Runhan Huang

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Institute for Interdisciplinary Information Sciences, Tsinghua University

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Education

Andrew Yao Class, Tsinghua University Bachelor of Science in Computer Science (GPA: 3.87 / 4.00)

Experience

MARS Lab, IIIS & Shanghai Qizhi Institute Research Assistant

• Advised by Prof. Hang Zhao

Du Lab, Kempner Institute, Harvard University Visiting Researcher

September 2022 - Now Beijing

> June 2024 – Now Beijing

March 2025 – September 2025 MA, USA

• Advised by Prof. Yilun Du

Publications

- [P1] **Runhan Huang***, Shaoting Zhu*, Yilun Du, Hang Zhao. "MoELoco: Mixture of Experts for Multitask Locomotion," *arxiv*, 2025.
- [P2] Shaoting Zhu*, Linzhan Mou*, Derun Li, Baijun Ye, **Runhan Huang**, Hang Zhao. "VR-Robo: A Real-to-Sim-to-Real Framework for Visual Robot Navigation and Locomotion," *arxiv*, 2025.
- [P3] Shaoting Zhu, **Runhan Huang**, Linzhan Mou, Hang Zhao. "Robust Robot Walker: Learning Agile Locomotion over Tiny Traps," *ICRA*, 2025.

Projects

Automatic offside detection system | Computer Vision Course Project

- Designed an automatic soccer offside detection pipeline.
- Constructed a high-quality soccer offside dataset
- Developed an automatic soccer offside detection system by training deep learning models and applying computer vision methods

An LLM application : Situation Puzzle Game | Deep Learning Cource Project

- Developed a webpage application : Situation Puzzle Game (also known as "Turtle Soup")
- Built an application webpage using streamlit and LLM APIs.
- · Conducted detailed prompt engineering.

Implicitly Exploit the Modularity in Multimodal Large Language Models | Multimodal Machine Learning Course Project

- Proposed a new gradient update strategy for visual instruction tuning
- Trained a LVLM based on phi-2 model, achieving good performance

Skills

Programming: C, C++, Python, Pytorch, ROS

Key Course Taken: C/C++ Programming (A+), Calculus (A), Linear Algebra (A), General Phisics (A+), Algorithm, Probability and Statistic, Machine Learning, Deep Learning, Multimodal Machine Learning (A+), Computer Vision (A), Theoretical Computer Science, Reinforcement Learning, Autonomous Driving (A+), Advanced Computer Graphics (A)

Extracurricular experience

IIIS Soccer Team

Captain

• Led a soccer team of 30 students and managed the soccer club of IIIS.

Jan 2024 – Now Beijing