



Sara Herraiz Gil

Biologist – Bioinformatician

Biologist specialized in health and bioinformatics, highly motivated to use my knowledge about omics science in the health field.



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Professional profile

I graduated in Biology at the Universidad Autónoma de Madrid (UAM). During my bachelor, I have enjoyed the opportunity to specialize in Molecular and Cellular Biology. During my last year there, I had the chance to work during my internship in an immunology laboratory at Hospital Universitario La Princesa in Madrid. This allowed me to see how a laboratory of excellence works and to initiate my training and development as a future professional of the biomedicine field. In this stay, I studied the protein PSGL-1 and its possible relationship with systemic lupus erythematosus disease, and learn to prepare samples of animal model for flow cytometry, and to analyse the results obtained.

After my Bachelor, I did a Master in Management and Development of Biomedical Technologies at Universidad Carlos III de Madrid (UC3M). In this course, I acquired knowledge about biomedical technologies with special emphasis in fields such as genetics and omics technologies and personalized medicine. I learnt development and execution of different pipelines for genetic diseases diagnosis, that attracted my interest in bioinformatics. My Master Thesis about the role of Toll-like receptor 4 during hemolysis massive intravascular at Hospital Universitario Fundación Jiménez Díaz gave me the opportunity to improve and broaden my knowledge and experimental skills in molecular biology.

I am currently enrolled in the Computacional Biology Master at Universidad Politécnica de Madrid (UPM), where I have been able to develop and improve my skills in Artificial Intelligence, Data Science and Computer Science. I learnt different advanced methods and techniques for data analytics, programming languages (Python, R and Bash) and software tools, which I used in broad range of fields such as genomic analysis (Samtools, HTSeq, BWA), biological systems modelling, computational structural biology (Chimera) and machine learning (WEKA). I am currently doing my curricular internship in the Tissue Engineering and Regenerative Medicine (TERMeG) group in the UC3M, where I am applying analytical technologies to study the transcriptomic and metabolomic profile of epidermolysis bullosa's patients treated with mesenchymal stem cells.