

# Shehreen Azad

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## Education

### University of Central Florida

Aug'23 – Dec'26 (*Expected*)

Doctor of Philosophy, Computer Science. Advisor: [Dr Yogesh Singh Rawat](#).

GPA: 3.91/4.0

Dissertation Committee: [Dr Yogesh Singh Rawat](#), [Dr Mubarak Shah](#), [Dr Chen Chen](#), [Dr Soheil Sabri](#)

Master of Science, Computer Science.

Aug'22 – July'23

## Experience

### Graduate Research Assistant

Aug'23 – Present

Center for Research in Computer Vision, UCF. Advisor: [Dr Yogesh Singh Rawat](#)

- Video understanding and multimodal reasoning

## Major Research Projects

### Video Understanding and Multimodal Reasoning

Jan'23 – Present

- Streaming long-form video understanding (*Ongoing*): Developing a memory-augmented, task-agnostic multimodal framework for efficient temporal reasoning and on-time responses.
- [Hierarchical Q-Former for long-form video understanding \(CVPR'25\)](#): Proposed a memory-augmented, task-aware multimodal framework to improve computational efficiency and temporal modeling.
- [Disentangling Q-Former for activity-biometrics \(ICCV'25 Highlight\)](#): Designed a multimodal framework for activity-aware person identification through language-guided motion-centric temporal modeling.
- [Activity-Biometrics: Person identification from daily activities \(CVPR'24\)](#): Introduced the novel task of activity-aware person identification by linking actions to biometric traits through motion-centric temporal modeling.
- Benchmarking visual perception in Multimodal Large Language Models (MLLMs): Proposed diagnostic benchmarks to evaluate: [Depth and height perception \(CVPRW'25\)](#), [Compositional reasoning \(CVPRW'24\)](#), and [Distribution shifts \(CVPRW'24\)](#) in MLLMs.

## Funded Projects

### 1. Biometric Recognition and Identification at Altitude and Range (BRIAR) by IARPA.

Advisors: [Dr Mubarak Shah](#), [Dr Yogesh Singh Rawat](#)

Jan'23– June'24

- Served as the team lead for the activity-aware recognition substream of the program.
- Secured 2<sup>nd</sup> rank out of 7 teams in activity-aware recognition.

### 2. ART: From Research to Impact, Building the Translational Capacity of UCF's Innovation Ecosystem by NSF. Advisor: [Dr Yogesh Singh Rawat](#)

Aug'24- Present

- Leading the development of a multimodal reasoning framework for streaming videos.
- Completed "NSF Innovation Corps (I-Corps<sup>TM</sup>) - Lean Startup at UCF" training as part of the program.

## Patent

1. **Shehreen Azad**, Yogesh S Rawat. "Activity-Biometrics: Person Identification from Daily Activities." US Patent Application No.: 63/685,014, 2024, Reference no.: 2024-117-01, (Pending).

## Additional Credentials

1. **Languages, Frameworks:** C/C++, Python, PyTorch, Keras, TensorFlow, OpenCV, Scikit. **Tools:** Git, VS Code, Linux, L<sup>A</sup>T<sub>E</sub>X
2. **Awards and Honors:** UCF CS Ranking Incentive Award ('24, '25); ICCV Broadening Participation Award ('25); CVPR Diversity, Equity and Inclusion Award ('24); UCF Presentation Fellowship ('24, '25); UCF ORCGS Doctoral Fellowship ('23).
3. **Reviewer:** CVPR'25, ICCV'25, NeurIPS'25, BMVC'25, CVPR MMFM Workshop'24,'25, ICPR'24.
4. **Teaching Assistant:** CAP 5725: Computer Graphics (*Fall'22*), CAP 6721: Ray Tracing (*Spring'23*).
5. **Others:** Treasurer of Bangladesh Student Association at UCF ('23-'24)