2017–2021

Pomona College, B.A. Computer Science (Asian Studies minor), Claremont, CA, GPA: 3.983

- Relevant Coursework: Machine Learning, Algorithms, Computer Systems, Applied Algorithms, Data Structures/Advanced Programming, Fund. of CS, Discrete Math, Linear Algebra, Intro to Stats
- Honors: Member of Phi Beta Kappa, Pomona Scholar Award (Fall '17, Spring/Fall '18, Spring/Fall '19)

EXPERIENCE

Sep 2020

Research Assistant, Brown HCI @ Brown University, Providence, RI (remote).

- to present
- Continue research on Brown HCI's WebGazer, currently working on a robust error testing suite for gaze predictions
- Work w/ Jing Qian on Portal-ble, a mobile AR environment. Integrate Google MediaPipe to replace Leap Motion Tracker

May 2020

Research Assistant, Pomona College Department of Computer Science, Claremont, CA (remote).

- to Aug 2020
- Conduct HCI/computer vision research on webcam gaze prediction under Prof Alexandra Papoutsaki, funded by NSF REU
- Contribute to Brown HCl's <u>WebGazer</u> and develop new JavaScript-based approach for webcam eye-tracking by incorporating TensorFlow.js <u>Facemesh</u> and current/new online and offline approaches to gaze prediction, aiming for CHI & UIST 2021

Sep 2018

Teaching Assistant, Pomona College Department of Computer Science, Claremont, CA.

- to Dec 2019
- TA for Data Structures/Advanced Programming (Spring/Fall 2019); for Intro CS (Fall 2018)
- Supervise weekly lab, grade projects, hold mentor sessions for 30+ students (approx. 5–6 hr./week)

Jul 2019

Summer Research Intern, National Taiwan University IoX Center, Taipei, Taiwan.

to Aug 2019

- Worked on 2 new VR haptic accessories (FrictShoes, GuideBand), submitted to CHI & UIST 2020
- Coded Arduino-based comparison prototype for vibrotactile arm guidance (Aggravi et al, 2016)
- Won 2nd place award in IoX Center Summer Research Program under Prof Ray Tsai & Prof Robin Chen

May 2019

Undergraduate Research Intern, Kogakuin University, Tokyo, Japan.

to Jul 2019

- Implemented live camera object detection with TensorFlow & Raspberry Pi that communicates with linked microcontrollers (GR-PEACH) via I2C protocol for a microcontroller-based path guidance robot
- Jul 2018
- Research Assistant, Stanford University Asia-Pacific Research Center, Stanford, CA.
- to Sep 2018
- Researched Taiwan's Central Election Commission and indigenous land rights under Dr. Kharis Templeman

PROJECTS

Sep 2020

Mildfire, hackathon project for PennApps XXI, Python/JS.

- Created web-app to detect wildfire high-risk zones based on satellite imagery, for PennApps XXI virtual hackathon @ UPenn
- Used Keras retinanet DL model to identify trees (Weinstein et al. 2019) from satellite maps collected from Google Maps API

to Mar 2020

Feb 2020 LINE Bot for Reddit Posts, personal project, Python.

- Created web-based app to get new Reddit text/image posts via LINE message by sending a message to a LINE bot
- Used LINE Messaging API, Python Reddit API Wrapper, webhook endpoint on Google Cloud Platform

Feb 2019

Image Seam-Carving Algorithm, CS143 Applied Algorithms, Java.

- Implemented seam-carving (Avidan & Shamir 2007) to more intelligently resize images
- Coded horizontal/vertical seam carving based on energy-mapping dynamic programming algorithm

ACTIVITIES

Sep 2019

Co-President, Taiwanese-American Student Association, Claremont Colleges, CA.

to Aug 2020

- Create & plan events (4–5 per semester); manage membership & budget; expand club outreach
- Jan 2018 Officer, 5C Freestylin' Collective, Claremont Colleges, CA.

to Aug 2020

- Co-founded club; inclusive space for street/hip-hop dancers on-campus & in LA/Inland Empire area
- Plan events (e.g. dance workshops), community outreach, sponsoring on/off-campus dance events etc.

TECHNICAL SKILLS

Languages

Proficient in Java, Python, C#, JavaScript. Familiar with C/C++.

Other Proficient in LaTeX, Bash, HTML, CSS, Git. Familiar with Linux, Raspberry Pi, Arduino.

LANGUAGES

Mandarin

Bilingual proficiency

Japanese

Professional fluency (JLPT N2)