Roberto **Sánchez Navarro**Data Scientist - Data Analyst



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About me

Data Scientist with a background in bioinformatics looking for real-world challenges.

I'm curious about the data, so I often take the extra step until it makes sense. Then, I like presenting it in a way that tells a story.

I'm continuously under training, learning new technologies every week, and when I pick one up, I enjoy passing that knowledge along to my peers.

Soft skills

Attentive to detail Focused on quality Good communicator Highly motivated

Areas of specialization

Data Science Data Analysis Bioinformatics Big Data

Interests

Running Cycling Hiking

EXPERIENCE

2022-2023

PhD Candidate

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Development of a python application for the detection and analysis of exopolysaccharide gene clusters in bacterial metagenomes. This entailed:

- Extensive retrieval of information from the published literature and collecting all existing genetic knowledge about the topic
- Development of a Snakemake pipeline to retrieve data for an in-depth exploratory analysis of these sequences.

This allowed me to develop the following data science skills:

- Data wrangling in python using pandas, as well in-depth knowlege of the tidy framework in R, using dplyr and purrr's functional programming toolkit.
- Visualization in python using matplotlib, altair, and other libraries specialized in visualization of biological data. In R, I mastered ggplot and its extensions for bioinformatics.
- Reporting with jupyter notebooks, RMarkdown, and dashboard development with Shiny.

2021-2022

Research Assistant

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EDUCATION

2023-2024	Big Data Analysi	s MSc. · University of Murcia 🟛	
2019-2021	Biotechnology	MSc. · Aalborg University 🏛	<u>@</u>
2015-2019	Biotechnology	BSc. · University of Murcia 🏛	
2017-2018	Exchange Year	ISEP · University of Tennessee 🏛	

TECHNICAL SKILLS

Databases	MySQL · MongoDB · HBase · Neo4j
Big Data	Hadoop • slurm • Spark • Snakemake
DB Clients	sqlalchemy · pymongo · dbplyr · happybase
Machine Learning	caret · Keras · scikit-learn · TensorFlow
Development	conda/mamba · Docker · Git
Scraping	Scrapy · BeautifulSoup · rvest
Other	regex • API integration (Requests & httr)

LANGUAGES

C1 (Advanced) + full professional proficiency
Mother tongue B1 Certificate Beginner

PROGRAMMING

