

Renfei Zhou

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Last Update: October 13, 2023

EDUCATION

Tsinghua University, Beijing, China

2020–Present

Undergraduate in Computer Science, Yao Class, Institute for Interdisciplinary Information Sciences

- GPA until Summer 2023: 3.98/4.0, rank 3/76 in the department
- Related courses: Math for CS (A), Algorithm Design (A+), Theory of Computation (A+)

SELECTED PUBLICATIONS

Authors are in alphabetical order.

Dynamic Dictionary with Subconstant Wasted Bits per Key

Tianxiao Li, Jingxun Liang, Huacheng Yu, Renfei Zhou. To appear in *Proc. SODA*, 2024.

New Bounds for Matrix Multiplication: from Alpha to Omega

Virginia Vassilevska Williams, Yinzhan Xu, Zixuan Xu, Renfei Zhou. To appear in *Proc. SODA*, 2024.

Faster Matrix Multiplication via Asymmetric Hashing

Ran Duan, Hongxun Wu, Renfei Zhou. In *Proc. FOCS*, 2023.

Dynamic “Succincter”

Tianxiao Li, Jingxun Liang, Huacheng Yu, Renfei Zhou. In *Proc. FOCS*, 2023.

Tight Cell-Probe Lower Bounds for Dynamic Succinct Dictionaries

Tianxiao Li, Jingxun Liang, Huacheng Yu, Renfei Zhou. In *Proc. FOCS*, 2023.

OTHER PUBLICATIONS

Authors are in alphabetical order.

Listing 6-Cycles

Ce Jin, Virginia Vassilevska Williams, Renfei Zhou. To appear in *Proc. SODA*, 2024.

Bidder Selection Problem in Position Auctions via Poisson Approximation

Nick Gravin, Yixuan Even Xu, Renfei Zhou. Preprint arXiv:2306.10648 [cs.GT], 2023.

On the Perturbation Function of Ranking and Balance for Weighted Online Bipartite Matching

Jingxun Liang, Zhihao Gavin Tang, Yixuan Even Xu, Yuhao Zhang, Renfei Zhou. In *Proc. ESA*, 2023.

SELECTED AWARDS AND SCHOLARSHIPS

- | | |
|--|-------------------------|
| • China National Scholarship
Awarded to 4–5 students in Yao Class each year | Oct 2023 |
| • Yao Award (Silver Medal)
Awarded to 3 students in Yao Class each year | Sep 2023 |
| • Excellent Comprehensive Scholarship of Tsinghua University | 2020–2021 and 2021–2022 |
| • China Collegiate Programming Contest Finals
Gold award, 3rd place (with teammates Yixuan Even Xu and Binwei Yan) | May 2021 |

- **ACM International Collegiate Programming Contest, Asia Regional Contest, Jinan Site** Dec 2020
Gold medal, 1st place (with teammates Binwei Yan and Zheyu Zhang)
- **International Olympiad in Informatics China Team Selection** 2019–2020
5th place
- **China National Olympiad in Informatics** 2019
Gold medal, 11th place

SERVICE

- Conference Reviewing: SODA
- **Yao Class Student Seminar** 2023–2024
Co-organizer
- **Theory of Computation (Tsinghua University)** Spring 2022
Teaching Assistant (Instructor: Ran Duan)

VISITING AND INTERNSHIP

- **Massachusetts Institute of Technology** Spring 2023
Visiting student advised by Virginia Vassilevska Williams
- **Huawei TCS Lab, Shanghai, China** Summer 2021
Summer research internship, advised by Zhihao Gavin Tang
- **Megvii Technology, Beijing, China** Winter 2020
Winter research internship

SKILLS

- TOEFL iBT Score 107 Aug 2023
- Familiarity with C++, Python, MATLAB