Ana Karina Ballesteros Gómez

**Biologist and Computational Biologist**

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*Computational biologist interested in data science field in the biomedical research and the development of new technologies for the improvement of the health sector.*



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PROFESSIONAL PROFILE

Graduated in **Biology** in the Universidad Autónoma de Madrid (UAM) in 2022, focused on the fields of **Cell Biology** and **Genetics**. During my Degree I had the opportunity to gain training with several molecular laboratory techniques, and I started realizing the importance of data analytics as a powerful and complementary tool for the biology field. This idea was reinforced during my last year ́s Degree when I had the opportunity to work with the **Lymphoma research group of the Instituto de Investigación Sanitaria Puerta de Hierro - Segovia de Arana** (IDIPHISA). Here, I prepared DNA libraries for next generation sequencing (NGS) and carried out the bioinformatic analysis of processing and filtering of NGS databases and statistical analysis of results using R for estimating the predictive and prognostic value of circulating tumor DNA for follicular lymphoma patients.

The attraction of combining biology with data science led me to pursue the **Master´s degree in Computational Biology** at the Universidad Politécnica de Madrid (UPM). During this Master I have not only improved my skills on AI and Data Science, project management, funding opportunities and learned different bioinformatics techniques, but I understand aspects beyond biology as well as the importance of the use and development of new technologies that allow us to have the information and data more interconnected.

I am currently working on my Master's Thesis in the **imAIgene-lab group in the Instituto de Investigaciones Biomédicas Alberto Sols** (IIBM, CSIC), where I am developing a user friendly deep learning-based morphometric unmixing model for multiplex 3D imaging data using Python as the underlying programming language.