

MUZI LIU

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Wu Yee Sun College, The Chinese University of Hong Kong, Shatin N.T., Hong Kong

EDUCATION

The Chinese University of Hong Kong

HONG KONG, CHINA

Bachelor's Degree Computer Science major (Artificial Intelligence stream)

2015 – 2020 (Expected)

- GPA (Major): 3.70 / 4.0 • Cumulative GPA: 3.53 / 4.0
- Dean's List (Year GPA 3.50 or above, top 10% in the faculty) • Relevant courses: Linear Algebra and Vector Calculus for Engineers (A-), Discrete Mathematics for Engineers (A), Introduction to Operating Systems (elite class) (A-), Fundamentals of Artificial Intelligence (A), Introduction to Social Networks (A)

Claremont McKenna College

CALIFORNIA, UNITED STATES

Visiting Exchange Student

2017 – 2018

- Relevant courses: Introduction to Psychology (A-), Neuropsychology (A-)

RESEARCH EXPERIENCE

Shadow Removal for Robust Face Recognition (Final Year Project)

CUHK, HONG KONG

Researcher, Supervised by [Professor Chi-Wing Fu, Philip](#)

Jun 2019 – Dec 2020

- Developing a new method of generating high-quality photo-realistic face images with shadows eliminated
- Utilizing the StarGAN framework (a generative adversarial network for facial image translation) to suppress shadows
- Implementing a fusion framework of holistic normalization and reflectance model

Reinforcement Learning for Convention Emergence in Lexicon Coordination Game

CUHK, HONG KONG

Research Assistant to [Professor Leung Ho Fung](#)

Jan 2018 – July 2019

- Proposed an effective and efficient reinforcement learning approach for convention emergence in lexicon coordination game
- Analyzed the simulation results and found relations between local conventions in the network and the hindering of the emergence of a global convention
- Independently wrote a paper for the whole work, which is on submission

Norm Emergence in Merging Networks (Undergraduate Summer Research)

CUHK, HONG KONG

Researcher, Supervised by [Professor Leung Ho Fung](#)

Jun 2017 – Sep 2017

- Combined the algorithms of merging networks and the tools of convention emergence, in order to explore how the agents behave when two networks with local communities are merging into a whole one
- Reproduced the algorithms of merging networks, as well as the establishment of local conventions in scale-free networks
- Worked with a team of 5 to implement and analyze the combined mechanism
- Completed a research report and a poster presentation of the works in summer 2017 at the Chinese University of Hong Kong

HONORS & AWARDS

Scholarships for Semester Exchange Programme 2016/17

Wu Yee Sun College, CUHK

Yasumoto International Exchange Scholarship

Office of Academic Links (OAL), CUHK

Admission Scholarships for New Students

The Faculty of Engineering, CUHK

EXTRA-CURRICULAR EXPERIENCE

Exercise Is Medicine (EIM): fitness tracking Web App for chronic patients

CUHK, HONG KONG

Back-end developer

May 2019 – Present

- Self-learned tools used in the project, such as docker, TypeORM, and Azure storage service
- Developed a part of the back-end APIs using TypeORM and MSSQL database
- Designed the incentive and achievement system to encourage chronic patients to exercise regularly

CU Transform: Wechat mini program for flea market on campus

CUHK, HONG KONG

Front-end developer

Oct 2018 – Present

- Designed the UI icons of the mini program
- Adjusted the pages for user-friendliness

Volunteer Trip to Long Sheng, Guangxi

Volunteer teacher

GUANGXI, CHINA

Aug 2016 – Sep 2016

- Prepared and taught math courses in a primary school located in Long Sheng for two weeks.
- Conducted field research for local tourism development for local government.

SKILLS

Technical skills: Various programming languages (C, Java, Python, JavaScript, Ruby, Prolog, ML, Perl, COBOL, Fortran), basic skills of machine learning and deep learning (scikit-Learn, PyTorch, TensorFlow), web technologies (NodeJS, HTML+CSS, XML, jQuery), database operation (Mysql, Mssql), MS Office and \LaTeX

Languages: Mandarin Chinese (native), English (TOEFL 106/120) and Japanese (elementary)