

# Reza Shahriari

PH.D. CANDIDATE · COMPUTER SCIENCE

CISE Department, University of Florida, USA

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## Education

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### 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

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

## Experience

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### 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

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### JOURNAL ARTICLES

- **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.
- **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.
- **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.
- **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.
- 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.

### CONFERENCE PAPERS

- **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.
- 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.
- 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). *CRELeRI: 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.

- 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.
- **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). Under Review.*
- Esmaili, S., **Shahriari, R.**, and Ragan, E. *Graphical Perception of Quantitative Encodings in Multi-Point Displays: The Effects of Task Type and Set Size. IEEE Visualization (VIS). Under Review.*

## POSTER PRESENTATIONS

- 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.

## Talks

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### 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

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### 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

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### 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