Jiuming Liu

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Google scholar: https://scholar.google.com/citations?user=j4YXCukAAAAJ&hl=en

EDUCATION

Shanghai Jiao Tong University   Sep. 2022 – Now
Master of Engineering   Shanghai, China

Currently, I am a second-year master student, supervised by Prof.Hesheng Wang (General chair of IROS 2025). My research interests include 3D vision, diffusion model, transformer, point cloud registration, LiDAR odometry, NeRF etc.

The Chinese University of Hong Kong   June. 2023 – Aug. 2023
Research Assistant   HongKong, China

I also served as a research assistant at T Stone Robotics Institute at CUHK, advised by Prof.Yunhui Liu.

Harbin Institute of Technology   Sep. 2018 – Jun. 2022
Bachelor of Engineering   Harbin, China

My major is Automation. With an average score of **95.13/100**, I am ranking the **second** among all 163 students **(top 1.23%)**. Besides, I obtained a **second bachelor's** degree of the Intelligent Unmanned System.

RESEARCH

- **Publications**   Sep. 2022 – Present

[1] **Liu J***, Wang G, Jiang C, et al. TransLO: A Window-Based Masked Point Transformer Framework for Large-Scale LiDAR Odometry. (**AAAI 2023**)

[2] **Liu J***, Wang G, Liu Z, Jiang C, M Pollefeys, and Wang H. Regformer: An efficient projection-aware transformer network for large-scale point cloud registration. (**ICCV 2023**)

[3]**Liu J***, Wang G, Ye W, et al. DifFlow3D: Toward Robust Uncertainty-Aware Scene Flow Estimation with Iterative Diffusion-based Refinement. Accepted by (**CVPR 2024**)

[4]S Zhu, G Wang, H Blum, **J Liu***, L Song, M Pollefeys, H Wang, Sni-slam: Semantic neural implicit slam. Accepted by (**CVPR 2024**)

[5]Jiang C, Wang G, **Liu J***, et.al. 3DSFLabelling: Boosting 3D Scene Flow Estimation by Pseudo Auto-labeling. Accepted by (**CVPR 2024**)

- **Competitions**   Sep. 2018 – Present

[1]The National Collegiate Mathematical Contest in Modelling: As the team leader, we created an effective model which could assess the credit risk using the clustering analysis. We received the 2nd prize in the Heilongjiang area.

[2]The National Collegiate Electronic Design Competition: I was responsible for the visual task and accomplished both color and shape recognition of the object.

[3]The Interdisciplinary Contest in modeling : I was the group leader to tackle the issue of environmental migration due to the rising sea level. We received Honorable Mention Award.

SOCIAL EXPERIENCE

Vice President of the Student Union

Services in organizing a number of events and activities, including：

1) Inaugural Lilac Cultural Festival on campus.

2) Volunteers of university volleyball games, space knowledge competition.

Reviewer for CVPR 2024, ECCV 2024, ICIAR 2023

LANGUAGE PROFICIENCY

- IELTS: 6.5 (Reading: 8.0, Writing: 6.0, Listening: 6.5, Speaking: 5.5)

- 2nd prize in the National English Competition for College Students (2019)

- CET6: 566 CET4: 600

- 2nd prize in the 5th National Academic English Vocabulary Competition

AWARDS, SKILLS & INTERESTS

- **Awards:** The National Scholarship (both undergraduate and master), Yu Menglun Scholarship, 5 times University First-class Scholarships, Excellent League Leader (University), Outstanding Student Leader (University)

- **Technical Skills:** Python, Pytorch, MATLAB, C/C++

- **Interests:** Skating, skiing, swimming, guitar, reading