Xiaoyang Xu

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Education

University of California, Santa Barbara   *Goleta, CA, United States*
Ph.D. Student in Computer Science   *Sep. 2024 - CURRENT*
- Researching on Graph Algorithms with Prof. Daniel Lokshtanov. Received 5 years of support.

School of the Gifted Young, University of Science and Technology of China   *Hefei, China*
B.Eng. in Computer Science   *Sep. 2020 - Jun. 2024*
- Graduated with Highest Honors. GPA: 3.93; Rank: 3/67.

Experience

John A. Paulson School of Engineering and Applied Science, Harvard University   *Boston, MA, United States*
Research Assistant (Prof. Heng Yang)   *Jul. 2023 - Jan. 2024*
- Explored the Sum of Squares technique and Polynomial Optimization algorithms. Implemented tools about Correlative Sparsity.

School of Data Science, University of Science and Technology of China   *Hefei, China*
Research Assistant (Prof. Hu Ding)   *Aug. 2021 - Jul. 2023*
- Independently designed and implemented a data structure to help solving Optimal Transport problems.

Publication

AAAI24 <u>X Xu</u>, H Ding *A Novel Skip Orthogonal List for Dynamic Optimal Transport Problem*   [PDF]
WAFR24 S Kang, <u>X Xu</u>, J Sarva, L Liang, H Yang *Fast and Certifiable Trajectory Optimization*   [PDF]

Conferences

10th Heidelberg Laureate Forum   *Heidelberg, Germany*
Selected Participant   *Sep. 24 - 29, 2023*
- Chosen from several hundred applicants through an international, scientific selection process.
- Gained academic career insight from tens of Turing Award winners and explored research frontiers of CS and Math with other young scholars.

Selected Honors & Awards

2024	**Gold Award,**	International Collegiate Programming Contest China National Invitational
2024	**GUO Moruo Scholarship,**	Awarded by University of Science and Technology of China (CNY 30000, top 2%)
2023	**China National Scholarship,**	Awarded by Ministry of Education (CNY 8000, top 2‰ in China)
2023	**Honors Program Stipend,**	Awarded by School of Computer Science (cover all tuition and fees)
2022	**First Prizes,**	Lanqiao Cup Programming Contest Regional (14th Python, 13th C/C++)
2021	**First Prize,**	Anhui Collegiate Programming Contest
2021	**First Prize,**	13th Chinese Mathematics Competition
2018	**First Prize,**	China National Olympiad in Informatics in Provinces

Extracurricular Activity

Algorithms & Programming Club, University of Science and Technology of China   *Hefei, China*
Vice President   *May. 2021 - May. 2022*
- Co-organized USTC Programming Contest in Apr. 2022 (150+ participants). Fully responsible for problem designing and testing.
- Organized training for programming competitions, including practice problem selecting and tutorial sessions.

Skills

Programming **C & C++**, **Python**, Matlab, Verilog & System Verilog, C#, x86 & RISC-V Assembly, HTML, JavaScript
Languages Chinese (Mothertongue), English (TOEFL 107 with speaking 23)