

# Ruize He

✉ [herz23@mails.tsinghua.edu.cn](mailto:herz23@mails.tsinghua.edu.cn)

🌐 [horizonll.github.io](https://horizonll.github.io)

🌐 Horizonll



## Education

2023–Present **School of Vehicle and Mobility, Tsinghua University (THU)**  
B.E. Student in Vehicle Engineering

## Research

### Research Interests

**Machine Learning**

**Robotics**

**Autonomous Driving**

### Research Experience

12/2024– **LEAP Lab**, Department of Automation, THU  
Present Efficient Multimodal Large Language Model  
Advisor: Prof. Gao Huang  
03/2024– **iDLab**, School of Vehicle and Mobility, THU  
05/2025 Robot Localization  
Advisor: Prof. Shengbo Eben Li

## Awards and Scholarships

2025	Toyota × Future Mobility Innovation Challenge	First Prize
2025	RoboCup China Open 2025, Humanoid League	Champion
2025	Challenge Cup, THU	Second Prize
2024	Global Campus AI Algorithm Elite Competition, China	First Prize
2024	Global Campus AI Algorithm Elite Competition, Beijing	TOP 1
2024	Chen Xiaoyue Scholarship, THU	
2024	Hardware Design Competition, THU	Third Prize
2024	Hardware Design Competition People's Livelihood Track, THU	First Prize
2024	RoboCup 2024, Humanoid League AdultSize	5th Place
2024	RoboCup 2024, Humanoid League KidSize	TOP 8
2024	Intelligent Vehicle Competition, THU	First Prize
2024	RoboCup China Open 2024, Humanoid League	Champion
2024	Intelligent Vehicle Competition, THU	Excellence Award

---

## Professional Activities

### Teaching Assistant

Spring 2025 **Intelligent Car**

Fall 2024 **Humanoid Soccer Robot**

Fall 2024 **Exploration to Scientific Research of Lab**

### Decision Group Leader, THMOS

09/2024– *THMOS, a RoboCup Team of THU*

- 05/2025 - Lead the decision group to develop multi-robot decision-making algorithms of the humanoid soccer robots
- Developing robotic motion with reinforcement learning

---

## Skills

Python, C/C++, ROS, Linux, PyTorch, Isaac Sim, Isaac Lab