

# YIP Sau Lai (Sherry)

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## EDUCATION

Hong Kong University of Science and Technology (HKUST)

2021/09-2025/07, Hong Kong

- BSc in Data Science and Technology (1<sup>st</sup> 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.

Library, Hong Kong University of Science and Technology

Hong Kong

**Student Intern (Digital Scholarship), part-time: Named Entity Recognition**

2024/02-2024/05

- Developed a Chinese named entity recognition web tool for non-technical users.

1. Personal webpage: <https://slyipae1.github.io/>

2. <https://library.hkust.edu.hk/ds/project/p001/>; [https://github.com/hkust-lib-ds/P001-PUBLIC\\_Chinese-NER-Tool](https://github.com/hkust-lib-ds/P001-PUBLIC_Chinese-NER-Tool)

- Project Webpage & Source Code<sup>2</sup>.
- Presented on the 15<sup>th</sup> Conference on Cooperative Development and Sharing of Chinese Resources (CCDSCR) held by Hong Kong Public Libraries (HKPL).
- Paper accepted to and presented on the 15<sup>th</sup> International Conference of Digital Archives and Digital Humanities (DADH) held 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<sup>3</sup>

**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://digitalhumanities.hkust.edu.hk/news/new-digital-humanities-project-early-chinese-vernacular-novels-sanbao-zhenghe-voyages/>;  
<https://digitalhumanities.hkust.edu.hk/sanbao-zhenghe-voyages/>