Christian Peralta Viteri   Curriculum Vitae

Date of Birth	09.04.1997
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Profile

I am an aspiring computational biologist who can promptly adapt to different environments, having the ability to work in multi-disciplinary teams. Hard-work, passion and dedication is what drives my career. Being a goal-oriented and resilient researcher, I am currently seeking a new project which allows me to branch out into new fields where I can be at the interface between IT and life sciences. My aim is making use and refining my computational skills to become an even stronger asset to any group.

Professional and Research Experience

2022 — **Junior Bioinformatician** at Bioinformatics Support Platform, University of Geneva.

Democratizing bioinformatics, we place a strong emphasis on harnessing the power of **deep learning** in analyzing single-cell transcriptomics data in **neurosciences**. Our project automates data analysis for non-coders, providing easy access through a user-friendly Docker image. At the core of our research is the development of a groundbreaking deep learning model, tailored to unravel the complexities of neuro-degenerative **diseases**.

2021 – 2022 — **Msc Thesis** at Biomedical and Metabolomics Analysis unit, led by Prof. Serge Rudaz, supervised by Dr Julien Boccard; 1800 hours.

"A data-driven workflow to enrich biomarkers annotation in untargeted metabolomics".
Application of **advanced statistical analysis** (PCA, HCA, PLS, RF) and graph-based analysis to untargeted metabolomics data (p>>n). Aim: biomarker extraction and enrichment. **Development of a Python library**: cheMLearning.

2021 — **MSc Internship** at Biomedical and Metabolomics Analysis unit, led by Prof. Serge Rudaz, supervised by Dr Julien Boccard; 320 hours.

"Improvement of Data Processing and Annotation Strategies in High Resolution Mass Spectrometry Metabolomics".
Raw MS data processing. **Algorithm development** in **R** to suggest analytes potentially assigned with an incorrect charge state. Moreover, application of **unsupervised modeling** for data preprocessing quality assessment.

2011 – 2020 — Football Referee at Federación de Castilla y León, Valladolid (España).

Honors & Awards

2022 — Travel grant to attend Analytics Congress, Nantes, France. Awarded by RFMF.

Skills

Machine Learning	Bioinformatics: *BioConductor*
Python: *sklearn, numpy, pandas, plotly, Keras*	HPC
R: *ggplot2, FactoMineR, torch*	Git & GitHub
BASH	Docker

Education

2019 – 2022 — MSc in Biochemistry, University of Geneva, Geneva, Switzerland

2015 – 2019 — BSc in Biology, University of Salamanca, Salamanca, Spain

Languages

	Reading	Listening	Writing	Speaking	Use of Language
English	B2	B2	B2	B2	C1
Spanish	Native	Native	Native	Native	Native

Licenses and Certificates

Driving License type B
First Cambridge Certificate in English, Credential ID: B3021318

References:

Serge Rudaz, Ph.D.
Professor - Analytical Sciences
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