

# Zhiyang Xun

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Education	<b>University of Texas at Austin</b> Ph.D. in Computer Science Advisors: Eric Price, David Zuckerman	2022 – Present
	<b>Shanghai Jiao Tong University</b> B.Eng. in Computer Science, Minor in Philosophy Member of ACM Honors Class and Zhiyuan Honors Program GPA: 4.04 / 4.3, Ranking: 1 / 33	2018 – 2022
Experience	<b>University of Pennsylvania</b> Visiting student advised by Prof. Sanjeev Khanna.	Summer 2024
	<b>Columbia University</b> Visiting student advised by Prof. Xi Chen.	Fall 2021
	<b>Shanghai Jiao Tong University</b> Research intern advised by Prof. Yijia Chen.	2020 - 2022
Publications and preprints	<b>Near-Optimal Averaging Samplers</b> Zhiyang Xun, David Zuckerman. <i>Preprint.</i>	
	<b>Improved Sample Complexity Bounds for Diffusion Model Training</b> Shivam Gupta, Aditya Parulekar, Eric Price, Zhiyang Xun. <i>Neural Information Processing Systems (NeurIPS 2024).</i>	
	<b>Spectral Guarantees for Adversarial Streaming PCA</b> Eric Price, Zhiyang Xun. <i>Foundations of Computer Science (FOCS 2024).</i>	
	<b>On Pigeonhole Principles and Ramsey in TFNP</b> Siddhartha Jain, Jiawei Li, Robert Robere, Zhiyang Xun. <i>Foundations of Computer Science (FOCS 2024).</i>	
	<b>Diffusion Posterior Sampling is Computationally Intractable</b> Shivam Gupta, Ajil Jalal, Aditya Parulekar, Eric Price, Zhiyang Xun. <i>International Conference on Machine Learning (ICML 2024).</i>	
	<b>On Algorithms Based on Finitely Many Homomorphism Counts</b> Yijia Chen, Jörg Flum, Mingjun Liu, Zhiyang Xun. <i>Mathematical Foundations of Computer Science (MFCS 2022).</i>	
Honors and scholarships	<b>Excellent Graduate Award of Shanghai</b> <i>Highest honor for college graduates in Shanghai</i>	2022

<b>Zhiyuan Honors Bachelor's Degree</b>	2022
<i>Graduated Summa Cum Laude in Zhiyuan Honors Program</i>	
<b>Zhiyuan Outstanding Student Scholarship</b>	2022
<i>Top 10% outstanding graduates of Zhiyuan Honors Program</i>	
<b>Fan Hsu-Chi Scholarship</b>	2019-2020
<i>About 10 winners every year at SJTU</i>	
<b>Zhiyuan Honorary Scholarship</b>	2018-2021
<b>Competitions</b>	
• ICPC South Central USA Regional Contest	2023
<i>Second place</i>	
• COMAP's Mathematical Contest in Modeling	2020
<i>Meritorious winner (Top 8%)</i>	
• The 34th China National Olympiad in Informatics (NOI)	2017
<i>Second prize</i>	

### Service

Conference reviewing: APPROX24, SODA24, MFCS23  
 Journal reviewing: Information and Computation

Teaching Assistant, CS1957: Algorithms, SJTU	Spring 2022
Teaching Assistant, CS301: Mathematical Logic, SJTU	Fall 2020
Teaching Assistant, CS151: C++ Programming (Honors), SJTU	Fall 2019