CELIA SÁNCHEZ LAORDEN

18th July 1999

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EDUCATION

2017 – Present   **Biomedical Engineering**. Medicine Faculty. University of Barcelona.

Highlighted subjects: Linear Algebra and Geometry (10), Multivariable Calculus (9.5), Informatics (8.5), Molecular and Cell Bioengineering (8.5), Bioinformatics (9.4), Biomedical Instrumentation and Signals (9.4 Excellent with Honours).

2017   **A level (Batxillerat LOE). Specialising in science and technology**. INS Rubió i Ors. (Sant Boi de Llobregat)

With honours

Research project: *MALDI and IR imaging techniques in the analysis of molecular changes in plants exposed to the pesticide chlorpyrifos.* BATX2LAB project organized by Barcelona Scientific Park.

COMPLEMENTARY FORMATION

2020   Innovation Days Barcelona 2020th edition. EIT Health.

2019   1st place in Rarehacks 2019th edition (Rare disease hackathon). Share4Rare. (UPC, B2Slab, CREB).

2019   3D modelling initiation. CEEIBIS. University of Barcelona. (6h)

2019   Make impact with personal candidacy. Servei d'Atenció a l'Estudiant (SAE). Univerisity of Barcelona.

2018   Introduction to Membrane Computing. Physics Faculty. University of Barcelona. (12h)

DIGITAL SKILLS

- Operating system environment: Windows and Linux
- Python (Programming language)
- R (Programming language) and R Shiny
- MATLAB & Simulink

- RoboDK, URSim
- LabView
- LTSpice
- Arduino and STM32CubeIDE
- Basic knowledge of SQL, CSS, HTML, C++
- GMSH, Elmer, ParaView

- Basic knowledge of Mathematica
- Regular use of Web 2.0
- GitHub and git
- LaTeX
- Basic knowledge of ImageJ, MRIcro, WSxM, Adobe Premiere Pro

LANGUAGES

Catalan: C1 level. Mother tongue.
Spanish: C1 level. Mother tongue.
English: C1 level.

   2018   **C1** in English. EOI Cornellà, Cornellà.

PROFESSIONAL EXPERIENCE

Internships:

June-Sep 2020   **Micklem Lab. Department of Genetics, University of Cambridge.**

Tasks: Functions for *InterMineR* R package last release on Bioconductor and interfacing Cytoscape with *InterMineR* to extend the visualization resources and increase the FAIRness of InterMine.
Development of my Bachelor's final project (2021).

July-Oct 2019   **Institute for Bioenineering of Catalonia** (IBEC).

Tasks: Development of graphical user interfaces for computational metabolomics workflows.Packages in R.

July 2016   **Institute of Environmental Assessment and Water Research** (IDAEA-CSIC). **Scientific and Technological Centers of University of Barcelona** (CCiTUB).

BATX2LAB project organized by Barcelona Scientific Park.

Tasks: Practical part of A level research project using Mass Spectrometry imaging (using MALDI Imaging) and Infrared imaging (in collaboration with Dr Carmen Bedia and Dr Núria Ferrer).

KEY SKILLS

- Teamwork and cooperation
- Leadership
- Good communicator
- Good at taking technological decisions according with cost, safety, sustainability, time and the ethical principles of the profession criteria.

Student representative for two years