MUZI LIU

Department of Computer Science and Engineering
Wu Yee Sun College, The Chinese University of Hong Kong, Shatin N.T. Hong Kong, China
+852.66158240 | liumuzi@link.cuhk.edu.hk | https://liumuzi.github.io

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 / 4.00; Cumulative GPA: 3.53 / 4.00 (WES evaluated 3.7)
- Notable Award: 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 Apr 2019 - Dec 2020

- Generated fake shadows in real human frontal face dataset as training data.
- Utilized the Dilated Residual Network (DRN) framework to suppress shadows as baseline performance.
- Developing a new method of generating high-quality photo-realistic face images with shadows eliminated.

Reinforcement Learning for Convention Emergence in Lexicon Coordination Game CUHK, Hong Kong
Research Assistant to Professor Leung Ho-fung Jan 2018 – July 2019

- Proposed a reinforcement learning approach for convention emergence in a 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 in submission at ICAISC 2020.

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 the agents' behaviors when two networks with local communities are merging into a whole one.
- Reproduced the algorithm of network integration and the local convention establishment in scale-free networks.
- Participated in regular meetings with a team of 5 to report and analyze project progress.
- Completed a research report and a poster presentation of the work in summer 2017 at the Chinese University of Hong Kong.

AWARDS AND HONORS

- 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

Fun to Move: a mobile App that enhances primary students' physical activity level CUHK, Hong Kong
Back-end developer Aug 2019 – Sep 2019

- Designed and tuned a Recurrent Neural Network (RNN) with Long Short-Term Memory (LSTM) architecture to predict the wearing position of the sports bracelet.

Exercise Is Medicine (EIM): fitness tracking Web App for chronic patients CUHK, Hong Kong
Back-end developer May 2019 – Aug 2019

- Self-learnt 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.

Summer Volunteer Teacher in Rural Primary School Guangxi, China
Volunteer teacher 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:
Programming languages: C, Java, Python, JavaScript, Ruby, Prolog, ML, Perl, COBOL, Fortran
Machine learning and deep learning: scikit-Learn, TensorFlow
Web technologies and database: NodeJS, HTML+CSS, XML, jQuery, MySQL, MsSQL.

Languages: Mandarin Chinese (native), English (TOEFL 102/120: reading 28, listening 27, speaking 23, writing 24) and Japanese (elementary proficiency).