# Yujing Ju

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## 🎓 Education

**Ocean University of China (OUC)**, Shandong, China                    2021 – Present
*Undergraduate student* in Computer Science and technology (CS), expected June 2025
Cumulative GPA 3.41/4.00

**Heriot-Watt University (HWU)**, Edinburgh, United Kingdom                    2021 – Present
*Undergraduate student* in Robotics, expected June 2025
Cumulative GPA 3.87/4.00

## 👥 Experience

**Data Mining Project**                    June. 2023 – Present
*Group Recommendation with Hypergraph Neural Network*   Individual

Brief introduction: A recommendation model related research project conducted at SIGMA Lab founded by Professor Yu Yanwei

- Created a novel weighted hypergraph convolution scheme that accelerated the process of hypergraph convolution
- Incorporate contrastive learning techniques to enhance recommendation accuracy
- Subverted the conventional usage of graph neural networks through employing pre-aggregation methods to enhance the input data of the graph neural network. Improved the interpretability of the model

**Robotics Projects**                    August. 2023 – Jan. 2024
*C, Python, Linux*   Team Project

Brief introduction: Developed a Raspberry Pi-based robotic car with visual perception, ultrasound sensing, photosensitive navigation, and external display and keypad control

- Implemented sophisticated intersection detection leveraging visual perception
- Implemented intelligent path selection and loop avoidance
- Integrated multiple functionalities, with external keypad control for seamless switching

## ⚙ Skills

- Programming Languages: Python, C, Java
- Platform: Linux
- Development: Pytorch, Graph Data Mining, Machine Learning, Embedded Development

## ♡ Honors and Awards

School Scholarship                    2022
University-Level Outstanding Youth Volunteers                    2022

## ℹ Miscellaneous

- Languages: English - Fluent, Mandarin - Native speaker
- TOEFL score: 61
- GRE score: 146(Verbal) + 170(Quantitative)
- GitHub: https://github.com/dyodn2