CURRICULUM VITAE

Iliana Marrujo

11001 Ophir Dr. Los Angeles, CA 90024

ilianamarrujo@ucla.edu || 619-701-0712 || www.linkedin.com/in/ilianamarrujo

Education

September 2019 - June 2023

> University of California, Los Angeles
> Candidate for B.S., Applied Mathematics with a specialization in Computing, minor in Geography/Environmental Studies
> 3.79 GPA

Research Experience

PEERS ('19, '20, '21)

> Program for Excellence in Education and Research in the Sciences (PEERS) exposes students to research

Microfluidics Lab ('19)

> Worked under graduate students in a research lab where I was responsible for making the devices used for their research on microfluidics systems.

Directed Reading Program ('21 '22)

> Working with Graduate Students to study Iterative Methods and their applications in linear algebra.

Independent Research on Abstract Algebra ('22)

> Working with Peter Spass to better understand abstract algebra (specifically group and representation theory).

Lawrence Berkeley National Laboratory ('22)

> Working under Ann Almgren to study the movement of cancer cells in tumors through high performance simulations of cancer cell migration. Our model is implemented through the AMReX software framework.
> Additional work includes that of ballistic phonos.

Work

August 2020 - August 2021

> *Instructor*, Mathnasium Learning Center
> Provides individual learning in a group setting

September 2021 - Present

> *Grader,* UCLA Math Department
> Every quarter I work under a different professor, grading homework, quizzes and exams.

October 2021 - Present

> *Team Member*, Recreational Equipment, Inc.
> Responsible for outfitting customers for all outdoor adventures.

Leadership and Teaching Experience

2021 - Present

Member, Society of Women Engineers

2020 - Present

Staff, The University Backpacking Club

Responsible for acquiring sponsorships, running social media, coordinating and running events, and club seminars. Working to make the outdoors more accessible to more individuals and introduce college students to backpacking and hiking.

2014 - Present

Tutor

Tutored elementary, middle, high and college math.

September 2019 - October 2021

Coxswain, UCLA Men's Rowing

Responsible for steering and directing the boat of rowers, facilitating my team while on the water, and translating information from the coach to the rest of the team.

Although I am in charge of my boat, I work together with my rowers because we are one team with the same goals.

Relevant UCLA Coursework

Math

Math 31B - Integration and Infinite Series

Math 32A - Calculus of Several Variables

Math 32B - Calculus of Several variables

Math 33A - Linear Algebra and Applications

Math 33B - Differential Equations

Math 115A - Linear Algebra

Math 151 A/B - Applied Numerical Methods

Math 131A - Real Analysis

Math 142 - Mathematical Modeling

Math 134 - Linear and Nonlinear Systems of Differential Equations

Math 135 - Ordinary Differential Equations

Math 132 - Complex Analysis

Math 182 - Algorithms

Chemistry

Chemistry 20A - Chemical Structure

Physics

Physics 1A - Mechanics

Physics 1B - Oscillations, waves and fluids

Programing

PIC 10A/B - Programming (C++)

Geography

GEOG 5 - People and Earth's Ecosystems

M126 - Environmental Change

GEOG 116 - Climatology

Awards and Achievements

    UCLA Awards:
        Dean's Honor List
    Internship Offers:
        REU at Princeton to study glaciers and ice melt ('22)
        Lawrence Berkeley National Laboratory ('22)
    Hispanic Scholarship Federation Scholar
        Scholarship recipient '19, '20, '21, '22
    John Muir Trail:
        I completed the John Muir Trail (211 miles spanning from Mt. Whitney to Yosemite Valley) solo in the summer of 2021.
    High School Awards:
        President's Award ('19), Outstanding in Mathematics Award ('16, '18, '19), College Board Scholar Award ('17, '18, '19), Honors Graduate ('19), Varsity Track and Field ('18, '19), All-Academic Track and Field ('18, '19)

Relevant Skills

    Clear thinking problem solver
    Communicates effectively
    Good in stressful situations
    Strong leader
    Able to work independently
    Manages time and tasks effectively and efficiently with thoughtfulness and precision
    Excels in mathematics
    Outdoors enthusiast
    Ability to learn new skills quickly
    Professicient with Matlab, C++ and AMReX
    Professicient with Linux
    Ability to use and work with Git
    Currently learning CAD and Python