Ruiquan Gao

ruiquan@stanford.edu

Education

Doctor of Philosophy in Computer Science September 2022 - Present
Advised by Aviad Rubinstein and Moses Charikar,
Stanford University

Bachelor of Engineering in Computer Science August 2018 - June 2022
Yao Class, Institute for Interdisciplinary Information Sciences
Tsinghua University, GPA: 3.95/4.00 (Rank 5/54)

Publications

Ruiquan Gao, Mohammad Roghani, Aviad Rubinstein, Amin Saberi, *Hardness of Approximate Sperner and Applications to Envy-Free Cake Cutting.* In Proceedings of the 65th IEEE Symposium on Foundations of Computer Science, FOCS 2024 (to appear)

Nima Anari, **Ruiquan Gao**, Aviad Rubinstein, *Parallel Sampling via Counting.* In Proceedings of the 56th Annual ACM Symposium on Theory of Computing, STOC 2024

Moses Charikar, **Ruiquan Gao**, *Improved Approximations for Ultrametric Violation Distance.* In Proceedings of the 2024 ACM-SIAM Symposium on Discrete Algorithms, SODA 2024

Eric Budish, **Ruiquan Gao**, Abraham Othman, Aviad Rubinstein, Qianfan Zhang, *Practical algorithms and experimentally validated incentives for equilibrium-based fair division (A-CEEI).* In Proceedings of the 24th ACM Conference on Economics and Computation, EC 2023

Ruiquan Gao, Zhongtian He, Zhiyi Huang, Zipei Nie, Bijun Yuan, Yan Zhong, *Improved Online Correlated Selection.* In Proceedings of the 62nd IEEE Annual Symposium on Foundations of Computer Science, FOCS 2021

Talks

Parallel Sampling via Counting
STOC 2024 June 2024
Stanford Theory Lunch June 2024

Improved Approximations for Ultrametric Violation Distance
SODA 2024 January 2024

Improved Online Correlated Selection
Yao Class Seminar November 2021

Honors and Awards

Stanford Graduate Fellowship March 2022

Yao Award September 2021
Bronze Medal

Scholarship for Comprehensive Outstanding, Tsinghua October 2020

Scholarship for Academic Excellence, Tsinghua October 2019 & 2021

ACM-ICPC Asia Regional Contest (Xuzhou) October 2018
Gold Medal (champion)

National Olympiad in Informatics July 2016 & 2017
Gold Medal

Other Research Experience

Stanford University
(Remote) visiting student advised by Aviad Rubinstein Spring 2021
Project: Approximate Competitive Equilibrium from Equal Incomes

The University of Hong Kong
(Remote) research intern advised by Zhiyi Huang Summer 2020
Project: Online Correlated Selection

Services

Conference Subreviewing: SODA 2022, STOC 2024, ICALP 2024