YIXIAO FENG

Email: yfeng859@connect.hkust-gz.edu.cn Homepage: https://yixfeng.github.io Address: Guangzhou, Guangdong

EDUCATION

Hong Kong University of Science and Technology (Guangzhou) Sep. 2025 - Present

Doctor of Philosophy in Robotics and Autonomous Systems | supervised by Prof. Renjing XU

University of New South Wales

Master of Engineering Science in Robotics (with Excellence) | supervised by Dr. Jose Guivant

Beijing University of Chemical Technology

Sep. 2018 - Jun. 2022

Oct. 2021 - Dec. 2022

Feb. 2023 - Jan. 2025

Bachelor of Engineering in Mechanical Design, Manufacturing and Its Automation

Publications

C=Conference, J=Journal, S=In submission

- [C.1] Meijun Guo, Yongliang Shi, Caiyun Liu, Yixiao Feng, Ming Ma, Tinghai Yan, Weining Lu[†], Bin Liang[†]. Robust and High-Fidelity 3D Gaussian Splatting: Fusing Pose Priors and Geometry Constraints for Texture-Deficient Outdoor Scenes. IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2025.
- [C.2] Weining Lu, Deer Bin, Lian Ma, Ming Ma, Zhihao Ma, Xiangyang Chen, Longfei Wang, Yixiao Feng, Zhouxian Jiang, Yongliang Shi[†], Bin Liang[†]. Semi-distributed Cross-modal Air-Ground Relative Localization. IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2025.
- [C.3] Yixiao Feng*, Zhou Jiang*, Yongliang Shi[†], Yunlong Feng, Xiangyu Chen, Hao Zhao, and Guyue Zhou. Block-Map-Based Localization in Large-Scale Environment. IEEE International Conference on Robotics and Automation (ICRA), 2024.
- [S.1] Yunheng Wang*, Yuetong Fang*, Taowen Wang*, Yixiao Feng*, Yawen Tan, Shuning Zhang, Peiran Liu, Yiding Ji, Renjing Xu[†]. DreamNav: A Trajectory-Based Imaginative Framework for Zero-Shot Vision-and-Language Navigation. IEEE International Conference on Robotics and Automation (ICRA), 2026.

Work Experiences

Hong Kong University of Science and Technology (Guangzhou) Jun. 2025 - Sep. 2025

Research Assistant | supervised by Prof. Renjing XU

Job Duties: Humanoid Whole-body Control for Highly-dynamic Motions

Beijing National Research Center for Information Science and Technology Dec. 2024 - May 2025

Research Intern | supervised by Dr. Yongliang SHI and Dr. Weining LU

Job Duties: Illumination-robust Multi-modal Odometry via Thermal Fusion

Institute for AI Industry Research, Tsinghua University Research Intern | supervised by Dr. Yongliang SHI and Prof. Guyue ZHOU

Job Duties: Multi-modal Localization and Scene Reconstruction for Mobile Robots in Large-scale Environments

SKILLS SUMMARY

- ♦ **Programming Languages:** C/C++, Python, Matlab
- ♦ Software Technology: ROS, Pytorch, Isaac Sim, Issac Gym, GTSAM, OpenCV
- Hardware Technology: SolidWorks, CAD, Onshape
- ♦ Language Proficiency: Mandarin (Native), English (TOEFL 23R/22L/23S/26W)

Honors and Awards

- ♦ Second Prize in Beijing & Third Prize at the National Level of the 7th China International College Students' "Internet+" Innovation and Entrepreneurship Competition
- ♦ Second Prize of 2021 RoboCup China Open & RCAP Tianjin Invitational Tournament @HOME Open Platform
- ♦ Third Prize of 2020 Asia and Pacific Mathematical Contest in Modeling
- ♦ First Prize of Business Class & Third Prize of Provincial and Ministerial Level of the 6th China International College Students' "Internet+" Innovation and Entrepreneurship Competition Red Dream Journey for Youth
- Outstanding Social Work Award "Science and Technology Star" Scholarship in 2019
- ♦ Second Prize of Robot Combat and Robot Sprint in "Softbank Robot Cup" 2019 China Robot Skills Competition