

## WORK EXPERIENCES

### Doctoral researcher

Biomedical Data Science group in LCSB

*Sep 2020 – Present*

Integrative machine learning methods for the joint analysis of different types of omics, clinical and imaging data from patient and control subjects.

### Marie Curie Early Stage Researcher (fellowship award)

Marie Skłodowska Curie Action Helical ITN – Firalis SA

*June 2020 – July 2020*

### Data scientist

Accenture Applied Intelligence - Analytics

*Mar 2019 – June 2020*

Data driven projects on sales forecast (time-series and ML), computer vision (OCR) and statistics for fraud detection. Python, R and visualization tools.

### Junior Data Analyst

Capgemini

*Sep 2018 – Mar 2019*

Access and analysis of data. Project based on a financial services client within the area of business intelligence (systems decisions).

### Bioinformatician

Pharmacelera SL

*Feb 2018 – Jul 2018*

Parametrization and benchmarking of QM hydrophobicity descriptors in ligand-based virtual screening. I developed a pipeline reaching speedup x30 with no loss of accuracy.

### Université de Fribourg , Switzerland

Bioinformatics Internship

*Feb 2017 – Jul 2017*

Genomics at Daniel Wegmann's lab for my bachelor thesis. Inferring population genetic structure from ancient DNA of the Tollense battlefield.

### National Biotechnology Center (CNB)

Biotech Research Internship

*Aug 2015 – Sep 2015*

### Universidad Politécnica de Madrid

Project Assistant

*Jan 2015 – Jun 2015*

## COMPUTING SKILLS

- **Scripting:** Python, R, Bash, Perl
- **Data mining and database analytics:** SQL, R, SAS, MS Excel
- **Machine learning:** Python and R packages for DS (scikit learn, ...)
- **Deep Learning:** Pytorch, Keras.
- **Version control system:** Git
- **Simulations:** Matlab, Blender, VisBasic
- **HPC user**
- **Bioinformatics tools:** FastQC, GATK, ATLAS, VCFtools, SAMtools, Pymol, swisspdbviewer
- **Google Cloud Platform:** BigQuery, Google Cloud Storage, Google Cloud Compute Engine
- **Web (basic):** HTML, CSS, javascript
- **Agile methodologies:** Kanban, JIRA



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Date of Birth: Sept 17, 1995  
Place of Birth: Madrid  
Nationality: Spanish

Drivers' license and car available  
Present residence in Spain

## OTHER HIGHLIGHTS

### AI Saturdays BCN Fellow & mentor

Study groups from the basis to novel techniques in AI.

I started with a scholarship and am currently helping new students as a mentor.

### Pint of Science BCN 2019

Organizer at the scientific festival Pint of Science.

Contact, management and logistics of speakers coming from tech start-ups. Talks aimed to bridge the gap between science and society.

### Biotechnology Annual Congress 2019

Organizer, congress' website management and logistics.

### School support teacher (2013-2017)

*Freelance* tutor for children and teenagers with scholar needs.

### Leisure activities instructor (2013-2017)

Volunteer-working as leisure staff at a youth association devoted to children

### International student in Switzerland (2017)

Courses at Université de Fribourg, internship and Bachelor Thesis

### International student in France (2010)

Courses at Lycée Saint Thomas d'Aquin, specialization Science

## EDUCATION

### University of Luxembourg

PhD in Biomedical Data Science

*Sept 2020 – Present*

Integrative machine learning methods for biomarkers in Parkinson disease, including the joint analysis of different types of omics, clinical and imaging data.

### Universitat de Barcelona

Postgraduate in data science and big data

*Sept 2019 – Sept 2020*

Exploratory analysis and visualization, Bayesian statistics. Linear models, Naïve Bayes and random forests, recommenders, graph analysis, deep learning.

### Universitat Autònoma de Barcelona

MSc Bioinformatics for genomics and drug discovery

*Sept 2017 – Jul 2018*

Bioinformatics tools to study large-scale biological data. Scripting, statistics, NGS analysis and genomics, structural biology and drug design.

### Universidad Politécnica de Madrid

Biotechnology

*Sept 2013 – Jul 2017*

Engineering basis with focus on biocomputing, genetics, protein and drug design, microbiology and biochemistry.

### Excellence - Baccalaureate program

Science High School

*Sept 2011 – Jun 2013*

For students with outstanding academic record. Baccalaureate with high standards.

## AWARDS & ACHIEVEMENTS

### Awards

- Scholarship for Excellence in High School
- Scientists Summer Camp scholarship
- St. Viator National Research Award in Science for the project "*Un cacao de disoluciones*"
- Third prize winner in Critical Care Datathon Tarragona 2018
- Pytorch Deep Learning Scholarship Challenge by Facebook, Inc.
- Marie Skłodowska-Curie Fellowship 2020

### Achievements

- University Access Assessment (PAU 2013): 12.94/14
- CAE (English C1)
- DELF B2 (French B2)
- DeepLearning.ai specialization
- Volunteering at *Pint of Science*, *Biotech Annual Congress* and *AJC-CAL*.

## LANGUAGES

✓ Spanish (native)   ✓ English (C1)   ✓ French (B2)   ✓ Italian (A2)   ✓ Catalan (B1)

## PROFILE AND PERSONAL ABILITIES

- **Social skills** of cooperation and teamwork, personal achievement and autonomy, public speaking and teambuilding.
- **Values** of empathy, solidarity, responsibility, commitment and full immersion in the projects I'm involved in and also self-criticism.
- **Multilingual:** Fluent in English, French and Spanish; currently learning Catalan.
- **Extensive international travelling and wide team working experience.**
- **Effective written and oral communication skills.**