

Sophia Rodriguez

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EDUCATION

University of California, San Diego

Bachelor of Science in Biomedical Engineering

La Jolla, CA

Aug 2024 – May 2028

Relevant Coursework: Biomechanics, Medical Imaging, Tissue Engineering, Biostatistics, Molecular Biology, Medical Device Design

GPA: 3.85/4.0

TECHNICAL SKILLS

Languages and Tools: MATLAB, Python, R, SolidWorks, ImageJ, SPSS

Technologies: 3D Bioprinting, Microfluidics, PCR, Cell Culture, Medical Imaging Software

PROJECTS

[Biodegradable Tissue Scaffold](#) | *MATLAB, 3D Printing*

- Designed a novel biodegradable scaffold for bone tissue regeneration
- Optimized material composition for improved cell adhesion and growth
- Conducted mechanical and biological performance testing

[AI-Powered Medical Diagnostic Tool](#) | *Python, Machine Learning*

- Developed machine learning algorithm for early cancer detection
- Implemented image recognition techniques for medical imaging analysis
- Achieved 92% accuracy in preliminary diagnostic predictions

[Wearable Health Monitoring Device](#) | *Arduino, Sensor Design*

- Created a low-cost wearable device for continuous health monitoring
- Integrated multiple biosensors for real-time physiological data collection
- Designed user-friendly interface for data visualization

RESEARCH EXPERIENCE

Undergraduate Researcher - Regenerative Medicine Lab

University of California, San Diego

Jan 2023 – Present

La Jolla, CA

- Investigating stem cell differentiation techniques
- Developed novel protocol for neural tissue regeneration
- Presented research findings at undergraduate bioengineering symposium

WORK EXPERIENCE

Medical Device Engineering Intern

Medtronic

Jun 2023 – Aug 2023

Minneapolis, MN

- Assisted in development of next-generation cardiac monitoring devices
- Conducted comprehensive performance and safety testing
- Collaborated with cross-functional engineering teams

Biotech Research Assistant

Scripps Research Institute

May 2022 – Aug 2022

La Jolla, CA

- Supported advanced molecular biology research projects
- Performed complex laboratory procedures and data analysis
- Maintained detailed research logs and documentation