# Juliette Audemard

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## Professional Experiences

**Trainee - Metabolic modelling of bacterial communities, COMIC Project** — Bordeaux, France
Pléïade Team, Inria Bordeaux — 09/2024 - 09/2025

- Study of bacterial interactions in cyanobacterial community through metabolic modelling and metabolomics
- Supervision: Dr. Clémence Frioux

**Intern - Metabolic modelling of bacterial communities, COMIC Project** — Bordeaux, France
UMR Nutrition Humaine, INRAE Clermont — 04/2024 - 09/2024

**Intern - Identifying the target population for a treatment** — Paris, France
Market Access, Abbvie Pharmaceutical — 05/2023 - 08/2023

- Identification of French target population for second-line treatment of overactive bladder

## Scientific Dissemination

**Oral Presentations**

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|---|---|
| *Talk*, Journées Ouvertes de Biologie, Informatique, et Mathématiques, Bordeaux, France | 2025 |
| *Flash talk*, Journées Ouvertes de Biologie, Informatique, et Mathématiques, Toulouse, France | 2024 |

**Poster**

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|---|---|
| Journées Ouvertes de Biologie, Informatique, et Mathématiques, Toulouse, France | 2024 |

**Publication**

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| *Manuscript in preparation for submission (expected submission, sept. 2025)* | 2025 |

## Education

**Université Paris Cité** — Paris, France
MSc, Bioinformatics — 2023 - 2025

- Relevant Projects
  *Command line interface to compute protein's solvent accessible surface*
  *Protein language model, phylogenetically informed multiple sequence alignment using transformers*
- Thesis: *Metagenome-scale modelling of freshwater cyanobacteria-centered community in the context of harmful blooms*

**Université Paris Cité** — Paris, France
Bachelor, Biomedical Sciences (Biochemistry, Infectious Agents Biology and Biostatistics) — 2020 - 2023

- Thesis: *Partnership between the mucosal barrier, mucus, mucins, and the intestinal microbiota*

## Technical Skills

**Programming**
Python, R, Bash scripting, version control (Git), CLI, logic programming (beginner level to ASP)

**Genomics and Metagenomics**
Genome analysis, functionnal analysis (annotations, KEGG/EC enrichment), metabolic modelling (M2M, Gapseq)

**Networks and Graph Analysis**
Metabolic networks (SBML), gene regulatory networks (NetworkX, Cytoscape)

**Machine Learning**
TensorFlow, scikit-learn, pytorch

## Misc.

**Awards**
Best Oral Presentation, from the *Société Française de Bioinformatique*, JOBIM 2025

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