

Gabriel Pires

Bioinformatician

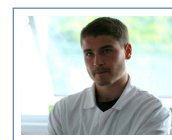
42 allée Vivaldi

75012 Paris

+33 6 59 78 23 95

✉ gabriel.pires081196@gmail.com

🐙 github.com/g-pires in [linkedin.com/in/gabriel-pires-0b263b158](https://www.linkedin.com/in/gabriel-pires-0b263b158)



Status: Currently research engineer in bioinformatics at i3 laboratory, Pitié-Salpêtrière.

Work experience

- Sept 2020–Today **Bioinformatician/Research engineer**, *i3 laboratory, Pitié-Salpêtrière*
- Gut microbiota analysis in patients with autoimmune diseases.
 - Development of processing pipelines and analysis packages.
 - Teaching courses in transcriptomics, R and linux at Sorbonne Université.
 - Supervision of two MSc students on gut microbiota analysis.
 - Submission of two scientific articles.
- Feb–July 2020 **Bioinformatician/Intern**, *Institut Pasteur*
- Genotyping data analysis in multifactorial diseases.
 - Big data analysis.
 - Development of a multivariate model using the Polygenic Risk Score.
- April–July 2019 **Bioinformatician and application integrator/Intern**, *Assistance Publique - Hôpitaux de Paris*
- Creation of a variant calling pipeline.
 - Creation and implementation of a variant calling pipeline for diagnosis.
 - Integration of the pipeline on Galaxy platform.
 - Collaboration on the development of an HMM algorithm for non-invasive prenatal diagnosis.
- May–June 2018 **Bioinformatician/Intern**, *Institute of Molecular Biology (IMB), Mainz*
- Study of the Makorin-1 protein.
 - Nucleotide and protein sequences analysis.
 - Gene usage analysis.

Computer science skills

- Languages R (advanced), Python (advanced), Bash (advanced), CSS, HTML, LaTeX, SQL, JavaScript, JAVA.
- Knowledge Creation of R and Python packages, creation of Debian packages, creation of Galaxy wrappers, creation of a ShinyR interface, administration of HPC server, machine learning, parallel programming, algorithmic, UML, database administration.
- Software RStudio, Microsoft office, Ubuntu, SublimeText, Vim, Docker, Snakemake, go-docker, Jupyter-lab.

Biology & Bioinformatics skills

- Biology Knowledge in microbiology, immunology, genomics, genetics and transcriptomics.
- Bioinformatics Processing and analysis of metagenomics data, gene expression data analysis, multivariate statistics for genomics, sequence comparison, functional and structural annotation, network and personalised medicine, modelling of biological systems.

Studies

- 2018–2020 **MSc in Bioinformatics**, *Université d'Evry Val d'Essonne, Evry*
- 2015–2018 **Double BSc in Biology and Computer science**, *Université d'Evry Val d'Essonne, Evry*
- 2014–2015 **First year of medicine**, *Paris Descartes, Paris 5*

Interests

- About me Work in group, autonomy, scientific curiosity, rigour, motivation, autodidact
- Languages French (native), English (experimented), Spanish (intermediary), Portuguese (notions).
- Reading J.K. Rowling, J.R.R. Tolkien, George R.R. Martin, Franck Herbert, Isaac Asimov, Sun Tzu, Albert Cohen.
- Sports Football, Handball, Basketball, Alpine skiing (competition), Swimming, Thai boxing.