

# YUJING JU

✉ yj2012@hw.ac.uk · ☎ (+86) 156-2117-9129 · in Yujing Ju

## 🎓 EDUCATION

**Ocean University of China (OUC)**, Qingdao, China 2021 – Present

*Undergraduate student* in Computer Science and technology (CS), expected June 2025

Cumulative GPA 3.4/4.0

**Heriot-Watt University (HWU)**, Edinburgh, United Kingdom 2021 – Present

*Undergraduate student* in Robotics, expected June 2025

Cumulative GPA 3.8/4.0

## 👤 EXPERIENCE

**Data Mining Project** June. 2023 – Present

*Group Recommendation with Hypergraph Neural Network* Individual

Mentor: **Yanwei Yu**(Professor@OUC)

Brief introduction: A recommendation model related research project.

- The hypergraph results are innovatively introduced for strict temporary group recommendation, which achieves better results in both commodity recommendation and user recommendation tasks.
- The new model improves the recommendation accuracy of the best existing model MGBR by about 5%.

**Click to visit**

**Robotics Projects** Feb. 2024 – May. 2024

*C, Python, Jetson nano, Arduino uno, 24-channel steering control board* Robot Project

Brief introduction:

- YOLO-based object recognition and grasping.
- Insect capture achieved by hexapod robots. **Click to visit**

**FSU Research Intern** June. 2024 – Present

*Open Source Project* Core Contributor

Mentor: **Yushun Dong**(Assistant Professor@FSU)

Brief introduction:

- Research on graph neural network in AI Security
- Integrate and reproduce existing related models.

**AI Algorithm Engineer Intern** July. 2024 – Sep. 2024

ROS, SLAM, FAST-LIO, VINS-FUSION, Ego-Planner, Fast-Racing, Point-LIO AirSim, UnrealEngineUAV

Project Brief introduction:

- Optimize the UAV path planning algorithm.
- Lightweight large model.
- Build physical simulated environment.
- Develop lightweight VIO devices based on Binocular Camera and IMU.

## ⚙️ SKILLS

- Programming Languages: Python, C, C++, Java, HTML, CSS, Javascript, PHP, Scala
- Software Skill: Matlab, MySQL, ROS, UnrealEngine, AirSim
- Technical Skill: Markdown, Latex, ego-planner, Fast-LIO, Point-LIO, 3DGS-SLAM, VINS-Fusion
- Data Science Skill: Pytorch, Numpy, Pandas, Scipy, Tensorflow, Matplotlib, Hadoop, Spark
- Embedded Development skill: STM32, Raspberry Pi, Arduino

## ♡ HONORS AND AWARDS

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Innovation and Entrepreneurship Scholarship	2022
University-Level Outstanding Youth Volunteers	2022

## ❖ MISCELLANEOUS

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- Languages: English - Fluent, Mandarin - Native speaker
- TOEFL score: 80 (L:20 R:20 S:19 W:21)
- IELTS score 6.0 (L:6.5 R:5.5 S:6.0 W:6.5)
- GRE score: 146(Verbal) + 170(Quantitative)
- Website: <https://juyujing.github.io>
- GitHub: <https://github.com/juyujing>
- YouTube: <https://www.youtube.com/user/dyodn>