Harry Huang

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Research Interest

Reinforcement Learning, Computational Complexity Theory, Learning Theory, Algorithms

Education

University of Wisconsin - Madison Jan 2024 - May 2027
BS in Computer Science with Honors, BS in Mathematics with Honors (Expected)

- GPA: 3.91/4.0
- **Selected Coursework:** MATH 521/522 Analysis I/II, MATH 541 Modern Algebra, MATH 551 Elementary Topology, MATH 475 Introduction to Combinatorics, COMP SCI 639 Deep Learning for Computer Vision, MATH 341 Linear Algebra

Nanjing University of Posts and Telecommunications Sep 2022 - Jan 2024
BS in Computer Science and Technology (Transferred)

Nanjing Foreign Language School Sep 2019 - Jun 2022

- Participating in Olympiad in Informatics, and won national first prizes every year during my three years of high school.
- Member of Algorithm Club

Experience

Machine Learning Student Researcher in University of Wisconsin Madison Jan 2025 - Present

- Working on research in Reinforcement Learning with Prof. Josiah Hanna.
- Study and improve the preformance of DRO (Distributionally Robust Optimization) in multi-task learning.

Machine Learning Peer Mentor in University of Wisconsin Madison Jan 2025 - May 2025

- Holding office hours 5 hours every week to help students with programming assignments and lectures;
- Assisting students in the implementation of advanced machine learning algorithms, including Linear Algebra and PCA, NLP (Natural Language Processing), Unsupervised Learning, Neural Networks, Deep Learning, Reinforcement learning, etc.

ICPC Team in University of Wisconsin Madison Oct 2024 - Present

- Participating in various competitive programming contests, including NAC(North America Championship), NCNA(ICPC North America North Central Regional), etc.

Directed Reading Program in University of Wisconsin Madison Feb 2025 - Apr 2025

- We explore graph theory from a proofs based perspective with a few algorithms on graphs (beyond Dijkstra's). Our study follow Douglas West's: Introduction to Graph Theory very closely.
- Our study cover concepts of connectivity, bipartite matchings, graph colouring Algorithms such as Edmonds-Karp for network flow, and matroids.

Leetcode Club Leadership Team in University of Wisconsin Madison Oct 2024 - May 2025

- Giving lectures about data structures, algorithms, and programming skills.
- Holding meetings every two weeks.

Computer Science Learning Center Tutor in University of Wisconsin Madison Sep 2024 - Dec 2024

- Working as volunteer peer mentor of COMP SCI 200/300/400/252

Honors & Awards

Champion of International Collegiate Programming Contest (ICPC) - North Central NA Regional Contest Nov 2024

- 1st among 96 teams. The only team solved 9 of the problems.

Nicholas D. Yankaitis Memorial Scholarship May 2025

- Prestigious award to recognize academic excellence among undergraduate Computer Sciences majors.

Dean's List Every Semester in UW Madison

Silver Medal of China Collegiate Programming Contest (CCPC) - Jiangsu Province Contest May 2023

National First Prize in National Olympiad in Informatics in Provinces (NOIP) Nov 2021

Technologies

Languages: C++, C, Java, Python, HTML, CSS, JavaScript

Technologies: (Deep) Reinforcement Learning, Dynamic Planning, Machine Learning, Algorithm Optimization, Competitive Programming, Teaching