

Day 3: Wednesday November 8, 2023

🕒	Track A (Sequoia A-B)	Track B (Sequoia C)	Track B (Sequoia C)
7:30 - 9:00	Registration		
9:00 - 10:15	Workshop: Exploring The Frontiers Of Adaptive Robustness	Workshop: Online Algorithms And Online Rounding: Recent Progress	Workshop: Recent Developments In Explicit Constructions
10:15 - 10:35	Break		
10:35 - 11:50	Session 8A	Session 8B	Session 8C
	<p>Computing linear sections of varieties: quantum entanglement, tensor decompositions and beyond</p> <p><i>Nathaniel Johnston (Mount Allison University); Benjamin Lovitz (Northeastern University); Aravindan Vijayaraghavan (Northwestern University)</i></p>	<p>Constant-Factor Approximation Algorithms for Convex Cover and Hidden Set in a Simple Polygon</p> <p><i>Reilly Browne (Department of Computer Science, Stony Brook University); Prahlad Narasimham Kasthurirangan, Joseph S. B. Mitchell (Stony Brook University); Valentin Polishchuk (Linköping University, Sweden)</i></p>	<p>Quartic Samples Suffice for Fourier Interpolation</p> <p><i>Zhao Song (Adobe Research); Baocheng Sun (Weizmann Institute of Science); Omri Weinstein (The Hebrew University and Columbia University.); Ruizhe Zhang (The University of Texas at Austin)</i></p>
	<p>Parallel Repetition for the GHZ Game: Exponential Decay</p> <p><i>Mark Braverman (Princeton University); Subhash Khot (NYU); Dor Minzer (MIT)</i></p>	<p>Improved Approximations for Vector Bin Packing via Iterative Randomized Rounding</p> <p><i>Ariel Kulik (CISPA); Matthias Mnich (TU Hamburg); Hadas Shachnai (Technion)</i></p>	<p>Fast Numerical Multivariate Multipoint Evaluation</p> <p><i>Sumanta Ghosh (Caltech); Prahladh Harsha (TIFR); Simao Herdade (Yahoo Research); Mrinal Kumar, Ramprasad Saptharishi (TIFR)</i></p>
	<p>Bounding the quantum value of compiled nonlocal games: from CHSH to BQP verification</p> <p><i>Anand Natarajan, Tina Zhang (MIT)</i></p>	<p>Parameterized Approximation Schemes for Clustering with General Norm Objectives</p> <p><i>Fateme Abbasi, Sandip Banerjee, Jaroslav Byrka (University of Wrocław, Poland); Parinya Chalermsook, Ameet Gadekar (Aalto University, Espoo, Finland); Kamyar Khodamoradi (University of British Columbia); Daniel Marx (CISPA Helmholtz Center for Information Security, Saarbrücken, Germany); Roohani Sharma (Max Planck Institute for Informatics, Saarbrücken, Germany); Joachim Spoerhase (University of Sheffield, United Kingdom)</i></p>	<p>Locally Uniform Hashing</p> <p><i>Ioana-Oriana Bercea (IT University of Copenhagen); Lorenzo Beretta, Jonas Klausen, Jakob Bæk Tejs Houen, Mikkel Thorup (University of Copenhagen)</i></p>
	<p>stateQIP = statePSPACE</p> <p><i>Tony Metger (ETH Zurich); Henry Yuen (Columbia University)</i></p>	<p>Memory-Query Tradeoffs for Randomized Convex Optimization</p> <p><i>Xi Chen, Binghui Peng (Columbia University)</i></p>	<p>Generalizations of Matrix Multiplication can solve the Light Bulb Problem</p> <p><i>Josh Alman, Hengjie Zhang (Columbia University)</i></p>
11:50 - 1:45	Lunch (Poolside Lounge)		
1:45 - 3:00	National Academy Of Sciences, Held Prize Lecture Chair: Dan Spielman Speaker: Amit Sahai (2022 Held Prize Recipient) (Sequoia A-B)		

