# **HONGXUN WU**

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#### **EDUCATION**

B.Eng., 7	<b>Tsinghua</b>	Unive	rsitv
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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	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**

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

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

Oblivious Online Contention Resolution Schemes
Yao Class Seminar

October 2020

Near-optimal Algorithm for Greedy Consensus Tree

ICALP 2020

Faster Algorithms for All-Pair Nondecreasing Path

ICALP 2019
TCS Youth Forum (ICT, Chinese Academy of Sciences)
July 2019
October 2019

# TEACHING EXPERIENCES

Teaching Assistant Fall 2021

Algorithm Design (Instructor: Jian Li)

### **SERVICES**

Conference Reviewing: SODA 2021

#### LANGUAGES & SKILLS

English (fluent): TOEFL 110 (Speaking 23)

Chinese (native)

Programming, LATEX