



**Chen FENG**

冯宸

Ph.D. Candidate

Robotics & Deep Learning

The Hong Kong University of Science and Technology

+852-51914094

✉ cfengag@connect.ust.hk

✉ albertfeng0405@gmail.com

🐙 GitHub Profile

🔗 Google Scholar

## EDUCATION

- **The Hong Kong University of Science and Technology** 2021.09-Present  
*Ph.D. Candidate, Electronic and Computer Engineering* Supervisor: Prof. Shaojie SHEN
- **Harbin Institute of Technology** 2017.08-2021.06  
*Bachelor of Engineering, Mechatronics Engineering* Supervisor: Prof. Lijun ZHAO

## EXPERIENCE

- **FASTLab, Zhejiang University** 2022.05-2023.01  
*Visiting Student* Hangzhou, China  
– Autonomous Aerial Reconstruction & Motion Planning collaborating with Prof. Fei GAO.
- **Megvii Research** 2021.05-2021.09  
*Research Intern* Beijing, China  
– Trajectory Prediction & Lane Detection working with Hangning ZHOU and Dr. Chi ZHANG.
- **Harbin Institute of Technology Competition Robotics Team (HITCRT)** 2019.08-2020.08  
*Vice Captain* Harbin, China  
– Robot Vision Technical Support & Achieved 2020 DJI RoboMaster National First Prize.

## PUBLICATIONS

- **Star-Searcher: A Complete and Efficient Aerial System for Autonomous Target Search in Complex Unknown Environments**  
*Submitted to IEEE Robotics and Automation Letters (RA-L)*  
– Yiming Luo, Zixuan Zhuang, Neng Pan, **Chen Feng**, Shaojie Shen, Fei Gao, Hui Cheng, and Boyu Zhou
- **FC-Planner: A Skeleton-guided Planning Framework for Fast Aerial Coverage of Complex 3D Scenes**  
*Submitted to IEEE International Conference on Robotics and Automation (ICRA), 2024*  
– **Chen Feng**, Haojia Li, Jinqi Jiang, Xinyi Chen, SHaojie Shen, and Boyu Zhou
- **MASSTAR: A Multi-Modal Large-Scale Scene Dataset with a Versatile Toolchain for Surface Prediction and Completion**  
*Submitted to IEEE International Conference on Robotics and Automation (ICRA), 2024*  
– Jinqi Jiang\*, Guiyong Zheng\*, **Chen Feng**\*(co-first), SHaojie Shen, and Boyu Zhou
- **MacFormer: Map-Agent Coupled Transformer for Real-time and Robust Trajectory Prediction**  
*IEEE Robotics and Automation Letters (RA-L), 2023*  
– **Chen Feng**, Hangning Zhou, Huadong Lin, Zhigang Zhang, Ziyao Xu, Chi Zhang, Boyu Zhou, and Shaojie Shen
- **AutoTrans: A Complete Planning and Control Framework for Autonomous UAV Payload Transportation**  
*IEEE Robotics and Automation Letters (RA-L), 2023*  
– Haojia Li, Haokun Wang, **Chen Feng**, Fei Gao, Boyu Zhou, and Shaojie Shen
- **PredRecon: A Prediction-boosted Planning Framework for Fast and High-quality Autonomous Aerial Reconstruction**  
*IEEE International Conference on Robotics and Automation (ICRA), 2023*  
– **Chen Feng**, Haojia Li, Fei Gao, Boyu Zhou, and Shaojie Shen
- **TENET: Transformer Encoding Network for Effective Temporal Flow on Motion Prediction**  
*IEEE/CVF Computer Vision and Pattern Recognition Conference Workshop on Autonomous Driving (CVPRW), 2022*  
– Yuting Wang\*, Hangning Zhou\*, Zhigang Zhang\*, **Chen Feng**, Huadong Lin, Chaofei Gao, Yizhi Tang, Zhenting Zhao, Shiyu Zhang, Jie Guo, Xuefeng Wang, Ziyao Xu, and Chi Zhang

## TECHNICAL SKILLS

**Languages:** English (Fluent)/Chinese (Native)

**Programming Tools:** Python/C++/Matlab

**Frameworks:** PyTorch/MegEngine/ROS/Linux

## SERVICE

---

- Reviewer:** ICRA, IROS, RA-L, CVPR
- Teaching Assistant:** ELEC1100 Introduction to Electro-Robot Design

## SELECTED AWARDS

---

- Outstanding Graduate** - Harbin Institute of Technology *2021.06*
- ABU ROBOCON Robotics Competition First Prize** - Asia Broadcasting Union *2020.08*
- RoboMaster National First Prize** - DJI *2019.08 & 2020.08*
- Outstanding Student** - Harbin Institute of Technology *2018.12*
- National Scholarship** - Ministry of Education, PRC *2018.12*