

NIKHIL SRIVASTAVA

CONTACT INFORMATION	Simonyi Hall, 1 Einstein Drive Institute for Advanced Study Princeton, NJ 08540, USA	<i>phone:</i> +1-203-435-8538 <i>e-mail:</i> nikhils@math.ias.edu <i>url:</i> cs.yale.edu/homes/srivastava
EMPLOYMENT	Institute for Advanced Study , Princeton, NJ. <i>Member, School of Mathematics Sep '10–Jul '11</i>	
	Microsoft Research , Bangalore, India. <i>Research Intern, Algorithms Group Jul–Sep '08 & '10</i> Advisor: Ravi Kannan.	
	Microsoft Research , Mountain View, CA. <i>Research Intern, Theory Group Jun–Aug '08</i> Advisor: Rina Panigrahy.	
	Yale University , New Haven, CT. <i>Teaching Fellow</i> CPSC 468/568, Complexity Theory. <i>Spring '07</i> CPSC 201, Introduction to Computer Science. <i>Fall '06</i>	
	Union College , Schenectady, NY. <i>Research Assistant</i> Advisors: Alan Taylor and Chris Fernandes. <i>Summers '02–'04</i>	
	Union College , Schenectady, NY. <i>Tutor</i> Tutored students in mathematics, physics, computer science, and writing. <i>Oct '02 - May '05</i>	
EDUCATION	Yale University , New Haven, CT. <i>May '10</i> Ph.D. in Computer Science. Advisor: Daniel Spielman. Research areas: Spectral graph theory, linear algebra, convex geometry.	
	Union College , Schenectady, NY. <i>Jun '05</i> B.S., <i>summa cum laude</i> , Mathematics and Computer Science. Minor in English. Phi Beta Kappa ('04), Sigma Xi, Resch Prize in Mathematics, Williams Prize in Computer Science, Hale Prize in English ('04).	
PAPERS	“Graph Densification.” <i>Submitted</i> Moritz Hardt, Nikhil Srivastava, and Madhur Tulsiani.	
	“Covariance Estimation for Distributions with $2 + \epsilon$ Moments.” <i>Submitted</i> Nikhil Srivastava and Roman Vershynin.	
	“Dyadic Rounding of Vectors and Applications.” <i>Submitted</i> Amit Deshpande, Ravindran Kannan, and Nikhil Srivastava.	
	“Voting with Rubber Bands, Weights, and String.” <i>to appear</i> D. Cervone, R. Dai, D. Gnoutcheff, G. Lanterman, <i>Mathematical Social Sciences</i> A. Mackenzie, N. Srivastava, and W. Zwickler.	
	“On Contact Points of Convex Bodies.” <i>Manuscript</i> Nikhil Srivastava.	
	“An Elementary Proof of the Restricted Invertibility Theorem.” <i>To appear in Israel J. Math</i> Daniel Spielman and Nikhil Srivastava.	
	“Twice-Ramanujan Sparsifiers.” <i>STOC 2009</i> Joshua Batson, Daniel Spielman, and Nikhil Srivastava. To appear in SICOMP.	
	“Graph Sparsification by Effective Resistances.” <i>STOC 2008</i> Daniel Spielman and Nikhil Srivastava. To appear in SICOMP special issue.	
	“Learning and Verifying Graphs Using Queries with a Focus on Edge Counting.” <i>ALT 2007</i> Lev Reyzin and Nikhil Srivastava.	

“On the Longest Path Algorithm for Reconstructing Trees
from Distance Matrices.”
Lev Reyzin and Nikhil Srivastava.

IPL 101 (2007)

“Tight Bounds on Plurality.”
Nikhil Srivastava and Alan Taylor. (\therefore Erdős number = 2.)

IPL 96 (2005)

INVITED TALKS

Theory Lunch, Carnegie Mellon University, Pittsburgh, PA.	<i>Mar '11</i>
Functional Analysis Seminar, University of Michigan, Ann Arbor, MI.	<i>Mar '11</i>
ARC Seminar, Georgia Tech, Atlanta, GA.	<i>Feb '11</i>
Theory Group Seminar, Microsoft Research, Redmond, WA.	<i>Feb '11</i>
DIMACS Light Seminar, Rutgers University, New Brunswick, NJ.	<i>Feb '11</i>
Members Seminar, Institute for Advanced Study, Princeton, NJ.	<i>Nov '10</i>
Theory Seminar, Courant Institute, New York University, NY.	<i>Oct '10</i>
CSE Seminar, Indian Institute of Technology, Kanpur, India.	<i>Sep '10</i>
ICM Satellite Conf. on Algebraic/Probabilistic Aspects of Computing, Bangalore, India.	<i>Sep '10</i>
Theory Group Seminar, Microsoft Research, Redmond, WA.	<i>Jan '10</i>
Algorithms and Complexity Seminar, MIT, Cambridge, MA.	<i>Oct '09</i>
IP for Lunch, IBM TJ Watson Research Center, Yorktown Heights, NY.	<i>Oct '09</i>
CS/Discrete Math Seminar, Institute for Advanced Study, Princeton, NJ.	<i>Sept '09</i>
Theory Seminar, Courant Institute, New York University, NY.	<i>Oct '08</i>
CSA Seminar, Indian Institute of Science, Bangalore, India.	<i>Aug '08</i>
MMDS 2008, Stanford University, CA.	<i>Jun '08</i>
SIAM Conference on Discrete Mathematics, Burlington, VT.	<i>Jun '08</i>
Theory Lunch, Princeton University, NJ.	<i>Apr '08</i>

OTHER

Citizenship. Indian.

Service. Reviewer for SODA, STOC, Algorithmica.

Memberships. AMS, MAA, ACM, IEEE, Sigma Xi, Yale Theory Clique.

Programming Languages. Java, C/C++, MATLAB, Scheme, ML, SQL.

Hobbies. Table tennis (varsity in high school), snowboarding, running, squash.