Daniel Shiu-hong KAO

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 $+852\ 6601-1137$ 

EDUCATION

The Hong Kong University of Science and Technology

Bsc in Data Science and Technology / Bsc in Computer Science

GPA: 3.764, Major GPA: 3.893

Northwestern University

Exchange Student in McCormick School of Engineering

GPA: 4.000

The Hong Kong University of Science and Technology

MPhil in Computer Science and Engineering

Supervisor: Professor Chi-Keung Tang

Hong Kong S.A.R., China

Mar 2022 - Jun 2022

Aug 2019 - Jun 2023

Illinois, USA

Hong Kong S.A.R., China

Sep 2023 - May 2025

Publications 1 4 1

Deceptive-NeRF: Enhancing NeRF Reconstruction using Pseudo-Observations from

• Diffusion Models

Xinhang Liu, Shiu-hong Kao, Jiaben Chen, Yu-Wing Tai, Chi-Keung Tang In submission. Preprint released.

Divide and Distill: Achieving Higher Accuracy, Speed and Data-Efficiency for Knowl-

• edge Distillation

Shiu-hong Kao, Jierun Chen, S.-H. Gary Chan In submission. Preprint coming soon.

Run, Don't Walk: Chasing Higher FLOPS for Faster Neural Networks

Jierun Chen, Shiu-hong Kao, Hao He, Weipeng Zhuo, Song Wen, Chul-Ho Lee, S.-H. Gary Chan IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2023

Integer Partition: Further Discussion of the Number of the Integer-side Triangles

Shiu-hong Kao, Pohsing Chou, Gerard Jennhwa Chang Silver medal, Yau's Award.

Projects

Dynamic Neural Network Comparison: Efficiency and Performance

Sep 2021 - Jan 2022

Undergraduate Research Opportunities Program (UROP), HKUST Deep Learning, Computer Vision, Dynamic Neural Network

Press Release Classification on Mobile Application

Feb 2021 - Jun 2021

Undergraduate Research Opportunities Program (UROP), HKUST Android Development, Machine Learning, Natural Language Processing

AlignKD: A Low-cost Technique for Convolutional Shortcut Removal

Sep 2022 - Dec 2022

Course Title: COMP4471 Deep Learning for Computer Vision

Deep Learning, Convolutional Neural Networks

TEACHING EXPERIENCE

Undergraduate Teaching Assistant

Fall 2022, Spring 2023

Department of Computer Science and Engineering, HKUST

Course: COMP2611 Computer Organization, HKUST

- Assisting with the lab sessions, holding office hours by appointment, providing solutions for in-class exercises.

### WORK EXPERIENCE

## Software Engineer (Summer Intern)

Jun 2021 - Aug 2021

Hong Kong Applied Science and Technology Research Institute

- Designing and developing algorithms to solve problems; researching the latest technologies; tasks including image processing, OCR, data parsing, deep learning, etc.

## Software Developer (Part-time)

Mar 2020 - Jun 2020

Jing Ping Educational Creation Ltd.

- Implementing a financial system using Python and VBA.

#### AWARDS

#### Chern Class Scholarship

Academic Year 2020-21

The Hong Kong University of Science and Technology

- Scholarship for students with excellent performance in mathematics.

University Scholarship for Continuing Undergraduate Students Academic Year 2021-22, 2022-23
The Hong Kong University of Science and Technology

- Academic scholarship for the students at HKUST whose CGA is in the top 10th percentile of all continuing undergraduate students.

# Silver Medal, Shing-Tung Yau High School Mathematics Award

Jul 2018

National Taiwan University

- National science fair for mathematical research in Taiwan.

Dean's List Fall 2019, Fall 2020, Spring 2021, Fall 2022

The Hong Kong University of Science and Technology

- Academic award for a high GPA at HKUST.

High Honors Spring 2022

Northwestern University

- Academic award for a full GPA at NU.

### Extra-curricular Activities

EXTRA-CORRIGOLAR ACTIVITIES	
Head Student Ambassador Undergraduate Recruitment and Admissions Office, HKUST	Nov 2022 - Current
• Peer Mentor School of Science, HKUST	Aug 2021 - Jun 2022
• Sub-Committee Member  Mainland Student and Scholars Society, UG session, HKUST	Sep 2019 - May 2020
• Deputy Head Student Ambassador Undergraduate Recruitment and Admissions Office, HKUST	Nov 2021 - Nov 2022
• Student Ambassador Undergraduate Recruitment and Admissions Office, HKUST	Nov 2019 - Current
• Taiwanese Student Association (TSA, HKUST)  Member in TSA, HKUST	Sep 2019 - May 2023
• Taiwanese American Student Association (TASA, NU)  Member in TASA, Northwestern University	Mar 2022 - Jun 2022

# SKILLS

- Programming: Python, C/C++, Java, VBA, Matlab, R, HTML/CSS, Assembly
- Tools: PyTorch, PySpark, Hadoop, Pandas, Matplotlib, OpenCV, BeautifulSoup, LaTex, Git, Unix/Linux
- Languages: English (Proficient), Mandarin (Native), Cantonese (Intermediate), Taiwanese (Native)