

Ana Valentin

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EDUCATION

Doctor of Philosophy, Biomedical Engineering <i>Florida International University, Miami, FL</i>	<i>Spring 2025</i>
Bachelor of Science, Biomedical Engineering <i>Florida International University, Honors College, Miami, FL</i>	<i>Spring 2021</i> GPA: 3.62

FELLOWSHIPS

Transdisciplinary Biomolecular and Biomedical Sciences (TBBS) Program <i>Funded by: National Institute of Health, T32</i>	<i>August 2021 – July 2023</i>
Undergraduate to Graduate Program (UtGP) <i>Funded by: Florida International University Graduate School</i>	<i>August 2023 – July 2025</i>
GEM Associate Fellow <i>Funded by: The National GEM Consortium</i>	<i>August 2025 – July 2026</i>

PROJECTS

Senior Design Project <i>Sponsor: Terumo Aortic</i> <ul style="list-style-type: none">- Improved a patient specific test fixture for stents used in abdominal aortic aneurysm treatment.- Developed a 3D printed model of a patient's aorta.- Designed a quick connect mechanism to connect the aortic model to a pulsatile pump.	<i>August 2020 – April 2021</i>
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RESEARCH EXPERIENCE

Coulter Undergraduate Research Excellence Program Trainee <i>Advisor: Dr. Joshua Hutcheson</i> <ul style="list-style-type: none">- Trained in cell culture in order to isolate cells and set up a calcification assay.	<i>Fall 2020 - Spring 2021</i>
Cardiovascular Matrix Lab Volunteer <ul style="list-style-type: none">- Worked with graduate students to learn the basics of laboratory research, image analysis, and statistical analysis and was trained in the use of the Li-Cor Odyssey CLx fluorescence imaging device and the NSF ImageJ analysis tools.	<i>February - August 2020</i>

WORK EXPERIENCE

Learning Assistant Internship, BME Modeling and Simulation <ul style="list-style-type: none">- Developed an online system with the professor and teaching assistants to best teach the core curriculum of the class remotely.- Helped approximately 50 students with any of the class assignments or questions to ensure their success through office hours as well as one-on-one instruction.	<i>August 2019 – December 2020</i>
Panther Camp Facilitator <ul style="list-style-type: none">- Oversaw a group of students throughout the summer as a camp facilitator and introduced them to the resources available at Florida International University.- Assisted in the collection of donations and goods from companies and organizations throughout South Florida as part of the Sponsorship Committee.	<i>January – August 2019</i>

SKILLS AND ABILITIES

Technical: MATLAB, Arduino, Python, SOLIDWORKS, AutoCAD, ImageJ, SPSS, Microsoft Office, Word, Excel, PowerPoint, OneNote

Animal Experiences: Mouse Handling, Oral Gavage, Tail Vein Injection, Anesthesia/Euthanasia, Mouse Dissection

Laboratory Techniques: Cell extraction from cardiac tissue, RNA Extraction/Western Blotting, Genotyping/PCR, Immunofluorescence Techniques

Languages: Fluent in English and Spanish

LEADERSHIP AND OUTREACH

Biomedical Engineering Society <i>Executive Board Position: Project Lead</i> <ul style="list-style-type: none">- Coordinated the development of design thinking workshops within the BME department.	<i>April 2018 – Present</i>
FIU Honors P.U.S.H. <i>Executive Board Position: Social Chair</i> <ul style="list-style-type: none">- Encouraged college students to take care of themselves and their health through proper nutrition, habitual exercise, and mental breaks.	<i>April 2018 – August 2020</i>