

# Zerui Cheng

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## Education

**Princeton University, Dept of Electrical and Computer Engineering**

**Princeton, NJ, United States**

*Ph.D. Candidate, GPA: 4.00/4.00*

*Aug 2023 – Jul 2028 (expected)*

- Research focus: Large language models, AI evaluation, Blockchains
- Advisor: Prof. Pramod Viswanath

**Tsinghua University, the Institute for Interdisciplinary Information Sciences**

**Beijing, China**

*B.Eng. in Computer Science (Honors), GPA: 3.91/4.00*

*Aug 2019 – Jun 2023*

- “Yao Class” talent program (founded by Turing Award winner Andrew C. Yao), graduated *summa cum laude*
- “Yao Award” recipient (most prestigious honor, top 10% of Yao Class)
- Excellent diploma thesis award winner (top 5% of Yao Class); Thesis Advisor: Prof. Zhixuan Fang
- Visiting student researcher at Duke University (2022), Advisor: Prof. Fan Zhang
- Visiting student researcher at the University of California, Berkeley (2022), Advisor: Prof. Dawn Song

## Selected Publications

For most recent updates, the full publication list is available at: [Google Scholar](#)

**2025:**

○ **LiveCodeBench Pro** [[Project Page](#)]

Zihan Zheng\*, **Zerui Cheng\***, Zeyu Shen\*, Shang Zhou\*, Kaiyuan Liu\*, Hansen He\*, Dongruixuan Li, Stanley Wei, Hangyi Hao, Jianzhu Yao, Peiyao Sheng, Zixuan Wang, Wenhao Chai, Aleksandra Korolova, Peter Henderson, Sanjeev Arora, Pramod Viswanath, Jingbo Shang, and Saining Xie. “LiveCodeBench Pro: How Do Olympiad Medalists Judge LLMs in Competitive Programming?” (2025).

- Jun 24, 2025: Featured in MIT Technology Review.
- Aug 4, 2025: Invited talk at OpenAGI Symposium at the University of California, Berkeley
- Aug 15, 2025: Invited talk at “AI4Science x AI Security Community” hosted by alphaXiv

○ **SPIN-Bench** [[Project Page](#)]

Jianzhu Yao\*, Kevin Wang\*, Ryan Hsieh, Haisu Zhou, Tianqing Zou, **Zerui Cheng**, Zhangyang Wang, and Pramod Viswanath. “Spin-bench: How well do llms plan strategically and reason socially?” [COLM 2025]

- **Zerui Cheng\***, Stella Wohnig\*, Ruchika Gupta\*, Samiul Alam\*, Tassallah Abdullahi, João Alves Ribeiro, Christiana Nielsen-Garcia, Saif Mir, Siran Li, Jason Orender, Seyed Ali Bahrainian, Daniel Kirste, Aaron Gokaslan, Carsten Eickhoff, Pramod Viswanath, and Ruben Wolff. “Position: Benchmarking is Broken - Don’t Let AI Be Its Own Judge” (2025).
- Long Phan, ..., Lennart Finke, **Zerui Cheng**, Jennifer Zampese, ... et al. “Humanity’s Last Exam” (2025).

**2024:**

○ **OML: Open, Monetizable, and Loyal AI** [[Research Page](#)]

**Zerui Cheng**, Edoardo Contente, Ben Finch, Oleg Golev, Jonathan Hayase, Andrew Miller, Niusha Moshrefi, Anshul Nasery, Sandeep Nailwal, Sewoong Oh, Himanshu Tyagi, and Pramod Viswanath. “Reclaiming “Open AI” – AI Model Serving Can Be Open Access, Yet Monetizable and Loyal” (2024).

- Sep 12, 2024: Initial release as the whitepaper of AI startup Sentient Foundation
- Apr 11, 2025: Poster presentation at Citadel Securities PhD Summit 2025 in Miami
- Jun 16, 2025: Invited talk at Prof. Matthias Bethge’s research group at the University of Tübingen

**2023:**

- Suma Bhat, Canhui Chen, **Zerui Cheng**, Zhixuan Fang, Ashwin Hebbar, Sreeram Kannan, Ranvir Rana, Peiyao Sheng, Himanshu Tyagi, Pramod Viswanath, and Xuechao Wang. "Sakshi: Decentralized AI Platforms" (2023).
- Canhui Chen\*, **Zerui Cheng\***, Shutong Qu, and Zhixuan Fang. "Crowdsourcing Work as Mining: A Decentralized Computation and Storage Paradigm". [APNET 2023]

2022:

