

HONGXUN WU

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whxwhx.github.io

EDUCATION

- **B.Eng., Tsinghua University** August 2018 - Present
Yao Class, Institute for Interdisciplinary Information Sciences
Overall GPA: 3.92 (Rank 2/54)

VISITING

- **Massachusetts Institute of Technology** Spring 2021
Visiting student (online) advised by Ryan Williams
- **ITCS, Shanghai University of Finance and Economics** Summer 2020 & 2021
Visiting student advised by Zhihao Gavin Tang, Hu Fu, Pinyan Lu
- **BARC, University of Copenhagen** Summer 2019
Visiting student advised by Mikkel Thorup

AWARDS AND SCHOLARSHIPS

- **Yao Award** October 2021
Gold Medal (Awarded to one Yao Class student each year)
- **Scholarship for Comprehensive Outstanding, Tsinghua** October 2020 & 2021
- **Scholarship for Academic Excellence, Tsinghua** September 2019
- **The ACM-ICPC Asia Regional Contest, Nanjing Site** October 2018
Gold Medal, 2nd place
- **National Olympics in Informatics** July 2017
Gold Medal, 5th place

PUBLICATIONS

- Zhihao Gavin Tang, Hongxun Wu, and Jinzhao Wu. **(Fractional) Online Stochastic Matching via Fine-Grained Offline Statistics** (*Submitted to STOC 2022*)
- Lijie Chen, Ce Jin, R. Ryan Williams, and Hongxun Wu. **Truly Low-Space Element Distinctness and Subset Sum via Pseudorandom Hash Functions**. In *Proceedings of the 33rd Annual ACM-SIAM Symposium on Discrete Algorithms (In Press), SODA 2022*
- Hu Fu, Pinyan Lu, Zhihao Gavin Tang, Abner Turkieltaub, Hongxun Wu, Jinzhao Wu, and Qianfan Zhang. **Oblivious Online Contention Resolution Schemes**. In *5th Symposium on Simplicity in Algorithms (In Press), SOSA 2022*
- Hu Fu, Zhihao Gavin Tang, Hongxun Wu, Jinzhao Wu, and Qianfan Zhang. **Random Order Vertex Arrival Contention Resolution Schemes for Matching, with Applications**. In *48th International Colloquium on Automata, Languages, and Programming, ICALP 2021*
- Kyriakos Axiotis, Arturs Backurs, Karl Bringmann, Ce Jin, Vasileios Nakos, Christos Tzamos, and Hongxun Wu. **Fast and Simple Modular Subset Sum**. In *4th Symposium on Simplicity in Algorithms, SOSA 2021*

- Hongxun Wu. **Near-Optimal Algorithm for Constructing Greedy Consensus Tree.** In *47th International Colloquium on Automata, Languages, and Programming, ICALP 2020*
- Ran Duan, Ce Jin, and Hongxun Wu. **Faster Algorithms for All Pairs Non-Decreasing Paths Problem.** In *46th International Colloquium on Automata, Languages, and Programming, ICALP 2019*
- Kyriakos Axiotis, Arturs Backurs, Ce Jin, Christos Tzamos, and Hongxun Wu. **Fast Modular Subset Sum using Linear Sketching.** In *Proceedings of the Thirtieth Annual ACM-SIAM Symposium on Discrete Algorithms, SODA 2019*
- Ce Jin and Hongxun Wu. **A Simple Near-Linear Pseudopolynomial Time Randomized Algorithm for Subset Sum.** In *2nd Symposium on Simplicity in Algorithms, SOSA 2019*

TALKS

- **Random Order Vertex Arrival Contention Resolution Schemes for Matching**
ICALP 2021 July 2021
- **Oblivious Online Contention Resolution Schemes**
Yao Class Seminar October 2020
- **Near-optimal Algorithm for Greedy Consensus Tree**
ICALP 2020 July 2020
- **Faster Algorithms for All-Pair Nondecreasing Path**
ICALP 2019 July 2019
TCS Youth Forum (ICT, Chinese Academy of Sciences) October 2019

TEACHING EXPERIENCE

Teaching Assistant Fall 2021
Algorithm Design (Instructor: Jian Li)

SERVICE

Conference Reviewing: SODA 2021

LANGUAGE SKILLS

- English (fluent): TOEFL 110 (Speaking 23)
- Chinese (native)