

Sid Padmanabhuni

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SUMMARY STATEMENT

A highly motivated Computer Science student at San Francisco State University with a background in HRI and HCI research and leadership at a university level.

EDUCATION

Bachelor of Science in Computer Science, Expected 2025

Minor in Mathematics, Expected 2025

San Francisco State University, GPA 3.97/4.0

High School Diploma, June 2021

Mission San Jose High School

PROFESSIONAL WORK EXPERIENCE

Undergraduate Researcher | Human-Computer Interaction, June 2023 - Present

Arizona State University, Tempe, Arizona • Remote

Job Type: 20 Hours/Week, Part-Time

Supervisor: Pooyan Fazli, The People and Robotics Laboratory, Arizona State University

This research proposal addresses the pressing issue of video inaccessibility for the blind and low vision (BLV) community in the United States. Our research work is funded by the National Institute of Health.

Undergraduate Researcher | Human-Robot Interaction, June 2022 - May 2023

Google Research, San Francisco, California • Remote

Job Type: 20 Hours/Week, Part-Time

Supervisor: Pooyan Fazli, The People and Robotics Laboratory, Arizona State University

Co-authored a publication on Human-Robot Interaction (HRI), focusing on the perception and evaluation of robot hands. My work is sponsored by Google's exploreCSR program.

In-depth research of human-robot interaction. Through an extensive search of existing robot hands, we compiled a database of hands with their feature set. We collected user impressions of these hands using surveys with a 17 rating scale. The data gathered through the surveys is used to train a linear regression model to predict user impressions of the hands within a 10-point margin of error.

OTHER WORK EXPERIENCE

Instructor, June 2022-Present

Beyond the Basics, San Jose, California

Job Type: 5 hours per week, Part-Time

Supervisor: Surya Batchu, Private Tutor

Tutoring high school students AP Calculus AB and AP Calculus BC.

Computer Science Discussion Leader, August 2022 - December 2022

San Francisco State University, San Francisco, California

Job Type: 10 hours per week, Part-Time

Supervisor: Duc Ta, Assistant Professor @ SFSU

Mentoring new CS students in the introductory computer science course. Assisting students in learning new topics and setting them on the right path for their academic careers.

Assistant Instructor, July 2016 – November 2019

West Coast World Martial Arts, Fremont, CA

Job Type: 10 hours per week, Part-Time

Supervisor: Joe Fernandez, Owner, WCMMA

Assistant Instructor. Taught students martial arts techniques and material five days a week. Assisted students that needed help and answered their questions.

PUBLICATIONS

Designing and Evaluating Interactive Tools for a Robot Hand Collection. Ramzi Abou Chahine, Sid Padmanabhuni, Pooyan Fazli, and Hasti Seifi. In Proceedings of the ACM/IEEE International Conference on Human-Robot Interaction, Late-Breaking Reports (HRI), 2023

COURSE WORK

CS Coursework (In-progress or completed):

- CSC 210: Introduction to Computer Programming
- CSC 220: Data Structures
- CSC 230: Discrete Mathematical Structures for CS
- CSC 256: Machine Structures
- CSC 317: Introduction to Web Software Development
- CSC 340: Programming Methodolgy
- CSC 413: Software Development
- CSC 415: Operating System Principles
- CSC 510: Analysis of Algorithms I
- CSC 667: Internet Application Design and Development

Mathematics Coursework (In-progress or completed):

- MATH 226: Calculus I
- MATH 227: Calculus II
- MATH 228: Calculus III
- MATH 324: Probability & Stats w/ Computing
- MATH 325: Linear Algebra

LANGUAGES

- C/C++
- Java
- Python
- HTML, CSS, JavaScript
- MySQL
- MIPS Assembly