- Tiancheng Xie, Jiaheng Zhang, **Zerui Cheng**, Fan Zhang, Yupeng Zhang, Yongzheng Jia, Dan Boneh, and Dawn Song. "zkBridge: Trustless Cross-chain Bridges Made Practical". [ACM CCS 2022]

## Talks and Presentations

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| <b>Invited talk at "AI4Science x AI Security Community" hosted by alphaXiv</b><br><i>1-hour talk on LiveCodebench Pro (w/ Peiyao Sheng).</i>                                | <b>Online</b><br>Aug 2025         |
| <b>Invited talk at OpenAGI Symposium hosted by Sentient</b><br><i>20-min talk on LiveCodebench Pro at UC Berkeley.</i>                                                      | <b>Berkeley, CA</b><br>Aug 2025   |
| <b>Invited talk at the University of Tübingen hosted by Prof. Matthias Bethge</b><br><i>1-hr talk on OML.</i>                                                               | <b>Online</b><br>Jun 2025         |
| <b>Ph.D. General Exam Research Seminar</b><br><i>1-hr talk on OML. Committee members: Prof. Pramod Viswanath, Prof. Sanjeev Kulkarni, Prof. Chi Jin</i>                     | <b>Princeton, NJ</b><br>Apr 2025  |
| <b>Poster presentation at Citadel Securities PhD Summit</b><br><i>2-hr poster session with top PhD students and quantitative researchers at CitSec on OML.</i>              | <b>Miami, FL</b><br>Apr 2025      |
| <b>Poster presentation at Princeton DeCenter Spring Conference</b><br><i>1-hr poster session on SCTest: Automated smart contract generation with AI (w/ group members).</i> | <b>Princeton, NJ</b><br>Apr 2024  |
| <b>Invited talk at Yao Seminar #48</b><br><i>1-hr talk on zkBridge: trustless cross-chain bridges by zero-knowledge proofs.</i>                                             | <b>Beijing, China</b><br>Jun 2023 |
| <b>Presentation at IC3 Blockchain Summer Camp 2022</b><br><i>10-min lightning session on multi-agent selfish mining (w/ Shutong Qu) at Cornell University.</i>              | <b>Ithaca, NY</b><br>Nov 2022     |

## Professional Experience

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| <b>ByteDance Seed Team</b><br><i>Student Researcher (Part-time)</i><br>Research on large language models, evaluation, and code generation systems.<br>Mentor: Jiashuo Liu                                                                                                                                               | <b>San Jose, CA</b><br>Sep 2025 – Present     |
| <b>Kite AI</b><br><i>Whitepaper and Research Collaborator</i><br>Research on Proof of Attributed Intelligence for AI-native blockchain operations. Author of Kite AI whitepaper.<br>Mentor: Scott Shi                                                                                                                   | <b>Remote</b><br>Feb 2025 – Present           |
| <b>JQ Investments</b><br><i>Quantitative Research Intern</i><br>Developed alpha strategies through large-scale financial data analysis.<br>Mentor: Kevin Zhang                                                                                                                                                          | <b>Shanghai, China</b><br>Aug 2024 – Sep 2024 |
| <b>Sentient Foundation</b><br><i>AI Fellow</i><br>Led formulation and development of OML framework for AI intellectual property protection using cryptographic primitives.<br>Lead author of Sentient whitepaper "OML – Unleashing the Era of AI Entrepreneurship".<br>Mentor: Prof. Pramod Viswanath, Prof. Sewoong Oh | <b>Princeton, NJ</b><br>May 2024 – Aug 2024   |
| <b>PolyHedra Network</b><br><i>Research Intern</i><br>Implemented blockchain cross-chain bridges using zero-knowledge proofs. Author of PolyHedra whitepaper (zkBridge).<br>Mentor: Tiancheng Xie                                                                                                                       | <b>Remote</b><br>Jul 2022 – Dec 2022          |
| <b>Shanghai Qizhi Institute</b><br><i>Research Intern</i><br>Worked on modeling and queueing theory analysis of blockchain transaction waiting time.<br>Mentor: Zhixuan Fang                                                                                                                                            | <b>Shanghai, China</b><br>Jul 2021 – Aug 2021 |

