

# Alberto Montero

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## EDUCATION

Bachelor's Degree in Health Engineering, Specialization in Bioinformatics (Expected)	Sep 2021 – Jun 2025
University of Málaga	
Current GPA: 7.4/10	
Status: Pending submission of Bachelor's Thesis (TFG)	
High School Diploma – Science Track	Sep 2019 – Jun 2021
IES Torre Atalaya	
Final Grade: 9.19/10	

## RESEARCH EXPERIENCE

Research Group: "Khaos Research"	Sep 2025 – Present
University of Málaga	
• Research and development with Large Language Models (LLMs) and Semantic Web technologies (Ontologies).	
• Full-Stack web development using Next.js, React, and Tailwind CSS for research tools.	
• Integration of backend services and managing complex data workflows.	
Research Group: "Computational Intelligence and Image Analysis"	Mar 2025 – Jun 2025
University of Málaga	
• Documentation for the ISIC challenge: data acquisition, types, and technologies employed.	
• Analysis of undocumented models relevant to the challenge.	
• Review of dermatology research papers from MICCAI 2024.	

## FEATURED PROJECTS

Predictive Model for Cardiovascular Disease — Data Mining	
• Design of a predictive model based on clinical and demographic variables.	
• Repository: Heart Problems	
Predictive Model for Antibiotic Impact on Breast Cancer — Data Mining	
• Evaluation of the influence of antibiotic use on the response to neoadjuvant therapy.	
• Repository: Antibiotics and Neoadjuvant Therapy	
Aniridia and its Relationship with Other Pathologies — Systems Biology	
• Genetic and molecular analysis of aniridia and its relationship with systemic diseases.	
• Bioinformatics exploration of genotype-phenotype connections with WAGR, Gillespie, and Axenfeld-Rieger syndromes.	
• Repository: Aniridia Project	
Open Data Standards and Data Integration Project	
• Data querying and transformation from MongoDB using Python scripts.	
• Automatic generation of HTML documents via XML and XSLT.	
• Ontology modeling based on MongoDB data, explored using SPARQL.	
• Dynamic creation of RDF graphs from unstructured data.	

## LANGUAGES

Spanish: Native

English: B2 Level (Cambridge Certificate)

## TECHNOLOGIES AND TOOLS

Languages: Python, Java  
Modeling: XML, JSON, Oracle Data Modeler

Databases: MongoDB, MySQL  
Frameworks: SpringBoot, Angular, Next.js, React