Paula Robles López

paumurl · my linkedin · paularobleslopez · [redacted]

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**.