

## Christian Peralta Viteri

## Curriculum Vitae

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### Profile

I am a student born in Ecuador and raised in Spain where I studied at the University of Salamanca, obtaining my BSc in Biology and, currently, I am following a MSc in Biochemistry at University of Geneva. I consider myself a hard-working and dedicated student who likes to branch out in different fields and learn new skills every day. Furthermore, I am also very passionate about what I do and show patience and resilience when the times ask for it.

### Professional and Research Experience

- 2021 – 2022 Msc Thesis with Biomedical and Metabolomics Analysis unit, led by Prof. Serge Rudaz, supervised by Dr Julien Boccard; 1800 hours.
- “Expanding the Metabolome Coverage by means of Genome-scale Metabolic Networks: application to digoxin toxicity in astrocyte cells”.*  
**Chemometrics** analysis of **untargeted** metabolomic data where I am **developing** my own **Python** class to wrap-up unsupervised and supervised **machine learning** algorithms (PCA, PLS...). Furthermore, **network analysis** of Recon2 based on metabolic fingerprint aiming at **annotating** potential biomarkers based on **MetaboRank** suggestions.
- 2021 MSc Internship with 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”.*  
Analytical chemistry immersion where I had my first contact with **raw data processing** ensuring untargeted integrity of the workflow. **Algorithm development** in **R** to suggest analytes potentially assigned with an incorrect charge state. Moreover, I applied unsupervised **machine learning** algorithms commonly used in chemometrics for **data acquisition quality** assessment.
- 2018 Internship at Institute of Functional Biology and Genomics (IBFG) with Prof. Juan P. Bolaños Hernández.  
Immersion in cellular and molecular biology research techniques, 240 hours.
- 2011 – 2020 Football Referee at Federación de Castilla y León, Valladolid (España).

### Skills

Machine Learning  
Python: *sklearn, numpy, pandas, scipy, matplotlib, plotly, tensorflow, keras*  
R: *tidyverse, ggplot2, FactoMineR, factoextra, survival, caret*  
BASH  
Bioinformatics: *gene prediction, sequence sim. search, protein function prediction, Protein-protein interaction*  
Microsoft Office Package

### Education

- 2019 – present MSc in Biochemistry, University of Geneva
- 2015 – 2019 BSc in Biology, University of Salamanca, Salamanca

### 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