

## PROFESSIONAL PROFILE



# JAVIER GUERRERO FLORES

### CONTACTS

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I am currently studying the Computational Biology Master at the Universidad Politécnica de Madrid (UPM). I studied a Biotechnology Bachelor's Degree at the same University, specializing in the health field, taking courses as Human Genetics or Biotechnology applied to drug development. However, I also studied the Programming for bioinformatics course which help me to get into informatics thinking and realising I really love this research field.

According to my experience I did an internship in the X-ray crystallography lab from the Rocasolano Institute of Physical Chemistry (IQFR) in Madrid, where I did my final bachelor's degree thesis with Dr. Armando Albert as my supervisor. Working there I got a lot of experience about protein purification as well as protein interaction assays to determine the molecule behaviour.

Despite the fact I enjoy lab working and experimental approaches, I decided to broaden my knowledge by studying the Computational Biology Master, where I learnt about Machine Learning techniques, Genomic Analysis, Biological Systems Modelling (which was the most fulfilling field for me), Pharma and Drug discovery, etc. The Master has contributed to improve my skills in programming in different languages as well as developing a different point of view while solving biology problems by using computational technics combining with experimental research.

Currently I am working at the GBGP (Centro de Biotecnología y Genómica de Plantas) in Madrid developing different methods to analyse the possibility of predicting multidrug resistance in bacteria according to the epistasis between different genes by creating computational models in R language under the supervision of Dr. Alejandro Couce .

I am also interested in developing my machine learning skills as I believe it is a really important computational area with a high potential in the biology research field. About personal skills I consider I got good teamwork abilities with a critical thinking and always open to discuss. My creativity has also help me to have a great solve problem capacity and I am also a persistent person while facing new challenges.