DOI: 10.1007/978-3-032-13109-6_1.
- C.1 Mehta, D., Whorton, J., **Shahriari, R.**, Ragan, E. D., Bona, J., Hogan, W. R., Sexton, K. W., and Brochhausen, M. (2024). *Expanding the Ontology of Organizational Structures of Trauma Centers and Trauma Systems*. *Proceedings of the International Conference on Biomedical Ontologies (ICBO 2024)*, 1–7. PMC11973606.

DEMO/POSTER PRESENTATIONS

- P.2 Ragan, E., **Shahriari, R.**, Whorton, J., Bona, J., Hogan, W., Brakenridge, S., Brochhausen, M., and Sexton, K. (2025). *An Interview Study of the Challenges of Bridging Patient Outcome Data with Practical Organizational Changes*. *ACS Trauma Quality Improvement Program (TQIP) Annual Scientific Meeting*. Poster presentation.
- P.1 Perez, M., Yang, Y., Zha, Y., Ma, E., Tamboli, D., Ma, H., **Shahriari, R.**, Pathak, V., Kasinets, D., Venkatakrisnan, R., Wang, D. Z., Ruiz, J., Ragan, E. D., Hu, Z., Xing, E., and Zhu, J. (2025). *CRLeRI: Explainable, Concept-centric, Representation, Learning, Reasoning, and Interaction Video Analysis System*. *ACM International Conference on Multimedia (MM 2025)*, Demo/Video Track. p. 13528–13530. DOI: 10.1145/3746027.3754479.

Talks

Natural Language Interaction for Editing Network Graph Visualizations

PAPER PRESENTATION

ACM K-CAP, Dayton, OH

2025

Designing Multimodal Interaction Features in Vision-Language Model User Interfaces to Enhance Human-AI Interaction

INVITED TALK

HCDS Seminar, Gainesville, FL

2025

Academic Services

ACM CHI (Human Factors in Computing Systems); IEEE VIS (Visualization); GI (Graphics Interface)

REVIEWER

2024–2026

ACM IUI (Intelligent User Interfaces)

PROGRAM COMMITTEE

2025

Mentored multiple junior Ph.D. students as a senior Ph.D. student

MENTORING

2025–2026

Honors & Awards

Gartner Group Graduate Fellowship

OUTSTANDING RESEARCHER

Gainesville, FL

2025–2026

Center for the Integration of Research, Teaching, and Learning (CITRL)

GRADUATE ASSOCIATE

Gainesville, FL

2026

Nationwide University Entrance Exam in Mathematics and Physics

TOP 0.1%

Tehran, Iran

2015