

Shenyu Qin

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Education

Shanghai Jiao Tong University
Undergraduate in Computer Science

Sept. 2022 – Present

- 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
Advised by Prof. [Yuhao Zhang](#)

John Hopcroft Center, SJTU
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
Advised by Prof. [Yuhao Zhang](#)

John Hopcroft Center, SJTU
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

Preprints

Winning in the Limit: Average-Case Committee Selection with Many Candidates
with *Yifan Lin, Kangning Wang and Lirong Xia*

[arXiv](#)

Honors and Awards

Zhiyuan Honors Scholarship (Top 10%), SJTU

2022, 2023, 2024, 2025

Skills

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

Software: \LaTeX , MATLAB, Coq

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