

Luciano Bastidas Peralta

Undergraduate Student

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Undergraduate student with knowledge in condensed matter and experience on lab research. Committed to the study of various subjects with the goal of optimizing a task to the maximum. Currently, physics is my main program of study, I use my engineering knowledge to reduce time during lab preparation and AI programming allows me to optimize the analysis of the data obtained.

Experience

QUANTUM MATERIALS GROUP | EARLY 2022 - ONGOING |

- As a member of a research group, I have been in charge of investigating the laboratory's RUS system, increasing its measurement capabilities by studying how to improve the input signal and having control over it through python command lines. Now I am in charge of introducing to the group the RUS methodology with the study of piezoelectric materials.

Education

MAJOR IN PHYSICS | 2019-ONGOING | UNIVERSITY OF LOS ANDES

- Being physics my principal major of studies, I use its knowledge to get at the edge

MAJOR IN MECHANICAL ENGINEERING | 2020-ONGOING | UNIVERSITY OF LOS ANDES

- As a mechanical engineering student, I got some skills on team leadership and management of projects. On the other side, I like to use my engineer knowledge to improve and optimize experiments, like using control settings to control various.

MINOR IN NANOSCIENCE AND NANOTECHNOLOGY | 2022-ONGOING | UNIVERSITY OF LOS ANDES

- with this option I had the opportunity to deepen even more my knowledge of materials and the possible opportunities for these.

PHYSICS AND CHEMISTRY HL | IB PROGRAM | 2019

- During the International Baccalaureate program, I decided to specialize on the study of different experiment. To do so, the best options to get the best education on that direction was to study Chemistry and Physics HL, being the options study material science and engineering physics.

Skills & Abilities

FAST LEARNER

- Being a person who likes knowledge, in order to optimize my time and to finish several certificates I have acquired this skill. It is more remarkable with programming languages, where in the last years I have been using python, Java, and C++ for my work.

HARDWORKER

- My purpose in a job is to enable me to perform at my best in these jobs. Although I perform many activities at the same time, I never forget any of them allowing me to finish them satisfactorily.

MULTITASKING

- Over the past few years, one skill I have had to acquire has been multitasking. Although engineering and physics seem similar, I have found that the way each community interacts is completely different. Being that one must constantly change the "chip" and have one's mind on several jobs at once.

LEADERSHIP

- In most of my projects I have had the opportunity to be the work leader. Because I prioritize that the purpose of the project is met, I often get the feeling that we students prioritize grades before what the experience of the work can bring. Experience being the main goal of such projects to improve every time the work is done.

Activities/Certificates

HONORABLE MENTION | IBERO-AMERICAN PHYSICS OLIMPIADS | 2018

- I had the opportunity to participate in the competition by winning first place in the national competition in Ecuador. During the Olympics I was able to interact with other people, and being able to participate in the competition was what made me decide to study physics and become a scientist.

PROJECT ON DATA SCIENCE | 42HACKS SWITZERLAND | 2022

- I got the opportunity to be part of a team of four to help on a project of the company 42Hacks in Switzerland, which mission is to use AI to decrease the emission of CO2 of private and public transport. We used an AI model, to learn more about the human behavior on private transport use, letting them see some correlations.

MENTION ON NATURAL AND EXPERIMENTAL SCIENCE |SCHOOL AMERICANO DE GUAYAQUI, ECUADOR | 2019

- Inside the school, at the last years, I was in charge to be a project leader, study different experiment to implement at the lab and to help others with their projects of Biology, Chemistry and/or Physics. Being that at the end of the year, the school gave me a mention for my results on the experimental area.

CERTIFICATE OF RECOGNITION |ROBERT ALLAN REED ECUADOR | 2019

- The mission of the Robert Allan Reed Institution is to decrease illiteracy by teaching adults. Being part of the team, I got recognition for my work and the great improvement of the students in my charge.

ASSISTANT PROFESSOR| UNIVERSIDAD DE LOS ANDES |2022-ONGOING

- On the last two semesters I got the opportunity to be an assistant at the classes of Quantum Mechanics 2, Experimental Project, Computational Methods 2 and Mechanics.

GOOGLE DATA ANALYTICS PROFESSIONAL CERTIFICATE | 2022