Yujia Chen

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Education

South China University of Technology *Sept 2021 – Jun 2025*
BS in Computer Science

- GPA: 3.83/4.0
- **Coursework:** Advanced Language programming(96), Computer Organization and Architecture(94), Mathematical Analysis for Engineering(90), Python Programming(94), Neural networks and deep learning(95), Probability Theory and Mathematical Statistics(94)

Work Experience

Institute for AI Industry Research,Tsinghua University *BeiJing, China*
Intership at DISCOVERY Lab (Supervisor Postdoc ZikeYan) *Jan 2024 – Aug 2024*

- Designed a framework **(Pytorch)** evolving from a pre-trained NeRF
- Improved the model capable of automatically and continuously learning new properties while adding new scene representation features
- Selected the appropriate signal among various tried algorithms to supervise new properties

Super Robot Research Institute (Huangpu) *GuangZhou, China*
Intership *Oct 2023 – Aug 2025*

- made a flexible-rigid hybrid mechanical claw, in which I realized motor control**(STM32)** through PID and corresponding action control through keys.
- realized a bipedal robot with certain anti-interference ability starting from design to simulation**(ROS)**, and finally to the physical object., in which I am responsible for the bipedal control algorithm by using MPC

Research experience

Adversarial graph contrast learning based on asymmetric contrast loss *Mar 2023 - Mar 2024*

Host,National Training Program of Innovation and Entrepreneurship for Undergraduates

- Added attack augmentation method to GNN for incresing the robutness of the model
- Introduced asymmetric contrast loss to treat different degrees' s positive and negative sample(attack view) avoiding identity obfuscation

A Grid-based CAD Geometric Modeling System *Dec 2022 - Dec 2023*

- Achieved the stretching and rotating operation of the grid**(OpenGL&OpenMesh)**
- Implemented the mouse selection effect, and then did the corresponding activities on the selected part.

Neuoromatch Academy course and project *2022 Jul - 2022 Aug*

- Finished group-based learning about biological neuron, dynamic networks, bayesian decisions, hidden dynamics and so on
- Extracted features from fMRI via AlexNet directly and Manually label video data considering emotional factors

Award

National college Students Martial Art Routine Competition in 2024 - Ranked 2st in PaoQuan

Merit student in 2023 - School level

Second level Scholarship of University in 2022 - Ranked top 12%

Merit student in 2022 - School level

Champion of 2022 Guangdong University Games of Martial Art - Ranked 1st in NanGun