

# Curriculum Vitae et Studiorum: Paolo Guidetti

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## Personal information

First name/Surname: Paolo Guidetti

Date of birth: May, 31st, 1969

Gender: male

Military service: accomplished

## Work address and contacts

Laboratoire Ecosystemes Cotiers Marins et Reponses aux Stress (ECOMERS FRE 3927/UMR 7035 CNRS-UNS), Université Nice Sophia Antipolis, Parc Valrose, 28 avenue Valrose, 06108 Nice Cedex 2, FRANCE

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# Scientific interests and competences

## General fields of interest and competence

- 1) species interactions, marine biodiversity and ecosystem functioning;
- 2) conservation ecology and marine protected areas (MPAs);
- 3) fish ecology;
- 4) sustainability and equitability of fisheries and sea food consumption;
- 5) natural history observations and experimental protocols (sampling designs, statistics);
- 6) socio-ecological, cultural and historical aspects of fish and fisheries.

## Specific fields of interest and competence

- 1) climate change (water warming, acidification) and marine species and communities;
- 2) life histories (nursery and spawning areas) and connectivity (from eggs to adults) of marine fishes;
- 3) multistress assessments in Mediterranean ecosystems (overfishing, noise, pollution, habitat degradation);
- 4) assessments of the multiple effects of MPAs and their networks, within and outside their borders;
- 5) management of MPAs and small-scale fisheries;
- 6) ecology of rocky reefs, marine caves, macroalgal beds and *Posidonia oceanica* meadows;

## Education and career

- 2012-present:** Full Professor of Ecology at ECOMERS lab, University Nice Sophia Antipolis (Nice), France.
- 2007-2012:** Researcher in Zoology (research and teaching) at the Department of Biological and Environmental Sciences and Technologies (DiSTeBA), University of Salento (Lecce), Italy.
- 2004-2007:** Post-doc position at the Laboratory of Marine Biology and Zoology, University of Lecce for research on trophic cascades in Mediterranean rocky reef communities and marine reserves.
- 2004:** CNR-NATO senior fellowship at the Institute of Oceanography and Fisheries, Split (Croatia), for research about "Fish predation on sea urchins, *Paracentrotus lividus* e *Arbacia lixula*, in littoral rocky habitats" in collaboration with Dr. J. Dulcic (Lab. Ichthyology and Coastal Fishery).
- 2004:** PhD in 'Fundamental Ecology' at the University of Lecce (tutor: Prof. F. Boero) with a Thesis entitled: 'Top-down control in shallow rocky-reef communities in the Mediterranean Sea'.
- 1996–1998:** CNR (National Research Council) fellowship at the Laboratory of Benthic Ecology (Stazione Zoologica 'A. Dohrn', Naples, Italy) in the frame of the national program PRISMA II (Research Program on Protection of the Adriatic Sea), for research on Adriatic seagrass systems.
- 1994:** University degree (*Laurea*) 110/110 in Biological Sciences, University of Genoa (Lab. Marine Biology and Animal Ecology). Thesis: *Ecological observations on mollusks of the artificial reef of Loano (Italy)*.

### Visiting scientist

- 2016:** Visiting Scientist (competitive project selection) at University of Cagliari (Italy) for research (in collaboration with Prof. A. Cau) on fish communities in MPAs and Natura 2000 sites around Sardinia Island (May 25th-July 23th, 2016).
- 2003 and 2004:** Visiting scientist at Scripps Institution of Oceanography (Center for Marine Biodiversity and Conservation, University of California, San Diego, USA) for collaboration with Prof. E. Sala in the framework of research on the effects of marine reserves on coastal ecosystems.

