



Valentin Goupille

Bioinformatician & Biologist

Contact

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📄 Interactive PDF :

Click on section titles for direct website access.

🧠 Skills

🖥️ Computational Biology

• Python	• R
• Bash	• HPC / Slurm
• Git	• Docker
• Neo4j	• SQL
• Nextflow	• uv / renv
• NGS Analysis	• scRNA-seq
• ML / Deep Learning	• Agentic Coding (Claude)

🧬 Life Sciences

Molecular & Cell Bio • Genetics • Wet Lab
• HT Phenotyping • Pathology

🧑‍💻 Soft Skills

Analytical Thinking • Rigor • Empathy

🌐 Languages

French: Native
English: Fluent (C1)
Spanish: Basic (B1)

🎓 Interests

💡 Scientific Watch:

Medicine & Clinical sciences • AI in healthcare

💖 Passions

🏃 **Fitness & Running:** Regular training

🌱 **Gardening & Nature:** Plant cultivation

Seeking a Position in Bioinformatics

Biologist and bioinformatician applying **data science and AI** to uncover the mechanisms underlying living systems. With a **Master's degree in Bioinformatics** and experience in **high-throughput phenotyping** and **single-cell transcriptomics**, I bridge the gap between computational tools and experimental reality. I am **actively seeking a bioinformatics position** to apply my expertise until my planned transition into **medical school in 2027**, where I aim to bring a strong analytical perspective to clinical practice and research.

📅 Professional Experience

● Clinical Observation – Medical Genetics

CHU de Rennes, Rennes

April 2026 (2 weeks)



Observed **patient consultations**, **rare diseases MDT meetings**, and **bioinformatics genomic pipelines** (Dr. H. Bouazzaoui).

● Clinical Observation – Surgical Oncology

Clinique de l'Anjou, Angers

April 2026 (2 days)



Observed **consultations** and **breast cancer surgeries** in the **operating theater** (Dr. N. Paillocher).

● MSc Research Intern – Bioinformatics & Microbial Ecology

UMR 6553 ECOBIO, Rennes

Feb. – July 2025 (6 months)



Performed **single-cell RNA-seq analyses** to study **division of labor** within bacterial populations (*P. brassicacearum*) for the **ANR Divide project**.

● MSc Research Intern – Plant Phenotyping & Growth-Defense Trade-offs

UMR 1345 IRHS, Angers

Jan. – June 2024 (6 months)



Developed **semi-automated robotic imaging pipelines** to analyze apple tree **growth-defense trade-offs** and resistance to *Erwinia amylovora*.

● MSc Research Intern – Plant-Pathogen Interactions & Phytocytokines

UMR 1345 IRHS, Angers

May – July 2023 (3 months)



Phenotyped *Arabidopsis thaliana* resistance to the pathogen *Alternaria brassicicola* in **phytoctokine mutants** as part of the **ANR STRESS-PEPT project**.

🎓 Education

● MSc in Bioinformatics

University of Rennes 1 (Graduated with Honours)

2024 – 2025 (1 year)



Intensive program in **computer science**, **statistics**, **machine learning**, and interpretation of massive biological and **omics datasets**.

● MSc in Plant Biology – Plant Health

Faculty of Sciences, Angers (Graduated with Honours)

2022 – 2024 (2 years)



Specialized in **plant immunity**, **molecular pathology**, **microbial ecology**, **genetics**, and **scientific communication**.

● BSc in Life and Earth Sciences – Plant Biology

Faculty of Sciences, Angers (Graduated with Honours)

2019 – 2022 (3 years)



Core foundation in **cell & molecular biology**, **genetics**, **microbiology**, and **plant stress responses**.

<> Personal Projects

● Medical Studies Podcast

Generative AI • Spotify Podcast

June 2026 – Present



Personal project: Created an AI-generated **Spotify Podcast** covering the various topics (items) of the 6th-year medical residency exam, designed for learning assistance and medical popularization.

● LISA Medical Sheets – Neo4j & Quarto Book

Python • BeautifulSoup • Neo4j • Quarto

April 2026 – Present



Personal project: Structured **LISA medical sheets** into **Neo4j** to support learning, with plans to connect a local **LLM** for **GraphRAG**-based study assistance.