

Austine Oloo

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EDUCATION

State University of New York, Binghamton

PhD student in Computer Science 2026 - Present

State University of New York, Binghamton

MSc Computer Science 2024-2025

Gretsa University

BS Computer Science (First Class Honors) 2021-2023

Research Interest: Embodied AI, Model-based reinforcement learning, Foundation models for decision making, Task and Motion Planning, Robotics

Selected Coursework: Machine Learning, Artificial Intelligence, Intelligent Mobile Robotics, Data Mining, Computer Vision, System Architecture, Operating System, Multimodal AI and Machine Learning, Design and Analysis of Algorithms, Data Structure, Programming, Stochastic Process & Probability

EXPERIENCE

Binghamton University Autonomus Intelligent Robotics Research Lab

Researcher Aug 2024 – Present

- Intelligent Mobile Robotics research advised by Prof. Shiqi Zhang
- Research focus: Generative world model, Visual grounding for Large Language Model, Model-based RL, Embodied AI, Foundation models for decision making, Robotics.

Turing

Machine Learning Engineer May 2024 – Aug 2024

- Built back-end infrastructure, data pipelines, and machine learning models for our AI-backed product.
- Implemented the entire data synthesis pipeline

SKILLSET

Language & Tools: Python, C++/C, PyTorch, Jax, Tensorflow, ROS, OpenCV, TensorRT, ZeroMQ, Sim2Real

Machine Learning: Deep Reinforcement Learning, Generative Models, Variational Inference, Time Series Prediction, Planning Imitation Learning, World Model, Large Language Model, Vision Language Model, Multimodal Model, Data Synthesis, Task and Motion Planning.

PUBLICATION

Robots Actively Handling Situations using VLMs in Open Worlds IROS Submission 2026

A. Oloo, Z. Altaweel, P. liu, Y. Hayamizu, C. Paxton, S. Zhang, X. Zhang

Vlm-Grounded TAMP with Uncertainty Aware Active Perception Masters Thesis

A. Oloo

ACADEMIC SERVICE

Teaching Assistant, Binghamton University, Artificial Intelligence 465/565 Aug - Dec 2025

Teaching Assistant, Binghamton University, Intelligent Mobile Robotics 424/524 Jan - May 2026

PERSONAL PROJECTS

Semantic-Geometric Fusion for Task and Motion Planning in Dynamic Environments(Vision, Planning, ROS, Control, AI) Jan - May 2025

Social Media Analytics with Advanced NLP(ML, NLP) Aug - Dec 2023

HONOR

Winner, CS580 Efficient Multi-modal AI for Biomedicine May 2025

Honor degree in CS, High honor in general scholarship, Dean's List, Gretsa University 2021 - 2023