

Schedule for 6.S078 Presentations

(* denotes a project)

May 7 (Monday): Algorithms

1. Arsen Vasilyan: Finding Orthogonal Vectors in discrete structures
2. Neekon Vafa: Finding a Heaviest Vertex-Weighted Triangle is not Harder than Matrix Multiplication
3. Lisa Yang: N. Bansal, R. Williams. Regularity Lemmas and Combinatorial Algorithms. Theory of Computing 2012.
4. Mina Dalirrooyfard: k-Pattern detection*

May 9 (Wednesday): Hardness in P

5. Kevin Lu: Arturs Backurs and Piotr Indyk. Which regular expression patterns are hard to match? In FOCS 2016.
6. Bertie Ancona: Subtree Isomorphism Revisited
7. Thuy Duong Vuong: Popular Conjectures as a Barrier for Dynamic Planar Graph Algorithms
8. Nicole Wein – Approximating the diameter*

May 14 (Monday): Extensions of SETH

9. Malvika Joshi: Nondeterministic Extensions of SETH and Consequences for Non-reducibility
10. William Kretschmer: Strong ETH breaks with Merlin and Arthur: Short non-interactive proofs of batch evaluation
11. Kliment Serafimov: TBA?
12. Nikhil Vyas: Isolation for k-SAT*

May 16 (Wednesday): Fine-Grained X for other X's

12. Jason Lu: Marshall Ball, Alon Rosen, Manuel Sabin, and Prashant Nalini Vasudevan. Average-case fine-grained hardness
13. Rio LaVigne and Andrea Lincoln: Fine-grained Cryptography*
14. Abhijit Mudigonda: Volumes of Polytopes and PIT*
15. Lijie Chen, Yinzhan Xu and Yuancheng Yu: Fine-Grained Complexity Meets Communication Complexity*