

Yaoyu He

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Education

ShanghaiTech University, Shanghai, China, Computer Science 2022.09 - 2026.06
(Expected)

- GPA: 3.59/4.0
- **Coursework:** Computer Architecture(GPA: 4.0), Introduction to Machine Learning(GPA: 4.0), Deep Learning(GPA: 4.0), Artificial Intelligence(GPA: 4.0), Computer Vision(GPA: 4.0), Machine Learning, Numerical Optimization

Research and Work Experience

LumiAni Technology Co., Ltd Developer and Researcher 2023.06 - 2024.07

- Independently responsible for the development of stable diffusion plug-in
- Responsible for 3D Gaussian reconstruction and Colmap calibration process, and responsible for the optimization of stable diffusion animationDiff plug-in, providing data support for the paper.
- Responsible for the calibration of mice and the analysis of mouse action behavior, and action reconstruction.

Shanghai Elan Smart Sense Information Technology Co.,LTD. 2024.07 - now

- Responsible for data processing. Independently handle the cleaning and correspondence of more than 30,000 text data and IMU data, and regenerate text data
- Independently responsible for the construction and debugging of LLM modules, using Qwen, flan-t5, gpt2 and other large language models for debugging. Implemented a conversion module that converts IMU semantic information into LLM semantic space.
- Lead the website construction part, independently design the website architecture, and lead other students to complete the website construction
- Use LoRA to fine-tune and optimize the large language model, and use DPO human preferences to optimize the output of the large language model

Publications

Sophia-in-Audition: Virtual Production with a Robot Performer 2024.02
Taotao Zhou, Teng Xu, Dong Zhang, Yuyang Jiao, Peijun Xu, **Yaoyu He**, Lan Xu, Jingyi Yu
[2402.06978](#) [🔗](#)

Projects

Coursebench [coursebench-frontend](#) [🔗](#)

- Develop a website about the course selection page
- Tools Used: JavaScript, Vue, Vuetify

QtNotepad [QtNotepad](#) [🔗](#)

- Developed a desktop notepad with Qt
- Tools Used: C++, Qt

Technologies

Languages: Python, C++, JavaScript, Typescript, Rust, C, Java, C#,

Technologies: PyTorch, Qt, React, Vue, Tauri, Unity, SpringBoot