Renfei Zhou

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EDUCATION

Tsinghua University, Beijing, China 2020–Present
B.Eng. in Computer Science, Yao Class, Institute for Interdisciplinary Information Sciences
- GPA: 3.98/4.0
- Ranked 3rd out of 76 students in Yao Class
- Related courses: Math for CS (A), Algorithm Design (A+), Theory of Computation (A+)
- Expected graduation: 2024-07.

SELECTED PUBLICATIONS

Authors are in alphabetical order.

Dynamic Dictionary with Subconstant Wasted Bits per Key
Tianxiao Li, Jingxun Liang, Huacheng Yu, **Renfei Zhou**. In *Proc. SODA*, 2024.

New Bounds for Matrix Multiplication: from Alpha to Omega
Virginia Vassilevska Williams, Yinzhan Xu, Zixuan Xu, **Renfei Zhou**. 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**. In *Proc. SOSA*, 2024.

Bidder Selection Problem in Position Auctions via Poisson Approximation
Nick Gravin, Yixuan Even Xu, **Renfei Zhou**. Preprint arXiv:2306.10648, 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** 2023
  Awarded to 4–5 students in Yao Class each year

- **Yao Award (Silver Medal)** 2023
  Awarded to 3 students in Yao Class each year

- **Excellent Comprehensive Scholarship of Tsinghua University** 2021 and 2022

- **China Collegiate Programming Contest Finals** 2021
  Gold award, 3rd place (with teammates Yixuan Even Xu and Binwei Yan)

- **ACM International Collegiate Programming Contest, Asia Regional Contest, Jinan Site** 2020
  Gold medal, 1st place (with teammates Binwei Yan and Zheyu Zhang)

- **International Olympiad in Informatics China Team Selection** 2020
  5th place

- **China National Olympiad in Informatics** 2019
  Gold medal, 11th place

SERVICE

- **Yao Class Research Seminar** 2023–2024
  Co-organizer; invited speaker

- **Yao Class Course-Review Seminar** 2020–2023
  Co-organizer; main speaker for multiple courses

- **Theory of Computation (Tsinghua University)** Spring 2022
  Teaching assistant (Instructor: Ran Duan)

- Conference reviewing: SODA

RESEARCH VISITS AND INTERNSHIPS

- **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