PhD candidate in biocomputational sciences at the Italian Institute of Technology (IIT) with a background in physics and chemistry. My areas of interest include data science, machine learning, object-oriented programming, molecular dynamics, 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 judgment possible.

Sebastian Franco Ulloa

PhD Candidate

Committed problem solver

Work History

2021-03 – **Consultant**
Expert Analytics. Oslo, Norway

2020-11 – **Researcher**
2021-02   *Italian Institute of Technology (IIT). Genoa, Italy*

2019-07 – **Guest researcher**
2019-12   *Hylleraas Centre for Quantum Molecular Sciences. Oslo, Norway*

2016-01 – **Part-time professor**
2016-06   *University of Los Andes. Bogotá, Colombia*

2013-08 – **Teaching assistant**
2016-01   *University of Los Andes. Bogotá, Colombia*

Education

2017-11 – **PhD Biocomputational sciences**
2020-10   *Italian Institute of Technology (IIT). Genoa, Italy.*
- Thesis title: "Multiscale Modeling of Metal Nanoparticles for Biotechnological Applications."

2018-09 – **Data science certificates of accomplishment (245 hour total)**
2020-03   *DataCamp, Inc. Online*

2012-01 – **BSc. Physics (GPA 4.32/5.00)**
2017-06   *University of Los Andes. Bogotá, Colombia*

2011-08 – **BSc. Chemistry (GPA 4.30/5.00)**
2016-12   *University of Los Andes. Bogotá, Colombia*

2016-07 – **Summer school "Modern physics at all scales"**
2016-06   *University of Leiden. Leiden, The Netherlands*

Volunteering

2019-12 – Reviewer at the *Journal of Chemical Theory and Computation* (American
Present   Chemical Society press, impact factor 5.313). Hand-picked by an associate editor to comment on manuscripts submitted for publication

2014-10 – Elected member of the board of directors at the student's representative
2015-09   council. Campaigned and won a position as the student's representative at the Institutional Committee of Student Affairs, University of Los Andes. Bogotá, Colombia. This committee is the last instance available for students in academic and disciplinary processes

2012-08 – Teacher and fundraiser at SOSAndes – Students Offering Support.
2013-07   Bogotá, Colombia. Raised ca. 300€ giving physics classes to build shelters for people from the lowest-income regions of Colombia

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Languages

Spanish

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Italian

Soft skills

Teaching

Scientific writing

Public speaking

Critical thinking

Creativity and innovation

Skill development