

Physicist

C. Catalina M. Sarria

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Academic Formation

Msc Quantum Technologies and Engineering (QuanTEEM)

Université de Bourgogne - RPTU Kaiserslautern
September 2023 - August 2025

Bsc Physics

Universidad Nacional de Colombia
February 2017 - December 2022
GPA: 4.3/5.0

Research Experience

Research Module

October, 2024 - March, 2025
Rymax One - RPTU Kaiserslautern

Characterization of devices for moving quantum tweezers.
Python, Quantum Optics, Electronics, Optics Simulation

Internship

April, 2022 - May, 2022
Paris-Saclay - UNAL

LHCb data analysis of charmonium production in b -decays.
C++, Python, Root, Computational Physics

Virtual Internship

July, 2021 - January, 2022
Paris-Saclay - UNAL

Simulation for the PLUME detector in LHCb.
C++, Root, Geant4, Computational Physics

Work Experience

Web Developer

March, 2023 - November, 2023
UNAL

Web development to display energetic information of rural areas in Bogotá using map visualization.
JavaScript, Vue.js, Java, Web Development

Web Developer

May, 2023 - August, 2023
Universidad Distrital Francisco José de Caldas.

Web applications development for tutorship and complementary academic services.
JavaScript, Angular, Tailwind, GoLang, Web Development

Data Analyst

September, 2022 - December, 2022
Tensor S.A.S.

Deploy predict maintenance package in AWS services.
Python, Data Analysis, Mathematical Models, AWS

Developer - Data Analyst

February, 2022 - September, 2022
UNAL

Driving test scoring automatization with data taking and analysis.
Python, ArcGis, Sensors Managing, Data Analysis

Developer - Data Analyst

November 2019 - November, 2021
Several Projects as student assistant

Python, C++, Data Analysis, SQL

Languages

Spansih (Native)	★★★★★★
English (IELTS: 6.5)	★★★★☆
French	★★★☆☆
German	★★★☆☆

Software

 Python	★★★★★★
 C++	★★★★☆
 Latex	★★★★★★
 git	