

# Chunyang Wang

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## EDUCATION

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### Ph.D in Computer Science

09/2020 - Present

Nanjing University

- Field: Theoretical Computer Science
- Advisor: Yitong Yin

### B.Sc in Computer Science

09/2016 - 06/2020

Nanjing University

## RESEARCH INTERESTS

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- Counting and sampling algorithms
- Discrete probability

## AWARDS & HONORS

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### 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

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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.

## PREPRINTS

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1. Chunyang Wang, Yitong Yin.  
*A Sampling Lovász Local Lemma for Large Domain Sizes.*  
To appear in **FOCS** 2024.

## TALKS

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*Towards derandomising Markov chain Monte Carlo.*

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

FOCS, Santa Cruz, California, US, 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

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*Advanced Algorithms (Fall 2020)*

Instructor: Yitong Yin

Nanjing University

*Advanced Algorithms (Fall 2022)*

Instructor: Yitong Yin

Nanjing University

*Combinatorics (Spring 2023)*

Instructor: Yitong Yin

Nanjing University

*Combinatorics (Spring 2024)*

Instructor: Yitong Yin

Nanjing University

## SERVICES

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External Reviewer for STOC (2023), COCOON (2024), TAMC (2024).