

WANG RUIJIE

✉ WANGaRuijie.github.io  [Wang Ruijie](#)  [WANGaRuijie](#)  ruijie.wang@connect.polyu.hk

EDUCATION

The Hong Kong Polytechnic University Major in Computer Science, Minor in Applied Mathematics, GPA 3.65	<i>August 2022 - Present</i> <i>Kowloon, Hong Kong SAR</i>
Technical University of Denmark Summer Exchange	<i>June 2023 - August 2023</i> <i>Copenhagen, Denmark</i>
Yali High School Rank top 0.5% in the National College Entrance Examination	<i>September 2019 - June 2022</i> <i>Changsha, China</i>

RESEARCH INTERESTS

Theoretical computer science and programming languages, especially for the fair division problem in algorithmic game theory, computer-aided verification of economic mechanisms, and program synthesis and verification.

SKILLS

Programming Languages	Python, Java, C, C++, R, SQL, Shell Programming, \LaTeX
Software and Tools	Unix/Linux, Git, HTML, Relational Databases, Beamer, TikZ

HONORS

Dean's Honours List 2023/2024 Issued by the Faculty of Engineering, The Hong Kong Polytechnic University	<i>September 2024</i>
HKSAR Government Scholarship Fund - Reaching Out Award 2022/23 Issued by the Education Bureau, Hong Kong Special Administrative Region	<i>August 2023</i>

EXPERIENCES AND PROJECTS

Research Assistant - Algorithmic Game Theory *April 2023 - Present*
Fortunately advised by [Dr. Li Bo](#)

- Organized and examined an influential body of literature in recent years on the fair allocation problem.
- Investigated the existence of different fairness and efficiency notions including envy-freeness, Pareto efficiency, maximum Nash welfare, proportionality, maxmin share and their relaxed versions or approximation in various contexts of indivisible and divisible good/chore allocation including multi-agent, multi-round, budget-constrained, and randomized allocation.

Conference Student Assistant - IJTCS-FAW 2024 *July 2024*

- Assisted the organization of the International Joint Conference on Theoretical Computer Science - Frontier of Algorithmic Wisdom (IJTCS-FAW 2024) hosted by PolyU.

Technology Beyond Borders: Service-Learning in Da Nang, Vietnam *January 2024*

- Participated in the service-learning program co-hosted by PolyU and the Da Nang Architecture University in the Lý Công Un Primary School to promote STEM education and cultural exchange.

PolyU Computer Science Course Projects *December 2022 - Present*
A series of programming projects of PolyU COMP subjects  [Repository Link](#)