Sarani NATIVEL-SANTERNE

Bioinformatician

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EXPERIENCE

Bioinformatician (Apprenticeship)   Lille, France
GD Biotech - Supervised by Mr. BONARDI Franck   *Sept. 2024 – Present*

- Conducted a research project on the Eukaryome: performed a **literature review**, compared the EUKARYOME and SILVA databases, and analyzed raw **WGS ONT** sequencing data.
- Processed various sequencing datasets (16S, WGS, ONT, Illumina) from quality control to assembly and taxonomic assignment. Worked on **phages**, **microeukaryotes**, and **bacteria**. Managed datasets >90 GB.
- Analyzed microbiome datasets and computed diversity metrics using **QIIME2** and **R** packages.
- Prepared and delivered technical reports for clients.

Bioinformatician (Internship)   Villeneuve d'Ascq, France
UMR 8198 Evo-Eco-Paleo - Supervised by Dr. LEGRAND Sylvain   *May 2023 – June 2023*

- Analyzed the presence of **insertions** in the genome of *Arabidopsis halleri* using **Python** and **R**.
- Summarized results in a **scientific poster** presented to lab members.

EDUCATION

Master's in Bioinformatics   Villeneuve d'Ascq, France
University of Lille   *Sept. 2023 – Sept. 2025*

Bachelor's in Biology of Organisms and Populations   Villeneuve d'Ascq, France
University of Lille   *Sept. 2020 – May 2023*

SKILLS

Programming & Tools: **Bash**, **Python**, **R**, **LaTeX**, PostgreSQL, **Git**, **Conda**, *familiar with Docker and Nextflow*

Statistics & Machine Learning: **Biostatistics** (Differential expression analysis, PCA, etc.), **Machine Learning** (Clustering, Classification, Regression), *familiar with TensorFlow, Keras and PyTorch*

Bioinformatics: **Sequencing data analysis** (Quality control, Assembly, Genome annotation, Taxonomy assignment), **Structural bioinformatics** (PyMol, AlphaFold), *familiar with Single-cell analysis (Scanpy, Seurat) and Multi-OMICs integration (GWAS, EWAS, Mendelian Randomization, etc.)*

Transferable Skills: Analytical thinking, research, autonomy, adaptability, curiosity

Languages: **French** (native), **English** (bilingual), Spanish (professional working proficiency), Hindi (elementary proficiency), Latin, basic knowledge of Odia

REFERENCES

Mr. BONARDI Franck: Apprenticeship supervisor, **GD Biotech** — f.bonardi@genesdiffusion.com

Dr. LEGRAND Sylvain: Internship tutor, **University of Lille** — sylvain.legrand@univ-lille.fr