

# Paula Robles López



paumurl



my linkedin



paularobleslopez



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## Experience

Oct 2021 –

June 2022

Intern at **CBGP, Spain**

- **Automated** an HISAT2-StringTie pipeline with Bash and Python for transcriptome assembly using *Arabidopsis* RNAseq files.
- Conducted differential gene expression **analysis** in *Arabidopsis* and visualized the results using **data visualization** techniques, in R.

## Education

2022 – 2023

MSc in Data Science at **Polytechnic University of Madrid, Spain**

2018 – 2022

BSc in Computational Biotechnology at **Polytechnic University of Madrid, Spain**

Special interest in data mining, machine learning and database management.

## Professional development

2023 – 2023

Machine Learning Engineering for Production (MLOps) Specialization at **DeepLearning.AI**  
Ongoing.

2021 – 2021

MOOC: Machine Learning and Big Data for Bioinformatics at **University of Granada, Spain**  
100 hours worth.

## Projects

2023 – 2023

MSc thesis about GPT models – at **Polytechnic University of Madrid, Spain**  
Developed a custom chatbot assistant fueled by GPT models and using a REST API built with Flask. Provides a seamless user experience through a locally hosted frontend page powered by waitress

2022 – 2022

BSc thesis – Analysis of genetic determinants of turnip mosaic virus adaptation to the tolerance response in *Arabidopsis thaliana* at **Polytechnic University of Madrid, Spain**  
Provided evidence that TuMV adaptation alters the *Arabidopsis* transcriptome to its benefit, enhancing viral seed transmission and resource exploitation.

## Grants

Collaboration fellowship with University departments, 2021/2022.

## Languages

Spanish (native), English (proficient, C1) and German (basic).

## Skills

- Experienced in **Python** and **Bash**.
- Comfortable with **R**, **MySQL** and **LaTeX**.
- Familiar with **Git**, **Flask**, **Docker**, **HTML** and **CSS**.
- Basic knowledge of **Spark**, **Java**, **JavaScript**, **FastAPI** and **Django**.