# Curriculum Vitae for Sebastian Franco Ulloa

## Personal information

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| | 0553 Oslo | Phone: | +47 466 79 133 |
| Born: | 28.07.1993 | | |

## Summary

Consultant at Expert Analytics AS. PhD in biotechnological sciences with a background in physics and chemistry. My areas of interest include data science (analysis and visualization), machine learning, drug discovery, nanomaterials, and the theory of evolution. My values are based on the scientific method, critical thinking, and teaching. I am an analytical and compassionate person prompt to hear different perspectives on the same problem, to consolidate them into the most informed and reasonable judgement possible.

## Technical skills

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| Applications | Supervised machine learning, Molecular dynamics, Mathematical modeling, Data visualization, Finite element methods, Design of experiments, Scientific writing |
| Languages | Python, C, SQL, bash |
| Packages | Scikit-learn, TensorFlow, Pandas, Matplotlib, Bokeh, Tkinter, Seaborn, Numpy |
| Tools | Ipython, GitHub, Linux, VMD, Gromacs, Microsoft Office Suite |

## Education

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| 2017 – 2021 | **PhD Biotechnological sciences.** *Italian Institute of Technology*. Genoa, Italy |
| 2017 – 2020 | **Data science certificates of accomplishment.** *DataCamp, Inc.* Online |
| 2020 | **Leading Digital Transformation online course (6 weeks).** *Massachusetts Institute of Technology - Professional Education*. Online |
| 2012 – 2017 | **BSc. Physics.** *University of Los Andes*. Bogota, Colombia |
| 2011 – 2016 | **BSc. Chemistry.** *University of Los Andes*. Bogota, Colombia |
| 2016 – 2019 | **Modern Physics at All Scales summer school.** *University of Leiden*. Leiden, The Netherlands |

## Professional experience

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|---|---|
| 2021 – Present | **Consultant.** *Expert Analytics.* Oslo, Norway |
| 2018 – 2021 | **Research collaborator.** *Italian Institute of Technology.* Genoa, Italy |
| 2019 | **Guest researcher (6 months).** *Hylleraas Centre for Quantum Molecular Sciences.* Oslo, Norway |
| 2016 | **Part-time professor (6 months).** *University of Los Andes.* Bogota, Colombia |
| 2015 – 2017 | **Teaching assistant.** *University of Los Andes.* Bogota, Colombia |
| 2016 | **Accompaniment program tutor.** *University of Los Andes.* Bogota, Colombia |

## Languages

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|---|---|
| English | Highly proficient in speaking and writing |
| Italian | Proficient in speaking and intermediate writing skills |
| Spanish | Native |

## Personal skills

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| Data visualization | Intrinsically motivated to creating visually appealing representations of data |
| Problem solving | Interested in merging seemingly disconnected concepts into innovative and creative perspectives |
| Statistics | Solid background in statistics resulting from a training in scientific research |
| Teaching | Passionate about sharing knowledge both in formal and informal settings |

## Some interests and hobbies

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| Leisure | Music, knitting, pet-sitting |
| Miscellaneous | Generative art, the Theory of Evolution, jewel crafting |
| Physical activity | Boxing, dancing, acrobatics, yoga, hiking |