JUAN CAMILO GALLEGO GALLÓN

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B.Sc in Physics, Trilingual (Spanish, English, French), intuitive, with great analytical skills and eager to learn. Interested in data science, machine learning, programming and condensed matter physics. Special interest in ways data can improve people's life quality while been sustainable. I think these topics are the revolution of our industry and rules how current life works. Skills like leadership, assertiveness, argumentation, problem solving and adaptability represent me. Great working under pressure and advocate for heterogeneous teams and nonstandard solutions.

EDUCATION

Bachelor of Science - Physics

Universidad de los Andes

📅 2014 – 2019 📍 Bogotá, Colombia

Monograph: Quantum entanglement and correlation measures in Deep Learning Networks.
Supervised by: Ph.D. Alonso Botero.

Academic Exchange program

Université Paris Diderot, Paris VII

📅 Sept. 2016 – Jan. 2017 📍 Paris, France.

Cultural Exchange program

Lycée Gay Lussac

📅 Aug. 2012 – Jun. 2013 📍 Limoges, France.

High School

Colegio Berchmans

📅 1998 – 2012 📍 Cali, Colombia

First place 2012 ICFES standardized test.

EXPERIENCE

Research Assistant

$\mu - core$, microscopy core facility.

📅 May 2017 – Dec. 2017 📍 Universidad de los Andes

- Sample pre-processing.
- Sample processing using Confocal microscopy (CLSM), Scanning electron microscopy (SEM), Atomic force microscopy (AFM) , Fluorescence and Transmitted light microscopy.
- Image processing using FIJI-ImageJ.

Teaching assistant

Academic Support Center (Clínica de Problemas)

📅 Jan. 2017 – Dic. 2017 📍 Department of Physics.

General attention and reinforcement to students from various careers, when in doubt about courses of the common cycle courses of physics.

Energy a global perspective

📅 Jan. 2017 – May 2017 📍 Department of Physics.

- Exam scoring.
- Student guidance.

Private tutor

📅 Jan. 2016 – Apr. 2020

Functions: Personalized classes in problem solving, preparation and resolution of workshops, improve student understanding and knowledge of physics.

FURTHER TRAINING

Schools and congress:

SciPy LATAM 2019.
7th Scientific Python LATAM conference.
Universidad de los Andes

📅 Oct. 2019 📍 Bogotá, Colombia

Assistant.

10th School on Mathematical Physics.
Machine Learning for Quantum Matter and Technology
Universidad de los Andes

📅 May 2019 📍 Bogotá, Colombia

Assistant.

Cali school on Magnetism.
Universidad del Valle

📅 Feb. 2018 📍 Cali, Colombia

Assistant.

Certificates (click):

DataCamp

Online at DataCamp

📅 2020

Career tracks:
- Data Scientist (100 h).
- Data Analyst with Python (60 h).
- Python Programmer Track (58h)

Skill tracks:
- Data Manipulation with Python (20 h).
- Machine Learning Fundamentals Python (20 h).
- Python Programming (15 h).
- Importing & Cleaning Data with Python (13h).

Master in Physics Courses:

Advanced Laboratory
Universidad de los Andes

📅 2017

Project: Measure of Magneto-electric effect on nanoparticles using Lock-in Method.

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Advanced computational Methods
Universidad de los Andes

📅 2017

Statistical Learning and High Performance Parallel Computing course.

SEMINARS

Small angle X-ray Scattering (SAXS).
Condensed Matter Seminar

📅 Nov. 2017   📍 Department of Physics, Uniandes.

Speaker

Convolutional Arithmetic Circuits, Deep Learning with depth efficiency approach.
Quantum Mechanics and Information theory Seminar

📅 Aug. 2019   📍 Department of Physics, Uniandes.

Speaker

LANGUAGES

Spanish
Native.
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French
Full professional proficiency.
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English
Professional proficiency.
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German
Elementary proficiency.
A2 course done.
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SKILLS

Programming:

Good:

Python | Frequent user of: Jupyter, NumPy, SciPy, Matplotlib, Seaborn, Bokeh, Pandas, Scikit-learn.
LATEX | Git | GitHub

Basic:

SQL | C | Java | Bash

Interpersonal:

Empathic | Large-minded | Critical | Creative
Dynamic | Leader | Persistent | Persuasive
Analytical | Resolutive | Constant learner
Good team worker | purposeful | Autonomous
Curious | Flexible

EXTRA CURRICULAR ACTIVITIES

- **Condensed Matter** research group member; Physics Department, Universidad de Los Andes.

📅 Jun. 2017 – Jul.2018   📍 Departamento de Física.

- Leader of **A los Andes en Bici** student group. The group's mission is to promote and visualize the bicycle as a sustainable and viable means of transport to and from the university; through outreach activities, organizing caravans with students, professors, managers and the rectory, supporting sustainable transport campaigns at the university and ensuring the implementation and adaptation of physical resources that facilitate the use of the bicycle as a daily means of transport.

📅 Jun. 2014 – Jun. 2016   📍 Universidad de los Andes.

- Member of the Uniandes Salsa student group.

📅 Ene. 2018 – Jun. 2019   📍 Universidad de los Andes.