3:00 - 3:20	Break		Community Session: Surfing Excursion!
3:20 - 4:35	Session 9A	Session 9B	
	<p>Tight Space Lower Bound for Pseudo-Deterministic Approximate Counting</p> <p><i>Ofer Grossman (MIT); Meghal Gupta (UC Berkeley); Mark Sellke (Harvard)</i></p>	<p>Dynamic $(1+\epsilon)$-Approximate Matching Size in Truly Sublinear Update Time</p> <p><i>Sayan Bhattacharya, Peter Kiss (University of Warwick); Thatchaphol Saranurak (University of Michigan)</i></p>	
	<p>Extracting Randomness from Samplable Distributions, Revisited</p> <p><i>Marshall Ball (NYU); Dana Dachman-Soled (University of Maryland, College Park); Eli Goldin (NYU); Saachi Mutreja (University Of California, Berkeley)</i></p>	<p>Super-Logarithmic Lower Bounds for Dynamic Graph Problems</p> <p><i>Kasper Green Larsen (Aarhus University); Huacheng Yu (Princeton University)</i></p>	
	<p>Pseudorandom Hashing for Space-bounded Computation with Applications in Streaming</p> <p><i>Praneeth Kacham (Carnegie Mellon University); Rasmus Pagh, Mikkel Thorup (University of Copenhagen); David P. Woodruff (Carnegie Mellon University)</i></p>	<p>The Complexity of Dynamic Least-Squares Regression</p> <p><i>Shunhua Jiang, Binghui Peng, Omri Weinstein (Columbia University)</i></p>	
	<p>Work-Efficient Parallel Derandomization I: Chernoff-like Concentrations via Pairwise Independence</p> <p><i>Mohsen Ghaffari (MIT); Christoph Grunau, Vaclav Rozhon (ETH Zurich)</i></p>	<p>Approximating Edit Distance in the Fully Dynamic Model</p> <p><i>Tomasz Kociumaka (Max Planck Institute for Informatics); Anish Mukherjee (University of Warwick); Barna Saha (University of California San Diego)</i></p>	
4:35 - 4:55	Break		

4:55 - 6:10	Session 10A	Session 10B	
	<p>From Grassmannian to Simplicial High-Dimensional Expanders</p> <p><i>Louis Golowich (UC Berkeley)</i></p>	<p>Chasing Positive Bodies</p> <p><i>Sayan Bhattacharya (University of Warwick); Niv Buchbinder, Roie Levin (Tel Aviv University); Thatchaphol Saranurak (University of Michigan)</i></p>	
	<p>HDX Condensers</p> <p><i>Itay Cohen, Roy Roth, Amnon Ta-Shma (Tel Aviv University)</i></p>	<p>Dynamic "Succincter"</p> <p><i>Tianxiao Li, Jingxun Liang (IIS, Tsinghua University); Huacheng Yu (Princeton University); Renfei Zhou (IIS, Tsinghua University)</i></p>	
	<p>Optimal mixing of the down-up walk on independent sets of a given size</p> <p><i>Vishesh Jain, Marcus Michelen (University of Illinois Chicago); Huy Tuan Pham, Thuy-Duong Vuong (Stanford University)</i></p>	<p>Dynamic treewidth</p> <p><i>Tuukka Korhonen (University of Bergen); Konrad Majewski, Wojciech Nadara, Michał Pilipczuk, Marek Sokołowski (University of Warsaw)</i></p>	
	<p>List Decoding of Tanner and Expander Amplified Codes from Distance Certificates</p> <p><i>Fernando Granha Jeronimo (Institute for Advanced Study); Shashank Srivastava, Madhur Tulsiani (TTIC)</i></p>	<p>Sensitivity and Dynamic Distance Oracles via Generic Matrices and Frobenius Form</p> <p><i>Adam Karczmarz, Piotr Sankowski (University of Warsaw and IDEAS NCBR)</i></p>	
6:30 - 8:00	<p>Reception</p> <p>(Poolside Lounge)</p>		