

## Day 4: Thursday November 9, 2023

🕒	Track A (Sequoia A-B)	Track B (Sequoia C)	Track C (Sequoia D)
7:30 - 9:00	Registration		
9:00 - 10:15	<b>Workshop: Exploring The Frontiers Of Adaptive Robustness</b>	<b>Workshop: Online Algorithms And Online Rounding: Recent Progress</b>	<b>Workshop: Recent Developments In Explicit Constructions</b>
10:15 - 10:35	Break		
10:35 - 11:50	Session 11A	Session 11B	Session 11C
	<p><b>A Strong Composition Theorem for Junta Complexity and the Boosting of Property Testers</b></p> <p><i>Guy Blanc, Caleb Koch, Carmen Strassle, Li-Yang Tan (Stanford University)</i></p>	<p><b>Strongly History Independent Storage Allocation: New Upper and Lower bounds</b></p> <p><i>William Kuszmaul (MIT)</i></p>	<p><b>Canonical decompositions of 3-connected graphs</b></p> <p><i>Johannes Carmesin, Jan Kurkofka (University of Birmingham)</i></p>
	<p><b>New Lower Bounds for Adaptive Tolerant Junta Testing</b></p> <p><i>Xi Chen, Shyamal Patel (Columbia University)</i></p>	<p><b>Tight Cell-Probe Lower Bounds for Dynamic Succinct Dictionaries</b></p> <p><i>Tianxiao Li, Jingxun Liang (IIIS, Tsinghua University); Huacheng Yu (Princeton University); Renfei Zhou (IIIS, Tsinghua University)</i></p>	<p><b>Proof of the Clustered Hadwiger Conjecture</b></p> <p><i>Vida Dujmović (University of Ottawa); Louis Esperet (Laboratoire G-SCOP, Grenoble); Pat Morin (Carleton University); David Wood (Monash University)</i></p>
	<p><b>Testing Graph Properties with the Container Method</b></p> <p><i>Eric Blais, Cameron Seth (University of Waterloo)</i></p>	<p><b>Online Ordinal Problems: Optimality of Comparison-based Algorithms and their Cardinal Complexity</b></p> <p><i>Nick Gravin (Shanghai University of Finance and Economics); Enze Sun (The University of Hong Kong); Zhihao Gavin Tang (Shanghai University of Finance and Economics)</i></p>	<p><b>Slicing all Edges of an <math>n</math>-cube Requires <math>n^{\frac{2}{3}}</math> Hyperplanes</b></p> <p><i>Ohad Klein (Hebrew University)</i></p>
	<p><b>A <math>d^{\frac{1}{2}+o(1)}</math> Monotonicity Tester for Boolean Functions on <math>d</math>-Dimensional Hypergrids</b></p> <p><i>Hadley Black (University of California, Los Angeles); Deeparnab Chakrabarty (Dartmouth College); C. Seshadhri (University of California, Santa Cruz)</i></p>	<p><b>Collapsing the Hierarchy of Compressed Data Structures: Suffix Arrays in Optimal Compressed Space</b></p> <p><i>Dominik Kempa (Stony Brook University); Tomasz Kociumaka (Max Planck Institute for Informatics)</i></p>	<p><b>Directed Acyclic Outerplanar Graphs Have Constant Stack Number</b></p> <p><i>Paul Jungeblut, Laura Merker, Torsten Ueckerdt (Karlsruhe Institute of Technology)</i></p>
11:50 - 1:45	Lunch (Poolside Lounge)		

