

# Zixuan Zhu

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## EDUCATION

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### University of Hong Kong

Ph.D. in Computer Science

Hong Kong, HK

2022–Current

- Advisor: Prof. Zhiyi Huang
- Research Interests: Online Algorithms, Approximation Algorithms, Optimal Stopping Theory

### University of Hong Kong

B.S. in Mathematics

Hong Kong, HK

2017–2022

- GPA: 3.55/4.30, Second Class Honors (Division One)
- Thesis: *Control Theory and Mean Field Problems*, supervised by Dr. Tak Kwong WONG

## PUBLICATIONS

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- [1] Nikhil Bansal, Zhiyi Huang, and **Zixuan Zhu**. *Optimal  $k$ -Approximation for the Correlated Pandora's Problem*, In Proceedings of the 66th Annual Symposium on Foundations of Computer Science (FOCS 2025). <https://arxiv.org/abs/2509.17029>
- [2] Zhiyi Huang, Zahra Parsaeian, and **Zixuan Zhu**. *Laminar Matroid Secretary: Greedy Strikes Back*, In Proceedings of the 32nd Annual European Symposium on Algorithms (ESA 2024). **Track S Best Paper Award** <https://arxiv.org/abs/2308.09880>
- [3] Enze Sun, Bo Wang, Quan Xue, Mengshi Zhao, and **Zixuan Zhu**. *MPMD on Two Sources with Lookahead*, In Proceedings of the 30th International Computing and Combinatorics Conference (COCOON 2024). **Best Student Paper Award** <https://link.springer.com/chapter/10.1007/978-981-96-1090-7-15>

## ACADEMIC EXPERIENCES

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### Shanghai Jiao Tong University

John Hopcroft Center for Computer Science

Shanghai, CN

January-April 2026

- Visiting study hosted by Prof. Yuhao Zhang
- Work on adaptivity gap of stochastic probing problem and probemax problem

### University of Hong Kong

Department of Mathematics

Hong Kong HK

May-August 2022

- Research Assistant (full-time) hosted by Dr. Tak Kwong WONG
- Work on analytical and numerical solutions to mean field games

### University of Hong Kong

Faculty of Science

Hong Kong HK

June-September 2019

- Summer Research Fellowship (SRF) supervised by Prof. Zhiwen Zhang
- Work on solving partial differential equation with machine learning

## INTERNSHIPS

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### Nonconvex Intelligent Technology Co., Ltd

Quantitative Research Internship (HFT Team)

Shanghai, CN  
May-September 2025

- Develop high-frequency market-making strategies for futures.
- Develop efficient order-splitting algorithms for various instruments.

### AIA Group

Actuarial Internship (Integrated Reporting Team)

Hong Kong, HK  
July-December 2020

- Data extraction and analysis for financial reports.

### Hong Kong Educational Publishing Co., Ltd

Editorial Assistant

Hong Kong, HK  
June 2020

- Design and proofread mathematics exercise book and DSE simulation volume.

## SCHOLARSHIPS AND AWARDS

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- Jane Street Estimathon @ HKU 3rd Place 2025
- ESA 2024 Best Paper Award (Track S) 2024
- COCOON 2024 Best Student Paper Award 2024
- HKU Postgraduate Scholarship 2022

## TALKS

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- FOCS 2025: Optimal 4-Approximation for the Correlated Pandora's Problem December 2025  
*Video:* <https://www.youtube.com/watch?v=1KZWlCdiJ7g>  
*Slides:* <https://docs.google.com/FOCS2025-slides/>  
*Poster:* <https://docs.google.com/TCS-poster/>
- ESA 2024: Laminar Matroid Secretary: Greedy Strikes Back September 2024  
*Slides:* <https://docs.google.com/ESA2024-slides/>

## TEACHING

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- **Teaching Assistant** at School of Computing & Data Science, HKU Spring 2023 and 2024  
*Algorithm design and analysis (COMP 3252)*
- **Student Teaching Assistant** at School of Computing & Data Science, HKU Spring 2022  
*Introduction to Python (COMP 1117)*

## SERVICES

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- **Student Organizer** of Greater Bay Area Workshop on Optimization Under Uncertainty  
<https://sites.google.com/view/2024gbaworkshop/home>
- **Review** of SODA 2023, STOC 2025, ESA 2025, STACS 2025, SOFSEM 2025, ICALP 2026