

Julia Martinez

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EDUCATION

University of California San Diego

Bachelor of Science in Biotechnology

Relevant Coursework: Molecular Biology, Genetic Engineering, Bioinformatics, Cell Culture, Immunology, Biostatistics

GPA: 3.78/4.0

San Diego, CA

Aug 2023 – May 2027

TECHNICAL SKILLS

Laboratory Techniques: CRISPR, PCR, Flow Cytometry, Cell Culture, Western Blot

Software: R, Python, BLAST, PyMOL, GraphPad Prism, Benchling

PROJECTS

[Gene Therapy Vector Design](#) | *CRISPR, Python*

- Engineered viral vectors for targeted gene delivery
- Developed computational models for gene expression prediction
- Achieved 75% improvement in targeting efficiency

[Protein Structure Prediction](#) | *PyMOL, Machine Learning*

- Created ML model for protein structure prediction
- Implemented deep learning algorithms for folding simulation
- Reduced computation time by 60% compared to traditional methods

[Cancer Biomarker Detection](#) | *Flow Cytometry, R*

- Developed novel method for early cancer detection
- Analyzed large-scale patient data using R
- Achieved 90% sensitivity in preliminary trials

RESEARCH EXPERIENCE

Research Assistant - Genomics Lab

UC San Diego School of Medicine

Sep 2023 – Present

San Diego, CA

- Investigating novel gene editing techniques for rare diseases
- Optimized CRISPR protocols for higher efficiency
- Published research in Nature Biotechnology

WORK EXPERIENCE

Biotechnology Intern

Illumina

Jun 2023 – Aug 2023

San Diego, CA

- Developed new sequencing library preparation protocols
- Optimized DNA extraction methods for difficult samples
- Reduced sequencing costs by 30% through protocol improvements

Laboratory Research Assistant

Scripps Research Institute

Jan 2022 – Dec 2022

La Jolla, CA

- Conducted drug screening assays for cancer therapeutics
- Maintained cell culture facilities and equipment
- Trained 4 new research assistants in laboratory procedures