



Yejia Liu



上海交通大学
SHANGHAI JIAO TONG UNIVERSITY

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Education: Undergraduate

Education Experience

Shanghai Jiao Tong University | UM-SJTU Joint Institute

2021.9- now

Electrical and Computer Engineering Program

Overall GPA 3.7/4.0 Ranking 17/132

Technical University of Munich | Electrical Engineering and Information Technology **2024.4- 2024.8**

Exchange program in Electrical and Computer Engineering

Scholarship

2023 and 2024 UM-SJTU Joint Institute Yu Leming Scholarships

2023 and 2024 B Merit Scholarship

Undergraduate scholarship for Academic Progress

Program Experience

Undergraduate Research Course at JI

2024.1-2024.3

- Background: This research project employs a multi-angle camera system and Neural Radiance Fields (NeRF) to reconstruct fuel sprays in three dimensions, aiming to enhance the understanding of spray morphology beyond the limitations of 2D imaging.
- I learned the camera calibration using a cylindrical ChArUco calibration target and adjusted the NeRF codes according to the setting of spray reconstruction.

University Student Innovation Program

2023.9-2024.1

- Background: Second author of paper entitled "ProSGNeRF: Progressive Dynamic Neural Scene Graph with Frequency Modulated Auto-Encoder in Urban Scenes". This project proposes a view synthesis method for dynamic objects and backgrounds in large-scale urban scenes under dynamic cameras.
- My research work includes implementing frequency modulation functions and background related functions, writing evaluation functions, tuning parameters, and writing the paper, which is being submitted for publication.

"International AI Talent Development Program for Universities"

2023.08.21 – 2023.08.25

Trainee

Campus Talent Recruiter

- Learned cutting-edge AI technologies like Llama 2, BigDL-LLM, yolov7, OpenVINO and DI-engine through hands-on projects. Applied knowledge to real-world scenarios to master deployment of AI technologies in practical applications.

University Activities

- Teaching Assistant: 2024.02– 2024.04 While working as a chemistry lab teaching assistant, I was responsible for guiding my classmates through experiments, providing answers to their questions, offering guidance on writing lab reports, and grading assignments after class.

Personal Skills

- **Programming Language:** C, C++, Python, Deep Learning(Pytorch), matlab