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

SELECTED AWARDS AND SCHOLARSHIPS

PUBLICATIONS

Gold Medal, 5th place

- 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

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), GRE 323 + 4.0 (Vebal 157)
- Chinese (native)