Rudy B. Zhou

Address
5 Bayard Rd. Apt. 907
Pittsburgh, PA 15213

Contact Information
rbz@andrew.cmu.edu
https://rudyzhou.github.io/

Research Interests

Algorithms under Uncertainty including Online, Stochastic, and with Predictions, Approximation Algorithms, Combinatorial Optimization

Education

PhD Algorithms, Combinatorics, and Optimization — *2018 - 2023 (Expected)*
Carnegie Mellon University — *GPA 3.89/4.00*
Advisor: Ben Moseley

MS Computer Science — *2016 - 2017*
Washington University in St. Louis — *GPA 3.84/4.00*
Advisor: Brendan Juba

BA Mathematics — *2012 - 2016*
Washington University in St. Louis — *GPA 3.98/4.00*

Publications

Author order is alphabetical by last name unless otherwise noted by (⋆).

- *Benjamin Moseley, Kirk Pruhs, Clifford Stein, Rudy Zhou*
  A Competitive Algorithm for Throughput Maximization on Identical Machines
  In submission. https://arxiv.org/abs/2111.06564
- *Silvio Lattanzi, Benjamin Moseley, Sergei Vassilvitskii, Yuyan Wang, Rudy Zhou*
  Robust Online Correlation Clustering
  Thirty-fifth Annual Conference on Neural Information Processing Systems (NeurIPS 2021).
- *Sungjin Im, Benjamin Moseley, Rudy Zhou*
  The Matroid Cup Game
  Operations Research Letters, Volume 49, Issue 3, May 2021, Pages 405-411. https://doi.org/10.1016/j.orl.2021.04.005.
- *Anupam Gupta, Benjamin Moseley, Rudy Zhou*
  Structural Iterative Rounding for Generalized k-Median Problems
  48th International Colloquium on Automata, Languages, and Programming (ICALP 2021). https://drops.dagstuhl.de/opus/volltexte/2021/14146/.
- *Rudy Zhou, Han Liu, Tao Ju, Ram Dixit (⋆)*
  Quantifying the polymerization dynamics of plant cortical microtubules using kymograph analysis
  Methods in Cell Biology, Academic Press, 2020. ISSN 0091-679X. https://doi.org/10.1016/bs.mcb.2020.04.006.
- *Sungjin Im, Mahshid Montazer Qaem, Benjamin Moseley, Xiaorui Sun, Rudy Zhou*
  Fast Noise Removal for k-Means Clustering
  Proceedings of the Twenty Third International Conference on Artificial Intelligence and Statistics (AISTATS), PMLR 108:456-466, 2020. http://proceedings.mlr.press/v108/im20a.

Relevant Coursework

Linear Programming, Graph Theory, Convex Optimization
Discrete Math, Probability, Extremal Combinatorics
Modern Approximation Algorithms, FPT Algorithms

Teaching Experience

Teaching Assistant at Carnegie Mellon University: Graph Theory (Fall 2020, Fall 2021)

Teaching Assistant at Washington University in St. Louis: Computational Geometry (Fall 2017), Object-Oriented Software Development Laboratory (Spring 2017)

Professional Service

Reviewer for: Transactions of Knowledge and Data Engineering (TKDE), Integer Programming and Combinatorial Optimization (IPCO), Mathematical Programming

Programming Skills

C++, Java, Python