



Basile PAJOT

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Languages

- French (Native speaker)
- English (Fluent)
- Spanish (Intermediate)

Computing

- GitHub: [PAJOT-Basile](#)
- Pack Office
- RStudio, Visual Studio Code
- QGis
- Zotero
- Seaview, MegaX, BioEdit
- Informatic languages: Bash, R, Python

Skills

- Data analysis and modelling
- Experimental protocol designing
- Experimental rigor
- Genetics, ecophysiology, ecology and evolution
- Cluster programming
- Teamwork
- Oral and written comprehension

Other Experiences

- Associate Data Scientist. Certification from DataCamp
- Former manager and captain of the Institut Agro Montpellier volley-ball team

Papers

- The Site/Group Extended Data Format and Tools:
<https://doi.org/10.1093/gbe/evae011>
Julien Y Dutheil, Diyar Hamidi, Basile Pajot (2024)

Education

Higher School of Agricultural Engineering

L'Institut Agro Montpellier (France)

- September 2023 - December 2023 (S9)
Double diploma with the University of Montpellier: Biology, Ecology and Evolution, option DARWIN: Courses on research in ecology, evolution, and population genomics.
- September 2022 – August 2023
Gap year to work in different labs in Europe to get more experience in research and marine biology.
- February 2022 – April 2022 (S8)
Plant Sciences Course: specialisation in genetics and plant-interactions. Classes were taught in English.
- September 2021 – January 2022 (S7)
Junior Research Lab for Agricultural Transition Course: International classes and research group. Classes were taught in English.
- September 2020 – June 2021 (S5-6)
First year of common classes of agricultural engineering.

Preparatory Class BCPST

Lycée Montaigne – Bordeaux (France)

- 2017 – 2020

High School graduation with High Honors, English European Section

Experiences

Marine Biology/Bioinformatics Internship – Roscoff Marine Biology Station – University of Sorbonne – Roscoff (France)

- January – Today
Parallel divergence and reproductive barrier coupling between *Littorina fabalis* ecotypes in repeated hybrid zones: Sweden and France.

Bioinformatics – EvolutionsGenetiks – Max Planck Institute – Plön (Germany)

- March – June 2023
Construction of a database of protein sequences and 3D structures to identify substitution events at large scales. Work on High Performance Computing clusters.

Marine Biology Internship – Tjärnö Marine Laboratory – Gothenburg University -Tjärnö (Sweden)

- September – December 2022
Helping with the experimental setup design and the carrying out of experiments to study the impact of climate change on flat oysters (*Ostrea edulis*).

Bioinformatics – MRU AGAP and CBGP in INRAE Montpellier (France)

- May – August 2022
Writing and execution of pipelines on online pipelines allowing to analyse collected environmental DNA in a wheat field. Work on an HPC cluster.

Research Project

L'Institut Agro Montpellier in association with l'Institut de Recherche pour le Développement Montpellier (France)

- September – December 2021
Research project considering the interactions between nematodes (*Meloidogyne graminicola*) and a bacterium (*Pseudomonas baetica*) in suppressive soils. Designing of the reflection steps and the experimental protocols. A scientific article was written in English.

Passions

- Sports in Clubs: surf and volley-ball (competition)
- Violin: Brevet d'Études Musicales (Graduation diploma of musical studies) in the Conservatoire Régional de Bayonne and chamber music.
- Amateur sport practice: soccer, running (Bordeaux marathon relay).