

Jérémy Martin

Data Scientist for Life Science

MSc, Bioinformatics and Systems Biology

Social: [LinkedIn](#) | [Github](#) | [Web](#) | [ResearchGate](#)

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Driver Licence: A | B



Informatics Skills

- Linux / WSL2
- Python / Jupyter
- Snakemake
- R / RShiny
- Github
- Machine Learning
- SQL
- HPC (SLURM)

Bio-Informatics Skills

- Metabolomics
- Systems Biology
- AlphaFold / ChimeraX
- Proteomics
- Transcriptomics
- NGS analysis

Clinical Biology Skills

- Microbiology
- Biochemistry
- Molecular Biology
- Immunology
- Parasitology
- Hematology

Languages

- French (native)
- English (B2)
- Spanish (C1)

Hobbies

- High-Tech (hardware)
- Travel (Europe, South America)
- Motorcycle

References

- Dr Gaudenzio, Nicolas
- Dr Basso, Lilian

Works Experiences in Bioinformatics

Since 01/2021

Bioinformatics Engineer

INSERM – Toulouse Institute for Infectious and Inflammatory Disease. 6-Months Internship and Temporary Position at Dr Gaudenzio's Lab.

Data analyst as well as Data scientist:

- Valorizing Clinical data and NGS data generated in the lab.
- Reproducible analysis through Snakemake pipeline and RMarkdown analysis workflow.
- Development of algorithm for preprocessing of scRNA seq data.
- Supervision of MSc Bioinformatics interns.
- Formation of biologists and PhD student to R and scRNA seq analysis.
- Ligands predictions of orphan receptors with new AI strategies.

MSc internship

INRAE – GenPhySe

2-Months internship with T. FARRAUT

- Analysis of Hi-C data to study the impact of the organizational structure of the DNA in a phenotype of interest for bovine breeding.

07/2020 –
09/2020

Works Experiences in Clinical Biology

07/2014 –
09/2017

Clinical Technician

Various Position as clinical technician.

Working as Clinical Technician in clinical, hospital and laboratory of proximity.

- Analyzing biological samples following procedure.
- Control and quality according to standard ISO15189.
- Experience in clinical biochemistry, microbiology, immunology, histology and hematology.

Education

2019 – 2021

MSc Bioinformatics and System Biology

Université Paul Sabatier

Computational Biology, Bioanalysis, Mathematics and Data management. Introduction to machine learning, modelling and metabolomics engineering.

2017 – 2019

BSc in Biology, Biochemistry, Microbiology and Molecular Biology

Université Paul Sabatier

General overview of genetics, biotechnology, metabolism alongside biochemistry, microbiology and molecular biology.

2012 – 2014

Advanced Technician's Certificate in Medical Biology Analysis

Lycée Dr Lacroix

General learning about laboratory technics.

Publications

[Under-review] **3-D Deconvolution of human skin immune architecture with Multiplex Annotated Tissue Imaging System (MANTIS)**. Preprint available: BioRxiv; DOI: [10.1101/2023.01.13.523748](https://doi.org/10.1101/2023.01.13.523748)

[Under-review] **Single-cell landscape of mast cell populations across organs reveals insights into cell diversity in mice and humans**. Preprint available: ResearchSquare; DOI: [10.21203/rs.3.rs-1985285/v1](https://doi.org/10.21203/rs.3.rs-1985285/v1)

The neuronal tyrosine kinase receptor ligand ALKAL2 mediates persistent pain. JCI 2022, Jun 15;132(12); DOI: [10.1172/JCI154317](https://doi.org/10.1172/JCI154317)

Presentations

Single-cell landscape of mast cell populations across organs reveals insights into cell diversity. Genotoul Bioinfo Biostat Day. Talk presentation. INRAE, Auzeville (31) – 01/12/2022.

Consideration of data heterogeneity and automation of single-cell RNA seq processing. Scientific Day by Toulouse Genopole. Talk presentation. CBI, Toulouse (31) – 11/07/2022.