Jiuming Liu

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EDUCATION

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

My field of study is Automation in the School of Aeronautics. With an average score of 95.13/100, I am ranking the **second** among 163 students **(1.23%)** in the major. Besides, I have been working on the Intelligent Unmanned System for a **second bachelor**'s degree.

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

Currently, I am a second-year master student in SJTU. My research interests include 3D vision and generation model, in particular, **transformer**, point cloud registration, LiDAR odometry, **diffusion model**, **NeRF** etc. I also work closely with **T Stone Robotics Institute at CUHK**, advised by Prof.Yunhui Liu.

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[C]//Proceedings of the AAAI Conference on Artificial Intelligence. 2023, 37(2): 1683-1691.

    [2] Jiuming Liu, Guangming Wang, Zhe Liu, Chaokang Jiang,Marc Pollefeys, and Hesheng Wang. Regformer: An efficient projection-aware transformer network for large-scale point cloud registration. In ICCV, pages 8451–8460, 2023.

    [3]Liu J, Wang G, Ye W, et al. DifFlow3D: Toward Robust Uncertainty-Aware Scene Flow Estimation with Diffusion Model[J]. arXiv preprint arXiv:2311.17456, 2023.

- **Competitions**   Sep. 2018 – Present

    [1]The National Collegiate Mathematical Contest in Modelling: As the team leader, our team created an effective model which could assess the credit risk using the clustering analysis and logistic regression. 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. Our group established a model based on Malthusian population model and Cellular Automata Algorithm. We received Honorable Mention Award.

SOCIAL EXPERIENCE

Vice President of the Student Union

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

- The second Harbin Space Knowledge Competition for high school students
- The inaugural Lilac Cultural Festival on campus
- Volunteers of university volleyball games

LANGUAGE PROFICIENCY

- CET6: 566 CET4: 600
- 2nd prize in the National English Competition for College Students (2019)
- IELTS: 6.5 (Reading: 8.0, Writing: 6.0, Listening: 6.5, Speaking: 5.5)
- 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

    Honors: Excellent League Leader (University), Outstanding Student Leader (University)

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

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