

Shenyu Qin

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Education

Shanghai Jiao Tong University

Sept. 2022 – Present

Undergraduate in Computer Science

- GPA: 3.78/4.3 (89.03/100)
- Member of John Hopcroft Honors Class, a CS program at [Zhiyuan College](#) for the top 10% of students, with a focus on Theoretical Computer Science
- Relevant Coursework: Mathematical Analysis II (93), Combinatorial Mathematics (91), Probability Theory (91), Computational Complexity (98), Online Algorithms (95), Statistical Learning Theory (97)

Experience

Some Variant of Pandora's box Problem

John Hopcroft Center, SJTU

Advised by Prof. [Yuhao Zhang](#)

Jan. 2026 – Present

- Ongoing

Existence of α -winning and α -dominating committees in an Impartial Culture

DIMACS, Rutgers University

Aug. 2025 – Dec. 2025

Advised by Prof. [Kangning Wang](#) and Prof. [Lirong Xia](#)

- Studied the existence of α -winning and α -dominating committees of size k in an impartial culture when the number of candidates m is much larger than the number of voters n
- Established two sharp thresholds for α : an α -winning committee exists w.h.p. iff $\alpha < \frac{k-1}{k}$, and an α -dominating committee exists w.h.p. iff $\alpha < \frac{k-1}{2k}$, when m is sufficiently larger than n and $n = \omega(1)$.
- Wrote a manuscript based on the results

Online Load and Graph Balancing for Random Order Inputs

John Hopcroft Center, SJTU

Advised by Prof. [Yuhao Zhang](#)

Jul. 2024 – Mar. 2025

- Studied the online load balancing problem for random order inputs, aiming to close the gap between the $\Omega(\sqrt{\log m})$ lower bound and the $O(\log m / \log \log m)$ upper bound by designing an $O(\sqrt{\log m})$ -competitive algorithm, where m is the number of machines.
- Investigated the online graph balancing problem, which is a special case of the original problem, trying to analyze the competitive ratio of a newly-designed algorithm in this case
- Participated in TCS Reading Group every week

Publications

Winning in the Limit: Average-Case Committee Selection with Many Candidates

Preprint([arXiv](#))

with Yifan Lin, Kangning Wang and Lirong Xia

Honors and Awards

Zhiyuan Honors Scholarship (Top 10%), SJTU

2022, 2023, 2024, 2025

Skills

Programming Languages: C++, C, Python, Rust

Software: L^AT_EX, MATLAB, Coq

Languages: Mandarin (Native), English (TOEFL: 104)