

## PERSONAL INFORMATION




## Elisabeth Riera

 38 rue André Theuriet, 06100 Nice (France)

 (+33) 660 485 160

 riera.elisabeth13@gmail.com

 [https://www.researchgate.net/profile/Elisabeth\\_Riera2](https://www.researchgate.net/profile/Elisabeth_Riera2)

Sex Female | Date of birth 21 Feb 1987 | Nationality French

## WORK EXPERIENCE

15 Mar 2020–Present

## Post Doc

University Côte d'Azur, Nice (France)

- Development of the use of a hyperspectral camera in the Mediterranean context.
- Hyperspectral camera analysis of epibenthic communities of different generations of artificial reefs.
- Analysis of the effect of artificial reefs on the production and sedimentology of the 3D reef site.

Oct 2016–Jan 2020

## PhD Student

UMR 7035 ECOSEAS - UCA / UMR 7208 BOREA - MNHN, Nice (France)

Artificial reefs, habitat structure and biofouling expertises

Sep 2017–May 2019

## Teaching assistant

University of Nice Sophia Antipolis, Nice (France)

- Tutor in the biology of the organisms (animal & vegetable kingdoms) and evolutionary biology.
- Lecturer in ecology on topics related to the biodiversity

Feb 2016–Jun 2016

## Intern - Master thesis

UMR 7208 BOREA, Paris (France)

Characterization and comparison of microbial diversity and extracellular polymeric substances of biofilm on different materials of artificial reefs.

Jun 2015–Jul 2015

## Volunteer

UMR 7208 BOREA, Paris (France)

Study of surface biofilms and their impacts on the production of *Dicentrarchus labrax* in aquaculture farms.

Jun 2014–Jul 2015

## Scientific guide

Oceanographic Museum of Monaco, Monaco (Monaco)

Scientific animations about the marine world, its biodiversity (Mediterranean and tropical species) and its threats.

Apr 2015–May 2015

## Inter

UMR 7618 iEES, Paris (France)

Trophic study of the invasive species *Neogobius melanostomus* and its potential for covering a trophic niche on native species from Lorraine.

- Jan 2014–Jun 2014 **Volunteer**  
 Lab. ECOMERS (Univerity Nice Sophia Antipolis), Nice (France)  
 Identification of fishes in video data as part of a thesis dealing with the monitoring of protected marine areas.
- Jun 2012–Aug 2012 **Intern**  
 Museum d'Histoire Naturelle d'Aix-en-Provence, Aix en Provence (France)  
 Restoration, phylogenic determination, computerization, and digitization of algal herbarium.
- Jul 2009–Jul 2012 **Hostess**  
 Festival of Lyric Art of Aix en Provence (France)

EDUCATION AND TRAINING

---

- 2020 **Ph.D. in Environmental Science** EQF level 8, with the congratulations of the jury  
 EDSFA - Université Côte d'Azur, Nice (France)  
 Dissertation title: "Towards a purposeful construction of a new generation of artificial reefs: Comparative analyses of the intrinsic factors favouring their colonization from micro to macro-scale"
- 2018–2019 **Training in higher education professions**  
 EDSFA - University Cote d'Azur, Nice (France)  
 preparation of practical work and lecture  
 use of educational tools  
 handling difficult situations  
 know how to put your voice and your attitude
- Jul 2018 **DiveRay prototype training program**  
 PlanBlue GmbH, Bremen (Germany)  
 Manipulation of the DiveRay prototype for monitoring aquatic beds.
- May 2018 **MarCons COST Action**  
 University of the Aegean, Mytilene, Greece, Mytilene (Greece)  
 Introduction to Marxan software with emphasis on connectivity.
- 2014 **Master's degree in Evolution of Natural Heritage and Society** EQF level 7, with first-class honours  
 National Museum of Natural History of Paris, Paris (France)  
 Biodiversity and functioning of ecosystems - Ecological engineering.
- Jul 2014 **Summer school "Plankton diversity & ecology in Mediterranean sea"**  
 Univeristy Pierre and Marie Curie, Villefranche sur mer (France)  
 Systematics of the plankton groups, output at sea, sampling, evaluation of the plankton's diversity and migration.
- 2012 **Bachelor's degree in science of life and health** EQF level 6, with upper second-class honours

University Nice Sophia Antipolis, Nice (France)  
Biology of the organisms and environment.

