Yichen Huang

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Education

Harvard University   Sept. 2024 - June 2030 (Expected)
Ph.D. in Computer Science
  Advisor: Prof. Michael Mitzenmacher
  Research Interests: Online Algorithms; Learning-Augmented Algorithms; Random Algorithms; Economics and Computing

University of Oxford   Oct. 2020 - June 2024
Master of Computer Science (Integrated Master)
  Undergraduate (Part A and B): First Class Honors, *Best Overall Performance in the Cohort.*
  Graduate (Part C): Distinction.

Publications

α denotes alphabetical ordering which is conventional for theoretical computer science, $*$ denotes equal contributions.

(J2) Efficient Task Grouping Through Samplewise Optimisation Landscape Analysis
Anshul Thakur*, Yichen Huang*, Soheila Molaei, Yujiang Wang, David A. Clifton
IEEE Transactions on Pattern Analysis and Machine Intelligence

(J1) Property Prediction of Bio-Derived Block Copolymer Thermoplastic Elastomers Using Graph Kernel Methods
Shannon R. Petersen, David Kohan Marzagão, Georgina L. Gregory, Yichen Huang, David A. Clifton, Charlotte K. Williams, Clive R. Siviour
Angewandte Chemie

Working Papers and Manuscripts

Protecting Formation or Information? The Regimes of Data Property Rights
(α) Yichen Huang, Zhen Sun, Xinzhen Xu, Bozhong Zheng

Mixed Moran Process
(α) David A. Brewster, Yichen Huang, Michael Mitzenmacher, Martin A. Nowak

Online and Dynamic Metric Embeddings with Monotone Recourse
(α) Christian Coester, Yichen Huang

Balancing Growth and Equity: Multi-Objective Optimization in Urban Renewal with Deep Reinforcement Learning
Jianghao Yu*, Yichen Huang*, Yuming Lin, Yu Zheng, Yuge Cui, Michael Mitzenmacher, Yong Li, and Li Tian

Honors and Awards

Honorable Mention, International Collegiate Programming Contest (ICPC) World Final   Apr. 2024
Gold Medal (4th Place), ICPC Northwestern Europe Regional Contest   Nov. 2022
Hoare Prize for Best Overall Performance, Oxford CS Department   Nov. 2023
Gold Medal, Asia Pacific Olympiad in Informatics China Regional   May 2019

Misc

I enjoy competitive Mandarin Debating in my casual time, having won multiple awards, including:

- Runner-up and Best Closing Speaker, 2024 Chinese Debate World Cup
- Semifinalist and Best Closing Speaker, 2023 Chinese Debate World Cup
- Champion, 2025 International Chinese Debate Championship Club Master Tournament