

Peiqi Liu

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EDUCATION

New York University

Bachelors in Honors Computer Science and Mathematics; **GPA: 3.96/4.00**

New York, NY

Sep 2020 – Dec 2023

PUBLICATIONS

Peiqi Liu, Zhanqiu Guo, Mohit Warke, Soumith Chintala, Chris Paxton, Nur Muhammad Mahi Shafiullah, and Lerrel Pinto. Dynamem: Online dynamic spatio-semantic memory for open world mobile manipulation, **Best Paper Award @ Lifelong learning for home robots, CoRL 2024**

Peiqi Liu*, Yaswanth Orru*, Jay Vakil, Chris Paxton, Nur Muhammad Mahi Shafiullah, and Lerrel Pinto. Ok-robot: What really matters in integrating open-knowledge models for robotics, **RSS, 2024**

AWARDS & ACHIEVEMENTS

Best Paper Award Lifelong learning for home robots workshop @ CoRL 2024

Summa cum laude Honors GPA falls within the top 5% of the previous year's graduating class.

Highest honor in Computer Science GPA greater than 3.65 and Completing an Honors Thesis.

Dean's Undergraduate Research Grant: \$1000 Awarded for conducting prominent research projects.

RESEARCH EXPERIENCE

NYU CILVR, Grail Lab

Robotics Researcher

New York, NY

May 2023 – Now, Research Assistant

- Developed modularized zero shot open vocabulary mobile robot manipulation systems, Dynamem and OK Robot, under the supervision of Prof. Lerrel Pinto where we developed dynamic semantic memory for navigation and used gripper pose prediction models for manipulation.

WORK EXPERIENCE

Hello Robot Inc

Robotics Engineer

New York, NY

Sep 2024 – Now, Full-time

- Optimized open vocabulary mobile manipulation systems in Stretch robot's stack under supervision of Dr. Chris Paxton where we deployed state-of-the-art navigation module in the system.

NYU CILVR

Robotics Research Assistant

New York, NY

April 2022 – Aug 2022, Part-time

- Developed Machine Common Sense under supervision of Prof. Rob Fergus where we designed object detection based heuristic policies for agents in Ai2thor simulator to complete different tasks.

Yahoo

Software Development Internship

New York, NY

May 2022 – Aug 2022, Full-time

- Maintained a Yahoo's internal JavaScript dictionary written in TypeScript, Node, Express, React and added new features and fix bugs by writing TypeScript and defining corresponding TypeScript interface.

PROFESSIONAL EXPERIENCE

Teaching Assistant CSCI-UA 002 Introduction to computer programming, MATH-UA 121 Calculus I, MATH-UA 253 Linear and non linear optimization

Mentoring Undergraduate student: Zhanqiu Guo

Reviewing RA-L 2025, ICRA 2025, RSS TaskSpec 2024, CoRL CoRoboLearn 2024

SKILLS

AI & Robotics: Python, PyTorch, ROS, ROS2, Machine Learning, Deep Learning, Matplotlib, Numpy, Pandas

Software Development: Java, TypeScript, JavaScript, Node, CSS, HTML, React, Linux, Maven, Git, MySQL, C