

I am currently a Master’s student in Bioinformatics and a trainee for the COMIC project, focusing on metabolomics and metabolism modelling. I aim to pursue a thesis on systems biology’s thematics, starting by October 2025. Following my works on metabolic discrete models of bacterial communities, I’m highly interested in the methodological aspects of biological process modelling.

- Metagenomics
 - Metabolic modelling
 - Boolean networks
- Microbial communities
 - Multi-omics integration
 - Data Analysis
- High-level programming
 - Object oriented program
 - Machine learning

PROFESSIONAL EXPERIENCES

Trainee - Metabolic modelling of bacterial community, COMIC Project Pléïade Team, Inria Bordeaux	Bordeaux, France 09/2024 - Present
• Study of bacterial interactions study in cyanobacterial community through metabolic modelling and metabolomics	
Intern - Metabolic modelling of bacterial community, COMIC Project UMR Nutrition Humaine, INRAE Clermont	Bordeaux, France 04/2024 - 09/2024
Intern - Identifying the target population for a treatment Market Access, Abbvie Pharmaceutical	Paris, France 05/2023 - 08/2023
• Identification of french target population for second-line treatment of overactive bladder	

SCIENTIFIC DISSEMINATION

Oral Talk	
<i>Talk, in revision, Journées Ouvertes de Biologie, Informatique, et Mathématiques, Bordeaux</i>	2025
<i>Flash talk, Journées Ouvertes de Biologie, Informatique, et Mathématiques, Toulouse</i>	2024
Poster	
<i>Journées Ouvertes de Biologie, Informatique, et Mathématiques, Toulouse</i>	2024
Publications	
<i>Manuscript in preparation for submission to an international journal</i>	2025

EDUCATION

Université Paris Cité MSc, Bioinformatics	Paris, France 2023 - Present
• Relevant Projects <i>Command line interface to compute protein’s solvent accessible surface</i> <i>Protein language model, phylogenetically informed multiple sequence alignment using transformers</i>	
• Thesis <i>Metagenome-scale modelling of freshwater cyanobacteria-centered community in the context of harmful blooms</i>	
Université Paris Cité Bachelor, Sciences Biomédicales	Paris, France 2020 - 2023
• Thesis <i>Partnership between the mucosal barrier, mucus, mucins, and the intestinal microbiota</i>	

TECHNICAL SKILLS

Programming

Python, R, Bash scripting, reproducible pipelines and version control (Git), CLI

Genomics and Metagenomics

Genome analysis, functional analysis (annotations, KEGG/EC enrichment), metabolic modelling (Metage2Metabo, Gapseq)

Networks and Graph Analysis

Metabolic networks (SBML), gene regulatory networks (NetworkX, Cytoscape)

Machine Learning

Supervised learning (TensorFlow, scikit-learn), interpretability (SHAP)

MISC.

Languages

French (C2), English (C1), Mandarin (A2)