

# ERIC ZHU

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<https://github.com/EricZhu718>

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## EDUCATION

### Carnegie Mellon University (CMU)

Sept 2025 - May 2027 (expected)

- MS in Robotics, GPA: 4.17/4.0

### University of Maryland (UMD)

Sept 2021 - May 2025

- BS in Computer Science (with Honors) and Mathematics
- GPA: 3.98/4.0, Magna Cum Laude, top 5% of graduating class

**Relevant Coursework:** Deep Learning, Computer Vision, Data Science, ML for Robotics, Robotics, Algorithms, Reinforcement Learning

## RELEVANT EXPERIENCE

### CMU AutonLab, Research Assistant

Sept 2025 - May 2027

- Developed autonomous driving models using imitation learning and diffusion models
- Performed diffusion-evolution search for safe autonomous driving

### UMD Perception and Intelligence Group, Research Assistant

Sept 2022 - Aug 2025

- Created reinforcement learning and behavior cloning algorithms for robotic policies
- Used Neural Radiance Field machine learning networks for 3D consistent data augmentation
- First Author Paper to CoRL 2025 Workshop
- Submitted RLHF Diffusion paper to CVPR 2026

### Amazon, Software Development Engineering Intern

June 2023 - Aug 2023

- Used React.js and Typescript to create visual maps to visualize warehouse robot positions
- Used Amazon Web Services (AWS) to retrieve real-time robot position data for a web application

## PUBLICATIONS

### Timestep-Weighted Transitions With Hardmined History For Sample Efficient RLHF Diffusion Training

- E. Zhu, A. Shrivastava, S. Mukhopadhyay
- Under review for CVPR 2026

### NeRF-Aug: Data Augmentation for Robotics with Neural Radiance Fields (<https://nerf-aug.github.io/>)

- E. Zhu, M. Levy, M. Gwilliam, A. Shrivastava
- Spotlight (Top 4 Papers) at Conference on Robot Learning (CoRL) 2025 Robot Data Workshop

### Maternal depressive symptoms, attendance of sessions and reduction of home safety problems in a randomized toddler safety promotion intervention trial

- Y. Wang, E. Zhu, E. Hager, M. Black
- Accepted into the medical Journal PLOS ONE (2022).

### Hindsight Experience Replay in the Visual Domain With Novel View Synthesis Networks

- Undergraduate honors thesis

## ACTIVITIES

### University of Maryland Teaching Assistant

Aug 2022 - Dec 2022

- TA for two classes: Algorithms and Object-Oriented Design II  
Jan 2024 - Dec 2024
- Supported the course instructor by holding weekly office hours to assist the students with understanding course material, homework questions and grading homework and discussion sections (~10 hours per week)

## SKILLS

**Packages:** Pytorch, Opencv2, Sklearn, Pybullet, Matplotlib, Pandas, Numpy, Socket

**Languages:** Python, Matlab, Java, C, Javascript/HTML/CSS, Swift