Daniel Arturo Osorio
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EDUCATION

University of Florida   Gainesville, Florida
Bachelor of Science in Biomedical Engineering   *May 2025*

Master of Engineering in Biomedical Engineering   *Expected Graduation – May 2026*

EXPERIENCE

IMMUNO-MODULATORY BIOMATERIALS LAB   Gainesville, Florida
Undergraduate Project Lead   *May 2022 – May 2025*

- Screen cancer-derived molecules for immunomodulation in Autoimmune Disease by creating a schedule to design and execute experiments.
- Analyze and present data to a principal investigator and lab members in a professional environment to receive and iterate on experiments.
- Attend conferences such as the Biomedical Engineering Society (BMES), present lab findings, and establish a presence at conferences.
- Assist with graduate student experiments with the laboratory by creating and sharing materials and assisting in the culture of cells.
- Work closely with new laboratory members to learn laboratory etiquette, culture cells, run flow cytometry, and analyze data.
- Present findings through school research presentation events and talk to numerous people about immunology with varying levels of knowledge in the subject.
- Keep up to date with current events in immunology and biomaterials research by reading papers attending and presenting journal club articles to classmates and lab members.

SUMMER UNDERGRADUATE RESEARCH IN ENGINEERING   Atlanta, Georgia
Researcher   *May 2024 – July 2024*

- Live and work with a cohort of Engineers at Georgia Tech (GT) to do research, attend events, and present findings to other members and the shareholders of the program.
- Work in the Botchwey creating a platform for transfecting mesenchymal stem cells with liposomes.
- Started an independent project from the ground up with the help of a mentor.
- Attend weekly seminars to learn about graduate school and the path the school faculty took to reach their goals.

TECHNICAL SKILLS

- Programming: Python, MATLAB, Arduino IDE,
- Tools: OnShape, SolidWorks, KiCad
- Data Analysis: Machine Learning Basics, ImageJ, FlowJo
- Cell Assays: Flow Cytometry, ELISA, Cell Culture, Microscopy

PUBLICATIONS AND PRESENTATIONS

- Engineering Research Symposium April 2024
- Biomaterials Day March 2024
- GT poster presentation July 2024
- GT Symposium July 2024
- BMES Poster Presentation October 2024
- Undergraduate Thesis May 2025