

# Sebastian Franco Ulloa, Ph.D.

## Biocomputational Scientist

I am currently working as a consultant at Expert Analytics AS, where I have fulfilled roles as researcher in bioinformatics, senior data scientist and software developer. I hold a Ph.D. in biocomputational sciences and a strong background in physics and chemistry, complemented by a passion for teaching. My interests span various fields, including biostatistics, machine learning/artificial intelligence, and immunology. My values are rooted in the scientific method and critical thinking. I approach challenges with an analytical and compassionate mindset, actively seeking diverse perspectives to form well-informed and rational judgments. I describe myself as a self-aware, determined individual with a touch of humor.

### Contact

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### Skills

Bioinformatics

Drug discovery and development

Machine learning

Statistical analysis

Data visualization

Scientific writing

Public speaking

Teaching

### </> Programming

Python

Bash

LaTeX

Git

Docker

AWS

### 🗣 Languages

Spanish

English

Italian

### 📁 Work Experience

#### Senior Data Scientist

Now  
2023

*Oslo University Hospital - CellFIT. Norway.*

Designed and implemented a Python-based web application to robustly load, clean, visualize, and analyze mass cytometry data. The pipeline also leverages supervised machine learning methods for feature extraction and prediction of clinical outcomes.

#### Biomedical Outreach Representative

Now  
2022

*Expert Analytics. Norway.*

Represented Expert Analytics at the Oslo Cancer Cluster and cultivated relationships with academic and industrial organizations in the biomedical sector at notable European gatherings like Cancer Crosslink 2023 and the Nordic Precision Medicine Forum 2023.

#### Senior Data Scientist and Backend Developer

2022  
2021

*Edge Audio Analytics. Norway.*

Analyzed terabytes of high-frequency audio data to detect anomalies and baseline variations. Developed predictive maintenance models for heavy hydropower machinery. Contributed to a federated learning product. Led an 8-people team utilizing the SCRUM framework.

#### Part-time Professor

2016  
2016

*University of Los Andes. Colombia.*

Trained undergraduate students in analytical chemistry and laboratory practices. Graded over 50 assignments per week including lab reports, quizzes, and exams. Student grade: 3.72/4.00

#### Teaching Assistant

2016  
2013

*University of Los Andes. Colombia.*

Instructed weekly 2-hour lectures to 10-50 students on general, theoretical, computational, and physical chemistry topics.

### 🎓 Education

#### Ph.D. Biocomputational Sciences

2021  
2017

*Italian Institute of Technology. Italy.*

*Thesis title: Multiscale Modeling of Metal Nanoparticles for Biotechnological Applications*

Graduated with honors (*cum laude*)

#### BSc. Physics

2017  
2012

*University of Los Andes. Colombia.*

*Thesis title: Simulations of a Weakly Self-Interacting Fluid Using Lattice Boltzmann Methods (Graded 4.00/4.00)*

GPA: 3.59

#### BSc. Chemistry

2016  
2011

*University of Los Andes. Colombia.*

*Thesis title: Application of Molecular Mechanics for the Discovery of Novel Microbial IIA Topoisomerases Inhibitors (Graded 4.00/4.00)*

GPA: 3.57