### Professional experiences before the first academic position

- 2005:** Research contract at Dip.Te.Ris. (University of Genoa) for research on reserve effect at the Marine Protected Area of Tavolara-Punta Coda Cavallo (Italy) using visual census on fish.
- 2004:** Research contract at Lab. Zoology and Marine Biology (University of Lecce, CoNISMa), project "MIPAF-Spillover", for research on spillover of fish from marine reserves in northern and southern Adriatic Seas.
- 2001:** Collaboration with Prof. G. Bernardi (University of California Santa Cruz, USA) for research on ecology of the thermophilous fish *Thalassoma pavo* in the Mediterranean Sea.
- 2000:** Research contract at Laboratory of Zoology and Marine Biology, University of Lecce, in the frame of the project "Interreg Italy-Albania", for research on biodiversity of rocky-reef fish assemblages in the southern Adriatic and Ionian Seas.
- 1999-2000:** Research contract with Dr. M. Vacchi (ICRAM, Rome) for sampling design and assessment of the effects of the Haven oil spill on sediments and macrobenthos in the Ligurian Sea (Italy).
- 1999:** Research contract with Prof. M. Fabiano (DIP.TE.RIS., University of Genoa): project MAT (Formation processes of mucilages in the Adriatic and Tyrrhenian Seas).

- 1999:** Research contract with Prof. G. Albertelli (DIP.TE.RIS., University of Genoa): regulatory plan project of the Port of Genoa (Italy).
- 1998:** Research contract at the Laboratory of Benthic Ecology (Stazione Zoologica 'A. Dohrn') in the frame of the project PRISMA II, for research on Adriatic seagrass systems.
- 1997-1998:** Collaboration with Dr. C.N. Bianchi (ENEA, CRAM, La Spezia, Italy) in the frame of the project SINAPSI, for research on climatic changes and thermophilic fishes.
- 1996:** Research contract with ICRAM (Central Institute for the Scientific and Technological Research Applied to the Sea, Rome; Dr. M. Vacchi) in the frame of the EUCUMM Project, for research on the fish fauna of the marine reserve of Ustica Island (Italy).
- 1995:** Oceanographic campaigns for research on pelagic environments in the NW Mediterranean (project RIMMO), CERBOM Institute (University of Nice, France).
- 1994-1996:** Research contracts (at Ligurian Centre of Fishery and Environment, Genoa) for research on: 1) trawl surveys in the Western Mediterranean Sea; 2) assessment of local fishery of the teleost *Gymnamodytes cicerellus* in the eastern Ligurian Riviera; 3) assessment of the status of the *Posidonia oceanica* bed at Moneglia (Ligurian Sea, NW Mediterranean).
- 1994-1995:** Post-graduate training at University of Genoa for research on Mediterranean seagrasses and associated animal communities.
- 1992-1994:** Trawl-survey campaigns in the Ligurian Sea (University of Genoa, Italy).
- 1992-1994:** Oceanographic campaigns (NW Mediterranean) for research on pelagic environments and Cetaceans (University of Genoa).

### **Participation to international courses**

- 2006:** Participation to the course "Detecting changes in biodiversity: experimental design and data analysis", Prof. M.J. Anderson (University of Auckland, New Zealand), Prof. L. Benedetti-Cecchi (University of Pisa, Italy), Prof. K.R. Clarke and Dr. R.N. Gorley (Primer-e, UK), 4-15 September at the University of Pisa.
- 2003:** Participation to the course "Detecting multivariate changes in biological assemblages: experimental design and data analysis", Prof. M.J. Anderson (University of Auckland, New Zealand), Prof. L. Benedetti-Cecchi (University of Pisa, Italy), Prof. K.R. Clarke and P. Somerfield (Plymouth Marine Laboratory, UK), from 26 May to 6 June, University of Lecce (Italy).
- 2000:** Participation to the course "Design and analysis of Biological Experiments: An Advanced Course", Prof. A.J. Underwood and Dr. M.G. Chapman (University of Sidney, Australia), 11-15 September, University of Lecce.
- 1999:** Participation to the course "Design and analysis of Biological Experiments", Prof. A.J. Underwood and Dr. M.G. Chapman (University of Sidney, Australia), from 24 May-4 June, University of Lecce (Italy).
- 1998:** Participation to the intensive summer course (3-26 August) "Marine Zoology and Ecology" at the Biological Station of Roscoff (France).

### **Participation to Expeditions**

- 2011:** participation to the XXVII Antarctic Italian Expedition at Mario Zucchelli Station, Antarctica (November 4<sup>th</sup> - December 8<sup>th</sup>).

## Academic titles

1999: "Cultore della Materia" in 'Ecology' and 'Applied Ecology' at the University of Genoa (Italy).

## Collective responsibilities

2017-2018: Member of the academic direction of the MARRES - MSc. in Science, Conservation & Valorisation of Marine Resources, Université Côte d'Azur.

