

Linji (Joey) Wang

Ph.D. Student in Computer Science

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Education

Ph.D. in Computer Science

George Mason University , Fairfax, VA

2023 - Present

GPA: 4.0/4.0

- Research Area: Reinforcement Learning for Robotics
- Advisor: [Professor Name]
- Focus: Curriculum Learning for Efficient Robot Training

M.Sc. in Mechanical Engineering

Carnegie Mellon University , Pittsburgh, PA

2021 - 2023

GPA: 3.8/4.0

- Concentration: Machine Learning and Computer Vision
- Thesis: Vision-based 3D Scene Understanding for AR Applications

B.Sc. in Mechanical Engineering

University of Cincinnati , Cincinnati, OH

2017 - 2021

GPA: 3.9/4.0

- Summa Cum Laude, Dean's List All Semesters
- Exchange Program: Chongqing University, China

Experience

Graduate Research Assistant

George Mason University - AI Robotics Lab , Fairfax, VA

Aug 2023 - Present

- Developing novel curriculum learning algorithms for robotic manipulation tasks
- Implementing sim-to-real transfer techniques using domain randomization
- Leading research on adaptive difficulty adjustment in RL environments

Teaching Assistant

Carnegie Mellon University , Pittsburgh, PA

Jan 2022 - May 2023

- Machine Learning (10-701): Assisted 80+ graduate students, developed PyTorch tutorials
- Deep Learning (11-785): Created assignment materials, conducted office hours
- Received outstanding TA award for exceptional student feedback (4.8/5.0)

Research Assistant

Computational Engineering Robotics Laboratory (CERLab) , Pittsburgh, PA May 2021 - Dec 2022

- Developed real-time computer vision pipeline for 3D object detection and tracking
- Implemented AR visualization system for robotic manipulation guidance
- Published 2 conference papers on visual perception for robotics

Technical Skills

Programming Languages : Python, C++, MATLAB, JavaScript, Julia, Bash

ML/AI Frameworks : PyTorch, TensorFlow, JAX, scikit-learn, OpenAI Gym, Stable Baselines3

Computer Vision : OpenCV, PCL, Open3D, COLMAP, MediaPipe

Robotics : ROS/ROS2, Gazebo, MoveIt, IsaacGym, PyBullet

Tools Platforms : Git/GitHub, Docker, AWS/GCP, LaTeX, Linux, SLURM

Awards & Honors

- **Graduate Research Fellowship** , George Mason University (2023)
- **Outstanding Teaching Assistant Award** , Carnegie Mellon University (2023)
- **Dean's List** , University of Cincinnati (2017-2021)