JAVIER RUBIO SERRANO

Bioinformatician interested in developing a career as **data scientist** with a significant experience of working on team and a high motivation to acquire new skills.

BIOLOGIST

COMPUTATIONAL BIOLOGIST

SKILLS

Python (pandas, sklearn, keras, tensorflow), R, SQL, SPARQL, Bash.

LANGUAGES

Spanish – Native

English – B2

CONTACT

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I graduated in **Biology** at the *Universidad Autónoma de Madrid*, specialization in molecular biology and genetics. During the last years of my career, I carried out internships and the Final Thesis Project at the School of Medicine at *Universidad Complutense de Madrid*. During this research stage I carried out the study of neurodegenerative diseases at preclinical level and the pharmacological characterization of new cannabinoid derivatives with neuroprotective potential. This internship allows me to attend multiple Biomedicine congresses, as well as the online course Fundamentals of Neuroscience at Harvard University.

Throughout my Biology Degree I became interested in bioinformatics and big data analysis, therefore, I am currently studying the Master's Degree in **Computational Biology** at *Universidad Politécnica de Madrid*. Moreover, through the Master, I have increased my knowledge in programming languages skills such as Python, R, Bash or SQL, thanks to the completion of subjects of genomic data analysis and visualization, pharmacological docking, machine learning or programmable biology.

Currently, I am doing an internship in the company **Nostrum Biodiscovery**, located in Barcelona. In this company I am carrying out ligand affinity prediction from 2D descriptors, applying screening and descriptor extraction routines in large compound databases. Furthermore, I will apply machine and deep learning models for the affinity prediction of the compounds found in the database, including the most common data science and machine learning libraries (pandas, sklearn, pytorch, keras and tensorflow).

At a later stage, I would like to continue in the field of virtual screening in drug discovery or big data analysis.