1:45 - 3:00	Session 12A	Session 12B	Session 12C
	<p><b>Sparsifying Sums of Norms</b></p> <p><i>Arun Jambulapati, James R. Lee (University of Washington); Yang P. Liu, Aaron Sidford (Stanford University)</i></p>	<p><b>Interior-point methods on manifolds: theory and applications</b></p> <p><i>Hiroshi Hirai (Department of Mathematical Informatics, Graduate School of Information Science and Technology, The University of Tokyo, Tokyo, Japan); Harold Nieuwboer (Korteweg-de Vries Institute for Mathematics and QuSoft, University of Amsterdam, The Netherlands and Faculty of Computer Science, Ruhr University Bochum, Germany); Michael Walter (Faculty of Computer Science, Ruhr University Bochum, Germany)</i></p>	<p><b>On Symmetric Factorizations of Hankel Matrices</b></p> <p><i>Mehrdad Ghadiri (Georgia Institute of Technology)</i></p>
	<p><b>Towards derandomising Markov chain Monte Carlo</b></p> <p><i>Weiming Feng, Heng Guo (University of Edinburgh); Chunyang Wang (Nanjing University); Jiaheng Wang (University of Edinburgh); Yitong Yin (Nanjing University)</i></p>	<p><b>ReSQueing Parallel and Private Stochastic Convex Optimization</b></p> <p><i>Yair Carmon (Tel Aviv University); Arun Jambulapati (University of Washington); Yujia Jin (Stanford University); Yin Tat Lee (Microsoft Research); Daogao Liu (University of Washington); Aaron Sidford (Stanford University); Kevin Tian (Microsoft Research)</i></p>	<p><b>Krylov Methods are (nearly) Optimal for Low-Rank Approximation</b></p> <p><i>Ainesh Bakshi, Shyam Narayanan (Massachusetts Institute of Technology)</i></p>
	<p><b>Uniqueness and Rapid Mixing in the Bipartite Hardcore Model</b></p> <p><i>Xiaoyu Chen, Jingcheng Liu, Yitong Yin (Nanjing University)</i></p>	<p><b>The Bit Complexity of Efficient Continuous Optimization</b></p> <p><i>Mehrdad Ghadiri (Georgia Institute of Technology); Richard Peng (University of Waterloo); Santosh Vempala (Georgia Institute of Technology)</i></p>	<p><b>Matrix Completion in Almost-Verification Time</b></p> <p><i>Jonathan Kelner (MIT); Jerry Li (Microsoft Research); Allen Liu (MIT); Aaron Sidford (Stanford University); Kevin Tian (Microsoft Research)</i></p>
	<p><b>On the tractability of sampling from the Potts model at low-temperatures via Swendsen--Wang dynamics</b></p> <p><i>Antonio Blanca (Pennsylvania State University); Reza Cheissari (Northwestern University)</i></p>	<p><b>Sparse Submodular Function Minimization</b></p> <p><i>Andrei Graur (Stanford University); Haotian Jiang (Microsoft Research); Aaron Sidford (Stanford University)</i></p>	<p><b>Faster Matrix Multiplication via Asymmetric Hashing</b></p> <p><i>Ran Duan (IIIS, Tsinghua University); Hongxun Wu (University of California at Berkeley); Renfei Zhou (IIIS, Tsinghua University)</i></p>
3:00 - 3:20	<b>Break</b>		

