Xuanzhi Liu Research Assistant

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Education

UNSW Sydney — Sydney, Australia
M.IT. in Artificial Intelligence — 2023.09 - 2025.06
- WAM: Distinction
- Courses: Computer Vision, Deep Learning, Algorithms

Guangdong University of Finance & Economics — Guangzhou, China
B.E. in Computer Science & Technology — 2019.09 - 2023.06
- GPA: Good
- Courses: Mathematics, Machine Learning, Programming
- Supervisor: Zhihua Yang

Publications

1. **Xuanzhi Liu**, Jixin Liang, Yuping Ye, Zhan Song, Juan Zhao. A Food Package Recognition and Sorting System based on Structured Light and Deep Learning. *Proceedings of the 2023 International Joint Conference on Robotics and Artificial Intelligence*, 2023.
2. **Xuanzhi Liu** et al. An Automatic Visual Recognition Method and Sorting System. *Chinese Patent*, 2023

Experience

Shenzhen University of Advanced Technology | RA — 2025.08 - Present
- Focus on VLM and MLLM Research in Computer Vision Tasks
- Literature Survey and Reproduction of SOTA Methods
- Supervisor: Song Wang & Ruize Han

Shenzhen Institute of Advanced Technology, CAS | Visiting — 2022.07 - 2023.04
- Develop Machine Vision System in downstream tasks
- Train Deep Learning Models and deploy them on hardware platform
- Supervisor: Zhan Song

Projects

Integrating Multimodal Large Models for Open-Ended Object Detection
Currently project at SUAT — 2025.08 - Present

AI Comment Moderation via RAG and Classification modelling
COMP9900 Information Technology Project, High-Distinction — 2025.02 - 2025.05

Deep Learning models for 2D Semantic Segmentation in Natural Environments
COMP9517 Computer Vision Project, Full Mark (40/40) — 2024.05 - 2024.08

Deep Learning-Based Food Package Recognition and Sorting System
Work is done during an visiting student at SIAT, Oral paper accepted — 2022.09 - 2023.02

Awards and Honors

- **Oral**, 2023 International Joint Conference on Robotics and AI — 2023.07
- **First Prize**, Outstanding Undergraduate Thesis (TOP 3%) — 2023.04
- **IELTS**, Overall 6.5 — 2022.04

Skills

Languages: Chinese, English.
Programming: `Python`, `C++`, `PyTorch`, `Java`, `Shell`, `Rust`.