Benyu Wang

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Interests		
• Broad interest in Theoretical Computer Science .		
o Study and research experience in Graph Algorithms and Lower	Bounds / Combinatori	cs.
Education		
University of Michigan	Ann	Arbor, US
PhD student at Computer Science and Engineering (CSE)	Aug 2	022 – now
o Advisor: Prof. Thatchaphol Saranurak		
Yao Class, Tsinghua University	Beiji	ng, China
B.Eng., Computer Science and Technology	Aug 2019	– Jun 2023
o Advisor: <i>Prof. Ran Duan</i>		
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+ i	s the best grade)	
· Mathematics for Computer Science (A+) & Mathematics for Artific	ial Intelligence (A+)	
The only one to get both A+ from the two courses instructed by Pro	f. Andrew Yao in Spring 2	2020.
· Theory of Computation (A+) & Design and Analysis of Algorithms	(A+)	
· Basic Topology (A) & Abstract Algebra (A+) & Game Theory (A) &	Cryptography (A)	
Experiences		
University of Michigan	Ann Arbor, US	
Undergraduate Research Intern (Visitor)	Feb 2022 – Aug 2022	
o Visiting the theory group of UM. Worked with Prof. Seth Pettie and	d Prof. Thatchaphol Saran	urak.
Publications		
Tight Conditional Lower Bounds for Vertex Connectivity Pro	blems	
Zhiyi Huang, Yaowei Long, Thatchaphol Saranurak, Benyu Wang		
o STOC 2023, arXiv:2212.00359.		
• We gave tight lower bounds for vertex connectivity problems	assuming the 4-Clique of	onjecture,
which separates the hardness of vertex connectivity problems and r	elated edge connectivity p	problems.
Teaching		
Teaching Assistant, Theory of Computation	Spring 2023, Tsinghua	University
Undergraduate theory course instructed by Prof. Ran Duan.		
Teaching Assistant, Design and Analysis of Algorithms	Fall 2022, Tsinghua	University
Graduate-Level algorithm course instructed by Prof. Ran Duan.		
Selected Awards and Scholarships		
Rank 2 in ICPC East Central NA Regional (Qualified into NA Cham	npionship)	2023
Excellent Academic Scholarship & Excellent Art Scholarship of Tsinghua University		2022
Excellent Voluntary and Public Service Scholarship of Tsinghua University		2020
Gold Medal in Chinese Mathematical Olympiad (CMO) (ranked 86th in China)		2018
Silver Medal in National Olympiad in Informatics (NOI) (ranked 90th in China)		2018