YIP Sau Lai *(Sherry)*

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EDUCATION

Hong Kong University of Science and Technology (HKUST)   2021/09-2025/06, Hong Kong

- BSc in Data Science and Technology (1st major)
- BSc in Computer Science (additional major)
- Current CGPA: 3.931/4.3

ACADEMIC RESULTS

- University's Scholarship Scheme for Continuing Undergraduate Students, 2022/23, 2023/24, and 2024/25
- Leung Pui Han Scholarship, 2023/24
- Li Po Chun Charitable Trust Fund Scholarship, 2022/23
- Included on the Dean's List for 21/22 Spring, 22/23 Fall, 22/23 Spring, 23/24 Fall, 23/24 Spring and 24/25 Fall

EXPERIENCE

Hong Kong University of Science and Technology   Hong Kong

Final Year Project (FYP): *Large-Scale Vision-Language Models in Medicine*   2024/06 - now

- Designing a pipeline to parse medical books and construct visual question-answering benchmark
- Developing a classifier to classify medical figures based on modality and anatomy

Hong Kong University of Science and Technology   Hong Kong

UROP (Undergraduate Research Opportunity Program) Project: *Debugger for VQL Queries*   2024/06 - now

- Project title: "Knowledge Discovery over Database"
- Developing a debugger for model-generated VQL (Visualization Query Language) queries leveraging LLMs (Large Language Models) and RAG (Retrieval-Augmented Generation) technique

Library, Hong Kong University of Science and Technology   Hong Kong

Student Intern (Digital Scholarship), part-time: *Topic Modelling*   2024/09 – 2024/12

- Developed a topic modelling web tool
- Presentation proposal accepted to Global Digital Humanities Symposium 2025 held by Michigan State University

Library, Hong Kong University of Science and Technology   Hong Kong

Student Intern (Digital Scholarship), part-time: *Name Entity Recognition*   2024/02-2024/05

- Developed a Chinese name entity recognition tool for non-technical users
- Project Webpage & Source Code[2]
- Presented on the 15th Conference on Cooperative Development and Sharing of Chinese Resources (CCDSCR) held by Hong Kong Public Libraries (HKPL)
- Paper accepted to and presented on the 15th International Conference of Digital Archives and Digital Humanities (DADH) heled by Taiwanese Association for Digital Humanities

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1. GitHub profile: https://github.com/slyipae1
2. https://library.hkust.edu.hk/ds/project/p001/; https://github.com/hkust-lib-ds/P001-PUBLIC_Chinese-NER-Tool

Hong Kong University of Science and Technology   Hong Kong

Course Project: *Software Computer Game*   2023/09- 2023/12

- Group project in a course titled "Software Engineering"
- Developed a software computer game using JavaScript and JavaFX
- Project GitHub & Demo video[2]

Library, Hong Kong University of Science and Technology   Hong Kong

Student Intern, part-time: *Digital Humanities*   2023/09-2024/01

- Assisted a humanities professor in exploring the linguistic characteristics of an early Chinese novel using methods such as name entity recognition, part of speech, and large language model.
- Developed a web page to showcase the findings of our study.
- Project webpage[3]

CAMEL TECHNOLOGY COMPANY   Hong Kong

STEAM EdTech R&D Intern (Technology), full-time: *STEAM Course Design*   2022/12-2023/01

- Designed STEAM courses for students, including content design and teaching materials preparation

Library, Hong Kong University of Science and Technology   Hong Kong

Student helper for Common & Media Resources, part-time   2022/08-2023/05

Shaw Auditorium, Hong Kong University of Science and Technology   Hong Kong

Student helper for movie night events, part-time   2022/08-2023/05

OTHER SKILLS

Programming skills: Python, JavaScript, C++, MIPS, R, SQL, MQL, PyTorch, Streamlit

Computer skills: Microsoft Word, Excel, PowerPoint, Figma, Canva

Languages: English (Fluent), Mandarin (Native), Cantonese (Native)

EXTRACURRICULAR ACTIVITIES

- Mentor, MAGNET Peer Mentoring Program under the HKUST School of Science, 2023/24
- HKUST Summer Mainland Program: Harbin Institute of Technology – International Summer School (China) (Partnership), 2023/06-2023/07
  Theme: New Medical Science and Technology Lead the Future
- Trainee of the "Technical Theatre Arts Program", HKUST Shaw Auditorium, 2022/07
- Subcommittee member of Mainland Students and Scholars Society, UG, HKUST, 2021/09-2021/12
- Community services held by HKUST Connect, 2021-2023:
  - Voluntary program assistant of the "HKUST Tour for Diversity"
  - Participant of the "Simulate an Older You Challenge"
  - Volunteer chemistry tutor in service "Summer Science Tutorial"
  - Participants in service "Reach Out to Scavengers"
  - Participant in "Changemaking Starts with Jumping out of Your Comfort Zone"

2.https://github.com/charlieop/Comp3111F23G05; https://youtu.be/HmDHyjejGeU?si=uNUAAQ6rY2l7c-dA
3.https://digitalhumanities.hkust.edu.hk/news/new-digital-humanities-project-early-chinese-vernacular-novels-sanbao-zhenghe-voyages/;
 https://digitalhumanities.hkust.edu.hk/sanbao-zhenghe-voyages/