

EDUCATION

Nanjing University (NJU), Nanjing, China 2024.9 – Present

Ph.D. in Computer Science, Advisor: Prof. Yitong Yin

Field: Theoretical Computer Science

Nanjing University (NJU), Nanjing, China 2020.9 – 2024.6

B.S. in Computer Science and Financial Engineering

RESEARCH INTERESTS

sampling and counting, probability theory, discrete mathematics.

PUBLICATIONS

Authors are listed alphabetically unless otherwise stated.

Conference Papers

1. David G. Harris, Vladimir Kolmogorov, Hongyang Liu, Yitong Yin, **Yiyao Zhang**.
Near-optimal parallel approximate counting via sampling.
In **SPAA 2026**, to appear.
2. Weiming Feng, Xiongxin Yang, Yixiao Yu, **Yiyao Zhang**.
Learning CNF formulas from uniform random solutions in the local lemma regime.
In **STOC 2026**, pp. 478–488.
3. Ruijie Miao, **Yiyao Zhang**, Guanyu Qu, Kaicheng Yang, Tong Yang, Bin Cui. (*by contribution*)
Hyper-USS: Answering subset query over multi-attribute data stream.
In **SIGKDD 2023**, pp. 1698–1709.

TALKS

1. Learning CNF formulas from uniform random solutions in the local lemma regime.
STOC 2026, Salt Lake City, Utah, USA.

VISITING AND INTERNSHIP

The University of Hong Kong (HKU), Hong Kong SAR, China 2025.12 – 2026.01

Research assistant hosted by Asst. Prof. Weiming Feng.

TEACHING ASSISTANTSHIPS

- Advanced Algorithms (Nanjing University) Fall 2025, Fall 2024
Instructor: Yitong Yin, Shi Li, Jingcheng Liu.

AWARDS

Presidential Special Scholarship for Doctoral Students 2024.9

Outstanding Undergraduate Student of Nanjing University 2024.6

National Scholarship for Undergraduate Students 2023.9