

# Ada Lovelemon

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## EDUCATION

**Institute of Automation, CASIA**

Beijing, China

*Ph.D. in Multimodal AI Systems (Expected)*

Sept 2026

**Xi'an Jiaotong University**

Xi'an, China

*B.S. in Artificial Intelligence*

Sept 2022 – Present

- **Rank:** 2 / 64, **GPA:** 92.8 / 100

## RESEARCH EXPERIENCE

**Monocular Depth Estimation**

Jan 2025 – Aug 2025

*Supervised by Prof. Xiangyu Xu, Xi'an Jiaotong University*

- Developed a pipeline using **Memory Models** to estimate specific poses of rigid bodies from RGB images.
- Implemented **RANSAC** algorithms to align point clouds with relative depth maps for accurate monocular depth estimation.
- Enhanced model generalization through **self-supervised iterative training**.
- **Key Contribution:** Refactored model code, constructed custom datasets, and optimized training loops to boost performance.

**Summer Research Program**

Jul 2024

*NUS Computing Summer Workshop, National University of Singapore (NUS)*

- Engineered an autonomous robot using **Computer Vision** (OpenCV) and **Raspberry Pi** for real-time object tracking.
- Implemented optimized **A\* algorithms** for path planning and designed custom mechanical grippers for precise manipulation.
- Developed low-latency **Pi-Arduino** communication protocols with a responsive user interface for real-time control.
- **Achievement:** Secured **Grade A+** for exceptional system integration and efficiency.

## INTERSHIPS

**Beijing Smarter Eye Technology Co., Ltd**

Beijing, China

*Developer Intern*

Jun. 2025 – Jul. 2025

- Spearheaded the curation of a high-quality camera calibration dataset, ensuring data diversity and precision for robust model training.
- Engineered an automated PyQt-based client to facilitate seamless data transmission into Dockerized validation containers, greatly reducing manual intervention and significantly accelerating the testing lifecycle.

## AWARDS

**National Scholarship**

(Top 0.4%)

*Ministry of Education, China*

2025

**University First-Class Scholarship**

(Top 1%)

*Xi'an Jiaotong University*

2024

## COMPETITIONS

**National College Student Mathematical Modeling Competition**

Provincial Level

*First Prize*

2024

**National College Student Mathematics Competition**

Provincial Level

*First Prize*

2024