# Sébastien Gradit

### **Data Scientist** Bioinformatician

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### Social Network –



S. Gradit



### About Me -

PhD-trained bioinformatician from the Pasteur Institute seeking to apply expertise in data science and biological interpretation to advance research. Proven ability to leverage machine learning and statistical modeling to solve complex biological problems.

# Languages -

- English: Fluent (TOEIC 955/990)
- · French: Mother tongue

### Hard Skills ——

- · Basic programmation: Bash, Python, R, C++, HPC (Slurm, AWS)
- · Bioinformatics: Multiomics integrative analysis, Automation of mapping and genomics analysis
- · Data analysis: Data mining, interactive dashboards (Shiny, Streamlit), SQL databases
- Machine learning: TensorFlow, Keras, Scikit-learn
- · Workflow: CI/CD automation (git, Snakemake, Nextflow)
- · Containerization and deployment (Docker, Singularity)
- Web: Static (HTML, CSS)

## Soft Skills -

- Adaptability
- Communication
- · Scientific inquiry Problem solving

### **Working Experience**

DhD candidate

2021-2024

2021-202		modeling to address missing data genome contacts.
02/2020 - 08/2020	Applied machine learning to automated segmentation of	Siemens Healthcare - LIPADE, Paris echniques to xSPECT imaging for bone lesions, enhancing the object treatment monitoring compared g.
02/2019 -	Biomedical Engineer	Danone Research, Saclay

09/2019 Benchmark of bioequivalence assays, development of interactive interface for clinical trial statistical plans visualization, and machine learning methods implementation for clinical trial plan refactoring for data-driven decision-making. 05/2018 -**Biomedical Engineer** Caboma, Montréal

Design and optimization of biomechanics models within proprietary software, tailoring foot orthotics designs to individual patient morphology for improved treatment outcomes.

#### **Education**

08/2018

2021 – 2024	Regulation Spatiale des Geno	Pasteur Institute - Sorbonne University omes lab.
2019 – 2020	M.Sc. in Image Processing Advanced medical images pro	Télécom Paris - Sorbonne University ocessing and A.I.   <i>Honors</i>
2016 – 2019	Master's Degree in Engineer Bioinformatics, Medical Imag	ing (Dipl. Ing.) ISBS - ESIEE Paris ine and A.I.   <i>Highest Honors</i>

### **Publications**

Pending Hicberg: Reconstruction of genomic signals from repeated elements - BiorXiv

Gradit S., Ortion S., Larrous P., Koszul R., Cournac A.

### **Selected Scientific Communication**

2024	<b>JOBIM 2024</b> Toulouse, France Poster   Prediction of omics signals from repeated elements.
2024	<b>JeBiF@JOBIM 2024</b> Workshop   Good practices in bioinformatics.
2024	ICTE St-Malo, France Poster   Prediction of omics signals from repeated elements.
2023	<b>31<sup>th</sup> Intelligent Systems For Molecular Biology</b> Lyon, France Poster and Talk   Statistical inference of repeated sequence contacts in Hi-C maps.

### Certifications

2023	DeepLearning.AI			
	TensorFlow Advanced Techniques Specialization and Deep			
	Learning Specialization			
2023	DeepLearning.AI - Stanford			
	Machine Learning Specialization			

### **Awards**

2022 1<sup>st</sup> Prize of D4GEN Hackathon Genopole - Evry Predicting contacts between nuclear parasites and host genome