2009 Higher National Diploma in local tourism

EQF level 5, with upper second-class honours

Lycée Charles Péguy, Marseille (France)

2005 Level A in Economics and Social Science

EQF level 2, with upper second-class honours

Lycée Saint Charles, Marseille (France)

PERSONAL SKILLS

Mother tongue(s) French

Foreign language(s)

|         | UNDERSTANDING |         | SPEAKING           |                   | WRITING |
|---------|---------------|---------|--------------------|-------------------|---------|
|         | Listening     | Reading | Spoken interaction | Spoken production |         |
| English | C1            | B2      | C1                 | B2                | B2      |
| Spanish | A1            | A2      | A1                 | A1                | A1      |

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user  
[Common European Framework of Reference for Languages - Self-assessment grid](#)

Communication skills

Good communication skills gained through :

- my experience in teaching during my Ph.D. as a tutor and as a lecturer.
- my diverse intervention with the media to communicate on my thesis work.
- my experience as a scientific animator.
- my experience as a hostess at the Festival d'art lyrique

Organisational / managerial skills

Good organizational skills gained through :

- The planning of my fieldwork and my lab work.
- The organization of the Ph.D. day of my lab

Good managerial skills gained through my experience in supervising 4 students during my Ph.D.

Job-related skills

- Scientific diving skills gained through my experience of monitoring during my PhD thesis.
- Good knowledge of artificial reefs and habitat structure through my PhD thesis.
- Taxonomical identification of the epibenthos
- Characterization of biofilms (communities and extracellular matrix) through diverse techniques gained through my Master and PhD experiences:
  - Gaz Chromatography on amino acids and fatty acid
  - High Liquid Performance Chromatography on pigments
  - DNA extraction, PCR and TRFL-P on bacteria
  - Colorimetry on Extracellular Polymeric Substances
  - Imaging Pam
  - Hyperspectral camera

Digital skills

SELF-ASSESSMENT

| Information processing | Communication   | Content creation | Safety     | Problem-solving  |
|------------------------|-----------------|------------------|------------|------------------|
| Proficient user        | Proficient user | Basic user       | Basic user | Independent user |

Digital skills - Self-assessment grid

- Independant user of 3D software (Cloud compare, Meshlab, Tinkercad, GMSH)
- Independant of office suite
- Independant user of R
- Basic user on Latex
- Basic user on Linux
- Basic user on Marxan software
- Basic user on GIS software (Arcgis and Qgis)

**Other skills** Teaching skills gained through my experience as a tutor and lecturer for bachelor's student at the University of Nice Sophia Antipolis.

ADDITIONAL INFORMATION

**Certifications**

- Coastal Boat Licence
- Certificate of scientific diving CAH 2B (diving up to -50 m)

**Publications**

E. Riera, D. Lamy, C. Goulard, P. Francour & C. Hubas. *Biofilm monitoring as a tool to assess the efficiency of artificial reefs as substrates: toward 3D printed reefs*. Ecological engineering, 2018

C. Delnatte, E. Riera & T. Thibault. *Restauration, détermination, informatisation et numérisation de l'herbier d'algue de Jean Callé*. Bulletin de la Société Linnéenne de Provence, 2013

**Seminars**

E. Riera, C. Reveret, C. Madelaine, R. Pinel, V. Mahamadaly, J. Debernardi, B. Mauroy, C. Hubas & P. Francour. *An easy method to assess 3D underwater habitat complexity*. 5th European Conference on Scientific Diving, Institute of Oceanology, Polish Academy of Sciences, Sopot (Poland), Apr 2019

C.Hubas, E.Riera, P. Francour & D. Lamy. *La formation de biofilm comme bioindicateur de la qualité des substrats de récifs artificiels*. 11th Colloque Biofouling & Antifouling, Université de Toulon (France), May 2017

J. Debernardi, P. Francour, E. Riera, E. Dini, C. Hubas, D. Lamy & L. Jamie. *The 3D-printed artificial reefs, a modern tool to restore habitats in marine protected areas. The Larvotto-Monaco context*. International Marine Protected Areas Congress 4, Ministry of the Environment of Chile, IUCN and the WCPA, La Serena – Coquimbo (Chile), Sep 2017