Mobina Jamali

✉ mobiina.jamali@gmail.com   📞 587-438-6550   in LinkedIn   ⬤ GitHub   🌐 Portfolio Website

SKILLS:	PyTorch, , TensorFlow, ROS, Linux, GIT, Reinforcement Learning, OpenCV, Pandas, SQL, Gazebo, OOP, TDD
LANGUAGES/ ENVS:	Python, C++, HTML/CSS

SUMMARY

I am a roboticist and AI researcher working on Multi-Agent Reinforcement Learning. My research focuses on developing autonomous agents capable of collaborating with human in executing complex, multi-step tasks by integrating learning and planning strategies. My goal is to enhance human-agent interaction in dynamic and unpredictable environments.

EDUCATION

University of California San Diego   2023 - 2024
MicroMasters Program, Data Science

University of Calgary   2019 - 2023
Bachelor of Science, Physics

· Thesis: "Advancing the Control for a Highly Maneuverable Autonomous Underwater Vehicle (HM-AUV)", advised by Dr. Alex Ramirez-Serrano.

EXPERIENCE

Intelligent Robot Learning Lab (IRL), University of Alberta   June 2024 - Present
Researcher

· Developing intelligent agents capable of collaborating with each other in dynamic environments, advised by Dr. Matthew E. Taylor.
· Using Human-in-the-loop and behavioral cloning in multi agent systems to improve adaptability and performance.

Unmanned Vehicles Robotarium Lab, University of Calgary   September 2022 - April 2023
Roboticist

· Developed a comprehensive dynamic model and control scheme for a three-thruster configuration AUV, enabling the vehicle to have full autonomy over its 6 DOF.
· Conducted extensive simulations to demonstrate the vehicle's ability to navigate through complex motions.

Faculty of Physics and Astronomy, University of Calgary   January 2022 - April 2022
Undergraduate Teaching Assistant

· Collaborated with professors to create organized and engaging course materials for PHYS 229 (Modern Physics) and PHYS 259 (Electricity and Magnetism).
· Led tutorial sessions, assisting more than 120 students with course content and answering their questions.

EXTRA-CIRRUCULAR ACTIVITY

Calgary To Space Organization, University of Calgary   May 2021 - April 2023
Orbit Determination Lead

· Led University of Calgary's first 3U CubeSat design, operations, and mission planning.
· Collaborated with companies such as NovAtel to conduct GPS simulations for orbit detemination and data gathering.

SCHOLARSHIP AND AWARD

- Program for Undergraduate Research Experience (PURE)   March 2022
- BSc Summer Research Funding   April 2021
- President's Admission Scholarship   Auguest 2019