

Alfonso Ortigado López

Computational Biotechnologist

I graduated in **Biotechnology** in 2022 from CEU San Pablo University, and I am currently pursuing a Master's degree in **Computational Biology**. I consider myself a passionate biotechnologist willing to face new challenges, with special interest in **data processing and analysis**.

During University, I have been acquiring the knowledge pertaining to health science, which I have been able to complement with continuing education courses: "Cloud computing for the pharmaceutical sector" (**CEU University in collaboration with AWS (Amazon Web Services)**), "Genomics in rare diseases" (**Genotipia and Illumina®**) and "Exome in clinical practice: concepts, applications and perspectives" (**Hospital Universitari Vall d'Hebron**). These courses have allowed me to understand the crucial role that bioinformatics plays in the "Healthcare" industry.

Parallel to the Degree, I have had the opportunity to participate in the **COIL** (Collaborative Online International Learning) project "Your Career Opportunities Worldwide" (**Universidad CEU San Pablo (Spain), Università degli Studi di Torino (Italy) and Coventry University (UK)**) and the COIL project "Personalized Nutrition and Genetics" (**Universidad CEU San Pablo (Spain) and Universidad Argentina de la Empresa UADE (Argentina)**); which have allowed me to develop communication skills, teamwork and cultural enrichment.

Regarding my professional experience, I developed my experimental Bachelor Thesis in the research line "**Study of the temporal pattern of tau protein hyperphosphorylation in the murine model of tau-P301S tauopathy**", at the Faculty of Pharmacy of the CEU San Pablo University. Specifically, in the processes that trigger the aggregation of tau protein, the formation of neurofibrillary tangles and their relationship with Alzheimer's disease. In this Project, I performed genotyping and immunohistochemical analysis. At the same time, I did my undergraduate internship at the biotechnology company **BioGen-Center S.L.**, where I developed laboratory work in the departments of Cytogenetics and Molecular Diagnostics, in addition to developing customer service skills through the management and preparation of appointments and reports.

Currently, I am developing my Master Thesis, at the **Institute of Medical Chemistry (IQM) of CSIC**, on computer-aided drug design, to identify new modulators of TRPM channels. Specifically, the modulation of the three-dimensional structure of the channel, the preparation of ligands to subsequently study their binding to the protein by molecular modeling, finally filtering those promising ligands.



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Languages

- English
- Spanish

Bioinformatic Skills

- MS Office
- Python
- Bash
- R
- SQL
- Spark

Personal Skills:

- Problem Solving
- Laboratory Skills
- Customer Service