Yujing Ju

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Education

University of Florida (UF), Gainsville, Florida, United States 2025 –

PhD student in Biological and Biomedical 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

Co-Education Program 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.
  Click to visit

FSU Remote Research Intern June. 2024 – Present

Open Source Project Contributer

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

Brief introduction:

- Research on graph structure based mathematical model.
- Optimize and integrate existing related models.
- Improve computational efficiency.
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Group Recommendation Project June. 2023 – June, 2024

Group Recommendation with Hypergraph Matrix Modeling 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 statistical model improves the recommendation 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 snail recognition and grasping.
- Snail capture achieved by hexapod robots.
  Click to visit

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, 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
- Website: **https://juyujing.com**
- YouTube: **https://www.youtube.com/user/dyodn**