

# Zefang Huang

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## Education

<b>Zhejiang University</b> Incoming Ph.D. student in College of Control Science and Engineering	Sep. 2025 (expected) – Hangzhou, China
<b>Nanjing University</b> B.S. in Computer Science and Technology (National Elite Program)	Sep. 2021 – Jun. 2025 Nanjing, China

## Research Interests

My research interest is **robotics** and **reinforcement learning**. More about my research directions and goals can be viewed on my personal website.

## Publications

(\*equal contribution)

[3] **Efficient Recurrent Off-Policy RL with Varied-Learning-Rate State Space Models**  
Fan-Ming Luo, Zuolin Tu, **Zefang Huang**, Yang Yu  
NeurIPS 2024

[2] **Offline Transition Modeling via Contrastive Energy Learning**  
Ruifeng Cheng\*, Chengxing Jia\*, **Zefang Huang**, Tian-Shuo Liu, Xu-Hui Liu, Yang Yu  
ICML 2024

[1] **Jade: A Differentiable Physics Engine for Articulated Rigid Bodies with Intersection-Free Frictional Contact**  
Gang Yang, Siyuan Luo, Yunhai Feng, Zhixin Sun, Chenrui Tie, Lin Shao  
ICRA 2024  
(I participated in part of the experimental work of the paper, mainly responsible for training the reinforcement learning algorithm to solve the LCP, but I did not signature.)

## Preprint

[4] **Denoising-based Contractive Imitation Learning**  
Macheng Shen, Jishen Peng, **Zefang Huang**  
Arxiv

## Research experience

<b>LAMDA Group</b> , Nanjing University Advised by <a href="#">Prof. Yang Yu</a> and <a href="#">Prof. Zongzhang Zhang</a> Focus on researching <b>reinforcement learning</b> , including the optimization of replay buffer, model-based reinforcement learning, etc.[2][3]	SEP. 2022 - MAY. 2024 NANJING UNIVERSITY
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<b>National University of Singapore</b> Advised by <a href="#">Prof. Lin Shao</a> Focus on researching <b>robotics</b> . During that period of time, I learned basic knowledges about robotics and some tools of like pybullet, I also participated in some works about robotics.[1]	MAR. 2023 - OCT. 2023 NATIONAL UNIVERSITY OF SINGAPORE
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## Work experience

<b>Shanghai Qi Zhi Institute</b> Advised by <a href="#">Dr. Macheng Shen</a> I participated in a work related to <b>imitation learning</b> . [4]	AUG. 2024 - MAY. 2025 SHANGHAI
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## Projects

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### Game - Bubble and Bubble

MAR. 2022 - JUNE 2022

Implemented a game named Bubble and Bubble.

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- The game is implemented using C++, based on QT.
- It can be played in the QT editor, it obtained praise from the teaching assistant of Problem Solving and got full score.
- I implemented it by myself, through this project, I deepened my understanding of C++, became more proficient in using C++, and learned how to organize and complete a small project.

### App - Todolist

APR. 2022 - MAY 2022

Implemented an application named Todolist.

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- The application is implemented using dart, base on Android Studio.
- It contains multiple functions like reminding the schedule, counting the amount of expenditure and classifying it etc.
- The project is implemented by four people and I joined as a participant. I did the reminding the schedule part. I experienced a new language dart through this project and I learned how to complete a program with others.

### Graph Theory Tool Library

SEP. 2022 - NOV. 2022

Implemented a graph theory tool library.

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- The tool library is implemented using C++. It mainly provides data types, operation functions and classic graph theory algorithm interfaces related to graph theory.
- Users can directly call the data types or functions in it to construct graphs and operate on graphs. They can quickly model to achieve the effect of use, and can also deepen their understanding of graph theory and its algorithms. A more detailed usage method is written on the project home page.

### Game - overcooked

MAY 2023 - JUNE 2023

Implemented a game named overcooked.

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- The game is implemented using C++. It can be run directly in Windows terminal.
- It can be played by hands, and can also let the agents run automatically to get scores themselves.

## Selected Honor and Awards

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Outstanding Graduates of Nanjing University(2025)

Second Prize for Nanjing University Programming Contest(2022)

Nanjing University People's Scholarship(2022, 2023, 2024)

Nanjing University Excellent Award for Special scholarship for basic disciplines(2022, 2023, 2024)

Outstanding Communist Youth League cadre of Nanjing University(2023)

Outstanding Communist Youth League cadre of College of First-Year Students, Nanjing University(2022)

Outstanding class cadre of College of First-Year Students, Nanjing University(2022)

Bronze Prize in Chinese Mathematical Olympiad(CMO)(2020)

First Prize in National High School Mathematics Joint Competition(the third place in the province)(2020)

## Academic Service

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Reviewer: NeurIPS 2025

## Skills

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Programming: C/C++, Python

Robotics: Pybullet, Mujoco, Isaac, Ros