Matthieu Chaldebas, MSc

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EDUCATION

PhD Candidate, Bioinformatics   2022 – Present
Université Paris Cité, Paris, France
- Analysis of Sequencing Data to Facilitate the Identification of Disease-Causing 5'UTR and 3'UTR Variants.

Master of Science, Biotechnology Engineering   2016 – 2021
Sup' Biotech, Paris, France
- Bioinformatics, Biostatistics, Human Biology, Data Analysis, Machine Learning, Deep Learning.

Study Abroad Semester   4 Months – 2018
University of California, San Diego (USCD), USA
- Molecular Basis of Human Diseases, Immunology.

EXPERIENCE

Bioinformatics Assistant   2021 – Present
The Rockefeller University, New York, USA
- Operate bioinformatics pipelines for variant calling and annotation from over 26,000 WES/WGS dataset.
- Conduct bulk and single-cell RNA-seq analyses, enhancing transcriptomic insights across various projects.
- Collaborate with a multidisciplinary team to design and implement custom analytical pipelines.

Data Scientist Intern   6 Months – 2021
BioMerieux, Lyon, France
- Optimized supervised machine learning models to increase predictive accuracy for antibiotic resistance.
- Enhanced cross-validation to account for phylogenetic factors, improving model generalization.
- Implemented algorithms for novelty detection in heterogeneous datasets.

Data Engineer Intern   4 Months – 2019
CEA, Paris Saclay, France
- Managed biological datasets, performed phylogenetic analysis, and created 3D protein models

LEADERSHIP

Student Board Representative   2018 – 2022
Sup'Biotech, Paris, France
- Represented the student body in university decisions, facilitating communication between students and faculty.

Vice-President   2020 – 2021
Tech My Wine Club, Paris, France
- Led a team organizing wine tasting events, managing budget, logistics, and partnerships with local businesses.

SKILLS

Technical: WES, WGS, scRNA-seq, Python, R, Bash, High Performance Computing (HPC)
Language: French (Native), English (Fluent, TOEIC 975/990)