Curriculum Vitae

Junshan Huang

Rutgers University
57 US Highway 1, New Brunswick, NJ 08901
https://junshanhuang.com/
junshan.huang@rutgers.edu

Educational Background

University of Science and Technology of China (USTC) September 2021 - July 2025
Bachelor of Engineering in Artificial Intelligence
Top 5%, GPA: 3.85/4.3

Rutgers University - New Brunswick September 2025 - June 2030
PhD in Computer Science (Supervised by Prof. Jingjin Yu)

Research Interests

Embodied AI, Household Robots, especially in the kitchen.

Publications

VLA-OS: Structuring and Dissecting Planning Representations and Paradigms in Vision-Language-Action Models NeurIPS 2025
Chongkai Gao, Zixuan Liu, Zhenghao Chi, **Junshan Huang**, Xin Fei, Yiwen Hou, Yuxuan Zhang, Yudi Lin, Zhirui Fang, Lin Shao

UniFaRN: Unified Transformer for Facial Reaction Generation ACMMM 2023
C. Liang, J. Wang, H. Zhang, B. Tang, **J. Huang**, S. Wang, and X. Chen, in MM '23: Proceedings of the 31st ACM International Conference on Multimedia, 2023, pp. 9506-9510.

Research Experiences

Benchmarking Vision-Language-Action (VLA) Paradigms Jan 2025 – June 2025
National University of Singapore (NUS), supervised by Prof. Lin Shao
• Developing hierarchical evaluation metrics and comprehensive benchmarks for VLA models.
• Implementing a unified evaluation framework and help conduct large-scale experiments on LIBERO, COLOSSEUM, FurnitureBench, etc.

Open-Vocabulary Detection and Relation Recognition Research Intern Jul 2024 – Dec 2024
Hong Kong University of Science and Technology (HKUST), supervised by Prof. Long Chen
• Built and evaluated scalable open-vocabulary detection and scene understanding pipelines using hyperbolic space.
• Proposed continuous surface modelin to enhance relation understanding powered by genreral knowledge in LLMs.

LLM Financial Agent System Sep 2023 – May 2024
University of Science and Technology of China (USTC), supervised by Prof. Yi Zhou
• Built an LLM-powered financial agent system supporting complex information retrieval and reasoning.
• Deployed the system in a brokerage firm's trial environment, demonstrating practical usability.

Automatic Facial Reaction Generation Apr 2023 – Jul 2023
University of Science and Technology of China (USTC), supervised by Prof. Xiaoping Chen
• Formalized facial reaction generation via tokenization and multimodal fusion methods.
• Contributed preprocessing and feature extraction code integrated into the project's final demonstration.

Skills

Programming: Python (Advanced), C/C++ (Proficient), Matlab (Intermediate)
English: TOEFL 107 (Reading 30, Listening 30, Speaking 22, Writing 25)

Honors & Awards

AI Talent Program Scholarship, USTC (only 4 Students) October 2024
Shenzhen Stock Exchange Scholarship October 2023
First Prize in ACM REACT 2023 Multimodal Challenge July 2023