KARY CABRERA

310-256-7312 | Los Angeles, CA | karycabr@usc.edu | linkedin.com/in/karycabrera

EDUCATION

UNIVERSITY OF SOUTHERN CALIFORNIA, Los Angeles, CA   Expected Graduation: May 2024
B.S. | Electrical and Computer Engineering | 3.4
● Presidential Scholar (Fall 2020), Viterbi Fellow (Fall 2020)

EXPERIENCE

SIGNAL ANALYSIS AND INTERPRETATION LABORATORY, Remote   January 2022 – Present
Undergraduate Research Assistant
● Programmed machine learning models to analyze and classify biometric data from large data streams
● Conducted experiments to evaluate the accuracy of the models using a variety of different data sets

CENTER OF COMPUTATIONAL MEDIA INTELLIGENCE, Remote   January 2021 – May 2021
Research Fellow
● Analyzed feature extraction and genre labeling frameworks from music datasets and APIs
● Collaborated on a final presentation addressing the use of music APIs for holistic media applications

SINGLE MOLECULAR BIOPHOTONICS GROUP, Los Angeles, CA   June 2018 – August 2018
Summer Research Intern
● Administered protein extraction and analysis using spectrophotometry imaging technology
● Visualized muscle protein concentrations in patients with Emery-Dreifuss muscular dystrophy

PROJECTS

SOLAR CUP, Lennox Academy   September 2018 – March 2020
● Constructed and designed a 16-foot solar-powered boat using wood and metalwork power tools
● Collaborated on two 40-page technical reports detailing the mechanical and electrical components

CREAITIVITY AI ETHICS LAB, Remote   March 2021 – April 2021
● Programmed an emotion measuring device to determine anger levels using volume sensors
● Researched the ethical concerns with artificial intelligence and how to transform AI for social good

LEADERSHIP AND HONORS

● **Latinx Student Leader, Google** (2022): Selected as one of 130 students out of 870 applicants to participate in Google's 2022 Latinx Student Leadership Summit
● **Fellow, America Needs You** (2021 – Present): Selected as one of 50 first-generation college students in Los Angeles to serve in a 2-year career development and leadership training program
● **NCWIT National Award** (2020): Awarded as one of the 40 high-school students who demonstrate strong aptitude and achievements in leadership in the field of computer science

SKILLS AND INTERESTS

● **Computer Skills:** C/C++, Python, HTML, Autodesk Inventor, Siemens NX
● **Languages:** Spanish (native)
● **Volunteer Activities:** Viterbi Impact Program, Scholars Leading Scholars, USC Questbridge Chapter