Marta Fernández González

Computational Biotechnologist

Biotechnologist from Technical University of Madrid (UPM) specialised in computational biotechnology | Computational Biology Master student at Technical University of Madrid (UPM)

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I am a biotechnologist with specific formation on bioinformatics who is passionate about AI and Data Science. I hold a Bachelor's degree in Biotechnology, and I am currently studying a Master's degree in Computational Biology at the Technical University of Madrid (UPM).

During my Bachelor's degree, I gained a deep understanding of the principles of biology and mathematics. This allowed me to develop skills in AI and Data science models, techniques and tools, and programming languages such as Python, R, and Perl, along with other languages as Spark, SQL or Ruby. I also honed my skills in Molecular Biology, which I have applied during my internship in the Department of Crystallography at the Insituto Química-Física Rocasolano (IQFR) - CSIC under the supervision of Armando Albert for my Bachelor Thesis. In this research stage, I applied techniques such as protein purification, circular dichroism, protein crystallization and biofilm interferometry, among others.

I am now performing my Master Thesis at Centro de Biotecnología y Genómica de Plantas (CBGP), in the plant dynamics lab under the supervision of Krzysztof Wabnik, where I am applying techniques such as cell culture, yeast transformation, DNA purification and amplification, and Time-lapse microscopy in microfluidics devices.

With my academic background and professional experience, I am confident that I possess the necessary skills to further my career, not only in the research field, but also in pharmaceutical industry. My goal is to apply and develop my knowledge and skills to contribute to the development of breakthrough innovations in the field of Health Science and Biotechnology.