

MARCOS ACOSTA | 340 E. Foothill Blvd. | Claremont, CA 91711 | 978.413.5078
mdacosta@g.hmc.edu | github.com/marcos-acosta

EDUCATION

B.S., Computer Science

Harvey Mudd College, Claremont, CA, Expected, May 2023, GPA: 3.951

Relevant Coursework

- CS 70 (Data Structures / Program Development)
- CS 42 (Principles and Practice of Computer Science)
- CS 189 (Programming Practicum)
 - Learned the React + MongoDB framework to build a frontend-backend site from scratch SP 2019
 - Studying the mathematics and applications of the leading machine learning algorithms FA 2020

Programming languages: Javascript, HTML, CSS, Python, Java, C++

Other relevant skills: React, AWS, TypeScript, Node.js, AJAX, Git, jQuery

Machine learning experience: Neural Networks, Natural Language Processing, Transfer Learning

LEADERSHIP EXPERIENCE

President, Harvey Mudd College Class of 2023

2019-2020, 2020-2021

- Manage a yearly \$600 budget for freshman class
- Organize events to promote community like study breaks, student-professor chats, and virtual challenges
- Communicate with Claremont College administration on issues affecting student wellbeing

Director of Projects at P-ai, the Claremont Colleges' AI incubator

2020-2021

- Responsible for overseeing the progress of four machine learning projects at P-ai to ensure project managers are staying on track and have the resources needed to succeed in their tasks
- Teach principles of machine learning in weekly hands-on workshops, and was invited as a guest speaker for the 2020 5C Virtual Hackathon

Project Lead - Music Generation at P-ai, the Claremont Colleges' AI incubator

2020-2021

- Leading a team of machine learning enthusiasts in designing and developing a machine learning algorithm to generate novel jazz piano from MIDI data using an NLP approach

PROJECTS

- **Participated** in the 2020 5C Hackathon 11/2020
 - Built a proof-of-concept website for students to find classmates willing to collaborate on homework together, as a way of compensating for a missing piece of virtual college life
- **Developed** Metaschedule (metaschedule.netlify.app), a web app designed to help students at the Claremont colleges plan their course schedule by generating possible permutations that match user criteria 2020
- **Developed** WA GPS, an online web app to guide freshmen at my high school to their classes 9/2018
 - Over 1k user sessions to date, included in Freshman Orientation

ORGANIZATIONS

Project member at P-ai, the Claremont Colleges' AI incubator

9/2019 - present

- Sentiment analysis team: Collaborated with a team to perform sentiment analysis using Natural Language Processing (NLP) and machine learning techniques on big data scraped from Twitter
- Facial recognition team: Contributed towards the development of new geometric techniques in facial recognition to be used in conjunction with Generative Adversarial Networks (GANs) as opposed to CNNs

RESEARCH

Summer Research Intern at Keck Graduate Institute, Using NLP to study misinformation on the internet

- Built an RNN classifier to distinguish tweets that are pro-vax / ambiguous / anti-vax with 80% accuracy
- Assisted other team members in programming / classification challenges

JOBS

Grader & Tutor (Grutor), Harvey Mudd College

12/2020 - present

- Grade, assist professors, and hold office hours for CS70: Data Structures / Program Development

Tutor, Varsity Tutors

7/2020 - present

- Tutor student virtually in 20+ subjects, including computer science, calculus, physics, and academic writing

HONORS / SCHOLARSHIPS

Scholarship Recipient , Los Angeles Philanthropic Foundation Annual Scholarship	2020
Scholarship Recipient , Sherman Chan '76 and Irma E. Velasquez Scholarship	2020
Award Finalist , Jean and Joe Platt Prize	2020
Scholarship Recipient , Hugh and Dorothy Pickel Endowed Scholarship	2019
Honor Recipient , Senior Class "Most Worthy Representative" Award	2019