

SARAH GOMEZ

Miami, FL 33131 | 786-859-8854 | sarah_gomezz@berkeley.edu

EDUCATION

University of California, Berkeley

MS MOLECULAR SCIENCE AND SOFTWARE ENGINEERING

Berkeley, CA

August 2023 – Present

Pace University, Dyson College of Arts & Sciences

BACHELOR OF SCIENCE (BS) IN BEHAVIORAL NEUROSCIENCE | MINORS IN CHEMISTRY AND PSYCHOLOGY

New York, NY

May 2023

GPA: 3.80 | Honors: Dean's List, CSTEP Scholar

February 2020 – May 2023

RELEVANT COURSEWORK

Machine Learning Algorithms | Principles & Techniques of Data Science | Organic Chemistry II | Molecular and Cellular Biology | Neurobiology | Systems Behavioral Neuroscience | Genetics | Cellular Biochemistry

WORK EXPERIENCE

THE COLLEGIATE SCIENCE AND TECHNOLOGY ENTRY PROGRAM (Certified through CITI Program)

New York, NY

Research Assistant

May 2022 – May 2023

- ☐ Develop original research covering the correlation between Alzheimer's and Fertility
- ☐ Mentor and tutor the minority population at Pace University in Science, Technology, and Math
- ☐ Attend weekly enrichment seminars covering science-related topics

LABORATORY WORK

THE COLLEGIATE SCIENCE AND TECHNOLOGY ENTRY PROGRAM (Certified through CITI Program)

New York, NY

Undergraduate Research Assistant

October 2021 – May 2023

- ☐ Participated in and completed Bio Safety training for level I and II
- ☐ Practiced sterile environment technique
- ☐ Collected individual Caenorhabditis elegans to study effects of fertility with the intervention of RNAi

ACADEMIC PROJECTS

MACHINE LEARNING ALGORITHMS COURSE

September 2023 – Present

- ☐ Acquired foundational knowledge in mathematical optimization, statistics, and machine learning, including techniques like Deep Learning, Convolutional and Recurrent Neural Networks, and Graph Neural Networks, with a focus on applications in chemistry for tasks such as synthesis, property prediction, and molecular dynamics.
- ☐ Developed proficiency in applying optimization and statistical modeling to molecular science problems, enhancing understanding of the interplay between numerical optimization, statistical models, and machine learning in chemical contexts.

PRINCIPLES & TECHNIQUES OF DATA SCIENCE COURSE

September 2023 – Present

- ☐ Gained proficiency in data science methodologies, covering data processing, visualization, and predictive modeling in an intermediate-level course. Skilled in programming for data analysis, including machine learning methods like regression and classification.
- ☐ Developed abilities in computational and inferential reasoning, ready for advanced academic courses in data management and machine learning.

GENETICS LAB COURSE

August 2021 – December 2021

- ☐ Performed yeast modification with CRISPR/CAS9 and conducted PCR
- ☐ Conducted transformation of competent cells with genetically engineered plasmid

CONFERENCES/LEADERSHIP ACTIVITIES/ VOLUNTEER WORK

- ☐ Nu Rho Psi Honor Society, Eta Chapter, Founder & Head Committee Organizer April 2023 – May 2023
- ☐ The City Tutors NYC, Volunteer November 2022 – January 2023
- ☐ The Society for the Study of Reproduction Conference, Spokane, WA June 2022
- ☐ Neuroscience Club, Founder and President November 2021 – May 2023

HONORS, AWARDS & AFFILIATIONS

□ Independent Research in Biology Poster Award	May 2023
□ Dyson President Leadership Award, Neuroscience Club	May 2023
□ Setter Leadership Award for New Club Organization of the Year	April 2023
□ Beta Beta Beta Honor Society	May 2022 – Present
□ Society for the Study of Reproduction	May 2022 – Present
□ American Chemistry Society	May 2022 – May 2023
□ Student Leadership Award, Nominee	April 2022
□ Tau Sigma Transfer Honor Society	March 2021 – Present
□ Minority Association of Pre-Health Students	February 2021 – Present
□ French Modern Languages Award	January 2021

SKILLS

Technical

Microsoft Office (Word, PowerPoint, Excel, Outlook) | Google Suite (Docs, Sheets, Forms, Slides) | Apple Distinguished Certified (Pages, Keynotes, Numbers) | HTML | BBEdit | Teamwork | Zoom | Jupyter lab | Visual Studio Code

Programing

Python | C++

Libraries

Pytorch | Pandas | NumPy | Scikit-learn | Seaborn

Laboratory Techniques

Record-keeping | Equipment maintenance and calibration of titration | Micro pipetting | Specimen handling

Languages

Spanish (fluent) | French (intermediate)