Chui Yi (Iris) Liu

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Los Angeles, CA

EDUCATION

University of Southern California — Los Angeles, CA
M.S. in Computer Science — Jan 2020 - Dec 2021 (expected)
- How can machines automatically recognize the environment, learn from its own trial and error and collaborate with human? I research on machine learning and robotics, with a focus on reinforcement learning and computer vision.
- CGPA: 3.94/4.00. Received USC CS Honors Student Award (2021).

City University of Hong Kong — Hong Kong
B.S. in Computer Science — Aug 2013 - Jul 2017
- Research on deep neural networks advised by Prof. Sarana Nutanong, rumor detection on graph network advised by Prof. Chee Wei Tan.
- Class President, received Dean's List, CityU Discovery and Innovation Gala Award, CityU Best Student Paper Award (2017).

EXPERIENCE

Nvidia — Remote
Software Engineering Intern — Aug 2021 - present
- Optimize accelerated inference for 6-DoF GraspNet on embedded devices in real time.

Adobe — Remote
Research Intern — May 2021 - Aug 2021
- Explored deep exemplar-based color matching methods and developed an end-to-end solution for interactive image color-matching.

USC ICAROS Lab — Los Angeles, CA
Student Researcher — Jan 2021 - May 2021
- Developed an object detection pipeline for learning human preferences in a human-robot plane assembly task using April Tag and OpenCV.

USC RESL Lab — Los Angeles, CA
Student Researcher — Jun 2020 - Jan 2021
- Maintainer of Garage: An open-source reinforcement learning toolkit. Improved, implemented and benchmarked state-of-the-art off-policy algorithms.

City University of Hong Kong — Hong Kong
Research Assistant — May 2019 - Dec 2019
- Implemented a fault-tolerant CNN that learns and embeds the color-encoding scheme of images.

Imsight Medical Technology Inc. — Hong Kong
Software Engineer — Aug 2017 - Apr 2019
- Built web-based viewing and annotation platform for high-dimensional medical images. Designed a pipeline for uploading and detecting 300GiB+ images on cloud. Implemented and integrated deep learning algorithms into core applications and optimized CPUs and GPUs utilization by 30%.

SCIENTIFIC LEADERSHIP

Head of Programs, Graduates Rising in Information and Data Science (GRIDS), USC	2020/21
Organizer, Code4Cebu, hour-of-code events for high schoolers in Cebu, Philippines	2018/19
Class President, Department of CS, City University of Hong Kong	2016/17

TEACHING

Grader for CS545 Robotics, Fall 2021

Course Producer for CS567 Machine Learning, Summer 2021

Course Producer for CS527 Applied Machine Learning for Games, Spring 2021

AWARDS
HONORS

Adobe Women-In-Technology Scholarship   2021

3rd Place Winner at Race On self-driving car competition, USC   2020

2nd Place Winner at Zoohackathon, U.S. Consulate General Hong Kong and Macau   2019

Finalist (Top 10 team), MICCAI Grand Challenge REFUGE   2018

2nd Runner Up, Microsoft Imagine Cup Regional Final, Hong Kong   2016

PUBLICATIONS

[1] Iris C. Liu, Andres Abeliuk, Kayla de la Haye, Abigail L Horn. Towards a continuous indicator of food environment nutritional quality. *KDD Workshop on Data-driven Humanitarian Mapping, 27th ACM SIGKDD Conference*, 2021.

[2] Liu, C. Y.. Short text classification with deep neural networks: An experimental analysis. *Outstanding Academic Papers by Students (OAPS), City University of Hong Kong*, 2017.

INTERESTS

Brazilian jiu jitsu, running, traveling