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<sup>†</sup> Accepted 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<sup>†</sup>, Zenghui Zhang, Wenxian Yu Published at IEEE/GRSS International Geoscience and Remote Sensing Symposium (IGARSS) 2022, Oral

## Experience

#### Research Experience

## University of California, San Diego

Undergraduate Research Intern, SU Lab

Advisor: **Prof. Hao Su** 

San Diego, California, U.S.

Apr. 2023 - Present

Mar. 2022 - Present

Beijing, China

#### Peking University

Undergraduate Research Intern, Center on Frontiers of Computing Studies

Advisor: **Prof. He Wang** 

Proj.: Active 3D Scene Understanding & Navigation

- We propose a framework for the challenging 3D-aware Object Goal navigation task, empowered by two simultaneous sub-policies. I conducted part of method design, coding, writing & plotting.
- It was my first time to step into 3D Vision & Embodied AI, and I found it really exciting and promising to build active agents for the real- and open-world.

**Proj.**: Mobile Manipulation

#### Tongji-MIT City Science Lab

Undergraduate Research Intern Advisor: **Prof. Weiwei Guo** 

Shanghai, China Sept. 2021 - Mar. 2022

Proj.: Remote Sensing Image Interpretation with Deep Learning in the Open & Challenging World

- We introduce Novel Category Discovery (NCD) into the remote sensing community. We started from an application-driven problem: When encountered with new and unlabelled SAR data, what can we do to make the best of that much data we have labelled? The project piqued my interest in the setting of open-world. I undertook the most of coding, writing & plotting independently.

### TEACHING EXPERIENCE

**Teaching Assistant** for Opensource Hardware and Programming (55010501) Working with Prof. Xiaohua Sun

Tongji University 2021 Fall

- Delivering courses on Python & Arduino

## Honors

• SenseTime Scholarship 2022

 $-\,$  Nationwide Selected 30 Undergraduates in the Field of AI.

• Tongji Academic Star 2022

- Highest Honor for Undergrads at Tongji University (15/18536).

- Rank 1st among All Recipients.

• 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.

• National Silver Award in Challenge Cup Competition: Entrepreneurship Track 2023

Best Record in College History.

• Gold Award of Shanghai in Internet+ Competition 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 2020

## SKILLS

• **Programming:** C/C++, Python, Arduino;

• Tools: Pytorch, OpenCV, Open3D, Habitat Simulator;

• Other Skills: Public Speaking, Presentation;

## LANGUAGE

English: FluentMandarin: Native

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• French: Basic