

LUIS SANJUAN

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EDUCATION

BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING, University of South Florida, Tampa, FL

Graduated: May 2021

Overall GPA: 3.65/4.00. Dean's List: Fall 2017, Spring and Fall 2018, Spring 2020.

Awarded USF's International Student Scholarship.

RESEARCH EXPERIENCE

OCTOBER 2019 – JUNE 2021

RESEARCH TRAINEE, Integrated Mathematical Oncology, H. Lee Moffitt Cancer Center & Research Institute, Tampa FL

- Showcased project in SMB's 2020 Annual Conference conducted virtually
- Maximized simulation's performance to decrease run time without altering its equations
- Redesigned existing simulations to achieve specific goals such as growing organoids
- Examined cancer cell growth models under various medium conditions in 2D and 3D
- Tested computational simulations in MATLAB using mathematical models of cancer cells
- Assembled movies from simulation outputs in FIJI from images obtained in MATLAB

OCTOBER 2016 – MAY 2017

RESEARCH INTERN, Biosensors Lab, Universidad del Norte, Colombia

- Co-authored a poster in ASME's 2017 International Mechanical Engineering Congress and Exposition, Tampa, FL
- Earned best project award based on the quality of the monograph and its defense in front of an expert panel
- Achieved the goal of an appropriate polyaniline suspension to homogeneously spread on a working electrode
- Analyzed changes in the viscosity of a conductive polymer polyaniline using organic thickeners
- Collaborated in the project's goal of developing a point-of-care sensor for traumatic brain injury detection

SKILLS

- Proficient in MATLAB & Simulink operation and coding
- Proficient in Spanish (C2), English (B2), and French (A2)
- Proficient in ASPEN Plus
- Experienced in LabView, Python, R

ACTIVITIES AND CERTIFICATES

- Summer training in biomedical engineering topics at Duke University (2013), Boston University (2014), and USF (2015)
- US CRLA Level 1 Tutor Certificate
- SChE Certifications on diverse topics regarding process safety
- Tau Beta Pi - Florida Gamma Member