Hao Hu

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Personal Statement

As a third-year undergraduate at the Institute for Interdisciplinary Information Sciences(commonly known as the Yao Class), Tsinghua University, I have consistently demonstrated strong academic performance across multiple courses, particularly in programming, mathematics and algorithms. Throughout my studies, I participated in two course projects praised by instructor for its quality, received many awards in math and algorithm competitions. Currently, I am a visiting student at the University of Washington, working on Reinforcement Learning research under the guidance of Professor Simon S. Du. I am a co-first author of a paper under review at NeurIPS 2025, which originated from my internship research at UW.

Education

Tsinghua University Beijing, China

Pursuing a B.E. in Institute for Interdisciplinary Information Sciences (expected) 2022 - 2026

- GPA: 3.81/4.00

University of Washington (visiting student) Seattle, WA, USA

Conducting research on Reinforcement Learning under Prof. Simon S. Du as a visiting student Feb 2025 - Aug 2025

Scholarships

- **Academic Excellence Scholarship**, Tsinghua University 2022-2023

Competitions and Awards

- **NOI 2020**, Gold Medal (10th place out of over 300 participants)
- **NOI 2021**, Gold Medal (10th place out of over 300 participants)
- **The 2022 ICPC Asia East Continent Final Contest**, Gold Medal (4th place out of 317 teams)
- **China Undergraduate Mathematical Contest in Modeling, 2023**, First Prize (Beijing Division)

Skills

Programming: Proficient in Python and C++, with experience developing projects in TypeScript(React). Achieved excellent results in many courses with heavy coding loads and rewards in ICPC contests.

Mathematics: Strong foundation in linear algebra, anaiysis, probability, and statistics; strong modeling ability to solve problems in course projects and competitions.

Algorithms: Proficient in data structures and algorithms; recipient of multiple awards in algorithmic contests.

Course Projects

TSMSP2023 System Development Summer 2023

Our team developed an outstanding web-based full-stack system in the Type-safe Modern System Practice course, which was highly praised by the course instructor, Professor Yang Yuan. The system has since been officially adopted for use in the IIIS secondary admission system for that year.

Boosting Performance Of LLMs On Graph Theory Tasks Fall 2024

Our team studied cutting-edge prompt techniques based on chain-of-thought, applied and refined them for the task-specific characteristics of graph theory problems, and improved accuracy in solving such problems with LLMs. This project was recognized as an outstanding project by Professor Tianxing He.