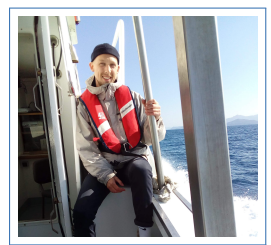


François Leroy

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[GitHub](#) ([FrsLry](#))



Macroecology/Modelling PhD student at [CZU](#), Prague
Supervised by [Dr. Petr Keil](#)

Education

- 2020–2024 **PhD. Modeling spatio-temporal biodiversity changes across scales**
Ongoing *Faculty of Environmental Sciences, CZU, dept. of Applied Geoinformatics and Spatial Planning, Prague.*
- Modeling biodiversity using **machine learning**, **frequentists** and **bayesian** methods
 - Programming** (using R, MySQL, Julia, LaTeX)
 - English **communication** skills (both oral and writing)
- 2018–2020 **Marine Sciences MSc, Sorbonne University, Paris (France, graduated September 2020).**
Numerical Ecology, modelling, geostatistics, GIS, oceanography, marine ecology, biogeochemistry, database management
- 2017–2018 **3rd year of Bachelor of Science, South Brittany University, Vannes (France).**
Specialized in Coastal Ecosystems and Management, **GIS**
- 2015–2017 **1st and 2nd year of Bachelor of Science, Rouen Normandy University, Rouen (France).**
Specialized in Botanic

Internships

- 2020 **Community modelling, DYNECO-LEBCO, IFREMER, Brest (France),**
(6 months) Dr. M. Marzloff, Dr. S. Dubois, Dr. A. Boyé, in collaboration with P. Wu (QUT, Australia).
- Objective:** develop a simulation tool to assess dynamic communities accompanying biogenic reefs built by *Sabellaria alveolata* (Linnaeus, 1767) (honeycomb worm)
 - Explore the community topology using **qualitative modelling** (Dambacher *et al.* 2002, Marzloff *et al.* 2016)
 - Infer a **Dynamic Bayesian Network** (BN) from a large database ([REEHAB project](#))
- 2019 **Numerical ecology study, UMR BOREA - MNHN - LOCEAN, Paris (France),**
(2 months) MC. Céline Ellien, MC Stéphane Pous.
- Objective:** spatiotemporal recruitment variability of *Sicyopterus lagocephalus* (Pallas 1770) (Teleostei : Gobiidae : Sicydiinae), amphidromous species of the Indian Ocean
 - Pelagic Larval Duration (PLD) determination by otolithometry
 - Statistical analysis** to observe spatial (rivers) and temporal (season/year) differences of those PLD
 - Larval dispersion **modelling** using the Ichthyop lagrangian model in backward to assess larval provenance
- 2018 **Ecological study, Géoarchitecture Laboratory, Vannes (France),**
(2 months) Pr. Philippe Maes.
- Objective:** use the opportunistic feature of the European shag to assess fish biodiversity
 - Rejection pellets dissection and harvesting
 - Fish identification using otoliths, data analysis
- 2017 **Mapping, Photogrammetry, Géosciences Océans Laboratory, Vannes (France),**
(5 months) Dr. Guillaume Brunier.
- Objective:** study the coastal dynamic of a beach in order to distribute sediment at the most relevant place
 - Three dimensional modelling of a beach to observe its evolution
 - Production of DEM (*i.e.* Digital Elevation Model) to exploit in **GIS** software

Computer skills

- Basic Python, Julia, Linux, MATLAB, HTML5
- Intermediate MySQL, Creative Cloud, QGIS, ArcGIS, LaTeX
- Advanced R, Microsoft Windows, OpenOffice, Agisoft Metashape

Languages

French (mothertongue), English (fluent speaking, reading, writing), Spanish (basic)