



Camille Magneville

PHD IN FUNCTIONAL ECOLOGY

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Scientific diver
Driving licence

EDUCATION AND PROFESSIONAL BACKGROUND

POSTDOCTORAL RESEARCHER IN MACROECOLOGY September 2023 - August 2026

- **Topic:** Exploring the drivers of current patterns of diversity facets in Euro-Mediterranean forests and their expected trajectories in a near future
- Aarhus University (Denmark), Ecoinformatics and Biodiversity - Center for Ecological Dynamics in a Novel Biosphere
- **Supervisors:** Alejandro Ordonez (Assoc. Professor - Aarhus University), Jens-Christian Svenning (Professor - Aarhus University), Kent Olsen (Head of Research and Collections - Aarhus Natural History Museum)

PHD THESIS IN MARINE ECOLOGY September 2019 - June 2023

- **Topic:** Importance of fish functional diversity for the functioning of coastal marine ecosystems
- Competitive excellence PhD grand (110 000 € for three years)
- Montpellier University (France), MARBEC Lab
- **Supervisors:** Sébastien Villéger (CNRS Montpellier) and Thomas Claverie (CUFR Mayotte)
- 6 articles first author

ENGINEER DIPLOMA AND MASTER DEGREE September 2016 - June 2019

- Agronomic engineer diploma at Agrocampus Ouest Rennes Graduate School, Rennes (France)
- Research Master diploma "Functional, Behavioral and Evolutive Ecology" at the Rennes University (France) (courses in english)

MASTER 2 INTERNSHIP IN BIOGEOGRAPHY January 2018 - June 2019

- **Topic:** Conservation planning of insular mammals biodiversity facets
- Paris-Sud University (France), Systematic Ecology and Evolution Lab
- **Supervisors:** Dr Céline Bellard et Dr Camille Leclerc
- 1 article second author

MASTER 1 INTERNSHIP IN BEHAVIORAL ECOLOGY September 2017 - January 2018

- **Topic:** Study of the sibling cooperation in a burrying beetle
- Edinburgh University (Scotland), Institute of Evolutionary Biology
- Supervisor: Dr Per T. Smiseth
- 1 article 1st author

SKILLS

COMPUTER SCIENCE

- Reproducible R programming (building R packages, literate programming, creating websites)
- Mapping in R
- Code collaboration using Git & Github
- GIS Basics (with QGIS)
- SQL Basics

NUMERICAL ECOLOGY

- Functional and phylogenetic diversity analyses
- Structural Equation Modeling
- Species-Area Relationships
- Generalised and simple linear models
- Multivariate analysis
- Null models

FIELD WORK

- Scientific diver (CAH 0B) and N2 FFESSM
- Ecological inventories (amphibians, birds, flora)
- Preparation and execution of two field campaigns (Mediterranean Sea and Indian Ocean) for underwater cameras setting and biological samplings

LANGUAGES

- French (native)
- English (fluent)
- German (beginner)
- Spanish (beginner)

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SUPERVISION & TEACHING EXPERIENCE

STUDENTS SUPERVISION

- Bachelor: 18 students - Video annotations and analysis with R
- Master 1:
 - [Marie Lou Leréec](#) "Effect of invasive species on native herbivores grazing activity in the Mediterranean sea" (2019)
 - [Solène Dedieu](#) "Effect of protection levels on taxonomic, phylogenetic and functional facets of diversity" (2021)
 - [Capucine Brissaud](#) "Improving species abundance estimation using a network of cameras" (2022)

TEACHINGS

- 202 hours - University of Montpellier (France) in french
 - Degrees: Bachelor and Master
 - Topics: Biology of Organisms, Functional Ecology, Description of data variability, Biostatistics and R coding
 - Type of teachings: lectures, tutorial groups, practical work
- 15 hours - University of Aarhus (Denmark) in english
 - Degree: Bachelor
 - Topic: Research in Theory and Practice
 - Type of teaching: Supervision of a student team on a research project build for this course

PRESENTATIONS & WORKSHOPS

- "Exploring diversity dimensions to protect Euro-Mediterranean forests" - **International Biogeography Society (2024) - poster** (Prague - Czech Republic)
- "A new framework based on synchronised cameras to measure fish abundance" - **International Coral Reef Symposium (2022) - oral presentation** (Bremen - Germany)
- "Tropical exotic fish are key herbivores in the Mediterranean sea" - **International Coral Reef Symposium (2021) - oral presentation** (Remote)
- "Presenting the mFD package" - **R Meetings 2021** (Remote) - oral presentation ([link](#))
- Workshop on the mFD package at the conference "From Species to Functions" - **FRB (2022)** (Montpellier - France)

SCIENCE POPULARISATION

- Conducted a workshop on the use of artificial intelligence to explore ecosystem functioning for World Oceans Day aimed at primary school classes (Co-facilitated with Valentine Fleuré) (UMR MARBEC - Sete)
- Followed the training and participated to the Three Minutes Thesis regional contest. [Speech online](#) (french) - March 2022
- Participated to the premiere of the documentary series Insignificant (Arte) realised by par Franck Courchamp and Clément Morin to answer questions from visitors to the "Forum des Images" (Paris - France) - March 2019

REFERENCES

- Dr **Ordóñez Alejandro**: Associate Professor at the University of Aarhus (Denmark) (alejandro.ordonez@bio.au.dk)
- Dr **Villéger Sébastien**: Chargé de recherche CNRS at the MARBEC lab (Montpellier University) (sebastien.villeger@cnr.fr)
- Dr **Bellard Céline**: Chargée de recherche CNRS at the Systematic Ecology and Evolution lab (Paris-Sud University) (celine.bellard@universite-paris-saclay.fr)

Scientific Outputs

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PUBLICATIONS

Number of citations: 138 - H Index: 5

2024

- Magneville et al. (2024) 'A new framework for estimating abundance of animals using a network of cameras' *Limnology and Oceanography - Methods*
- Magneville et al. (2024) 'Detecting benefits of protection level in a sea of temporal scarcity' *Aquatic Conservation*

2023

- Magneville et al. (2023) 'Remote video surveys unveil the diurnal variability of trophic-based processes by fishes on coral reefs' *Coral Reefs*
- Villéger, Magneville, Roncin, Retailleau and Claverie (2023) 'Remote underwater video revealed reef fishes reaction to a submarine magnitude 5 earthquake' *Ecology - Scientific Naturalist*

2022

- Magneville et al. 2022 'mFD: an R package to compute and illustrate the multiple facets of functional diversity' *Ecography* DOI: <https://doi.org/10.1111/ecog.05904>
- Magneville et al. 2022 'Long-duration remote underwater cameras reveal that grazing by fishes is highly variable through time and dominated by non-indigenous species' *Remote Sensing in Ecology & Conservation* DOI: <https://doi.org/10.1002/rse2.311>

2021

- Leclerc, Magneville and Bellard 2021 'Multidimensional diversity approach to explore endemic mammal priorities on insular regions' *Diversity and Distribution* DOI: <https://doi.org/10.1111/ddi.13441>

2018

- Magneville et al. 2018, 'No evidence of sibling cooperation in the absence of parental care in *Nicrophorus vespilloides*' *Evolution* DOI: <https://doi.org/10.1111/evo.13622>

SUBMITTED MANUSCRIPT

- Richardson, Magneville, Grange, Shepperson, Skov, Heenan (submitted) 'Reorganisation following disturbance - multi-trait-based methods in R'

REVIEWER WORK

- Ecology Letters (2 papers)
- Journal of Biogeography (1 paper)
- Global Change in Biology (1 paper)