

JUAN CAMILO GALLEGO GALLÓN

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Bogotá, Colombia



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.

EXPERIENCE

Research Assistant

μ - 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.

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.

Certificates (click):



actual

- Participant in the current version (3rd) of the program sponsored by Min-Tic.



2019 - 2020

- Machine Learning Scientist with Python (93 h).
- Data Scientist with Python (100 h).
- Data Analyst with Python (60 h).
- Python Programmer Track (58h).
- Deep Learning in Python (20 h).
- SQL Fundamentals (21 h).
- Time Series with Python (20 h).



2020

- Deep Learning Specialization - deeplearning.ai (80h)

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.

Master in Physics Courses:

Advanced Laboratory

Universidad de los Andes

📅 2017

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

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.



French

Full professional proficiency.



English

Professional proficiency.



German

Elementary proficiency.

A2 course done.



SKILLS

Programming:

Good:

Python : Dask, PySpark, TensorFlow, PyTorch, Keras,
Scikit-learn, XGBoost, spaCy, Pandas...

LaTeX Git GitHub

Basic:

SQL PyMongo C Java Bash

Interpersonal:

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

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 trans-
port to and from the university.

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

- Member of the Uniandes Salsa student group.

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