

XINGCHEN SHA

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EDUCATION

B.A. in Computer Science Graduating May 2025 (expected)
Columbia University, New York, United States GPA: 4.06

B.S. in Computer Science Graduating May 2025 (expected)
City University of Hong Kong, Kowloon Tong, Hong Kong GPA: 4.01

EXPERIENCE

Columbia University: Research Assistant October 2023 – Present

- Collaborator in the NSF CSIRO-funded project [Fair Sequential Collective Decision Making](#)
- Researched group-fairness in multi-period facility location problems
- Advisor: [Haris Aziz](#), [Hau Chan](#), [Toby Walsh](#), [Lirong Xia](#)

City University of Hong Kong: Research Assistant June 2022 – April 2023

- Researched facility location games with capacity constraints
- Researched multi-stage facility location games in dynamic settings
- Researched truthful mechanism design with optional preferences
- Advisor: [Hau Chan](#), [Vincent Chau](#), [Ken Fong](#), [Minming Li](#), [Pinyan Lu](#), [Jialin Zhang](#)

ACTIVITY

Columbia University: Presenter & Teaching Assistant September 2024 – Present
Decentralized Finance and Game Theory Seminar

City University of Hong Kong: Spotlight Presenter June 2023
STEM Carnival cum Student Project Exhibition 2023

City University of Hong Kong: Organizer May 2023 – September 2023
Hong Kong Secondary School Coding Challenge 2023 (HKSC2023)

City University of Hong Kong: Presenter September 2022 – September 2023
CityU Theory Seminar

City University of Hong Kong: Organizer May 2022 – September 2022
Hong Kong Secondary School Coding Challenge 2022 (HKSC2022)

SERVICES

City University of Hong Kong: College of Engineering Student Chapter Panel November 2022 - Present

City University of Hong Kong: Freshman Mentor September 2022 - December 2022

SELECTED HONORS & AWARDS

Upsilon Pi Epsilon September 2024

Dean's List at Columbia University September 2023 – May 2024

VTech Group of Companies Scholarship June 2023

Dean's List at City University of Hong Kong September 2020 – May 2023

The College of Engineering Dean's Scholarship April 2023

HKSAR Government Scholarship February 2023

CityU Scholarship February 2022

UNDER REVIEW (* ALPHABETICAL ORDER)

Strategyproof Mechanism for Two Heterogeneous Facilities with Constant Approximation Ratio *

Minming Li, Pinyan Lu, **Xingchen Sha**, Yuhao Yao, Jialin Zhang, Submitted to Games and Economic Behavior

Group Fairness in Multi-period Mobile Facility Location Problems *

Haris Aziz, Hau Chan, **Xingchen Sha**, Toby Walsh, Lirong Xia, Submitted to IJCAI 2025

Mechanism Design for Facility Location Problems with Capacity Constraints in Bounded Location Space

Xingchen Sha, Hau Chan, Vincent Chau, Ken Fong, Minming Li, Wai Lun Lo, Submitted to UAI 2025

PUBLICATIONS (* ALPHABETICAL ORDER)

Facility Location Games with Optional Preferences: A Revisit

Xingchen Sha, Shuyu Bao, Hau Chan, Vincent Chau, Ken Fong, Minming Li, AAAI 2025

Randomized Strategyproof Mechanisms for Multi-stage Facility Location Problem with Capacity Constraints

Ken Fong, **Xingchen Sha**, Hau Chan, Vincent Chau, Wai Lun Lo, IJTCS-FAW 2024

Group Fairness in Multi-period Mobile Facility Location Problems *

Haris Aziz, Hau Chan, **Xingchen Sha**, Toby Walsh, Lirong Xia, AAMAS 2025 (Extended Abstract), ADT 2024 (Abstract)

SKILLS

Programming Languages:

C/C++, Python, Java, SQL, Bash, HTML

Professional Applications:

Latex, Matlab, PyTorch, TensorFlow, Git