Benyu Wang

Interests	
• Broad interest in Theoretical Computer Science .	
• Study and research experience in Graph Algorithms / Combinatorics .	
Education	
University of Michigan	Ann Arbor, US
PhD student at Computer Science and Engineering (CSE)	Aug 2023 – now
o Advisor: Prof. Thatchaphol Saranurak	
• GPA: 4.00 /4.00	
Tsinghua University (Yao Class)	Beijing, China
B.Eng., Computer Science and Technology	Aug 2019 – Jun 2023
o Advisor: Prof. Ran Duan	
o GPA: 3.90 /4.00 & For Yao Class courses only: 3.98 /4.00	
Selected Courses : (A+/A stand for 95-100 in 100-point values, A+ is the best g	rade)
· Mathematics for Computer Science (A+) & Mathematics for Artificial Intellige	nce (A+)
· Theory of Computation (A+) & Design and Analysis of Algorithms (A+)	
Experiences	
University of Michigan	Ann Arbor, US
Undergraduate Research Intern (Visitor)	Feb 2022 – Aug 2022
o Visited the theory group of UM. Worked with Prof. Seth Pettie and Prof. Thatc	haphol Saranurak.
INSAIT	Sofia, Bulgaria
Research Intern (Visitor)	Sep 2024 – Dec 2024
Teaching	
Graduate Student Instructor , Introduction to Algorithms Winter 2025	, University of Michigan
Undergraduate algorithm course instructed by Prof. Thatchaphol Saranurak.	
Teaching Assistant , Theory of Computation Spring 20	023, Tsinghua University
Undergraduate complexity theory course instructed by Prof. Ran Duan.	
Teaching Assistant , Design and Analysis of Algorithms Fall 20	022, Tsinghua University
Graduate-Level algorithm course instructed by Prof. Ran Duan.	
Services	
Conference Review: STOC(25), FOCS(23,24,25), SODA(24,25), ICALP(23), ITC	S(24,25), ESA(24).
Journal Review: Algorithmica.	
Selected Awards and Scholarships	
ICPC Astana World Finalist (Rank 2/15 in ICPC ECNA/NAC)	2023-2024
Excellent Academic Scholarship & Excellent Art Scholarship of Tsinghua Un	niversity 2022
Gold Medal in Chinese Mathematical Olympiad (CMO) (ranked 86th in China	2018
Silver Medal in National Olympiad in Informatics (NOI) (ranked 90th in China	a) 2018

Tight Conditional Lower Bounds for Vertex Connectivity Problems

Zhiyi Huang, Yaowei Long, Thatchaphol Saranurak, Benyu Wang o STOC 2023, arXiv:2212.00359.

Undirected 3-Fault Replacement Path in Nearly Cubic Time

Shucheng Chi, Ran Duan, Benyu Wang, Tianle Xie o ICALP 2025, arXiv:2411.18312.

Near-Optimal Fault-Tolerant Strong Connectivity Preservers

Gary Hoppenworth, Thatchaphol Saranurak, Benyu Wang
o FOCS 2025, to appear