

## SERENA FELLINE

[felline@conisma.it](mailto:felline@conisma.it)

### Biosketch

2004 - Three-year experimental degree in Environmental Sciences and Technologies with a thesis entitled: "Detection of phenols using active layers based on porphyrin macrocycles". Tutor Prof. Ludovico Valli, co-tutor Dr. Livia Giotta

2007 - Experimental master's degree in Impact Assessment and Environmental Certification at the University of Salento, with a thesis entitled: "Effect of offshore mining on the diversity of soft bottom malacofauna". Tutor: Prof. Antonio Terlizzi

2011 - PhD in Fundamental Ecology XXIII cycle (University of Salento). PhD thesis: "Marine seaweed invasions: effects of pest secondary metabolites from *Caulerpa racemosa* on mediterranean biodiversity". Tutor: Prof. Antonio Terlizzi.

2013 - Training Course "Biochemical biomarker techniques for the assessment of pollution effects in marine organisms", 13 - 31 May 2013, Anavyssos, Greece.

### Research and career advancement

2007 - Collaboration for services provided as part of the activities for the characterization study of soft bottom benthic populations for ANTHEUS S.R.L.

2008/2009 - Post-graduate scholarship within the ACTIBIOMAR project "Extraction of active ingredients from marine biomass and their potential use in pharmaceuticals and dietetics" at the University of Salento, Lecce.

2012/2016 - Research fellow at the Laboratory of Zoology and Marine Biology, Department of Biological and Environmental Sciences and Technologies (DiSTeBA), University of Salento, Lecce, Italy.

2017 - Contract Researcher at CoNISMa, Department of Life Sciences (DiSV) - University of Trieste, Italy

### Awards and acknowledgments

2011 - Marchetti Award for the best oral communication at the XXI Congress of the Italian Society of Ecology (SIte).

2012 - UZI Award for young researchers at the 73rd Congress of the Italian Zoological Union.

### Research

Her research activity focuses on understanding and evaluating the processes and interactions between invasive species and native populations. In particular, he is currently involved in evaluating the effect of secondary metabolites produced by invasive species on biodiversity and fish populations in the Mediterranean. She acquired the techniques for the characterization of active ingredients of natural origin, participating in the ACTIBIOMAR project: "Extraction of active ingredients from marine biomass and their potential use in pharmaceuticals and dietetics". She spent several months at the CNR Institute of Biomolecular Chemistry in Pozzuoli to deepen the techniques for extracting metabolites from macroalgae and fish. She collaborated with the Department of Biochemistry, Biology and Genetics of the Polytechnic University of Marche for the analysis of the main detoxification and metabolization systems and the evaluation of the onset of various forms of toxicity in experimental animal models by metabolites produced by species invasive. She collaborated on the Eni-Biodiversity project, "Biodiversity of the benthic populations of the Ionian Sea in relation to off-shore mining" and the "REPORT" project (Reduction of Epibiosis through the Polyculture of Oysters and Urchins in the Taranto Seas). She participated in the multidisciplinary scientific research programs PRIN-2009 "*Caulerpa racemosa* and *Diplodus sargus*: a model for an integrated study of invasive pest metabolites impact on Mediterranean coastal marine systems (CAUDIP)" and PRIN-2012 "CAUsative Links between Exotic algal metabolites and cellular and molecular Responses in

native marine FISH species (CAULERFISH) ". She took part in international research projects (Life + Clean Sea Life, FP7 PERSEUS). Her research activity is currently also focusing on the effect of marine litter in the marine environment, in particular on the impacts caused by micro- and nano-plastics on Mediterranean fish populations. She have participated in educational activities in the academic field with seminars and thematic lessons at national and international level.

## **Publications**

**ORCID:** <https://orcid.org/0000-0003-1221-7306>

**Scholar:** <https://scholar.google.it/citations?user=J3zwkPQAAAAJ&hl=it>