

MARIA CAMILA GIRALDO

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EDUCATION

Florida International University
Honors College
Bachelor of Science Biomedical Engineering
December 2019
GPA - 3.96

Miami Dade College
Associate Degree Biology
April 2017
GPA - 4.0

SKILLS

- Leadership and teamwork
- Microsoft Office
- Fluent in English and Spanish
- MATLAB
- Cell culturing

AWARDS/RECOGNITIONS

- Florida Blue Health Innovation Challenge second place winner
- Norman Weldon Undergraduate Research Fellowship
- Coulter Undergraduate Researcher
- Hult Prize university-wide competition first place winner
- SAP Innovation Bootcamp First Place Winner
- Transfer Merit Scholarship FIU
- Dean's List (2014 - Present)
- President's Volunteer Service Award
- Exceptional Leader Miami Dade College

PROJECTS

- OR PACE - SENIOR DESIGN** March 2019 - Present
Senior Design Project - Design of a wireless electrode for a pacemaker
- Determined market requirements, design specifications, and design concepts, performed QFD analysis, feasibility analyses, and drafted verification protocols
- CARDIACOUSTICS** January 2019 - Present
- Funded research commercialization project in collaboration with the director of StartUP FIU and my research mentor. Won second place at health innovation challenge sponsored by Florida Blue Health
 - Completed research commercialization training

LEADERSHIP/AFFILIATIONS

- Lessons in Life and Leadership Seminar** 2017 - 2018
• Completed a two-semester long seminar taught by Dr. Modesto Maidique, Florida International University President Emeritus
- Florida Engineering Society - Vice-president of FIU Chapter** 2017 - 2018
• Increased Member engagement by 90%
- Florida Engineering Society - President of MDC Chapter** 2015 - 2017
• Helped it become one of the most active chapters after 20 years, hosted networking opportunities for students, funded "Be an engineer for a day" initiative for elementary students
- National Society of Collegiate Scholars - Founder Officer / Vice-President of MDC Chapter** 2016 - 2017
• Led projects to encourage at-risk youth to pursue higher education
- Phi Theta Kappa Honor Society - Honors in Action Coordinator of MDC Chapter** 2015 - 2016
• Led community service project at His House Children's Home

PRESENTATIONS

- Undergraduate Research Day FIU BME - Poster presentation September 2018
- Hult Prize Social Entrepreneurship Challenge Boston Regionals - Business pitch March 2018
- South Florida Life Science Undergraduate Research Symposium - Oral presentation April 2017
- Miami Dade School of Science Research Symposium - Poster presentation September 2016

RESEARCH EXPERIENCE

- Cardiovascular Matrix Remodeling Laboratory, FIU - Miami, FL** December 2017 – Present
Student Researcher
- Tested effect of different drugs on the contraction of vascular porcine cells using a collagen gel assay.
 - Conducted mechanistic study of the role of extracellular vesicles in vascular calcification in collaboration with the Biomolecular Sciences Institute. Cultured human cells on different treatments, collected the media and harvested the cells and performed qPCR analysis and protein expression analysis.
 - Experimented with monocyte differentiation to study the role of inflammation in vascular calcification
 - Performed literature research, vesicle collection and isolation, experiment design, and data analysis
- Cell Culture Facility, FIU - Miami, FL** September 2017 – December 2017
Trainee
- Performed cell culturing of human cells and porcine cells, RNA extraction and qPCR analysis, and Interpreted
 - Maintained cell human coronary artery cell line for experimentation.
- Summer Research Institute, Miami Dade College** May 2016 – September 2016
Student Intern
- Interpreted data obtained using TRON method to estimate parameters for fermentation processes and designed a poster.

WORK EXPERIENCE

- StartUP FIU – Miami, FL** February 2019 – Present
Student Intern
- Directed and led a group of students to conduct market opportunity analysis for the commercialization of FIU research
 - Performed market growth and competitor analysis for FIU forensics patents
- Office of President Emeritus, FIU - Miami, FL** August 2018 – Present
- Assisted in logistics of Chapmanville Leadership Development Program for Miami-Dade County Executive Directors
 - Optimized the scoring of personality assessments using MATLAB by reducing the time from at least 20 minutes per test to a few minutes.
- STEM TOP, Miami Dade College** May 2016 – April 2017
Peer-Led Team Learning (PLTL) Peer Leader
- Planned and conducted study sessions of 7-15 students in Calculus 2 and General Chemistry 2
- Miami Dade College / University of Miami** August 2016 – December 2016
Student Facilitator at HHMI course
- Mentored students that participated in authentic research experience course offered by MDC and UM