

Raihan Islam Arnob

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EDUCATION

George Mason University

PhD in Computer Science (CGPA 3.84)

Fairfax, VA

Aug. 2020 – May 2025

George Mason University

MSc in Computer Science (CGPA 3.84)

Fairfax, VA

Aug. 2020 – Aug 2023

RESEARCH INTEREST

Robotics, Artificial Intelligence, Applied Machine Learning, Software Engineering

EXPERIENCE

Graduate Research Assistant

George Mason University

Aug 2020 – Present

Fairfax, VA, USA

- Currently I am working on a project that allows a robot to plan and execute task efficiently even when the objects required to complete the task are unavailable by quickly finding them with learned priors about the object locations in the environment.
- Another project that I am working on involves improving a robot that is trained on a different environment to correct its behavior on a new environment by intervention, requiring few data and by-passing rigorous training from scratch.
- I recently submitted a project aimed at enabling a robot to actively gather pertinent information in unfamiliar environments so that it can quickly reach its goal. [paper](#)
- I devised a method utilizing graph neural networks to enhance long-term navigation in uncertain environments by incorporating predictions based on non-local information. [github](#)

Graduate Research Assistant

Utah State University

Jan 2020 – Aug 2020

Logan, UT, USA

- Developed a web application using REACT, mimicking the user interface of iOS for the qualitative study on usable security and privacy of the users for handheld devices. [github](#)

TECHNICAL SKILLS

Languages (proficiency order): Python, C, C++, HTML, MATLAB, JAVA, PERL, SQL, PHP, C#.

ML Frameworks: PyTorch, TensorFlow

Developer Tools: Git, Docker, PyCharm

Others: CUDA, ROS, Unix Shell Scripting

EXTRA-CURRICULAR

Team Lead of a robotics team of 16 people, participated in the competition of University Rover Challenge 2016 (2-4 June) organized by the Mars Society in the Mars Desert Research Station, Hanksville, Utah, USA.