2016-2019: Director of the Research Unit ECOMERS (FRE 3729/UMR 7035 CNRS - University Nice Sophia Antipolis, France).

2014-présent: Member of the Permanent Committee of Human Resources - Section 67 (CPRH 67) - at the Dept. of Life Sciences, University Nice Sophia Antipolis.

2010-2012: Director of the '*Laboratory of Conservation and Management of Marine and Coastal Resources*' (at the Department of Biological and Environmental Sciences and Technologies, University of Salento, Italy).

## Teaching

### AA 2018-2019 – University of Nice-Sophia Antipolis (UNS)

Responsible of the teaching units: Introduction to Ecology; Marine Ecology (in English).

### AA 2017-2018 – University of Nice-Sophia Antipolis (UNS)

Responsible of the teaching units: Introduction to Ecology; Marine Coastal Ecosystems; Marine Ecology and Biology.

Participation to other courses: Botany, systematics and phylogeny; Bibliographic stage.

### AA 2016-2017 – University of Nice-Sophia Antipolis (UNS)

Responsible of the teaching units: Introduction to Ecology; Marine Coastal Ecosystems; Marine Ecology and Biology.

Participation to other courses: Botany, systematics and phylogeny.

### AA 2015-2016 – University of Nice-Sophia Antipolis (UNS)

Responsible of the teaching units: Introduction to Ecology; Marine Coastal Ecosystems; Marine Ecology and Biology; Communication in Environment.

Participation to other courses: Botany, systematics and phylogeny.

### AA 2014-2015 – University of Nice-Sophia Antipolis (UNS)

Responsible of the teaching units: Introduction to Origin of life and Ecology; Marine Coastal Ecosystems; Marine Ecology and Biology.

Participation to other courses: Communication in Environment; Environmental risk; Bibliographic stage; Botany, systematics and phylogeny; Diversity of life.

#### **AA 2013-2014 – University of Nice-Sophia Antipolis (UNS)**

Responsible of the teaching units: Introduction to Ecology and Origin of life; Marine Coastal Ecosystems; Marine Ecology and Biology.

Participation to other courses: Communication in Environment; Statistics; Bibliographic stage; Botany, systematics and phylogeny; Diversity of life.

#### **AA 2012-2013 – University of Nice-Sophia Antipolis (UNS)**

Responsible of the teaching units: Introduction to Ecology and Origin of life.

Participation to other courses: Communication in Environment, Diversity of life.

#### **University of Salento and University of Genoa - Italy**

**2012:** lecturer for teaching the module on '**Ichthyology**' and '**Fishery biology**' within the course (in English) 'Pelagos Biology', and practicals. Degree in Coastal and Marine Biology and Ecology, University of Salento.

**2011:** lecturer for teaching the module on '**Ichthyology**' and '**Fishery biology**' within the course (in English) 'Pelagos Biology', and practicals. Degree in Coastal and Marine Biology and Ecology, University of Salento.

**2010:** lecturer for teaching the course "**Non-destructive methods for fish assessment**", Degree in Sciences and Technologies for the Environment, University of Salento.

**2009:** lecturer for teaching the course "**Non-destructive methods for fish assessment**", Degree in Sciences and Technologies for the Environment, University of Salento.

**2009:** lecturer for teaching the course "**Traditional cultures, environment and sustainable tourism**" (*learning unit* for graduate students of I level-II° year) at the 'Scuola Superiore ISUFI', University of Salento.

**2009:** lecturer for teaching the course "**Environment, living resources, landscape and culture**" (*learning unit* for graduate students of II level-I° year) at the 'Scuola Superiore ISUFI', University of Salento.

**2008:** lecturer for teaching the course "**Principles of ecology and conservation**" (*learning unit* for graduate students of I level, I° year) at the 'Scuola Superiore ISUFI', University of Salento.

**2008:** lecturer for teaching the course "**Humans and the environment: history, traditions and the sustainable use of natural resources**" (*learning unit* for graduate students of I level, II° year) at the 'Scuola Superiore ISUFI', University of Salento.

**2007:** contract professor during the Academic year 2006-2007 at the University of Genoa for teaching the course of "**Visual census methods of the fish fauna**", Degree in Environmental Sciences (Management and Conservation of the Marine Environment).

