Liu Dai

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EDUCATION

Tongji University

Shanghai, China

B.Eng. in Computer Science, College of Electronic & Information Engineering.

Sept. 2019 - July. 2024

- Gap Year for Research: Sept. 2021 - Sept. 2022

PUBLICATION

*: equivalent contribution, #: corresponding author.

- 3D-Aware Object Goal Navigation via Simultaneous Exploration and Identification Jiazhao Zhang*, Liu Dai*, Fanpeng Meng, Qingnan Fan, Xuelin Chen, Kai Xu, He Wang# Submitted to IEEE/CVF Computer Vision and Pattern Recognition Conference(CVPR) 2023
- Discovering Novel Categories in SAR Images in Open Set Conditions Liu Dai, Weiwei Guo#, Zenghui Zhang, Wenxian Yu Published at IEEE/GRSS International Geoscience and Remote Sensing Symposium(IGARSS) 2022

EXPERIENCE

RESEARCH EXPERIENCE

Peking University

Beijing, China

Mar. 2022 - Present

Undergraduate Research Intern, Center on Frontiers of Computing Studies

Advisor: **Prof. He Wang**

Topic: Active 3D Scene Understanding & Navigation

- We built 3D-aware intelligent agent for Object Goal Navigation Task.
- I conducted part of method design, coding, writing & plotting. It was my first time to step into 3D Vision, and I found it really exciting & promising to build embodied AI for real- and open-world, for which 3D-vision-related techniques are almost indispensable.

Tongji-MIT City Science Lab

Shanghai, China

Undergraduate Research Intern

Sept. 2021 - Mar. 2022

Advisor: **Prof. Weiwei Guo**

Topic: Remote Sensing Image Interpretation with Deep Learning in Open & Challenging World

- To the best of our knowledge, we were the first to introduce Novel Category Discovery(NCD) into the remote sensing community. We started from a application-driven problem: When encountered with new and unlabelled SAR data, what can we do to make best use of that much data we have labelled?
- The project itself introduced me into Deep Learning & Computer Vision and piqued my interest in the setting of open-world. I undertook the most of coding, writing & plotting.

TEACHING EXPERIENCE

Teaching Assistant for Opensource Hardware and Programming (55010501)

Tongji University 2021 Fall

Working with Prof. Xiaohua Sun

- Delivering courses on Python & Arduino

Honors

	Tongii Academic Star	202	6
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- Highest Honor for Undergrads in Tongji University.
- Top 1 among All Candidates.
- Outstanding Student Scholarship of Tongji University

2020, 2021

AWARDS

• National First Prize in Challenge Cup Competition: Research Track

2021

- Most Influential Research Competition among University Students in China.
- Best Record in College History.
- Gold Award of Shanghai in Internet+ Competition

2022

• Gold Award of Shanghai in Challenge Cup Competition: Entrepreneurship Track

2022

- Silver Award of Shanghai in National College Student "Innovation, Creativity&Entrepreneurship" Challenge 2022
- Second Prize of Shanghai & Univ. Champion in FLTRP Cup National English Public Speaking Contest 20

SKILLS

- **Programming:** C/C++, Python, Arduino;
- Tools: Pytorch, OpenCV, Open3D, Habitat Simulator;
- Other Skills: Public Speaking, Presentation;

LANGUAGE

• English: Fluent

• Chinese: Native

• French: Basic