Junkai Zhang

Tsinghua University · Beijing · China
zhangjk22@mails.tsinghua.edu.cn
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EDUCATION

Tsinghua University, Beijing, China   2022–Present
B.Eng. in Computer Science, Yao Class, Institute for Interdisciplinary Information Sciences
- GPA: 3.938/4.0
- Ranked 11st out of 94 students in Yao Class
- Related courses: Design and Analysis of Algorithms (graduate course) (A+), Algorithm Design (A+), Theory of Computation (A+), Algebra and Computation (A+), Introduction to Theoretical Computer Science (A+)
- Expected graduation: 2026-07.

PUBLICATIONS AND MANUSCRIPTS

Authors are in alphabetical order.

Optimal Static Dictionary with Worst-Case Constant Query Time[1]
Yang Hu, Jingxun Liang, Huacheng Yu, **Junkai Zhang**, Renfei Zhou. In *Proc. STOC*, 2025.

Static Retrieval Revisited: To Optimality and Beyond[2]
Yang Hu, William Kuszmaul, Jingxun Liang, Huacheng Yu, **Junkai Zhang**, Renfei Zhou. In *Proc. FOCS*, 2025.

Shortcutting for Negative-Weight Shortest Paths[3]
George Z. Li, Jason Li, Satish Rao, **Junkai Zhang**. Submitted to STOC 2026.

SELECTED AWARDS

- **Yao Award (Bronze Medal)**   2025
  Awarded to 5 students in Yao Class each year

- **The 2022 ICPC Asia East Continent Final Contest**
  Gold award, 4th place (with teammates Yang Hu and Hao Hu)

- **The 34th International Olympiad in Informatics**   2022
  Gold medal, 3rd place

- **The 38th China National Olympiad in Informatics**   2021
  Gold medal, 1st place

- **The 37th China National Olympiad in Informatics**   2020
  Gold medal, 19th place

RESEARCH VISITS AND INTERNSHIPS

- **Carnegie Mellon University**   Spring 2025
  Visiting student advised by Jason Li

SKILLS

- TOEFL iBT Score 108(R 30, L 29, S 24, W 25)   2025

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[1] Arxiv link: https://arxiv.org/abs/2412.10655 .
[2] Arxiv link: https://arxiv.org/abs/2510.18237 .
[3] Arxiv link: https://arxiv.org/abs/2511.12714 .