**2006:** contract professor during the Academic year 2005-2006 at the University of Genoa for teaching the course of "**Visual census methods of the fish fauna**", Degree in Environmental Sciences (Management and Conservation of the Marine Environment).

**2006:** contract professor during 2005-2006 at the University of Lecce for teaching the course of "**Management and conservation of the marine environment**", Degree in Environmental Sciences.

#### ***Official PhD courses and commitments***

**2009-2012:** Member of the Committee of the PhD program in "**Fundamental Ecology**", University of Salento (Director of the PhD: Prof. A. Basset).

**2012-present:** Member of the Doctoral Scholl "ED-SFA-Fundamental and Applied Sciences", University of Nice Sophia Antipolis (Director of the PhD school: Dr. E. de Givenchy).

#### ***Lectures in summer school and courses***

**2007:** lecturer within the summer school of "Visual Census of the Fish Fauna (Porto Venere, 9-17 July, 2007; University of Genoa).

**2001:** Speaker during the course "Marine Protected Areas: Experimental design and sampling of the fish fauna by visual methods", project "Afrodite" (Lecce, 3-7 December 2001).

#### ***Seminars at Universities and Research Centers***

**2018:** no. 1 seminar entitled "Marine Protected Areas as scenarios to carry on multi-disciplinary research and experimentation", Institut Sophia Agrobiotech, Sophia Antipolis, France.

**2016:** no. 1 seminar entitled "Connectivity and its implications for marine conservation: theoretical and applied aspects in the Mediterranean context", University of Cagliari, Italy.

**2012:** no. 2 seminars entitled "Marine Protected Areas: ecological and management implications" and "The Torre Guaceto MPA: from theory to practice", University of Padua, Italy.

**2012:** no. 1 seminar entitled "Marine Protected Areas: ecological and management implications", Polytechnic University of Marche, Ancona, Italy.

**2012:** Seminar entitled "Fisheries and sustainability", University of Gastronomic Sciences, Pollenzo (Cuneo).

**2011:** Seminar entitled "Sustainable fisheries", University of Gastronomic Sciences, Pollenzo (Cuneo).

**2011:** Seminar entitled "Fish, ice and investigation tools", 'Mario Zucchelli' Antarctic Station, Antarctica.

**2010:** Seminar entitled "Small-scale fisheries: ecological and management implications", University of Parma.

**2010:** Seminar entitled "The small-scale traditional fisheries and the marine protected areas in the Italian context", University of Gastronomic Sciences, Pollenzo (Cuneo).

**2009:** Seminar entitled "Marine Protected Areas: ecological and management implications", University of Padua.

**2008:** Seminar entitled "Marine mollusks: implications for scientific museology and natural conservation" within the seminars of Archaeomalacology, Department of Cultural Heritage, University of Salento.

**2006:** no. 2 seminars entitled "Fishing and the impacts in marine systems" and "Marine reserves, fishing and the ecology of the rocky Mediterranean sublittoral", University of Pisa.

**2006:** no. 2 seminars entitled "Trophic cascades in the marine environment" and "Spatial distribution of marine communities", for PhD students in "Animal Biology", Dept. of Animal Biology, University of Palermo.

**2005:** Seminar entitled "Marine fish fauna and anthropogenic impacts" during the course of "Applied Zoology" 2004-2005 (Environmental Sciences) at the University of Lecce.

