

RUILIANG GONG

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EDUCATION

THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY

PhD Student in Computer Science and Engineering

Sept 2026 – Present

Hong Kong SAR

- Supervisor: Prof. Long Chen.

THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY

BEng in Computer Science; Minor in Mathematics

Sept 2022 – Jun 2026

Hong Kong SAR

- First Class Honours; Academic Achievement Medal.

ETH ZÜRICH

Exchange Student in Computer Science

Feb 2025 – May 2025

Zürich, Switzerland

PUBLICATION

RIDGE: RE-NOISING WITH INTERNAL DYNAMIC GUIDANCE FOR IMAGE EDITING

Aug 2026

Ruiliang Gong, Zhen Wang, Yanghao Wang, and Long Chen

Preprint, arXiv:2608.03059.

- An inversion-free, training-free image editing method that combines re-noising with internal dynamic guidance to balance source preservation and target alignment.

PROJECT EXPERIENCE

SMARTSEARCH: MULTIMODAL SEARCH ENGINES IN THE MEDICAL FIELD

Jun 2025 – Jun 2026

Final-year team project; supervised by Prof. Hao Chen

HKUST, Hong Kong SAR

- Developed a multimodal search engine for retrieving medical images and text.

INDEX INNOVATION CHALLENGE: AI SOLUTIONS FOR FINANCIAL PROBLEMS

Aug 2024 – Oct 2024

First place in the student track; team project

Hong Kong SAR

- Developed an LLM-powered system for financial data processing and index development.
- Presented the project at Hong Kong FinTech Week 2024.

PROFESSIONAL EXPERIENCE

HKUST COMP2711: DISCRETE MATHEMATICAL TOOLS FOR COMPUTER SCIENCE

Sept 2024 – Dec 2024

Undergraduate Teaching Assistant

HKUST, Hong Kong SAR

- Provided guidance on course concepts and assignments to support students' understanding of discrete mathematics.

EY HONG KONG

Jun 2024 – Aug 2024

Data Analysis Consultant Intern

Quarry Bay, Hong Kong SAR

- Developed frontend components and backend APIs for a data trading platform, supporting role-based access control, approval workflows, and file transfers.
- Contributed to authentication, access logging, and database optimisation.

HONOURS & AWARDS

ACADEMIC ACHIEVEMENT MEDAL

Jun 2026

- HKUST's highest undergraduate academic honour.

UNIVERSITY'S SCHOLARSHIP SCHEME FOR CONTINUING UNDERGRADUATE STUDENTS

2024, 2025, 2026

- Awarded three times for academic performance within the top 2% of continuing undergraduates university-wide.

DEAN'S LIST FOR THE SCHOOL OF ENGINEERING

- Awarded by the HKUST School of Engineering.

SKILLS

Research Interests Generative modelling, computer vision, machine learning.

Programming Python (PyTorch, NumPy), C++, Java, SQL.

Languages Mandarin (native), English (fluent; IELTS Academic 8.0), Cantonese (fluent), German (A2 level).