

OLEANNA GUERRA-FONT

Biologist & Bioinformatician

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ABOUT ME

Biology graduate with a master in bioinformatics and expertise in microbiology, computational biology, and high-throughput sequencing analyses. Skilled in Python, R, bash, and workflow automation, with research experience in DNA and RNA extraction, microbiota, ecology and evolution. Seeking a position in bioinformatics or a PhD opportunity in biological research.

EDUCATION

- **Master in bioinformatics** Universitat de València & ETSE | 2023 - 2025
- **Bachelor's degree in biology** Universitat de València | 2017 - 2022
Mention in Complements in Biodiversity and Conservation

WORK EXPERIENCE

I2SysBio | Univesitat de València

- Member of the Microbial Single-Cell Genomics Lab (GCIM)** Nov 2023 - Present
Working full time as a bioinformatician and microbiology researcher for the UV
- Member of the Theory, Bioinformatics and Computation Lab** Jan 2023 - Nov 2023
Extracurricular practical training as a bioinformatician and biology researcher

RESEARCH EXPERIENCE

Master's thesis project

- Created a pipeline that incorporated different algorithms to find and analyze bacterial contamination in nudibranch genomes from public databases.
- Gained expertise with the use of metagenomic binning tools.
- Created python, bash and R programs to automate the process and allow its usage in High Performance Computing (HPC) clusters.
- Results presented in national and international conferences.

Bachelor's thesis project - Xavier Gómez i Font Award for linguistic quality

- Created three-dimensional models of microfossils scanned by synchrotron computed tomography, in order to determine their evolutionary relationships.
- Applied statistical models using RStudio and SPSS to draw significative conclusions.

PUBLICATIONS AND CONFERENCES

- Alberola-Mora, Inés, et al. "Combination of Sample Preservation Approaches and DNA Extraction Methods for Long-Read Sequencing of Nudibranchs' Genomes." *Ecology and Evolution* 15.4 (2025): e71262.
- Poster presentation and flash talk. FEMS Micro in Milano (2025)
- Poster presentation. SEBiBC Congress in Valencia (2024)

SKILLS

- **Programming & Tools:** Python, R, C, Bash, Git, SQL, Avizo, and Office Suite Management.
- **Bioinformatics:** NGS analysis (RNA-seq, WGS, BLAST), genome annotation (Kraken2, Barrnap, MEGA, DB APIs), metagenomics (MetaBat2, CheckM, GTDBTk, FASTQC, Bowtie2, Quast), other omics.
- **Data Science & Statistics:** Regression models, bayesian analysis, markov models, data visualization (ggplot2, tidyverse) and interactive reporting in R (RMarkdown).
- **Lab:** DNA & RNA extractions and sequencing, culture media preparation, PCR, electrophoresis, microscopy.
- **Languages:** Spanish (native), English (advanced C2), Valencian/Catalan (B1)