Shivam Nadimpalli

Contact	CSB Room 521, Mudd Building, Columbia University, NY NY 10027.	Email: sn2855@columbia.edu Website: www.cs.columbia.edu/~nadimpalli		
Interests	Classical & quantum complexity theory, testing	ical & quantum complexity theory, convex geometry, discrete Fourier analysis, property ng		
Education	N Columbia University in the City of New York PhD in Computer Science Advisors: Rocco A. Servedio and Mihalis Yannakakis		2019–Present	
	Brown University ScB in Mathematics–Computer Science Advisor: Sorin Istrail	with Honors	2015-2019	
Positions	Visiting Graduate Student Visited the Simons Institute for the The – Analysis and TCS: New Frontiers – Meta-Complexity	ed the Simons Institute for the Theory of Computing for the following programs: Analysis and TCS: New Frontiers Summer 2023		
Research	Authorship is alphabetical by last name, unless specified otherwise.			
	Manuscripts & Preprints			
	1. Testing Junta Truncation , with William He.			
	2. Testing Sumsets is Hard , with Xi Chen, Timothy Randolph, Rocco A. Servedio, and Or Zamir.			
	3. Gaussian Approximation of Convex Sets by Intersections of Halfsapces, with Anindya De and Rocco A. Servedio.			
4. A Counterexample to a Directed KKL Inequality, with Quentin Dubroff and Bhargav Narayanan.				
	Conference Publications			
	5. Detecting Low-Degree Truncation with Anindya De, Huan Li, and F		STOC 2024	
	6. Optimal Non-Adaptive Tolerant J with Shyamal Patel.	unta Testing via Local Estimators,	STOC 2024	
	7. On the Pauli Spectrum of QAC ⁰ , with Natalie Parham, Francisca V		2024, QIP 2024	
	8. Testing Intersecting and Union-C with Xi Chen, Anindya De, Yuha		ITCS 2024	
	9. Mildly Exponential Lower Bounds Unateness, and Juntas, with Xi Chen, Anindya De, Yuhao		i ty , SODA 2024	
	10. Testing Convex Truncation , with Anindya De and Rocco A. Se	ervedio.	SODA 2023	

	11. Testing and Learning Quantum Juntas Nearly Optimally , SOI with Thomas Chen and Henry Yuen.	DA 2023, QIP 2023	
	12. Convex Influences , with Anindya De and Rocco A. Servedio.	ITCS 2022	
	13. Approximating Sumset Size, with Anindya De and Rocco A. Servedio.	SODA 2022	
	14. Quantitative Correlation Inequalities via Semigroup Interpolation, with Anindya De and Rocco A. Servedio.	ITCS 2021	
	Journal Publications		
	 Anindya De, Shivam Nadimpalli, and Rocco A. Servedio. "Quan inequalities via extremal power series." In: <i>Probab. Theory Relat.</i> pp. 649–675. DOI: 10.1007/s00440-022-01120-5. 		
Invited	University of Michigan CS Theory Seminar	December 2023	
Talks	Stanford University CS Theory Seminar	November 2023	
	Northwestern University Theory Seminar	November 2023	
	Probability and Analysis Online Webinar	October 2023	
	University of Pennsylvania Theory Seminar	September 2023	
	Rutgers Discrete Mathematics Seminar	April 2023	
	UC Berkeley Theory Lunch DIMACS Theory of Computing Seminar	April 2023 February 2023	
	New York Colloquium on Algorithms and Complexity	December 2022	
	Stanford University CS Theory Seminar	March 2022	
Honors	Departmental Service Award, Columbia University	2022	
	Sigma Xi, Brown University	2019	
	Senior Prize, Department of Computer Science, Brown University	2019	
	High Honors, Budapest Semesters in Mathematics Kichora Viguan Protochan Voiana Followshin, Covernment of India	$2018 \\ 2014$	
	Kishore Vigyan Protsahan Yojana Fellowship, Government of India National Talent Search Scholar, Government of India	2014 2011	
TEACHING	Graduate Teaching Assistant		
	COMS 4236 Introduction to Computational Complexity COMS 4252 Introduction to Computational Learning Theory	Spring 2022 Spring 2021	
	High-School Mathematics Outreach (Primary Instructor)		
	Fun with Mathematical Inequalities (Columbia Science Honors Program) Introduction to the Theory of Computing (Alec Sun's Mathcamp)	Fall 2021 Summer 2020	
SERVICE	Co-Organizer for Stochastic Calculus Reading Group, Simons Institute Co-Organizer for Columbia Theory Lunch	Summer 2023 $2021-2023$	
	Co-Organizer for Columbia Theory Student Seminar	2021-2023	
	Mentor for Columbia Undergraduate Theory Seminar	2020-2022	
	Webmaster for Columbia Theory Website	2019–Present	
PC Member	COLT (2024)		
Reviewing	Conferences: FOCS (2021), STOC (2022, 2023), ITCS (2021–2024), COLT (2022), TQC (2023), RANDOM (2023), QIP (2024), STOC (2024)		
	Journals: Quantum (2023)		