# Linji (Joey) Wang

*AI Research Engineer*

✉ joewwang@outlook.com  📞 +1 412-888-6071
🌐 linjiwang.com  in LinkedIn  ⌗ GitHub

## Objective

Seeking opportunities to advance the field of artificial intelligence through cutting-edge research in deep learning, computer vision, and neural architecture search.

## 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

## Selected Publications

1. **L. Wang**, J. Smith, A. Johnson (2024). *Adaptive Curriculum Learning for Robotic Manipulation Tasks* . IEEE International Conference on Robotics and Automation (ICRA).

2. **L. Wang**, M. Chen (2023). *Real-time 3D Scene Understanding for Augmented Reality Applications* . International Conference on Computer Vision (ICCV) Workshop.

3. **L. Wang** (2022). *Neural Style Transfer: A Comprehensive Study of GAN Architectures* . CMU Machine Learning Department Technical Report.

## 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

## Key Projects

**Curriculum Learning for Robotic Manipulation**  (2023 - Present)
Developing adaptive curriculum generation methods for training robotic policies
*Technologies: PyTorch, IsaacGym, ROS2*

**Vision-based 3D Scene Understanding**  (2021 - 2023)
Real-time 3D reconstruction and semantic segmentation for AR applications
*Technologies: OpenCV, PCL, CUDA, Unity*

**GAN-based Image Style Transfer**  (2022)
Implemented and optimized various GAN architectures for artistic style transfer
*Technologies: PyTorch, Jupyter, Docker*

## Technical Skills

**Primary** : Deep Learning, Computer Vision, Neural Architecture Search, Generative AI

**Frameworks** : PyTorch, TensorFlow, JAX, Transformers

**Research** : Paper Writing, Experiment Design, Statistical Analysis, Research Methodology

**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)