Sarinda Samarasinghe

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Education:

University of Central Florida 2021-Present

Ph.D. in Computer Science — UCF Center for Research in Computer Vision
Advisor: Dr. Mubarak Shah

University of Central Florida 2017-2021

Bachelor of Science in Computer Science (With Honors) Bachelor of Science in Mathematics (With Honors)

Awards & Honors:

UCF National Honor Society in Mathematics Member — UCF President's Honor Roll
UCF Provost Scholarship recipient 2017 – 2021 — UCF Dean's List

Skills Summary:

Programming Languages: Python, Java, C/C++ , R , ROS **Machine Learning:** Pytorch/TensorFlow/Keras
Operating Systems: Windows, Linux

Research Papers:

- **Sarinda Samarasinghe**, Mamshad Nayeem Rizve, Navid Kardan, Mubarak Shah; CDFSL-V: Cross-Domain Few-Shot Learning for Videos; International Conference on Computer Vision **(ICCV 2023)**

Funding Projects:

Dataset Distillation in Videos by CISCO 7/2024 – Present

- Diffusion-based video dataset distillation method focusing on diverse and representative sample generation

Hidden Activity Signal and Trajectory Anomaly Characterization (HAYSTAC) by IARPA 4/2023 – 6/2024

- Worked on anomalous trajectory insertion and anomalous trajectory detection.

Biometric Recognition and Identification at Altitude and Range (BRIAR) by IARPA 5/2022 – 8/2023

- Worked on cross-domain few-shot learning for training on ground camera videos and testing on drone videos. Also worked on feature fusion for multiple retrieval methods.

Other Projects:

Fortuna V2, https://fortunacombat.com/

- Continuation of a Web-based, Programmable Tank Strategy Game
- Teaches beginners programming skills with a Scratch-like coding language

QOurs Image Detection

- A drawable QR code alternative that consists of basic shapes
- Image detection converts a photo of up to 16 shapes on a grid into a hash code for link storage

Relevant Experience:

Bioinformatics Research 3/2020 – 12/2020

- Studied and implement algorithms to analyze and identify various species in genetic sequence samples.
- Optimize algorithms to maximize speed and minimize RAM usage.

UCF Programming Team Member 9/2019 – 9/2020

- Studied various programming algorithms and participate in the International Collegiate Programming Contest (Mercer Spring Programming Contest) as a representative of UCF o Team UCF Requiem placed 2nd in the 2020 Senior Division (Highest placement of the UCF teams)

Real-Time & Intelligent Systems Lab Autonomous Mobile Robots 12/2018 – 5/2019

- Researched path planning methods to steer an autonomous 1/10th scale Formula 1 race car • Utilized ROS, Gazebo, and Turtlebot3 to implement and test path planning algorithms

Additional Experience:

Math Tutor 8/2014 – Present

- Freelance tutor students ranging from middle school students to college students

Updated 4/9/2025