

# ZHENGFEI ZHANG

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## EDUCATION

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### Tsinghua University, Schwarzman College

*Master of Global Affairs, Schwarzman Scholar*

Beijing, China  
2025

- Working thesis: A Text-Based and Qualitative Analysis of Chinese Climate Policy.

### Tsinghua University

*Bachelor of Science (B.Sc), win Honors in Mechanics, Tsien's Excellence in Engineering Program*

Beijing, China  
2020-2024

- Specialized in Mechanics and Computer Science, awarded a degree of honors (6 students in Tsien's Class).

## SELECTED PUBLICATION

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[1] **Zhengfei Zhang**, Kishan Panaganti, Laixi Shi, Yanan Sui, Adam Wierman, and Yisong Yue. "Distributionally Robust Constrained Reinforcement Learning under Strong Duality." *Reinforcement Learning Journal*, vol. 4, 2024, pp. 1793–1821.

[2] **Zhengfei Zhang**, Yunyue Wei, Yanan Sui. "An invariant information geometric method for high-dimensional online optimization." *Proceedings of the 6th Annual Learning for Dynamics & Control Conference*, in *Proceedings of Machine Learning Research*, vol 242:641-653, 2024.

## RESEARCH EXPERIENCE

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### California Institute of Technology

*Visiting Undergraduate Researcher in CS, Prof. Yisong Yue & Prof. Adam Wierman*

Pasadena, California, US  
Sept 2023 – March 2024

- Demonstrated the structural difficulty of reinforcement learning when confronting realistic constraints and distributional shifts, and proposed the first theoretically efficient algorithm with additional theoretical findings.

### Tsinghua University

*Undergraduate Researcher, Prof. Yanan Sui*

Beijing, China  
Feb 2022 – Jun 2023

- Worked on human gait analysis and found a novel momentum-based invariant.
- Developed an invariant-oriented evolution strategy for high-dimensional optimization.

## ACADEMIC SERVICE AND TEACHING

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**Conference Reviewer:** ICLR 2024.

**Conference Presentation:**

- “Distributionally Robust Constrained Reinforcement Learning under Strong Duality”, Aug. 12, 2024, Reinforcement Learning Conference, Amherst, Massachusetts.

**Competitive Programming Coach:** 1 IOI Gold Medalist and 20+ USACO/CCO finalists.

## PROFESSIONAL EXPERIENCE

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### Zhipu AI

*Machine Learning Intern (in Large Language Model)*

Beijing, China  
June 2024 – Oct 2024

- Working on finetuning the Large Language Model (LLM) via reinforcement learning to train capable LLM agents.

### X-camp Academy

*Chief Teaching System Architect*

San Jose, California, US  
Dec 2022 - present

- Established a scalable mechanism for feedback gathering and self-correction of the teaching system.

*Senior Coach*

April 2021 - Present

- Coached dozens of students entering the US national camp and the US national team of informatics.

## SELECTED AWARDS AND SCHOLARSHIPS

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- Outstanding Graduate in Research, Innovation, and Leadership at Tsien's Class (each awarded to ~3 students) 2024
- Comprehensive Excellence Scholarship at Tsinghua University (top 10%). 2021, 2023
- Sports Scholarship, Reading Scholarship, and Social Collaboration Scholarship at Tsinghua University
- Silver medal in Long Jump at Tsinghua University 2022
- Gold award in International College Programming Contest Asia Regional 2021
- Silver award in Asia-Pacific Informatics Olympiad (China Region) 2019

## ADDITIONAL INFORMATION

- **Languages:** Mandarin (Native), English (Proficient), German (Intermediate).
- **Athletics:** Captain, college badminton team; Member, Tsinghua track&field team.
- **Programming:** C++, Python(Pytorch, Keras), R, LaTeX.
- **Interests:** Badminton, Fashion, Musical, and Writing.