

# WENHAO CHEN

✉ cwher@outlook.com · 🌐 CWHer 📄 <https://cwher.github.io>

## EDUCATION

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**Shanghai Jiao Tong University**, Shanghai, China

Sept. 2019 – June 2023

*B.Eng.* in Computer Science and Engineering

- **GPA:** 92.2/100 (or 3.97/4.3), **Rank:** 11/119
- Member of **Zhiyuan Honors Program (Engineering)**
- **Selected A+ courses:** Data Structure (Honor), Discrete Mathematics (Honor), Distributed and Parallel Computing, Probability and Statistics (Honor), Algorithms and Complexity, Operating System, Computer Architecture, Artificial Intelligence, Computer Graphics, ...
- **TA Experience:** Programming and Data Structure I (Honor)

## RESEARCH INTEREST

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I'm broadly interested in the intersection of machine learning, systems, and computer architecture, which includes

- Computation efficient ML training and inference
- Accelerating ML jobs on heterogeneous hardware

## EXPERIENCE

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**SDE Intern**

June 2023 – Present

Machine Learning System Engineer at **HPC-AI Technology**

**Content:** Maintain and develop new features of **Colossal-AI**.

**Research Intern**

July 2022 – June 2023

**Microsoft Research Asia**, **System Research Group**, advised by **Dr. Qi Chen**, **Dr. Quanlu Zhang** and **Dr. Hui Xue**

**Research Topics:** Efficient Reinforcement Learning Framework, [paper in progress](#).

- Improve resource utilization during the Reinforcement Learning training
- Accelerate Reinforcement Learning computation on heterogeneous and large-scale systems
- Automatically schedule resources for different Reinforcement Learning algorithms on different hardware configurations

**Research Intern**

June 2021 – July 2022

**Shanghai Jiao Tong University**, **Apex Lab**, supervised by **Prof. Weinan Zhang**

**Research Topics:** Reinforcement Learning Applications

- Branch Ranking for Efficient Mixed-Integer Programming via Offline Ranking-based Policy Learning (submitted to **ECML PKDD'22**) / arXiv July 2021 – Nov. 2021  
We combined offline Reinforcement Learning and a long-sighted hybrid search scheme to solve Mixed-integer Programming problems efficiently and with better generalization ability.

## HONORS AND AWARDS

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- **Zhiyuan Honor Scholarship** (top 5%), Shanghai Jiao Tong University 2020, 2021, 2022
- **Academic Excellence Scholarship** (top 30%), Shanghai Jiao Tong University 2020, 2021, 2022
- **National Olympiad in Informatics in Provinces (NOIP)**, *1<sup>st</sup> Prize (477/600)*, China 2018

## PROGRAMMING SKILLS

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- **Programming Languages:** Python, C/C++, CUDA, C#
- **ML Related Skills:** PyTorch (proficient), TensorFlow (able to read)
- **Writing Tools:** Markdown, L<sup>A</sup>T<sub>E</sub>X
- **Tools and Environments:** Git, Linux, Docker

## LANGUAGE SKILL

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- **TOEFL:** 105/120 (Reading 30, Listening 28, Speaking 23, Writing 24)