YIP Sau Lai *(Sherry)*

slyipae@connect.ust.hk; slyip2002@gmail.com; +852 54957725

EDUCATION

Hong Kong University of Science and Technology (HKUST)   2021/09-2025/07, 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

Library, Hong Kong University of Science and Technology   Hong Kong

Student Intern (Digital Scholarship), part-time: *AR for Ancient Maps*   2025/02 – now

- We are animating several ancient maps into 2D/3D illustrations and applying AR technology to develop an interactive platform for them.

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.
- Constructing a visual question-answering benchmark.

Hong Kong University of Science and Technology   Hong Kong

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

- UROP project title: "Knowledge Discovery over Database".
- Developing a debugger for model-generated VQL (Visualization Query Language) queries leveraging Code-LLMs (Large Language Models) and common optimization strategies for LLMs.

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 for non-technical users.
- Presentation proposal accepted to Global Digital Humanities Symposium 2025 held by Michigan State University.
- Project Webpage & Source Code[2].

Library, Hong Kong University of Science and Technology   Hong Kong

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

1. Personal webpage: https://slyipae1.github.io/
2. https://library.hkust.edu.hk/ds/project/p003/; https://github.com/hkust-lib-ds/P003-PUBLIC_English-and-Chinese-Topic-Modeling-Tool

- Developed a Chinese named entity recognition web tool for non-technical users.
- Project Webpage & Source Code[3].
- 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.

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[4]

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, Java, 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"

3. https://library.hkust.edu.hk/ds/project/p001/; https://github.com/hkust-lib-ds/P001-PUBLIC_Chinese-NER-Tool
4. 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/