# 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**

AALBORG UNIVERSITY · Denmark 9



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**

AALBORG UNIVERSITY · Denmark 💡



Genome mining of metagenome-assembled genomes from wastewater treatment plants looking for biosynthetic gene clusters, achieving a publication as a first author: **Sánchez-Navarro et.** al, **2022** *mSystems*. 10.1128/msystems.00632-22 

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# EDUCATION

2023-2024	Big Data Analysi	s MSc. · University of Murcia 🏛	
2019-2021	Biotechnology	MSc. · Aalborg University 🏛	(e)
2015-2019	Biotechnology	BSc. · University of Murcia 🏛	
2017-2018	Exchange Year	ISEP · University of Tennessee 🏛	

# **TECHNICAL SKILLS**

Databases
Big Data
Big Data
DB Clients
Pachine Learning
Development
Scraping
Other

MySQL · MongoDB · HBase · Neo4j
Hadoop · slurm · Spark · Snakemake
sqlalchemy · pymongo · dbplyr · happybase
caret · Keras · scikit-learn · TensorFlow
conda/mamba · Docker · Git
Scrapy · BeautifulSoup · rvest
regex · API integration (Requests & httr)

# LANGUAGES

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

# Programming

