

Zhengxi Li

- 📍 **Work:** MBZUAI, Masdar City, Abu Dhabi, United Arab Emirates
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Gender: Male

WORK EXPERIENCE

Cyber Physical Intelligence Lab, MBZUAI

City: Abu Dhabi | **Country:** United Arab Emirates

[10/2025 - Current]

Student Researcher

- Designed and implemented pipelines that supply language models with varying amounts of intermediate reasoning and evaluate their accuracy and token efficiency on verifiable questions, enabling systematic analysis of reasoning-reuse capabilities.
- Conducted a comprehensive set of experiments benchmarking multiple language models across diverse datasets to assess consistency and generalizability of reasoning-reuse behavior.
- Supervised by [Prof. Steve Liu](#), with mentorship from [Fuyuan Lyu](#), [Ye Yuan](#), and [Qiyuan Zhang](#).

EDUCATION & TRAINING

[08/2025 - Current]

Bachelor's Degree

Mohamed bin Zayed University of Artificial Intelligence (MBZUAI) <https://mbzuai.ac.ae/>

City: Abu Dhabi | **Country:** United Arab Emirates | **Field(s) of study:** Artificial Intelligence

1. Recipient of Pioneer Scholarship (The university's most competitive merit-based award).
2. Recipient of the Sheikh Tahnoon bin Zayed Scholarship in AI Excellence (one of 350 undergraduate students).

[09/2023 - 05/2025]

International Baccalaureate Diploma Programme

Beijing 101 High School <https://www.ibo.org/>

City: Beijing | **Country:** China | **Field(s) of study:** Mathematics (AA Higher Level), Computer Science (Higher Level), English B (Higher Level), Extended Essay topic: Numerical Study of Basketball Lay-up Shot

[03/2024 - 05/2025]

Supervised Research Project

Beijing 101 High School

City: Beijing | **Country:** China | **Field(s) of study:** Numerical methods, Applied mathematics, Physics of motion | **Thesis:** Research on Ball Movement Mechanics in Sports

- Wrote a series of three inter-related papers investigating ball moving mechanisms in sports:
 - a. What is the optimal basketball shooting angle?
 - b. How varying angular velocities influence the trajectory of a ball through the Magnus effect?
 - c. What is the relationship between a basketball's angular velocity, its translational velocity, and its point of impact on the backboard during a layup shot?
- The first and the third built comprehensive mathematics models in ideal scenarios, and the second connected them into a more complex, realistic world.
- Driven by personal interest and practical needs, focused on applying theoretical knowledge to real-world challenges in improving basketball performance, and at the same time continuously refined it through feedback from the school basketball team.

[05/2023 - 05/2025]

Competitive Programming Club & Algorithm Training

Beijing 101 High School – Competitive Programming Team

City: Beijing | **Country:** China | **Field(s) of study:** Algorithms, Data structures, Problem-solving

- Gained extensive experience solving algorithmic problems involving dynamic programming, graph algorithms, greedy strategies, searching algorithm, and combinatorial reasoning.
- Strengthened engineering discipline through writing concise and modular code in short time, iteratively optimizing algorithm and program design, and practicing quick but useful debug and test techniques.
- Managed a structured training routine for USACO and CCC by combining independent study, weekly in-team mock contests, and curated online resources.

Integrated Circuits and Computational Thinking Project**One Student One Chip & Beijing 101 High School****City:** Beijing | **Country:** China | **Field(s) of study:** Digital and logic circuits, C programming, System simulation

- Learned core digital-logic principles—from Boolean algebra to combinational and sequential circuits—applied them in Verilog module design, and gained hands-on experience with simulation workflows, including writing testbenches and analyzing waveforms.
- Explored C programming and Linux operating system mechanisms to study simulating a RISC-V processor, preparing to implement a real processor using RTL next.
- Mentored 10th-grade students in their introduction to computer systems and hardware by delivering weekly lectures on fundamental concepts, guiding them through Verilog simulation experiments, and facilitating access to advanced learning resources from [One Student One Chip](#), [UCAS](#), and [ICT](#).

HONOURS AND AWARDS

[28/02/2025]

USA Computing Olympiad (USACO) Gold Division

Achieved a perfect score (1000/1000) in the USACO Silver Division February 2025 contest, resulting in promotion to the Gold Division.

Achieved a perfect score (1000/1000) in the USACO Bronze Division December 2023 contest, resulting in promotion to the Silver Division.

[31/12/2024]

Canadian Computing Competition (CCC) — Senior Division, 2024

Placed in the top 7% (ranked 200) internationally.

[31/12/2023]

American Invitational Mathematics Examination (AIME) Qualifier

Earned qualification based on high AMC 12 score.

SKILLS**Programming Languages**

Python | C | C++ | Bash

Developer Tools

Git | Vim | Visual Studio Code

Libraries, Frameworks

NumPy | PyTorch | Hugging Face | vLLM

Language Proficiency

Mandarin Chinese (native or bilingual proficiency) | English (native or bilingual proficiency)

Miscellaneous

Golf | Basketball