

Yichen Huang

huangyichen430@gmail.com
(+44) 07579946218 / (+86) 18612863057

EDUCATION

Harvard University, Cambridge, Massachusetts Oct. 2024 - June 2029 (Expected)
Ph.D. in Computer Science
Advisor: Prof. Micheal Mitzenmacher
Research Area: Theoretical Computer Science; Online Algorithms; Random Algorithms.

University of Oxford, Oxfordshire, United Kindom Oct. 2020 - June 2024
Master of Computer Science (Integrated Master)
GPA:
Undergraduate (Part A and B): 82.97, ranking 1/45 First Class Honors
Graduate (Part C): Pending

RESEARCH EXPERIENCE

Additive Spectral Sparsification of Graphs Oct. 2022 - May 2023
Supervisor: Prof. Stanislav Žitný Department of Computer Science, University of Oxford
Theoretical Research concerning finding sparse subgraphs that maintain core mathematical properties.

Online Metric Embeddings with Monotone Recourse Oct. 2023 - Present
Supervisor: Prof. Christian Coester Department of Computer Science, University of Oxford
Theoretical Research concerning embedding a general metric space into specific ones, therefore reducing complexity.
Paper submitted to Symposium on Discrete Algorithms 2025.

Graph Kernels Incorporating Spatial Information July 2022 – Sept 2022
Supervisor: Dr. David Kohan Marzagao Department of Engineering, University of Oxford
Exploring different kernels to incorporate the spatial configuration of molecules.
Paper under review of the Journal of American Chemical Society (JACS).

Efficient Task Grouping Using Sample-wise Convergence Analysis Oct. 2023 - Present
Supervisor: Dr. Anshul Thakur Department of Engineering, University of Oxford
Exploring task grouping algorithms for multi-task learning using theoretical analysis like Dynamic Programming.

WORK EXPERIENCE

Jane Street Capital London, United Kingdom
Software Development Intern July 2023 - Sept. 2023
Implemented systems and software to help trading and settlement. Implemented an app to automatically act on similar issues in multiple similar servers based on the action taken on the primary server, reducing developers' repetitive work. Worked on an app that gathers information from various sources regarding settlements and displays combined information. The developed application was put into production.

Honors and Awards

Gold Medal (4th Place), ICPC Northwestern Europe Regional Contest Nov. 2022
Silver Medal (4th Place), ICPC Northwestern Europe Regional Contest Nov. 2021
Gold Medal, Asia Pacific Olympiad in Informatics China Regional May 2019
Semifinalist, Chinese University Debating Cup Jan. 2024