

Sebastian Franco Ulloa, Ph.D.

Biocomputational Scientist

I am a consultant at Expert Analytics AS, where I have fulfilled roles as a researcher in bioinformatics, senior data scientist and backend software developer. I hold a Ph.D. in biocomputational sciences and have a background in physics and chemistry, complemented by a passion for teaching. My interests span 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 sense of humor.

Contact

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Oslo, Norway

Skills

Bioinformatics

Drug discovery and development

Machine learning

Statistical analysis

Data visualization

Scientific communication

Teaching

</> Programming

Python

Bash

LaTeX

Git

Docker

AWS

🗣 Languages

Spanish

English

Italian

📁 Work Experience

Senior Data Scientist

Oslo University Hospital - CellFIT. Norway.

Now
2023
Designed and implemented a Python-based web application to 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

Expert Analytics. Norway.

Now
2022
Represented Expert Analytics at Oslo Cancer Cluster and cultivated relationships with academic and industrial organizations in the biomedical sector at notable European gatherings like Cancer Crosslinks 2023 and the Nordic Precision Medicine Forum 2023.

Senior Data Scientist and Backend Developer

Edge Audio Analytics. Norway.

2022
2021
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

University of Los Andes. Colombia.

2016
2016
Trained undergraduate students in analytical chemistry and laboratory best practices. Graded over 50 assignments per week including lab reports, quizzes, and exams.
Grade from students: 3.72/4.00

🎓 Education

Ph.D. Biocomputational Sciences (*cum laude*)

2021
Italian Institute of Technology. Italy.

2017
Thesis title: *Multiscale Modeling of Metal Nanoparticles for Biotechnological Applications*

BSc. Physics (GPA 3.59)

2017
University of Los Andes. Colombia.

2012
Thesis title: *Simulations of a Weakly Self-Interacting Fluid Using Lattice Boltzmann Methods (Graded 4.00/4.00)*

BSc. Chemistry (GPA 3.57)

2016
University of Los Andes. Colombia.

2011
Thesis title: *Application of Molecular Mechanics for the Discovery of Novel Microbial IIA Topoisomerases Inhibitors (Graded 4.00/4.00)*