Youcef BEN MOHAMMED

Junior Bioinformatician

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📅 23 years old

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📍 France

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I'm a Master's student in bioinformatics and systems biology, and I'm looking for an internship to put into practice and apply my skills in biological data processing.

Education

MSc hons in Bioinformatics and Systems Biology

09/2022 - 06/2024
University of Toulouse III Paul Sabatier Toulouse, France

Sequence alignment, Linear algebra, Multivariate data analysis, PL/SQL databases, Machine learning, Neural networks, Genomic annotation, Post-genomic data processing, Molecular modeling, Unstructured data management, Phylogenomics,
Tutored Project ~5 months:
This M1 tutored project, carried out in collaboration with the "Chromatin Dynamics and Cell Proliferation" research team at the Centre de Biologie Intégrative de l'Université de Toulouse, focused on exploring the relationship between three-dimensional genome organization and transcriptome levels. This experience enabled me to acquire skills in Hi-C data processing, ChIP-seq, RNA-seq, genomicRanges manipulation on R.

BSc in Life Science

09/2021 - 05/2022 University of Orleans Orleans, France
Specialization: Biotechnology, Molecular and Cellular Biology.
Cellular Dynamics and Differentiation, Statistical Estimates, NMR, Mass Spectrometry, Protein Crystallography, Molecular Modeling, 3D Structure of Macromolecules, Regulation of Gene Expression, Epigenetics, Inferential Statistics

BSc in Life Science

09/2018 - 05/2021 University of Tizi Ouzou, Algeria Algeria
Spicialization: Microbial Biotechnology
Bacteriology, Computer tools, Molecular biology and genetic engineering, Advanced Molecular biology techniques, Biostatistics, Enzymology, Biophysics. Metabolic and Structural Biochemistry, Mycology, Phylogeny. Simple linear regression.

Compétences

Genomic Data Analysis
NGS data processing; Genome Assembly, SNP, Proteomics, scRNAseq, RNAseq.

Maching Learning
Data Analysis & Mining: Proficiency in advanced methods of exploratory data analysis and multivariate data processing to extract accurate and relevant insights.
Data Visualization: Competence in creating informative and aesthetic visualizations to present results clearly and effectively. {ggplot2}
Machine Learning: Skills in supervised learning with algorithms such as Random Forest and Regression, as well as unsupervised learning with K-means and clustering techniques.

Social networks

in youcef-ben-mohammed

Assets

Problem-Solving

Critical Thinking

Adaptability

Creativity

Patience

Computer skills

Neo4j /Cypher

Python

Nextflow - Galaxy

R - Markdown

Unix/Bash, Mamba Environnement

SQL

Git, GitLab, Google Colab

Interests

Mountain climbing

Volunteering

Reading

Cooking

Languages

Kabyle
Mother tongue

French
C1

English
B2