






Camila Ceballos Santa

BIOMEDICAL ENGINEER

CONTACT DETAILS

-  Palo Alto, CA
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-  Id: cami.ceballos
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COMPETENCES

- Achievement oriented
- Analytical and purposeful thinking
- Proactive and leadership spirit
- Teamwork and collaboration
- Outstanding communication skills
- Receptive, capable and versatile
- Research and analysis of scientific literature

LANGUAGES

- English – Proficient
- Spanish – Native



EXPERIENCE

2022

Research Associate | Cell Therapy

Cellular Vehicles, Palo Alto, CA

Project: Developing a research model to quantitatively measure the impact of delivery performance on cell therapy employing Cellular Vehicles' innovative devices

Responsibilities: Building and managing the lab operation, establishing protocols, submitting technical reports, and supporting cross-functional projects

2021-2022

Graduate Research Assistant | 3D Bioprinting

Rochester Institute of Technology, NY

Interdisciplinary Manufacturing Engineering and Design (iMED) Laboratory

Advisor: Iris. V. Rivero, MS, Ph.D

Research focus on 3D bioprinted human tissue models for regenerative medicine applications

BioX – Cellink printer

2021-2022

Teaching Assistant | Additive Manufacturing

Rochester Institute of Technology, NY

This course aims to help students in understanding the latest developments and **critical challenges of additive manufacturing**, and provide them with related techniques and **practical experience in 3D printing processes and applications**

3D Printers: Prusa i3 MK3, Formlabs Form 2, Markforged Onyx One, Markforged Metal X

Materials: PLA, Photocurable Resin, Onyx, Stainless Steel

Software: Simplify 3D, PreForm, Eiger, Fusion 360, nTopology, Meshmixer, Invesalius

2017-2019

Biomedical Engineer | Biotechnology

CES University

Research: "Isolation of Stem Cells from the Bichat Bag and osteogenic differentiation"

Tutors: Carolina Londoño Peláez, MSc, Ph.D, CES Biomedical Engineering Program Manager, and Diego Alejandro Velásquez Puerta, MSc, Ph.D

Responsibilities:

Research, analysis and interpretation of scientific literature in reliable databases. **Essay writing under scientific model.**

Development of methodologies and protocols to achieve specific objectives. **Cell culture** and preservation under optimal conditions.

Laboratory procedures for **cell differentiation** and **cytotoxicity assays**

2018

Clinical Engineering Internship

Pablo Tobón Uribe Hospital

Ranking: #4 in Colombia and #10 in Latin America

Project: Centralized Alarm Management System in the Adult Intensive Care Unit

Tutor: Paula Andrea Berrio, International Committee Member of the American College of Clinical Engineering

Responsibilities:

Research, analysis and interpretation of updated information and endorsed by **international entities: FDA, The Joint Commission, AAMI Foundation and ECRI Institute.** Delve into **installation, commissioning and operation** of biomedical devices and systems involved in the project. Identification, formulation and **troubleshooting.** **Permanent oral and written communication** of a technical or scientific nature with UCI medical and engineering staff. Participation and collaboration with the **interdisciplinary work team** in the **Engineering Department.** **Permanent delivery of reports to the heads** of the different areas of the Hospital



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EDUCATION

- 2021-2022 Ph.D. in Mechanical & Industrial Engineering**
Rochester Institute of Technology, NY
GPA 3.78/4.0
RIT Ranking: #3 largest in STEM among U.S. private universities and #112 among national universities
- 2020-2022 ThePower MBA**
Business model innovation, testing business ideas & startup, entrepreneurship & fundraising, leadership, digital marketing, finance & accounting, HR & talent management.
- 2014-2019 Bachelor's Degree in Biomedical Engineering**
EIA University (Engineering School) in Collaboration with CES University (Medical School)
GPA 4.02/5.0
EIA University Ranking: #2 in Engineering in Colombia
CES University Ranking: #2 in Antioquia, #8 in Colombia and #126 in Latin America



ONLINE COURSES

- 2022 University of Bayreuth**
Biomaterials and Biofabrication: Design, Engineering and Innovation Grade 9.2/10
- 2021 Harvard University**
Bioethics: The Law, Medicine, and Ethics of Reproductive Technologies and Genetics Grade 8.8/10
- 2021 CITI Program**
Responsible Conduct of Research for Engineers Grade 9.6/10
Biomedical Research with Human Subjects Grade 9.4/10
- 2020 Harvard University**
FDA: Prescription Drug Regulation, Cost and Access Grade 9.6/10
- 2020 Johns Hopkins University**
Design and Interpretation of Clinical Trials Grade 9.3/10
- 2020 American Museum of Natural History**
The Science of Stem Cells Grade 10/10



DISTINCTIONS

- 2022 Author and speaker at the IISE Annual Conference & Expo**
Speaker "Aloe vera-based Bionik for Skin Tissue Regeneration", Seattle, WA, US
- 2021 Full Scholarship** for the Mechanical & Industrial Engineering PhD program at Rochester Institute of Technology, NY, US
- 2017 Volunteer at Tikun Olam Makers** to create affordable prototypes for people with disabilities, Medellín, Colombia
- 2014 Author and speaker at the III Biological Sciences Symposium** at the conference "Regeneration of cartilage tissue" at CES University, Medellín, Colombia
- 2014 Academic recognition for excellent performance** at EIA University, Medellín, Colombia



PERSONAL INTERESTS

Love being in constant learning, leading a healthy lifestyle by exercising and cooking, enjoying my family and friends, and being surrounded by animals and nature