## Scholarships and Academic Awards

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|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| <b>First-year Ph.D. Fellowship</b>                                                                                                         | <b>Princeton University</b><br>Aug 2023 |
| <b>Departmental summa cum laude</b><br><i>Top 20% in Yao Class</i>                                                                         | <b>Tsinghua University</b><br>Jun 2023  |
| <b>Excellent Diploma Thesis Award</b><br><i>Top 5% in Yao Class</i>                                                                        | <b>Tsinghua University</b><br>Jun 2023  |
| <b>Yao Award (Bronze Medal)</b><br><i>Top 10% in Yao Class</i><br>Most prestigious honor in Yao Class, awarded by Dean Andrew Chi-Chih Yao | <b>Tsinghua University</b><br>Sep 2022  |
| <b>Scholarship for Comprehensive Excellence</b>                                                                                            | <b>Tsinghua University</b><br>2022      |
| <b>Scholarship for Excellence in Academic Achievements</b>                                                                                 | <b>Tsinghua University</b><br>2021      |
| <b>Scholarship for Excellence in Scientific and Technological Innovation</b>                                                               | <b>Tsinghua University</b><br>2021      |
| <b>Scholarship for Excellence in Social Activities and Voluntary Work</b>                                                                  | <b>Tsinghua University</b><br>2020      |
| <b>Xuetang Scholarship</b><br><i>Full tuition exemption</i>                                                                                | <b>Tsinghua University</b><br>2019-2023 |

## Competitive Programming Achievements

[Career Achievement](#).....

**May 2024:** Competitive Programming **Hall of Fame Member** [[Hall of Fame Personal Page](#)]

[Recent Highlights in North America](#).....

**May 2025:** **26th Place**, ICPC North America Championship (NAC 2025)

**Nov 2024:** **4th Place**, ICPC Greater New York Regional (qualified for NAC 2025 representing Princeton)

**Nov 2024:** **93rd worldwide** (top 0.4%), Meta HackerCup

**May 2024:** **22nd Place**, ICPC North America Championship (\$3000 prize for first solution award)

**Nov 2023:** **3rd Place**, ICPC Greater New York Regional (qualified for NAC 2024 representing Princeton)

[University Competitions](#).....

**Dec 2024:** **2nd Place**, Princeton Computer Science Contest (Princeton COSCON 2024)

**May 2024:** **Finalist** (Top 16 in USA), MIT Informatics Tournament Spring Invitational (MITIT 2024)

**Dec 2023:** **1st Place**, Princeton Computer Science Contest (Princeton COSCON 2023)

[Earlier Achievements in East Asia](#).....

**2020-2022:** **Multiple Gold/Silver Medals** in ICPC/CCPC regional contests and continental finals.

ICPC: Gold (Yinchuan Regional 2021), Silver (East-Asia Continental Final 2021);

CCPC: Gold (Changchun 2020, Harbin 2021), Silver (Mianyang 2022);

**2019:** **2nd Place**, LeetCode Cup National Programming Contest

**2017-2018:** **Silver Medalist** (2x), Chinese National Olympiad in Informatics (NOI).

[Problem Setting](#).....

**Jul 2021:** Problem setter of Chinese National Olympiad in Informatics (NOI 2021 Day 2 Problem 1).

**2021-2022:** Problem setter and validator of Tsinghua University Programming Contest (THUPC 2021,2022).

**Nov 2017:** Lead author of Codeforces Round 447.

## Other Honors

**Aug 2022:** **1st Place**, IC3 Blockchain Summer Camp Hackathon 2022

**Dec 2020:** **First Prize**, China Collegiate Mathematics Contest

## Teaching and Service

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**Princeton COS/ECE 470: Principles of Blockchains**

*Head Teaching Assistant*

*Sep 2024 – Jan 2025*

- Redesigned final project combining blockchain and AI, receiving exceptional student feedback
- Led 3 hands-on in-class labs and coordinated grading for 80+ students
- Nominated for Princeton E-Council Teaching Awards (Fall 2024)

**IEEE/ACM Transactions on Networking (IEEE ToN)**

*Reviewer*

*2025*

**IEEE Journal on Selected Areas in Communications (IEEE JSAC)**

*Reviewer*

*2022*

**China Computer Federation (CCF)**

*Student Expert and Problem Setter of National Olympiad in Informatics of China (NOI 2021)*

*2021*

Authored problem ("Quantum Communication", Day 2 Problem 1) voted "best in contest"

**Tsinghua University Algorithm Association**

*Core contributor.*

*2020-22*

**Yao Class Youth League**

*Deputy Secretary.*

*2021-22*

**Yao Class Students' Congress**

*President (2022-23); Vice president (2021-22); Member (2020-21)*

*2020-23*

## Media Coverage

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**TV Show "Super Brain Season 10"**

*Participant*

**Jiangsu Channel**

*2023*

## Languages

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**Chinese (Mandarin):** Native

**English:** Fluent (TOEFL iBT: 111/120)