

Mónica González Alonso

She holds a degree in Biology from the University of Navarra, where she also completed a Master's degree in Biodiversity, Landscapes, and Sustainable Management and earned her doctorate. Her doctoral research focused on the descriptive analysis of airborne pollen and *Alternaria* spore profiles in Navarra, based on samples collected using three Hirst-type samplers that make up the monitoring network of the Comunidad Foral de Navarra.

Her research career has focused on aerobiological monitoring and the application of new technologies to the identification and quantification of pollen and spores. She has worked on automating monitoring processes using diagnostic imaging techniques and Deep learning—including convolutional neural networks—as well as with automatic monitoring devices.

She has undertaken research stays in Munich (Germany), where she worked with the BAA500 automatic monitor, which is integrated into Bavaria's official monitoring network. Her main lines of research include studying the impact of climatic variables on aerobiological monitoring, developing new algorithms for identifying pollen and fungal spores, and creating interpolation models to estimate pollen concentrations in areas lacking monitoring stations.