Xifan Yu

Contact Information	Email: xifan.yu@yale.eduTel: (773) 690-2203Homepage: xifanyu.github.ioAddress: 37 Trumbull St, Apt 5E, New Haven, CT, 06510		
Research Interests	I am broadly interested in theoretical computer science. Recently I am interested in graph theory, average- case complexity, Sum-of-Squares algorithms, and high-dimensional statistics.		
Education	ON Yale University Ph.D. in Computer Science (expected June 2027)		Sept 2021 - Present
	University of ChicagoM.S. in Computer Science (June 2021)B.S. in Computer Science (June 2021)B.S. in Mathematics (June 2021)		Sept 2017 - June 2021
Teaching Experience	 Yale University, Department of Computer Science Teaching Fellow CPSC 365 Algorithms, CPSC 202 Mathematical Tools for CS, 	ence Dr. Dylan McKay, Dr. Dylan McKay,	Sept 2022 - May 2023 New Haven, CT Spring 2023 Fall 2022
	University of Chicago, Department of Computer Science		Oct 2020 - Mar 2021
	 <i>Teaching Assistant</i> CMSC 27230 Honors Theory of Algorithms, CMSC 37115 Intro to Mathematical Reasoning, 	Prof. László Babai, Prof. László Babai,	<i>Chicago, IL</i> Winter 2021 Autumn 2020
	University of Chicago, Department of Computer Science		April 2019 - June 2020
	 Grader CMSC 27500 Graph Theory, CMSC 37000 Algorithms, CMSC 27530 Honors Graph Theory, 	Prof. Ketan Mulmuley, Prof. Yury Makarychev, Prof. László Babai,	Chicago, IL Spring 2020 Winter 2020 Spring 2019
Industry Experience	Horizon Robotics Inc. Software Engineer		June 2019 - Sept 2019 Cupertino, CA
Papers	Computational hardness of detecting graph lifts an graphs. Dmitriy Kunisky, Xifan Yu. Symposium o		
	Counting stars is constant-degree optimal for detecting any planted subgraph. Xifan Yu, Ilias Zadik, Peiyuan Zhang. Conference on Learning Theory (COLT), 2024.		
	A degree 4 sum-of-squares lower bound for the clique number of the Paley graph. Dmitriy Kunisky, Xifan Yu. Computational Complexity Conference (CCC), 2023.		
Honors and Awards	• Phi Beta Kappa, Inducted University of Chicago		June 2020
AWARDS	• Student Marshall June 2020 University of Chicago		
	• Dean's List 2017-2018, 2018-2019, 2019-2020 University of Chicago		
	Programming Competition Awards • Top 1000 in Round 2		May 2020
	Google Code Jam 2020 • North America Finalist		Feb 2020
	International Collegiate Programming Contest's inaugural North America C • Top 500 in Round 2		
	 Facebook Hacker Cup 2019 World Finalist 43rd Annual World Finals of the International Content 	ollegiate Programming Cor	April 2019 atest
References	Dan A. Spielman Sterling Professor of Computer Science		

a Professor Statistics and Data Science and of Mathematics

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