EDUCATION

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

May 2020

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

to present

- Conduct HCI/computer vision research on webcam-based eye-tracking under Prof Alexandra Papoutsaki, funded by NSF REU
- Contribute to Brown HCI's <u>WebGazer</u> and develop new JavaScript-based approach for webcam eye-tracking by incorporating TensorFlow.js Facemesh 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

- Worked on 2 new VR haptic accessories (FrictShoes, GuideBand), submitted to CHI & UIST 2020
- Designed VR test scenario for FrictShoes with varying floor frictions in Unity/C#
- 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
- Participated in summer exchange, under Prof Koyo Katsura & in partnership with Renesas Electronics

Jul 2018 to Sep 2018 Research Assistant, Stanford University Asia-Pacific Research Center, Stanford, CA.

Researched Taiwan's Central Election Commission and indigenous land rights under Dr. Kharis Templeman

PROJECTS

Feb 2020

LINE Bot for Reddit Posts, personal project, Python.

to Mar 2020

- 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

Nov 2019

Course Review Sentiment Analysis, CS158 Machine Learning final group project, Java/Python.

to Dec 2019

Scraped course reviews from school website, then compared accuracy of positive/negative/neutral review predictions using
a naive Bayes model vs. NLTK-VADER sentiment analysis

Feb 2019

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

- Implemented seam-carving (Avidan & Shamir 2007) to more intelligently resize images
- $\bullet \quad \text{Coded horizontal/vertical seam carving based on energy-mapping dynamic programming algorithm}\\$

ACTIVITIES

Sep 2019

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

to present

• Create & plan events (4–5 per semester); manage membership & budget; expand club outreach

Jan 2018

Officer, 5C Freestylin' Collective, Claremont Colleges, CA.

to present

- 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)