- 2005: Seminar entitled "Trophic cascades in coastal marine environments" at the Dip.Te.Ris. (Department for the Study of the Territory and its Resources) during the course of "Analytical bases of ecological systems" 2004-2005 at the University of Genoa.
- 2005: Seminar entitled "The fish fauna as an indicator of human impact: the important of experimental design and natural history" during the course of "Applied Zoology" 2005-2006 (Environmental Sciences) at the University of Lecce.
- 2004: Seminar entitled "Systematics of the Mediterranean marine fish fauna" and Practicals during the course of "Marine Taxonomy" 2004-2005 (Course in Environmental Sciences) at the University of Lecce.
- 2004: Seminar entitled "Ecosystem effects of overfishing and date-mussel fishery impact in shallow Mediterranean rocky reefs" held on February 19, at Scripps Institution of Oceanography (University of California, San Diego, USA).
- 2003: Seminar entitled "Date-mussel fishery impact in shallow Mediterranean rocky reefs and its ecological implications" held on March 10, at Scripps Institution of Oceanography (University of California, San Diego, USA).
- 2003: Seminars entitled "Nekton" and "Ecosystem effects of fisheries" in the frame of the course in "Marine Biology" (Course in Environmental Sciences) at the University of Lecce.
- 2003: Seminar entitled "Visual methods for assessing fish assemblages and comparison with other methods: applications in impact studies" during the course of "Laboratory of Integration" (Course in Environmental Sciences) at the University of Lecce.
- 2003: Seminar entitled "Visual methods for assessing fish assemblages in Marine Protected Areas" and Practicals during the course of "Marine Biology" (Course in Environmental Sciences) at the University of Lecce.
- 2003: Seminar entitled "Fishing effects on marine ecosystems" during the course of "Marine Biology" (Course in Biological Sciences) at the University of Lecce.
- 2003: Seminar entitled "Human impacts and trophic cascades in marine coastal habitats" during the course of "Animal Ecology" (Course in Environmental Sciences) at the University of Lecce.
- 2003: Seminar entitled "Systematics of the Mediterranean marine fish fauna" and Practicals during the course of "Marine Taxonomy" 2003-2004 (Environmental Sciences) at the University of Lecce.
- 2002-2003: three lectures (6 hours) during the course of "Marine Biology" (Course in Biological Sciences) at the University of Lecce.
- 2002: Seminar entitled "Resources exploitation, keystone species and trophic cascades" during the course of "Marine Biology" (Course in Environmental Sciences) at the University of Lecce.
- 2002: Seminar entitled "Visual methods for assessing fish assemblages: comparison with other methods and practical applications" during the course of "Laboratory of Integration" (Course in Environmental Sciences) at the University of Lecce.
- 2001-2002: three lectures (6 hours) during the course of "Marine Biology" (Course in Biological Sciences) at the University of Lecce.
- 2000-2001: three lectures (6 hours) during the course of "Marine Biology" (Course in Biological Sciences) at the University of Lecce.

## Tutorships (students, PhDs and Post-docs)

### Advisor of the following master theses at University Nice-Sophia Antipolis / University Côte d'Azur

2018

- Clara Fricano, report entitled "Long term effects of Marine Protected Areas on fish assemblages" (Sciences de la Vie et de la Santé). Master 2.
- Eugenio Di Franco, report entitled "Effects of habitat complexity and conservation measures on marine fish assemblages" (Sciences de la Vie et de la Santé). Master 2.
- Léa Piacentini, report entitled "Benefits of Marine Protected Areas on Small-Scale Fisheries in the Mediterranean Sea" (Sciences de la Vie et de la Santé). Master 1.

2017

- Khalil Sdiri, report entitled "Effects of sea water acidification on early life traits of a Mediterranean fish" (Sciences de la Vie et de la Santé). Master 1.

2016

- Jean-Vincent Vieux, report entitled "L'écosystème des grottes marines de Méditerranée et le rôle trophique du poisson *Apogon imberbis* (Linnaeus 1758)" (Sciences de la Vie et de la Santé). Master 1.

2014

- Flavio Picone, report entitled "Reserve effect on the dusky grouper *Epinephelus marginatus* at Tavolara-Punta Coda Cavallo MPA (Sardinia, Italy) and the Mediterranean scale" (Sciences de la Vie et de la Santé). Master 1.
- Jerome Bucci, report entitled "Effet réserve: l'évaluation des réponses des communautés de poissons marins à la protection" (Sciences de la Vie et de la Santé). Master 2.

### Advisor of the following master theses at Universities of Salento, Padua, Genoa and Bologna

2017

- Undergraduate student Vanessa Marrocco (Coastal and Marine Biology and Ecology, University of Salento). thesis (MII) entitled "Effectiveness of small Marine Protected Areas assessed using the fish fauna".

2015

- Undergraduate student Flavio Picone (Science and Management of Nature, University 'Alma Mater' of Bologna). thesis (MII) entitled "Reserve effect on the dusky grouper *Epinephelus marginatus* at Tavolara-Punta Coda Cavallo MPA (Sardinia, Italy) and the Mediterranean scale".

