ZHIHAN JIN

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RESEARCH INTEREST

My research interest lies broadly in Discrete Mathematics, including Ramsey theory, algebraic and probabilistic Methods in Combinatorics, and the applications in Theoretical Computer Science.

EDUCATION

ETH Zürich	<i>October 2022</i> -	
- PhD in Mathematics		
- Supervised by Prof. Benny Sudakov		
ETH Zürich	September 2020 - August 2022	
- Master of Computer Science		
- GPA: 5.89/6		
Shanghai Jiao Tong University	September 2016 - June 2020	
- Bachelor of Engineering in Computer Science and Technology, ACM Honors Class, Zhiyuan College		
- ACM Honors Class is an elite CS program for top 5% talented students in $SJTU^1$.		
- Advisor: Yong Yu		
- GPA: 91.31/100 (3.93 /4. 3) Rank: 3rd/37 .		
SUBMITTED PAPERS		

Michael Anastos, Zhihan Jin, Matthew Kwan and Benny Sudakov, Extremal, enumerative and probabilistic results on ordered hypergraph matchings.

Lior Gishboliner, Zhihan Jin and Benny Sudakov, Ramsey problems for monotone paths in graphs and hypergraphs.

Recep Altar Çiçeksiz, Zhihan Jin, Eero Räty and István Tomon, Exponential Erdős-Szekeres theorem for matrices.

Lior Gishboliner, Zhihan Jin and Benny Sudakov, The Minimum Degree Removal Lemma Thresholds.

PUBLICATIONS

Zhihan Jin and István Tomon, Semi-algebraic and semi-linear Ramsey numbers, *Journal of Combina*torial Theory Series B. 163 (2023), 54-82.

Zhengfeng Ji, Zhihan Jin and Pinyan Lu, Approximating Permanent of a Random Matrix: Made Better and Simpler, *SODA* 2020.

Surbhi Goel, Aravind Gollakota, Zhihan Jin, Sushrut Karmalkar and Adam Klivans, Superpolynomial Lower Bounds for Learning One-Layer NeuralNetworks using Gradient Descent, *ICML* 2020.

HONORS AND AWARDS

Honors	
- Merit Student, top 3% all-round students over 17,000 in SJTU.	2018
Scholarships	
- CSC-IBM Excellent Student Scholarship, 40 over all students in China;	2019
- The Kaiyuanlizhi Scholarship, 0.2% over 17,000 students in SJTU;	2018
- Zhiyuan College Honored Scholarship, 5% over 17,000 students in SJTU; 2016, 2	2017, 2018
- National Scholarship, the highest honor for the top 0.2% undergraduates in China	; 2017
- The Hanyingjuhua Scholarship, 0.2% over 17,000 students in SJTU;	2017
- Changzhou Mettler Toledo Scholarship, 12 students in Changzhou, Jiangsu.	2016
Competitive Programming Contests	
- 2^{nd} in The 2017 ACM-ICPC ² Asia Hong Kong Regional Contest;	2017
- Gold Medal in The 2017 ACM-ICPC Asia East Continent League Final, Shenyang Regio	onal; 2017
- Gold Medal in The 2017 CCPC ³ -Final, Qinghuangdao Regional;	2017
- 3rd in The 2016 ACM-ICPC Asia Beijing Regional Contest;	2016
- 3rd in The 2016 CCPC Hefei Regional Contest;	2016
- Gold Medal in The 2016 ACM-ICPC Asia China-Final Contest.	2016

TEACHING EXPERIENCE

Teaching Assistant of Graph Theory, ETH Zürich	Spring 2023
Teaching Assistant of Probabilistic Methods of Combinatorics, ETH Zürich	$Autumn \ 2022$
Teaching Assistant of Mathematics for the Information Age, SJTU	Summer 2019
Student Coach of SJTU ACM-ICPC Teams, SJTU	Spring 2019
Student Coach of SJTU ACM-ICPC Teams, SJTU	Autumn 2018

 $^{^2 \}rm Association$ for Computing Machinery-International Collegiate Programming Contest $^3 \rm China$ Collegiate Programming Contest