

CONGSHAN

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EDUCATION

Zhejiang University, Hangzhou, China

09/2019 – Now

B.Eng in Automation, Chu Kochen Honors College

GPA: 3.90/4.00

- Selected Courses: Probability and Mathematical Statistics (98); Operating System(98); Introduction to Natural Language Processing(97); Python Programming(96) ;Fundamentals of Data Structures(93); Principles of Programming Languages(93); Fundamental of Programming(90); Lectures on C Programming(90).

AWARDS

Champion of RoboMaster University Series

2022

- Generated an initial vision framework for robots.

Champion of Robocup Humanoid League-China Open

2021

- Constructed the robot target recognition code.
- Built a comprehensive model to solve robot motion using forward and inverse kinematics.

First Class Scholarship of Zhejiang University

2022 & 2021

Innovation and Leadership Scholarship of Zhejiang University

2022 & 2021

National Innovation of the Scientific Research Practice Project

2021

Outstanding Minister of the Student Organization of Chu Kochen Honors College, Zhejiang University

2020

RESEARCH EXPERIENCE

Out of Distribution Detection with VAE

04/2022 - Now

Advisor: Prof. Huajie Shao

Willian & Mary, Online

- Learned the basic models of deep learning: CNN, LSTM, Transformer, VAE, etc.
- Modeled the feature embedding space as a mixture of multivariate Gaussian distributions based on Control VAE.

Multi-agent tracking and hunting based on reinforcement learning

03/2021 - 09/2021

Advisor: Prof. Rong Xiong

Zhejiang University, Hangzhou

- Developed and maintained single agent navigation with double DQN algorithm.
- Implemented multi-agent cooperative tracking and hunting with TD3 algorithm.

Scientific Research Training in ZJU Robotics Lab

08/2021 - 12/2021

Advisor: Prof. Yue Wang

Zhejiang University, Hangzhou

- Developed the neural latent optimization approach to retarget motion by learning the topological information in human skeletons and robot structures.
- Built gym env for humanoid robots including NAO and Dancer.

SOCIAL ACTIVITY

Student Organization of Chu Kochen Honors College, Zhejiang University 09/2020 - 06/2021

- Served as the head of the Student Union Activity Department, and organized many charitable activities of more than 400 people.

Supporting education in rural areas, Zhejiang University

06/2020 - 08/2021

- Served as the leader of the Yunnan Honghe Support Education Project.

SKILLS

Python, OpenAI, Pytorch, C++, C, Java, Matlab, Vim, Cmake, Git, L^AT_EX