2012

- Undergraduate student Valentina Argese (Coastal and Marine Biology and Ecology, University of Salento), thesis (M. II- Marine Biology and Zoology) entitled "Growth patterns of white seabream (*Diplodus sargus sargus*, Linnaeus, 1758) in protected and fished conditions".
- Undergraduate student Federica Lefons (Coastal and Marine Biology and Ecology, University of Salento), thesis (M. II- Marine Biology and Zoology) entitled "Growth patterns of white two-banded seabream (*Diplodus vulgaris*, E. Geoffroy St Hilaire 1817) in protected and fished conditions".

- Undergraduate student Antonio Calò (Environmental Sciences, University of Salento), thesis (M. II- Environmental Impact Assessment) entitled "Dispersal patterns and connectivity of coastal fish: implications for planning effective networks of Marine Protected Areas".

#### 2011

- Undergraduate student Luana Dimida (Biological Sciences, University of Salento), thesis (M. II-Ecology) entitled "Spatial scale of dispersal and connectivity in early stages of white sea bream (*Diplodus sargus sargus*, Linnaeus 1758)".
- Undergraduate student Giacomo Turnone (Biological Sciences, University of Salento), thesis (M. II- Ecology) entitled "Reproductive biology of white sea bream (*Diplodus vulgaris*, Geoffroy Saint-Hilaire, 1817) in the south-western Adriatic and management implications".
- Undergraduate student Qian Kaicheng (University of Ghent, Belgium), thesis (M. I) entitled "Spatial variability in early life traits: the case study of *Diplodus vulgaris* (Sparidae) in the Mediterranean Sea".
- Undergraduate student Valeria De Simone (Biological Sciences, University of Salento), thesis (M. II- Ecology) entitled "Assessing natal origin of makerel (*Scomber scombrus*, Linnaeus 1758) in the Adriatic Sea using otolith microchemistry".
- Undergraduate student Valentina Argese (Environmental Sciences, University of Salento), thesis (M. I) entitled "Growth rates of the white seabream *Diplodus sargus sargus* (Linnaeus, 1758) at the Torre Guaceto marine reserve (Southern Adriatic Sea)".

#### 2010

- Undergraduate student Maria Elena D'Ambrosio (Biological Sciences, University of Salento), thesis (M. II) entitled "Small scale coastal fishery at Porto Cesareo: assessing yields and socio-cultural aspects".
- Undergraduate student Giulia Montagna (Environmental Sciences, University of Genoa), thesis (M. I) entitled "Juvenile and subadult fishes associated to artificial habitats and natural rocky reefs along the eastern coast of Genoa".
- Undergraduate student Cristina Melissano (Biological Sciences, University of Salento), thesis (M. II- Ecology) entitled "Otoliths microchemistry and microstructure of *Diplodus sargus sargus*, (Linnaeus 1758): applications for assessing population connectivity".

#### 2009

- Undergraduate student Valentina Bernariello (Marine Biology, University of Padua), thesis (M. I) entitled "Comparison between intertidal fish assemblages in two areas characterized by different tidal range".
- Undergraduate student Antonio Calò (Environmental Sciences, University of Salento), thesis (M. I) entitled "Spatial distribution and habitat preference of the white seabream *Diplodus sargus sargus* (Linnaeus, 1758) along the Adriatic Apulian coast".
- Undergraduate student Pierre Thiriet (Université de Montpellier 2, France), thesis (M I) entitled "Ecological effects of Marine Protected Areas: the case study of Torre Guaceto (Southern Adriatic Sea, SE Italy)".

#### 2008

- Undergraduate student Paola Invidia (Biological Sciences, University of Salento), thesis (M. II) entitled "Protection effects on the fish fauna at the Torre Guaceto (Apulia, SE Adriatic Sea) and Tavolara-Punta Coda Cavallo (Sardinia, central Tyrrhenian Sea) Marine Protected Areas".

