WANG RUIJIE

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EDUCATION

The Hong Kong Polytechnic University *August 2022 - Present*
Major in Computer Science, Minor in Applied Mathematics *Kowloon, Hong Kong*

Technical University of Denmark *June 2023 - August 2023*
Summer Exchange Program *Copenhagen, Denmark*

Yali High School *September 2019 - June 2022*
High School Diploma, Gaokao System *Changsha, China*

AWARDS AND HONORS

HKSAR Government Scholarship Fund - Reaching Out Award 2022/23 *August 2023*
Issued by the Education Bureau, Hong Kong Special Administrative Region

INTERESTS AND SKILLS

Research Interests	Algorithmic Game Theory, Multi-agent Systems, Computational Social Choice
Programming Languages	Python, Java, C, C++, R, SQL, Bash, LaTeX
Software and Tools	Linux, Git, Microsoft Office, HTML, Oracle Database, MySQL, Beamer

EXPERIENCES AND PROJECTS

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

- Participated in a 10-day service-learning program in Lý Công Uẩn Primary School, which was hosted by PolyU and the Da Nang Architecture University.
- Aimed at improving students' understanding on both frontier information technology and traditional cultural heritages, we combined the two topics and developed and taught a series of child-oriented courses on AI concepts, Scratch programming and culture understanding as an effective supplementation to the primary school's basic inter-culture and STEM education.

Image Low-Light Super-Resolution Enhancement with GANs July 2023
DTU 34269 Computational Imaging and Spectroscopy Project *GitHub Link*

- Completed a program with PyTorch to enhance poorly lit images into well lit images with high resolution using a GAN architecture composed of a generator and a discriminator.
- Discovered a reliable processing method for paired low-lit and well-lit image datasets.
- Developed concrete loss functions that essentially optimize the network to produce as high of an image relighting as possible.

A Command-Line-Based Task Management System December 2023
PolyU COMP2021 Object-Oriented Programming Project *GitHub Link*

- Develop a concrete command-line-based program with a user-friendly interface for dealing with the problem of complicated pre-requisite relations and task duration calculation for user-defined tasks using the Java programming language.