

Yang Hu

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EDUCATION

Tsinghua University, Beijing, China 2022–Present
B.Eng. in Computer Science, Yao Class, Institute for Interdisciplinary Information Sciences

- GPA: 3.93/4.0
- Ranked 12th out of 94 students in Yao Class
- Related courses: Algorithm Design (A), Algorithm Analysis and Design (graduate course by Ran Duan) (A+), Algebra and Computation (A+)
- Expected graduation: 2026-07.

PUBLICATIONS

In theoretical computer science, it is customary to sort the authors of each paper alphabetically.

Nash Social Welfare with Submodular Valuations: Approximation Algorithms and Integrality Gaps
Xiaohui Bei, Yuda Feng, **Yang Hu**, Shi Li, Ruilong Zhang. In *Proc. STOC*, 2026 (to appear).

New Algebrization Barriers to Circuit Lower Bounds via Communication Complexity of Missing-String

Lijie Chen, **Yang Hu**, Hanlin Ren. In *Proc. ITCS*, 2026.

Nearly Optimal Bounds for Stochastic Online Sorting

Yang Hu. In *Proc. SODA*, 2026.

Static Retrieval Revisited: To Optimality and Beyond

Yang Hu, William Kuszmaul, Jingxun Liang, Huacheng Yu, Junkai Zhang, Renfei Zhou. In *Proc. FOCS*, 2025.

Constant Approximation for Weighted Nash Social Welfare with Submodular Valuations

Yuda Feng, **Yang Hu**, Shi Li, Ruilong Zhang. In *Proc. STOC*, 2025.

Optimal Static Dictionary with Worst-Case Constant Query Time

Yang Hu, Jingxun Liang, Huacheng Yu, Junkai Zhang, Renfei Zhou. In *Proc. STOC*, 2025.

SELECTED AWARDS AND SCHOLARSHIPS

• **Yao Award (Silver Medal)** 2025
Awarded to 3 students in Yao Class each year

COMPETITIVE PROGRAMMING (SELECTED)

- **The 2022 ICPC Asia East Continent Final Contest** 2023
Gold award, 4th place (with teammates Junkai Zhang and Hao Hu)
- **ACM International Collegiate Programming Contest, Asia Regional Contest, Nanjing Site** 2022
Gold medal, 3rd place (solo)
- **ACM International Collegiate Programming Contest, Asia Regional Contest, Jinan Site** 2022
Gold medal, 2nd place (with teammates Junkai Zhang and Hao Hu)
- **China National Olympiad in Informatics** 2021
Gold medal, 3rd place

- **The Asia-Pacific Informatics Olympiad** 2021
Ranked 4th in China
- **CCF NOI Winter Camp** 2021
Gold medal, 1st place

SERVICE

- Conference reviewing: SODA 2026
- **Algorithm Analysis and Design (Tsinghua University)** Autumn 2024
Teaching assistant (Instructor: Ran Duan)

RESEARCH VISITS

- **Carnegie Mellon University** Spring 2025
Student intern advised by William Kuszmaul

SKILLS

- TOEFL iBT Score 115 02/2024
- Japanese N1 06/2022