(Daniel) Shiu-hong KAO

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EDUCATION

- **The Hong Kong University of Science and Technology** — Hong Kong S.A.R., China
  Bsc in Data Science and Technology / Bsc in Computer Science — *Aug 2019 - May 2023*
  GPA: **3.755**, *Major GPA:* **3.878**

- **Northwestern University** — Illinois, USA
  Exchange Student in McCormick School of Engineering — *Mar 2022 - Jun 2022*
  GPA: **4.000**

ACADEMIC PROJECTS

- **Dynamic Neural Network Comparison: Efficiency and Performance** — Sep 2021 - Jan 2022
  Supervisor: Gary Sheung-han Chan, HKUST
  Undergraduate Research Opportunity Program (UROP), HKUST
  [*DeepLearning, ComputerVision, DynamicNeuralNetwork*] *Testing, analyzing, and comparing the performance and efficiency across different deep learning models.*

- **Practical ML-based Mobile Application** — Feb 2021 - Jun 2021
  Supervisor: Dimitris Chatzopoulos, HKUST (now in UCD, Ireland)
  Undergraduate Research Opportunity Program (UROP), HKUST
  [*AndroidDevelopment, MachineLearning*] *Developing an Android app for text classification.*

ACADEMIC RESEARCH

- **Divide and Distill (DnD): An Efficient Knowledge Distillation Framework** — Not released
  First Author, will be submitted to AAAI workshop 2023
  [*DeepLearning, KnowledgeDistillation*] *Proposing a fast knowledge distillation framework, which provides a state-of-the-art model compression technique.*

- **Integer Partition: Further Discussion of the Number of the Integer-side Triangles**
  First Author, Silver medal at **Yau's Award 2018**
  [*Combinatorics, DiscreteMath*] *Analyzing a closed-form solution for a combinatorics problem. Chinese version published by National Taiwanese University.*

- **Partial Convolution: A Faster and Better Convolution Network** — Not released
  Second Author, will be submitted to CVPR 2023
  [*DeepLearning, ArtificialIntelligence*] *Proposing a faster and effective separable convolutional layer to improve the performance of existing approaches such as Depthwise Convolution and Group Convolution.*

INTERNSHIP

- **Undergraduate Teaching Assistant** — Aug 2022 - Dec 2022
  Department of Computer Science and Engineering, HKUST
  Course: Computer Organization. Responsibility: Holding weekly office hours and assisting in students' coursework.

- **Software Engineer** — 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** — Mar 2020 - Jun 2020
  Jing Ping Educational Creation Ltd.
  Implementing a financial system for the company's use. VBA and Python are involved.

Awards

- **Chern Class Scholarship** — Academic Year 2020-21
  The Hong Kong University of Science and Technology
  A special scholarship for students with excellent performance in mathematics.

- **University Scholarship for Continuing Undergraduate Student** — Academic Year 2021-22, 2022-23
  The Hong Kong University of Science and Technology
  An academic scholarship for a high GPA during the academic year.

- **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
  The Hong Kong University of Science and Technology
  An academic award for a high GPA at HKUST.

- **High Honors** — Spring 2022
  Northwestern University
  An academic award for a full GPA at NU.

Extra-curricular Activities

- **Deputy Head Student Ambassador** — Sep 2021 - Current
  Undergraduate Recruitment and Admissions Office, HKUST
  Sharing the university life and experience with prospective students; Assisting in admission affairs.

- **Peer Mentor** — Aug 2021 - Jun 2022
  School of Science, HKUST
  Assisting freshmen to adapt the university environment; Holding welcome events.

- **Sub-Committee Member** — Sep 2019 - May 2020
  Mainland Student and Scholars Society, UG session, HKUST
  Assisting executive group with general affairs.

- **Student Ambassador** — Nov 2019 - Current
  Undergraduate Recruitment and Admissions Office, HKUST

- **Taiwanese Student Association (TSA, HKUST)** — Sep 2019 - May 2023
  Member in TSA, HKUST

- **Taiwanese American Student Association (TASA, NU)** — Mar 2022 - Jun 2022
  Member in TASA, Northwestern University