- Undergraduate student Martina Dal Bello (Environmental Sciences, University of Genoa), thesis (M. I) entitled "Protection effects on fish at the Porto Cesareo marine protected area".
- Undergraduate student Luca Marengo (Environmental Sciences, University of Genoa), thesis (M. I) entitled "Evaluating the reserve effects on fish at the Torre Guaceto marine protected area".
- Undergraduate student Elena Perrone (Biological Sciences, University of Salento), thesis (M. II) entitled "Distribution, morphology and growth of sea urchins (*Paracentrotus lividus*, Lamarck 1816; *Arbacia lixula*, Linnaeus 1758) in infralittoral rocky reefs with and without erect macroalgal cover".
- Undergraduate student Gianluca De Rinaldis (Environmental Sciences, University of Salento), thesis (M. I) entitled "Pelagic larval duration of the white seabream *Diplodus sargus sargus* (Linnaeus, 1758)".

#### 2007

- Undergraduate student Martino Bello (Biological Sciences, University of Salento), thesis (M. II) entitled "Polychaets as a resource for sport fishing: *Diopatra neapolitana*".

#### 2005

- Undergraduate student Elisabetta Vierucci (Biological Sciences, University of Lecce), thesis (M. II) entitled "Marine Protected Areas and benefits for fisheries: assessment of the *spillover* effect at the MPA of Torre Guaceto".

#### 2004

- Undergraduate student Celeste Viva (Biological Sciences, University of Lecce), thesis (M. II) entitled "The fish fauna of the Torre Guaceto marine protected area and relationships with marine habitats".
- Undergraduate student Luisa Marra (Biological Sciences, University of Lecce), thesis (M. II) entitled "Spatial distribution of fish predators, sea urchins and barrens in Apulian sublittoral rocky reefs: effects of protection".

#### **Advisor for the following PhD Theses at University of Nice-Sophia Antipolis (France)**

**2018-in progress:** tutor of the PhD Thesis in in Fundamental and Applied Sciences at UCA (co-tutor: P. Pierson, UCA), entitled "Impact of marine noise on juvenile coastal fish"; candidate: Eugenio Di Franco.

**2016-in progress:** tutor of the PhD Thesis in "Bioscience - Evolution, Ecology and Conservation" at University of Padova (co-tutor: Carlotta Mazzoldi, University of Padova, Italy), entitled "The effects of protection on the reproductive biology of the Dusky grouper, *Epinephelus marginatus* (Lowe, 1834)"; candidate: Elena Desiderà.

**2013-2017:** tutor of the PhD Thesis in Fundamental and Applied Sciences at UNS (co-tutors: Steve Gaines, University of California Santa Barbara-USA; Federico Niccolini, University of Macerata-Italy), entitled "Mediterranean Marine Protected Areas and Organization Science: a novel approach to evaluate management performance and effectiveness"; Claudia Scianna.

#### **Advisor for the following PhD Theses at University of Salento (Italy)**

**2009-2012:** tutor of the PhD thesis in Fundamental Ecology (University of Salento-Italy, in co-tutorship with Univ. Perpignan-France; co-tutor: Serge Planes), entitled "Scales of connectivity and reproductive biology of the two-banded sea bream *Diplodus vulgaris* (E. Geoffroy St Hilaire 1817): implications for marine protected area networks and fisheries management"; Rita Sahyoun.

- 2009-2012:** tutor of the PhD thesis in Fundamental Ecology (University of Salento-Italy; co-tutors: F. Badalamenti, G. D'Anna, CNR-Italy) entitled "Movement patterns and home range of *Diplodus sargus sargus* (Linnaeus 1758) in a marine protected area of the Southern Adriatic sea: implication for a marine conservation"; Manfredi di Lorenzo.
- 2008-2011:** tutor of the PhD Thesis in Fundamental Ecology (University of Salento-Italy) entitled "Spatial connectivity and dispersal patterns to design networks of marine protected areas: the case of the white sea bream *Diplodus sargus sargus* (Linnaeus 1758)"; Antonio Di Franco.
- 2006-2009:** co-tutor for the PhD Thesis in Fundamental Ecology (University of Salento-Italy) entitled "Socio-economic impact of marine conservation in Italy"; Fausto Pizzolante.

## Member of examination committees

### Selections for stable positions or career advancements

- 2016:** member of the evaluation committee for a position of lecturer (Maitre de Conférence) in Animal Biology, University of Nice Sophia Antipolis, France.
- 2015:** member of the evaluation committee for a position of 'Associate Professor' in Ecology, Polytechnic University of Marche (Ancona), Italy.
- 2014:** member of the evaluation committee for a position of 'Associate Professor' in Ecology, University of Genoa, Italy.

