

Jared Mejia

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EDUCATION

Carnegie Mellon University

M.S. in Machine Learning

GPA: 4.00 / 4.00

August 2022 - present

Pomona College

B.A. in Computer Science and Mathematics

GPA: 4.00 / 4.00, *Graduated with Highest Honors*

August 2018 - May 2022

EXPERIENCE

Research Assistant, CMU Robotics Institute

September 2022 - present

- Advised by Abhinav Gupta and Katerina Fragkiadaki
- Research focus: pre-training for robots, robotic manipulation, sim-to-real transfer, computer vision

Software Engineering Intern, Checkr, Inc

May 2022 - August 2022

- Worked on reconfiguring and enhancing the core NLP/ML pipeline of the company's product, leading to greater accuracy and efficiency in production.

NSF SUPERB Program Participant, UC Berkeley EECS

May - August 2021

- Conducted research in applications of statistical learning theory to data-driven methods in control theory
- Developed a library for data-driven reachability analysis of nonlinear systems.

Research Assistant, Pomona College

August 2020 - May 2022

- Advised by Anthony Clark
- Conducted research on domain transfer from simulation to real-world tasks with a focus on navigation.

Product Engineering Intern, Cadence Design Systems

May - August 2020

- Worked on automating the management of clusters for a cloud-based AI platform.

PUBLICATIONS, PREPRINTS, AND PROJECTS

Hearing Touch: Audio-Visual Pretraining for Contact-Rich Manipulation

Jared Mejia, Victoria Dean, Tess Hellebrekers, Abhinav Gupta

In Submission 2023

World Models for Multi-Task Robotic Pre-Training

Jard Mejia, Mohan Kumar

CMU 10707 Advanced Deep Learning Project 2023

Investigating Neural Network Architectures, Techniques, and Datasets for Autonomous Navigation in Simulation

Oliver Chang, Christese Marchese, **Jared Mejia**, Anthony Clark

IEEE Symposium Series on Computational Intelligence (SSCI) 2021

DaDRA: A Python Library for Data-Driven Reachability Analysis

Jared Mejia, Alex Devenport, Murat Arcak

arXiv preprint arxiv:2111.01312 2021

TEACHING

Graduate Teaching Assistant, Carnegie Mellon University
10-417/617 Intermediate Deep Learning Fall 2023
Undergraduate Teaching Assistant, Pomona College
CSCI158 Machine Learning Spring 2022
CSCI101 Introduction to Languages and Theory of Computation Spring 2021
CSCI062 Data Structures and Advanced Programming Fall 2020
ECON052 Principles of Microeconomics Fall 2020
CSCI051 Introduction to Computer Science Spring 2019

EXTRACURRICULARS

Computer Science Department Student Liaison, Pomona College 2020 -2021
Organized department events and worked closely with faculty on department issues, with a particular focus on better supporting historically underrepresented students in CS
Pomona AI Club, Pomona College 2021
Worked on the *Tasked Agent in Simulated Environment* team, developing neural network-based computer vision systems with PyTorch to help a drone navigate in simulation
Hack for Black Lives, Harvey Mudd College 2021
Worked on a team to design a platform for Black organizations to connect with individuals for volunteer-registration, petition- signing, content-sharing, and fundraising
Pomona-Pitzer Men's Varsity Soccer Team, Pomona-Pitzer Athletics 2018-2022
Played varsity soccer for all four years and served as captain senior year

SKILLS

Programming Languages and Frameworks
Python, PyTorch, SQL, R, Java, C, Haskell, OCaml, Git

AWARDS AND SCHOLARSHIPS

Rena Gurley Archibald High Scholarship Prize, Pomona College 2022
Awarded to the member of the graduating class who ranks highest in scholarship
Summa Cum Laude, Pomona College 2022
Highest Latin honor of graduating class (\approx 2-5% of graduating class)
Phi Beta Kappa National Honor Society, Pomona College 2021
Inducted as a Junior (\approx 2% of graduating class)
Pomona College Scholar, Pomona College 2018-2022
Academic Honors
All-Academic Team, SCIAC 2018-2022
Academic honors for student-athletes in the Southern California Intercollegiate Athletic Conference
First Team All-SCIAC, SCIAC 2021
Awarded to top Men's Varsity Soccer players in SCIAC