3:20 - 4:35	Session 13A	Session 13B	Session 13C
	<p><b>Query lower bounds for log-concave sampling</b></p> <p><i>Sinho Chewi (MIT); Jaume de D�s Pont (University of California, Los Angeles); Jerry Li (Microsoft Research); Chen Lu (MIT); Shyam Narayanan (Massachusetts Institute of Technology)</i></p>	<p><b>Optimal Algorithms for Bounded Weighted Edit Distance</b></p> <p><i>Alejandro Cassis (Saarland University, Saarland Informatics Campus, Max Planck Institute for Informatics); Tomasz Kociumaka, Philip Wellnitz (Max Planck Institute for Informatics, Saarland Informatics Campus)</i></p>	<p><b>Covering Planar Metrics (and Beyond): <math>O(1)</math> Trees Suffice</b></p> <p><i>Hsien-Chih Chang, Jonathan Conroy (Dartmouth College); Hung Le (University of Massachusetts); Lazar Milenkovi�, Shay Solomon (Tel Aviv University); Cuong Than (College of Information and Computer Sciences, University of Massachusetts Amherst)</i></p>
	<p><b>Algorithmic Decorrelation and Planted Clique in Dependent Random Graphs: The Case of Extra Triangles</b></p> <p><i>Guy Bresler, Chenghao Guo, Yury Polyanskiy (MIT)</i></p>	<p><b>Faster Algorithms for Text-to-Pattern Hamming Distances</b></p> <p><i>Timothy M. Chan (UIUC); Ce Jin (MIT); Virginia Vassilevska Williams (Massachusetts Institute of Technology); Yinzhan Xu (MIT)</i></p>	<p><b>Planar and Minor-Free Metrics Embed into Metrics of Polylogarithmic Treewidth with Expected Multiplicative Distortion Arbitrarily Close to 1</b></p> <p><i>Vincent Cohen-Addad (Google Research, France); Hung Le (University of Massachusetts); Marcin Pilipczuk (University of Warsaw and IT University of Copenhagen); Micha� Pilipczuk (University of Warsaw)</i></p>
	<p><b>The Full Landscape of Robust Mean Testing: Sharp Separations between Oblivious and Adaptive Contamination</b></p> <p><i>Cl�ment Canonne (University of Sydney); Samuel B Hopkins (Massachusetts Institute of Technology); Jerry Li (Microsoft Research); Allen Liu, Shyam Narayanan (Massachusetts Institute of Technology)</i></p>	<p><b>All-Pairs Max-Flow is no Harder than Single-Pair Max-Flow: Gomory-Hu Trees in Almost-Linear Time</b></p> <p><i>Amir Abboud (Weizmann Institute of Science); Jason Li (UC Berkeley); Debmalya Panigrahi (Duke University); Thatchaphol Saranurak (University of Michigan)</i></p>	<p><b>Path-Reporting Distance Oracles with Logarithmic Stretch and Size <math>O(n \log \log n)</math></b></p> <p><i>Michael Elkin, Idan Shabat (Ben-Gurion University)</i></p>
	<p><b>Faster high-accuracy log-concave sampling via algorithmic warm starts</b></p> <p><i>Jason M. Altschuler (New York University); Sinho Chewi (Massachusetts Institute of Technology)</i></p>	<p><b>Why we couldn't prove SETH hardness of the Closest Vector Problem for even norms!</b></p> <p><i>Divesh Aggarwal (National University of Singapore); Rajendra Kumar (Weizmann Institute of Science)</i></p>	

4:35 - 4:55	Break		<p>Community Session: <b>Surfing Excursion!</b></p>
4:55 - 6:10	Session 14A	Session 14B	
	<p><b>Deterministic Fully Dynamic SSSP and More</b></p> <p><i>Jan van den Brand (Georgia Institute of Technology); Adam Karczmarz (University of Warsaw and IDEAS NCBR)</i></p>	<p><b>Distribution of the threshold for the symmetric perceptron</b></p> <p><i>Mehtaab Sawhney, Ashwin Sah (MIT)</i></p>	
	<p><b>Local Computation Algorithms for Maximum Matching: New Lower Bounds</b></p> <p><i>Soheil Behnezhad (Northeastern University); Mohammad Roghani, Aviad Rubinfeld (Stanford University)</i></p>	<p><b>Properly Learning Decision Trees with Queries is NP-Hard</b></p> <p><i>Caleb Koch, Carmen Strassle, Li-Yang Tan (Stanford University)</i></p>	
	<p><b>Secure Computation Meets Distributed Universal Optimality</b></p> <p><i>Merav Parter (Weizmann IS)</i></p>	<p><b>Beyond Moments: Robustly Learning Affine Transformations with Asymptotically Optimal Error</b></p> <p><i>He Jia (Georgia Tech); Pravesh Kothari (CMU); Santosh Vempala (Georgia Tech)</i></p>	
		<p><b>Stability and replicability in learning</b></p> <p><i>Zachary Chase (Oxford); Shay Moran (Technion-IIT and Google Research); Amir Yehudayoff (Technion-IIT)</i></p>	