

# Sebastian Franco Ulloa, Ph.D.

## Data Scientist

With 7 years of programming experience and a Ph.D. in biocomputational sciences, Sebastian specializes in developing pipelines to streamline and analyze large datasets. He has worked as a data scientist, data engineer and bioinformatician, honing his skills in statistical modeling, industrial software development, cloud computing and project/team management. He thrives in spaces where he can learn new technologies and spar ideas with his colleagues. Sebastian approaches challenges with an analytical and compassionate mindset, actively seeking diverse perspectives to make well-informed decisions. He describes himself as a determined problem solver with a sense of humor, while his peers see him as disciplined, goal-oriented and caring.

### Contact

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📍 Oslo, Norway

### Skills

Statistical analysis

Machine learning

Data visualization

Team management

Storytelling

Teaching

### </> Programming

Python

SQL

GCP/AWS

Docker

Terraform

Apache Airflow

Apache Beam

### 🗣 Languages

Spanish

English

Italian

Norwegian

### 📁 Work Experience

#### • Senior AI Engineer

*DN Media Group. Norway.*

From  
2025

Developed and deployed AI products using LLMs, integrating DBT, BigQuery, and cloud-based solutions. Built NLP and time series forecasting models, contributed to Python package deployment, and managed GCP infrastructure with Terraform. Worked on data modeling, workflow automation, and cloud-based application debugging.

#### • Senior Data Scientist - Consultant

*Oslo University Hospital - Cytofit. Norway.*

2024  
2023

Developed a Python web application to clean and analyze omics data. The pipeline leveraged supervised AI methods to extract features and identify biomarkers predictive of clinical outcomes. Implemented front-end (Streamlit and Dash), database (MongoDB and PostgreSQL), API (FastAPI) and parallelization solutions to optimize the pipeline's performance. Led a team of 5 with agile methods (SCRUM). Secured 5 MNOK funding (2 MNOK from Innovation Norway).

#### • Data Scientist and Backend Developer - Consultant

*Resonyx. Norway.*

2022  
2021

Analyzed terabytes of high-frequency audio data to detect anomalies and baseline variations. Developed and deployed ML/AI models to predict failures in heavy hydropower machinery. Maintained an AWS cloud infrastructure, including databases, long-term storage, roles and monitoring systems. Led a team of 7 with agile methods (SCRUM).

#### • Researcher

*Italian Institute of Technology. Italy*

2021  
2017

Studied the interaction between drugs and biomolecules with ML/AI and statistical inference models, in Python. Participated in 4 drug discovery campaigns and identified hit compounds for different forms of cancer and bacterial infections. Authored 9 peer-reviewed publications and supervised 2 master's students.

### 🎓 Education

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

*Italian Institute of Technology. Italy.*

2021

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

#### • BSc. Physics (GPA 3.59)

*University of Los Andes. Colombia.*

2017

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

#### • BSc. Chemistry (GPA 3.57)

*University of Los Andes. Colombia.*

2016

2011

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

