

Christian Peralta Viteri

Curriculum Vitae

Date of Birth 09.04.1997
Address Route de Jussy 87, 1226. Thônex, Geneva, Switzerland
E-mail christian_94_97@hotmail.com
Phone +41 77 974 19 00
LinkedIn www.linkedin.com/in/christian-peralta-viteri-71a81b16b
Fiverr https://www.fiverr.com/christian_94_97?up_rollout=true
GitHub <https://github.com/Christ14n97>

Profile

I am an aspiring computational biologist/data scientist 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 company and/or research group.

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** library to wrap-up unsupervised and supervised **machine learning** algorithms (PCA, PLS...). Furthermore, **network analysis** of Recon2; 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 MS 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 preprocessing 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*
Git & GitHub

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