Xiaoyu Chen

★ chenxiaoyu233.github.io/info/

• 163 Xianlin Ave.
Nanjing, Jiangsu Province

Research Interests

Theoretical computer science, Markov chains

Education

Ph.D. in Computer Science (2020 — **Present**)

Nanjing University

Advisor: Professor Yitong Yin

B.Eng. in Computer Science (2016 - 2020)

University of Electronic Science and Technology of China

Advisor: Professor Mingyu Xiao

Honors and Awards

National Scholarship	MOE of PRC	2021
Outstanding Graduate Student	UESTC	2020
Rank 8 of IEEEXtreme 12.0 Programming Competition	IEEE	2018
Silver Medal of The ACM-ICPC Asia Regional Contest, Beijing Site	ACM	2017

Publications

5 A near-linear time sampler for the Ising model with external field with Xinyuan Zhang

SODA 2023

4 Optimal mixing for two-state anti-ferromagnetic spin systems with Weiming Feng, Yitong Yin and Xinyuan Zhang

FOCS 2022

- Rapid mixing of Glauber dynamics via spectral independence for all degrees FOCS 2021 with Weiming Feng, Yitong Yin and Xinyuan Zhang Invited to SICOMP Special Issue
- 2 Exact algorithms for maximum weighted independent set on sparse graphs with Sen Huang and Mingyu Xiao

COCOON 2021

1 Computing maximum k-defective cliques in massive graphs with Yi Zhou, Jin-Kao Hao and Mingyu Xiao

Comput. Oper. Res. 127 (2021)

Talks

Field dynamics: A new algorithmic tool for fast Gibbs sampling without degree restriction. CCF TCS PhD Forum, online, 2022

Teaching Assistantships

Computation Method Nanjing University Spring 2022

Instructor: Jingcheng Liu

Advanced Algorithms Nanjing University Fall 2021

Instructor: Yitong Yin

Service

External reviewer for: RANDOM 2022