

JINGYUAN LIU

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EDUCATION

Fudan University, Shanghai, China 2023 – Present

B.S. in Software Engineering, expected June 2027

GPA: 3.71/4.00

Artificial Intelligence (Honor Class): A, Computer Graphics: A, Introduction to Robotic Programming: A

RESEARCH INTEREST

Learning-based Robotic Manipulation, Embodied AI, World Model

EXPERIENCE

Fudan Vision and Learning Lab, Shanghai, China 2025.02 – Present

Student Intern Advisor: Zuxuan Wu

Research in robotic manipulation.

- Used Mimicgen (an autonomous data generation pipeline) to train and evaluate the robustness of Diffusion Policy for robotic manipulation tasks.
- Extended 3D Diffusion Policy to multi-task scenarios.
- Currently developing algorithms that utilize optical flow for enhanced visual representation and perception in robotic manipulation.

Fudan Public Performance and Information Research Center, Shanghai, China 2024.06 – 2025.02

Student Intern Advisor: Junyu Niu

Participating in the development of LLM for taxation applications, focusing on database construction and data analysis.

- Data collection, annotation and feature extraction using LLMs
- Audio data processing

CLASS PROJECTS

- **Robot Navigation System**
Developing a robotic navigation system in ROS, implementing Dijkstra and A* algorithm for global path planning and VFH algorithm for local path planning and obstacle avoidance.
- **Mini Raytracer for Image Rendering**
Built a high-performance ray tracing engine based on TinyRayTracer, support basic shading and acceleration structures.
- **LLM Evaluation Platform**
Designed and implemented a web-based platform for dataset management and LLM evaluation.

SKILLS

- **Programming Languages:** C, Python, C++, Java
- **Tools:** Linux, Git, CMake
- **Deep Learning:** Proficient in building, training, and optimizing models using PyTorch
- **English Proficiency:** TOEFL 101, Duolinguo 145; Skilled in researching, comprehending, and synthesizing information from English academic literature and technical documentation.

HONORS AND AWARDS

Fudan University Outstanding Student Award (Second Prize)

2024.12

Honorable Mention in Mathematical Contest in Modeling

2025