Camille Magneville

PH.D
IN FUNCTIONAL ECOLOGY

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Scientific diver
Driving licence

EDUCATION AND PROFESSIONAL BACKGROUND

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 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, litterate programming, creating websites)
- Mapping in R
- Code collaboration using Git
- GIS Basics (with QGIS)
- SQL Basics

NUMERICAL ECOLOGY

- Functional and phylogenetic diversity analysis
- Species-Area Relationships
- Generalised and simple linear models
- Multivariate analysis
- Null models

FIELD WORK

- Scientific diver (CAH 0B) and N2 FFESSM
- Ecological inventaries (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)

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 during my Ph.D.
- 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

Scientific Outputs

PUBLICATIONS

Number of citations: 48 - H Index: 3

- **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
- 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
- **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-indigeneous species' **Remote Sensing in Ecology & Conservation** DOI: https://doi.org/10.1002/rse2.311

SUBMITTED MANUSCRIPTS

- **Magneville** et al. (review) 'A new framework for estimating abundance of animals using a network of cameras' **Limnology and Oceanography - Methods**
- **Magneville** et al. (submitted) 'Detecting benefits of protection level in a sea of temporal scarcity" **Aquatic Conservation**
- **Magneville** et al. (review) 'Remote observations revealed effects of fully protected area on contribution of fishes to trophic-based processes' **Coral Reefs**
- Villéger, **Magneville**, Roncin, Retailleau and Claverie (review) 'Remote underwater video revealed reef fishes reaction to a submarine magnitude 5 earthquake" **Ecology - Scientific Naturalist**

PRESENTATIONS

- "Presenting the mFD package" - R Meetings 2021 (Remote) (online presentation: link)
- "Tropical exotic fish are key herbivores in the Mediterranean sea" International Coral Reef Symposium (2021) (Remote)
- "A new framework based on synchronised cameras to measure fish abundance" - International Coral Reef Symposium (2022) (Bremen - Germany)
- Workshop on the mFD package at the conference "From Species to Functions" - FRB (2022) (Montpellier - France)

SCIENCE POPULARISATION

- Followed the training and participated to the Three Minutes Thesis regional contest. Speach 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 Villéger Sébastien:** Chargé de recherche CNRS at the MARBEC lab (Montpellier University) (sebastien.villeger@cnrs.fr)
- **Dr Céline Bellard**: Chargée de recherche CNRS at the Systematic Ecology and Evolution lab (Paris-Sud University) (celine.bellard@universite-paris-saclay.fr)