

Kangyang Zhou

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[CP Blog: cnblogs.com/zkyJuruo](https://cnblogs.com/zkyJuruo) [Atcoder: zhoukangyang](https://atcoder.jp/users/zhoukangyang) [Codeforces: zhoukangyang](https://codeforces.com/profile/zhoukangyang)

[Google Scholar: Kangyang Zhou](https://scholar.google.com/citations?user=KangyangZhou) [Personal Page](#) [Github: zhoukangyang233](https://github.com/zhoukangyang233)

Education

Massachusetts Institute of Technology (MIT)

Class of 2029

Wenyuan Secondary School, Hangzhou Xuejun High School Education Group *Graduated: 2025*

Selected Awards

- 1st Place, AtCoder World Tour Finals 2025
- Full Score & 1st Place, IOI (International Olympiad of Informatics) 2024
- 2nd Place, AtCoder World Tour Finals 2024

Experiences

Undergraduate Researcher, MIT CSAIL

Sep 2025 – Present

Advisor: Prof. Kaiming He

- Conducted text-to-image generation research using TPUs, focusing on algorithm design, model architecture, and efficient distributed training.

Intern, Xiaomi Large Language Model Group

March 2025 – May 2025

- Designed and implemented a self-updating reinforcement learning framework for reasoning models to learn complex reasoning text in post-training.
- Integrated external code-execution mechanisms into Chain-of-Thought reasoning.

Projects

Gomoku AI Engine

July 2025

- Trained a superhuman-level Gomoku (Five-in-a-Row) AI by implementing the AlphaZero algorithm, combining MCTS with policy-value networks.
- Engineered a pure self-play reinforcement learning pipeline, allowing the model to master game strategies autonomously without any external data.

Technical Blog Author

- Author of a personal technical blog on competitive programming (cnblogs.com/zkyJuruo, in Chinese), featuring 130+ original algorithmic contributions and contest experiences, with more than 100,000 views in total.

Teaching Experience

- Delivered a talk on “*Randomized Algorithms in Olympiads*” at CCF National Olympiads of Informatics 2025 Winter Camp, attended by hundreds of students nationwide.
- Presented “*Applications of Multiplicative Functions*” at Asia-Pacific Informatics Olympiad 2024

Skills

- JAX, PyTorch
- C++, Python
- Diffusion, Reinforcement Learning, Representation Learning
- Data Structures, Dynamic Programming, Graph Theory, Combinatorial Mathematics, Randomized Algorithms