

Rudy B. Zhou

Address

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Pittsburgh, PA 15213

Contact Information

rbz@andrew.cmu.edu
<https://rudyzhou.github.io/>

Research Interests

Algorithms under uncertainty including online and stochastic models, Approximation Algorithms, Combinatorial Optimization

Education

PhD Algorithms, Combinatorics, and Optimization
Carnegie Mellon University
Advisor: Ben Moseley

2018 - 2023 (Expected)
GPA 3.89/4.00

MS Computer Science
Washington University in St. Louis
Advisor: Brendan Juba

2016 - 2017
GPA 3.84/4.00

BA Mathematics
Washington University in St. Louis

2012 - 2016
GPA 3.98/4.00

Publications

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

- 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