

Shehreen Azad

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Education

University of Central Florida	<i>Aug '23 – Dec '26 (Expected)</i>
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.	<i>Aug '22 – July '23</i>

Experience

Graduate Research Assistant	<i>Aug '23 – Present</i>
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	<i>Jan '23 – Present</i>
◦ Streaming long-form video understanding (<i>Ongoing</i>): 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 2nd 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™) - 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^AT_EX
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)