Martin Bourdev

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Education

Los Angeles, CA

University of California, Los Angeles
B.S. in Bioengineering (Bioinformatics minor) **GPA: 3.83 / 4.00**

Expected June 2024

Experience

International Flavors and Fragrances
Bioscience Summer Intern

Palo Alto, CA
June – September 2022

- Developed novel CRISPR/Cas9 plasmid and methods for *B. subtilis* mutagenesis.
- Received the Employee Recognition Award.
- Independently designed and executed wet-lab experiments.

Zoetis
Production Intern

Union City, CA
June – September 2021

- Led a project studying sources of error in chemical bead production.
- Wrote a Python program to model data and predict yield rates using machine learning.
- Wrote a Python program using OpenCV to measure the sizes of dispensed beads from video.

Underwriters Laboratories
Wireless Testing Technical Support Intern

Fremont, CA
June – September 2020

- Worked in team of UL engineers, clients, and interns testing wireless devices.
- Upheld stringent quality control and confidentiality standards.

Research

UCLA Health Abramson Lab
Non-Clinical Volunteer

September 2021 – Present

- Developed methods to purify and characterize the BDH2 enzyme in yeast.
- Mastered cell culture, yeast propagation, PCR, gel electrophoresis, and fermentation.
- Recorded over 200 volunteer hours.

Leadership Experience

UCLA Biomedical Engineering Society
Permanent Cell Team

October 2020 – June 2021

- Mastered the fundamentals of wet lab research: cell culture, immunostaining, and Western blots.
- Conducted independent research focused on the rate of insulin degradation.

UCLA CruX Neurotechnology
Brain-Computer Interface Team Lead

October 2020 – Present

- Led a team of 8 undergraduate students in a project to measure cognitive load from EEG signals.
- Taught team members signal processing techniques in Python: bandpass filters, Fourier transform, power spectral density, artifact rejection.

Skills

Software   Python, C++, Java, SolidWorks, Machine Learning, Signal Processing, Algorithms, Data Structures
Wet Lab   Cell Culture, PCR, DNA and Protein Gel, *E. coli*, *B. subtilis*, Plasmid Construction, CRISPR/Cas9
Hobbies   Distance Running, Brewing, Reading, Mandarin