

Rudy Zhou

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<https://rudyzhou.github.io/>

Research Interests

Algorithms under uncertainty, Approximation algorithms, Stochastic combinatorial optimization

Education

PhD Algorithms, Combinatorics, and Optimization	2018 - 2023 (Expected)
Carnegie Mellon University	GPA 3.83/4.00
Advisor: Benjamin 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

Industry Experience

Research Intern	Summer 2022
Microsoft Research Redmond, Cloud Operations Research (CORE) group	
Mentor: Konstantina Mellou	

Preprints

Konstantina Mellou, Marco Molinaro, Rudy Zhou
Online Demand Scheduling with Failovers
arXiv, 2022. [Link](#)

Anupam Gupta, Benjamin Moseley, Rudy Zhou
Minimizing Completion Times for Stochastic Jobs via Batched Free Times
arXiv, 2022. [Link](#)

Franziska Eberle, Anupam Gupta, Nicole Megow, Benjamin Moseley, Rudy Zhou
Configuration Balancing for Stochastic Requests
arXiv, 2022. [Link](#)

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
IPCO 2022. [Link](#)

Silvio Lattanzi, Benjamin Moseley, Sergei Vassilvitskii, Yuyan Wang, Rudy Zhou
Robust Online Correlation Clustering
NeurIPS 2021. [Link](#)

Sungjin Im, Benjamin Moseley, Rudy Zhou
The Matroid Cup Game
Operations Research Letters 2021. [Link](#)

Anupam Gupta, Benjamin Moseley, Rudy Zhou
Structural Iterative Rounding for Generalized k -Median Problems
ICALP 2021. [Link](#)

Rudy Zhou, Han Liu, Tao Ju, Ram Dixit (★)
Quantifying the polymerization dynamics of plant cortical microtubules using kymograph analysis
Methods in Cell Biology, 2020. [Link](#)

Sungjin Im, Mahshid Montazer Qaem, Benjamin Moseley, Xiaorui Sun, Rudy Zhou
Fast Noise Removal for k -Means Clustering
AISTATS 2020. [Link](#)

Presentations

Combinatorial Optimization and Logistics Seminar, University of Bremen 2022
A Competitive Algorithm for Throughput Maximization on Identical Machines

Theory Reading Group, Dartmouth 2022
Structural Iterative Rounding for Generalized k -Median Problems

Teaching

Main Instructor at Carnegie Mellon University: MBA Calculus Fundamentals (Spring 2022 Session 1, Spring 2022 Session 2)

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)

Service

Reviewer for: STOC, IPCO, ICALP, APPROX, Math Programming, Information Processing Letters

Programming Skills

C++, Java, Python