Chunyang Wang

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WORK EXPERIENCE

Project Researcher — 11/2025 - Now
National Institute of Informatics

EDUCATION

Ph.D in Computer Science — 09/2020 - 07/2025
Nanjing University
- Field: Theoretical Computer Science
- Advisor: Yitong Yin

B.Sc in Computer Science — 09/2016 - 07/2020
Nanjing University

RESEARCH INTERESTS

- Counting and sampling algorithms
- Discrete probability

SELECTED AWARDS & HONORS

The 45th International Collegiate Programming Contest, Shenyang Regional — 2021-07-18
2nd Place, Gold Medal — Liaoning, China

The 47th International Collegiate Programming Contest, Nanjing Regional — 2022-12-18
2nd Place, Gold Medal — Jiangsu, China

The 47th International Collegiate Programming Contest, World Finals — 2024-04-15
6th Place, Silver Medal — Luxor, Egypt

National Scholarship (2023) — 2023-10-12

PUBLICATIONS

1. Kun He, Chunyang Wang, Yitong Yin.
   Sampling Lovász local lemma for general constraint satisfaction solutions in near-linear time.
   In **FOCS** 2022: 147-158.

2. Kun He, Chunyang Wang, Yitong Yin.
   Deterministic counting Lovász local lemma beyond linear programming.
   In **SODA** 2023: 3388-3425.

3. Weiming Feng, Heng Guo, Chunyang Wang, Jiaheng Wang, Yitong Yin.
   Towards derandomising Markov chain Monte Carlo.
   In **FOCS** 2023: 1963-1990.

4. Chunyang Wang, Yitong Yin.
   A Sampling Lovász Local Lemma for Large Domain Sizes.
   In **FOCS** 2024: 129-150

5. Aditya Lonkar, Zongchen Chen, Chunyang Wang, Kuan Yang, Yitong Yin.
   Counting random k-SAT near the satisfiability threshold.
   in **STOC** 2025: 867-878

6. Jingcheng Liu, Chunyang Wang, Yixiao Yu, Yitong Yin.
   Phase Transitions via Complex Extensions of Markov Chains.
   in **STOC** 2025: 903-914

7. Konrad Anand, Graham Freifeld, Heng Guo, Chunyang Wang, Jiaheng Wang.
   Sink-free orientations: a local sampler with applications
   in **RANDOM** 2025: 60:1–60:19

Preprints

1. Hongyang Liu, Chunyang Wang, Yitong Yin.
   Local Gibbs sampling beyond local uniformity.
   arXiv:2502.10795, to appear in **SODA** 2026

Talks

Counting random k-SAT near the satisfiability threshold.

LFCS Seminar, University of Edinburgh, Edinburgh, UK, 2024

Complexity & Algorithms Workshop, Sun Yat-sen University, Guangzhou, Guangdong, China, 2025

STOC, Prague, Czech Republic, 2025

A Sampling Lovász Local Lemma for Large Domain Sizes.

ACO Seminar, Georgia Institute of Technology, Atlanta, USA, 2024

FOCS, Chicago, Illinois, USA, 2024

Theory Student Day, University of Science and Technology of China, Hefei, Anhui, China, 2025

Towards derandomising Markov chain Monte Carlo.

MCMC 2.0 Workshop, NII Shonan Meeting, Shonan, Japan, 2023

FOCS, Santa Cruz, California, USA, 2023

Deterministic counting Lovász local lemma beyond linear programming.

SODA, Online, 2023

A sampling Lovász local lemma.

2023 CCF Forum for Distinguished Ph.D. Candidates in Theoretical Computer Science, Hong Kong, China, 2023

Teaching Assistantships

Advanced Algorithms (Fall 2020)	Nanjing University
Instructor: Yitong Yin	
Advanced Algorithms (Fall 2022)	Nanjing University
Instructor: Yitong Yin	
Combinatorics (Spring 2023)	Nanjing University
Instructor: Yitong Yin	
Combinatorics (Spring 2024)	Nanjing University
Instructor: Yitong Yin	

Services

Reviewing:
Conference: TAMC 2024, ITCS 2025, STOC 2025
Journal: TALG 2024