

LUCÍA PRIETO SANTAMARÍA - Computational biologist focused in health data research



I graduated in Biotechnology at Polytechnical University of Madrid (UPM). I had wanted to specialize in Bioinformatics and Computational Biotechnology since I started the degree. I developed my Degree Thesis at Medical Data Analysis Laboratory (MEDAL) of the CTB (Biomedical Technological Centre of the UPM), focusing on the extraction, similarity computation and analysis of biological features for the creation of complex human networks. This work is available at <http://oa.upm.es/52568/> (1).

As I wanted to get experience in the computing environment, I am currently studying the Master in Computational Biology at the UPM. I have continued working at MEDAL laboratory and here I am developing my Master Thesis, carrying on the study in Human Diseases Networks by applying machine learning techniques in the recovered data.

The related **published works** so far are three (2–4), they deal with “network medicine” topic and “human disease complex networks”.

I plan to continue furthering my career development by starting PhD studies next year. During the past years, I have studied contents in both Biology and Informatics, integrating the knowledge that the two disciplines provide and becoming aware of the significance of using computer science for biology progress nowadays. I have gained experience in working in an informatic laboratory research team, collaborating with people coming from very diverse fields such as computer scientists, bioengineers, physicists, doctors and mathematicians. I also gained experience in writing and revising formal scientific papers.

My technical skills at computer science include programming in Python, working with databases, SQL language, ontologies and SPARQL queries, API REST programmatic access to internet resources and machine learning techniques among others.

As a future researcher, this Master is giving me the necessary tools to go deeper in the new technologies that are being used in Computational Biology in a very practical and professional way.

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References:

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