HONGXUN WU

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

AWARDS AND SCHOLARSHIPS

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

PUBLICATIONS

(In theoretical computer science, the authors are listed in alphabetical order.)

Zhihao Gavin Tang, Hongxun Wu, and Jinzhao Wu. (Fractional) Online Stochastic Matching via Fine-Grained Offline Statistics. In 54th Annual ACM Symposium on Theory of Computing, 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, 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

Element Distinctness, Birthday Paradox, and 1-out Pseudorandom Graphs

Yao Class Seminar November 2021

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 EXPERIENCES

Teaching Assistant, Tsinghua Fall 2021

Algorithm Design (Instructor: Jian Li)

SERVICES

Conference Reviewing: SODA 2021

LANGUAGES & SKILLS

English (fluent): TOEFL 110 (Speaking 23)

Chinese (native)

Programming, LATEX