

YUJING JU

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🎓 EDUCATION

University of Florida (UF), Gainesville, Florida, United States 2025 –
PhD student in Medical Sciences, expected June 2030

Heriot-Watt University (HWU), Edinburgh, United Kingdom 2021 – Present
Undergraduate student in Robotics, expected May 2025
Cumulative GPA 3.85/4.0

Ocean University of China (OUC), Qingdao, China 2021 – 2024
Undergraduate student in Computer Science and technology
Cumulative GPA 3.45/4.0

👤 EXPERIENCE

Honours Dissertation, Heriot-Watt University Sep. 2024 – Present
Directed and Heterogeneous Relationship for Academic Paper Recommendation Individual
Mentor: **Wei Pang**(Professor@HWU)

Brief introduction:

- Investigated directed and heterogeneous graph structure information to enhance academic paper recommendation system.
- Focused on integrating directed citation relationships and complex heterogeneous node interactions to improve model computational efficiency and recommendation accuracy.

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FSU Remote Research Intern June. 2024 – Present
Open Source Project Contributor
Mentor: **Yushun Dong**(Assistant Professor@FSU)

Brief introduction:

- Research on graph structure based mathematical model.
- Optimize and integrate existing related models.
- Improve computational efficiency in large-scale datasets.

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Group Recommendation Project June. 2023 – June, 2024
Group Recommendation with Hypergraph Neural Network Individual
Mentor: **Yanwei Yu**(Professor@OUC)

Brief introduction: A recommendation system-related research project.

- The hypergraph probability matrix are introduced for group recommendation, which achieves better results in both commodity recommendation and user recommendation tasks.
- The new model improves the recommendation system accuracy and computational efficiency.

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Robotics Projects Feb. 2024 – May. 2024
C, Python, Jetson nano, Arduino uno, 24-channel steering control board Robot Project
Mentor: **Shengke Wang**(Associate Professor@OUC)

Brief introduction:

- Vision based object recognition and grasping.
- Insect capture achieved by hexapod robots.

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SKILLS

- Programming Languages: Python, C, C++, Java, HTML, CSS, Javascript, PHP, Scala
- Software Skill: Matlab, MySQL, ROS, UnrealEngine
- Technical Skill: Markdown, Latex
- Data Science Skill: Hadoop, Spark, Numpy, Pandas, Scipy, Matplotlib
- Embedded Development skill: STM32, Raspberry Pi, Arduino

HONORS AND AWARDS

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

MISCELLANEOUS

- Languages: English - Fluent, Mandarin - Native, Japanese - Basic Proficiency
- GRE score: 146(Verbal) + 170(Quantitative)
- Website: <https://juyujing.com>
- YouTube: <https://www.youtube.com/user/dyodn>