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

Aug 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
- 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
- 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

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 site; examined basic sentiment analysis w/ a naive Bayes model vs. NLTK-VADER
- 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 Pr

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

LANGUAGES

Mandarin

Bilingual proficiency

Japanese

Professional fluency (JLPT N2)