

Chen Yang

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The Chinese University of Hong Kong, Shenzhen, China, 518172

Education

The Chinese University of Hong Kong, Shenzhen Major in Computer Engineering	09/2022 – Present
<ul style="list-style-type: none">• Cumulative GPA: 3.85/4.0 (Rank: 5/268 in School of Science and Engineering)• Research Interests: Robot Learning, Reinforcement Learning, Deep Learning• Awards & Honors: Creativity and Innovation Award, 2024; Academic Scholarship, 2023 & 2024; Dean's List, 2023 & 2024 & 2025	

University of California, Berkeley Visiting Program	08/2024 – 12/2024
<ul style="list-style-type: none">• Cumulative GPA: 4.0/4.0• Related Courses: Computer Architecture, Artificial Intelligence, Discrete Math (A+)	

Research

Humanoid Robot Locomotion Control via Reinforcement Learning Research Assistant; Supervised by Prof. Ye Zhao and Feiyang Wu LiDAR Lab, Georgia Institute of Technology	05/2025 – Present
<ul style="list-style-type: none">• Aimed to design efficient reinforcement learning algorithms enabling humanoid robots to walk on complex terrains• Conducted simulations using IsaacLab, optimized observation space and reward design, and designed a Learn-to-Teach training framework, achieving promising results in simulation environments• Planning to deploy the policy on real hardware and conduct a series of tests in real-world environments	
UAV Path Planning and Attitude Control Research Assistant; Supervised by Prof. Mark M. Mueller and Ruiqi Zhang High Performance Lab, UC Berkeley	09/2024 – 12/2024
<ul style="list-style-type: none">• Aimed to minimize the impact of air on each other drones while cooperating by using reinforcement learning• Simulated various relative situations of two drones using Pybullet; Realized UAV attitude stabilization even when subjected to strong air current disturbances using the PPO algorithm	
Smart Stop Snoring Pillow Research Assistant; Supervised by Prof. Jian Zhu and Xuanyang Xu Soft Robotics Lab, CUHK SZ	09/2023 – Present
<ul style="list-style-type: none">• Aimed to design and implement a smart pillow to achieve an anti-snoring effect by detecting the user's snoring and adjusting the pillow's height to keep the user's airway clear• Achieved precise control of the balloon's altitude using Poiseuille's principle to replace the flow meter with two barometers; Built an intermediate layer using ROS, achieving efficient communication between the upper computer and the microcontroller; Implemented Snoring Recognition with Spatio-Temporal Graph Neural Networks• Submitted to IEEE Transactions on Mechatronics (under review, second author)	
Online Multi-Access Scheduling Algorithm for Integrated Space-Air-Ground Networks via Inverse Reinforcement Learning Undergraduate Thesis; Supervised by Prof. Simon Pun Space-Air-Ground Laboratory, The Chinese University of Hong Kong, Shenzhen	01/2025 – 05/2025
<ul style="list-style-type: none">• Used Gurobi solver to generate expert trajectories from small-scale instances of offline Mixed Integer Programming (MIP) problems• Designed a hybrid training architecture combining Maximum Entropy IRL with PPO, utilizing expert trajectories	

generated by Gurobi to optimize online decision-making and achieve load balancing for HAP (High Altitude Platform)

Internship and Competitions

Shenzhen Research Institute of Big Data 04/2024 – 08/2024

Research Assistant; Supervised by Dr. Yangyang Peng and Dr. Yinjun Shen

- Aimed to achieve efficient and accurate prediction of building loads, providing valuable information for power allocation
- Extracted features using Fast Fourier Transform and constructed an LSTM-T-KAN model for long-term building load forecasting
- Submitted to Applied Energy (under review, second author)

2nd Prize in the Chinese Undergraduate Physics Experiment Competition 07/2024 – 09/2024

Team Leader; Supervised by Prof. Xiaolu Zhuo, Prof. Chaorui Li, and Dr. Edward Chen

- Proposed a real-time synchronous measurement scheme for steady and alternating weak magnetic fields in a double solenoid based on the giant magnetoresistance effect and digital lock-in amplification technology
- Submitted team paper to Physics Experiment journal

Activities

Teaching Assistant of Mechanics (PHY 1001) 01/2024 – 05/2024

- Delivered presentation to illustrate physical problems in the tutorial
- Solved problems for students during office hours

Skills

Technologies & Frameworks: PyTorch, Tensorflow, Pybullet, ROS, SIMD/OpenMP, IsaacLab

Programming Languages: Python, C/C++, Matlab, RISCV, Verilog

Languages: English (Fluent), Chinese (Native)