SARAH GOMEZ

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EDUCATION

University of California, Berkeley — **Berkeley, CA**
MS MOLECULAR SCIENCE AND SOFTWARE ENGINEERING — August 2023 – Present

Pace University, Dyson College of Arts & Sciences — **New York, NY**
BACHELOR OF SCIENCE (BS) IN BEHAVIORAL NEUROSCIENCE | MINORS IN CHEMISTRY AND PSYCHOLOGY — 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 – December 2023

- 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 – December 2023

- 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

- National Society of Student Leaders, Social Events Chair and Vice President — March 2021 – January 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)