

# Yixiao Yu

+86-15165387546 | [yixiaoyu@smail.nju.edu.cn](mailto:yixiaoyu@smail.nju.edu.cn) | [www.yixiaoyu.fun](http://www.yixiaoyu.fun)

Last update: Sep.2025

## EDUCATION

- **Ph.D in Computer science** 09/2023 - Now  
*Nanjing University*
  - Field: Theoretical computer science
  - Advisor: Jingcheng Liu
- **B.Sc in Computer science** 09/2019-06/2023  
*Shandong University*
  - Advisor: Haitao Jiang

## RESEARCH INTERESTS

- Approximate counting and sampling
- Zero-freeness of generating polynomial

## PUBLICATIONS

1. Jingcheng Liu, Chunyang Wang, Yitong Yin, Yixiao Yu  
*Phase Transitions via Complex Extensions of Markov Chains.*  
In **STOC 2025**.
2. Xin Tong, Yixiao Yu, Ziyi Fang, Haitao Jiang, Lusheng Wang, Binhai Zhu and Daming Zhu.  
*Cabbage Can't Always Be Transformed into Turnip: Decision Algorithms for Sorting by Symmetric Reversals.*  
In **COCOON 2023**.

## TALKS

*Phase Transitions via Complex Extensions of Markov Chains.*  
Complexity & Algorithms Workshop, Sun Yat-sen University, Guangzhou, Guangdong, China, 2025  
STOC, Prague, Czech Republic, 2025

## TEACHING ASSISTANTSHIPS

- **Computational method (Spring 2025)** Nanjing University
- **Advanced algorithm (Fall 2024)** Nanjing University
- **Computational method (Spring 2024)** Nanjing University
- **Operating system (Spring 2022)** Shandong University

## SELECTED AWARDS AND HONORS

- **CCF Elite Collegiate Award** 2022
- **Qingdao Bank Scholarship** 2021