

CURRICULUM VITAE

# Junshan Huang

Rutgers University  
<https://junshanhuang.com/>

57 US Highway 1, New Brunswick, NJ 08901  
[junshan.huang@rutgers.edu](mailto:junshan.huang@rutgers.edu)

## Educational Background

**University of Science and Technology of China (USTC)**  
Bachelor of Engineering in Artificial Intelligence  
Top 5%, GPA: 3.85/4.3

September 2021 - July 2025

**Rutgers University - New Brunswick**  
PhD in Computer Science (Supervised by [Prof. Jingjin Yu](#))

September 2025 - June 2030

## 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* NIPS 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, COLOS-SEUM, 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 generel 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