

**CAROLINA SANTACRUZ PEREZ**  
STEAM, Biology, Business, Spanish, Portuguese

**Work Experience**

Scientific Advisor

Feb 2020 – Apr 2020

British School Manila

Manila, Philippines

- Formulation of the STEAM curriculum for project-based learning in all grades
- Teachers training
- Setting up a Maker Space project
- Introducing my company (BRAINS) futuristic content, online platform and project bank
- Proposing final scientific event for entrepreneurial content based on previous international experience

MYP IB Teacher

Jan 2019 – Dec 2019

International School of Alphaville

Sao Paulo, Brazil

- Middle school STEAM teacher
- High school TOK teacher
- Middle and high school ENTREPRENEURSHIP teacher
- Establish a new STEAM program based on multidisciplinary hands-on projects using scientific methodology, my own project bank, futuristic content, and my online platform.
- BRAINS is a company founded by me as a scientist with the purpose of optimizing the use of prototyping spaces within schools. The company has a program composed by futuristic modules that inspire the ideas of students' projects. They are challenged to choose a research area and a problem that they propose to solve through the construction of a prototype. The prototypes obtained under STEAM principles are registered on an online platform and presented at an open event to the community to encourage partnerships with companies and possible obtaining of a product. The program, in addition to encouraging scientific methoding, seeks to develop in students the entrepreneurial spirit through 3 main features: (i) Creativity; (ii) Teamwork; and (iii) Communication. The last two years the program has successfully run in two schools in São Paulo with the presentation of around 100 scientific and entrepreneurship projects, and almost 400 students have made their presentations in TED format. Here are some examples of projects: <https://www.youtube.com/watch?v=-l7ibk1poJA>

Scientific Coordinator

Jan 2018 – Dec 2019

Colegio Sidarta (Chinese School)

Sao Paulo, Brazil

- Science and Technology teacher
- Laboratory coordinator
- Maker space coordinator
- Formulation of project-based learning content for primary, middle and high school
- Setting up TED ed and scientific event for 300 people in 2018 and 2019 for prototypes exposition and entrepreneurial training establishing contact with local companies
- Incubation of my company (BRAINS) as a research project for Sidarta Institute

**Education**

Ph.D. in Biophysics

Brazilian Synchrotron Light Laboratory - Sao Paulo, Brazil

MsC in Biotechnology

University of Sao Paulo, SP - Brazil

Bachelor Industrial Microbiology

Pontificia Universidad Javeriana – Bogotá, Colombia

**Skills**

- Proficient Languages: English, Spanish, and Portuguese
- Passionate about technology and sustainability projects
- Scientist and Entrepreneur Experience setting up projects in prototyping spaces as FabLabs, Chemical Labs, Cooking Labs, Orchards
- Experience working with plastic, 3D printing, laser cutter, carpentry, software
- Experience teaching sciences and languages