# Sébastien Gradit

#### Bioinformatician

Issy-les-Moulineaux, France

+33 6 50 84 94 62

sebastiengradit@gmail.com

# Social Network -



S. Gradit



sebgra

### 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
- Problem solving
   Scientific inquiry

# **Working Experience**

currently	PhD candidate PhD research focused on developing stati dress missing data in genomics, with appl architecture.	
02/2020 – 08/2020	Biomedical Engineer  Applied machine learning techniques to automated segmentation of bone lesions, tivity and precision of cancer treatment in to traditional SPECT imaging.	enhancing the objec-
02/2019 – 09/2019	Biomedical Engineer Benchmark of bioequivalence assays, devitive interface for clinical trial statistical planachine learning methods implementation refactoring for data-driven decision-making	ans visualization, and n for clinical trial plan
05/2018 – 08/2018	Biomedical Engineer Design and optimization of biomechanic prietary software, tailoring foot orthotics patient morphology for improved treatme	designs to individual

#### **Education**

2021 – 2024	<b>PhD in bioinformatics</b> Regulation Spatiale des Geno	Pasteur Institute - Sorbonne University omes lab.	
2019 – 2020	<b>M.Sc. in Image Processing</b> 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**

2024

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

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

## **Selected Scientific Communication**

IODTM 2024

2024	JUBIM 2024 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
2023	DeepLearning.AI
	Deep Learning Specialization
2023	DeepLearning.AI - Stanford
	Machine Learning Specialization

#### **Awards**

2022	1st Prize of D4GEN Hackathon	Genopole - Evry
	Predicting interactions between nuclear parasites	and host chro-
	mosomes	