

# Yang Hu

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## EDUCATION

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### 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

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*Authors are in alphabetical order.*

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

Lijie Chen, **Yang Hu**, Hanlin Ren. In *Proc. ITCS*, 2026 (to appear).

### Nearly Optimal Bounds for Stochastic Online Sorting

**Yang Hu**. In *Proc. SODA*, 2026 (to appear).

### Static Retrieval Revisited: To Optimality and Beyond

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

### Nash Social Welfare with Submodular Valuations: Approximation Algorithms and Integrality Gaps

Xiaohui Bei, Yuda Feng, **Yang Hu**, Shi Li, Ruilong Zhang.

### 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

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### • Yao Award (Silver Medal)

2025

Awarded to 3 students in Yao Class each year

## COMPETITIVE PROGRAMMING (SELECTED)

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### • 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

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

## RESEARCH VISITS

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

## SKILLS

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