### HDR (*Habilitation à Diriger des Recherches*) jury member

- 2018 :** Daniele Bevacqua. Report entitled "Managing natural resources with an ecological perspective". University of Nice-Sophia Antipolis, UFR Sciences, Ecole Doctorale 364 SFA, France.
- 2016 :** Francesca Rossi. Report entitled "Stabilité écologique face aux perturbations et conservation des prairies sous-marines et des écosystèmes associés". University of Nice-Sophia Antipolis, UFR Sciences, Ecole Doctorale 364 SFA, France.
- 2016 :** Joachim Claudet. Report entitled "Gestion et conservation des systèmes socio-écologiques côtiers". Ecole Pratique Des Hautes Etudes, Perpignan, France.
- 2012:** Luisa Mangialajo. Report entitled "Récifs méditerranéens : structure, menaces, perspectives". University of Nice-Sophia Antipolis, UFR Sciences, Ecole Doctorale 364 SFA, France.

### PhD jury member at the University Nice Sophia Antipolis

- 2017:** Pierre Vandebussche. PhD dissertation: "Otolithes et biondication : conséquences d'un stress environnemental sur la morphologie des *sagittae* de *Dicentrarchus labrax* et *Oblada melanura*". Université Nice Sophia Antipolis, France: 232 pp.
- 2017:** Emna Ben Lamine. PhD dissertation: "Fish and fishing monitoring methods and indicators in Marine Protected Areas in Tunisia". Université Nice Sophia Antipolis, France: 275 pp.

- 2016:** Giulia Prato. PhD dissertation: "Field monitoring and trophic modelling as management tools to assess ecosystem functioning and the status of high trophic level predators in Mediterranean MPAs". Université Nice Sophia Antipolis, France: 245 pp.
- 2012:** Hazel O. Arceo. PhD dissertation: "Assessing the effectiveness of marine protected areas in sustaining small-scale fisheries: ecological and management perspectives from the French Mediterranean". Lab. ECOMERS, University Nice-Sophia Antipolis, France: 196 pp.
- 2012:** Adrien Cheminée. PhD dissertation: "Ecological functions, transformations and management of infralittoral rocky habitats from the North-western Mediterranean: the case of fish (Teleostei) nursery habitats". Lab. ECOMERS, University Nice-Sophia Antipolis, France: 225 pp.

#### **PhD jury member in France (besides the University of Nice Sophia Antipolis)**

- 2015:** Robin Faillettaz. PhD dissertation: "Estimations des capacités comportementales des larves des poissons et leurs implications pour la phase larvaire : un cas d'étude d'espèces démersales de Méditerranée Nord-Occidentale". Université de Pierre Marie Curie-P6, France: 221 pp.
- 2015:** Stéphanie D'Agata. PhD dissertation: "Vulnérabilité des communautés de poissons corallines aux pressions humaines et importance des sites références pour l'évaluation des outils de conservation". Université de Montpellier 2, France: 271 pp.
- 2012:** Barbara Koeck. PhD dissertation: "Role des récifs artificiels dans l'écologie des poissons". Ecole Pratique des Hautes Etudes, France: 300 pp.

#### **PhD jury member in Belgium**

- 2012:** Nicolas Sturaro. PhD dissertation: "Multiscale variability of amphipod assemblages in *Posidonia oceanica* meadows". Laboratory of Oceanology, University of Liege, Belgium : 298 pp.

#### **PhD jury member in Italy**

- 2017:** President of the jury committee of the PhD in "Human and Environmental Biology and Biochemistry", University of Cagliari (Italy; April 10<sup>th</sup>, 2017).
- 2015:** President of the jury committee of the PhD in "Human and Environmental Biology and Biochemistry", University of Cagliari (Italy; March 17<sup>th</sup>, 2015).
- President of the jury committee of the PhD in "Biosciences and Biotechnologies-Evolutionary Biology", University of Padua (Italy; November 27<sup>th</sup>, 2015).
- 2010:** President of the jury committee of the PhD in "Environmental Sciences", University of Venice (Italy, March 05<sup>th</sup> 2010).

#### **PhD reviewer abroad**

- 2018:** Itai van Rijn. "Effects of rising temperature, alien species and fishing on Mediterranean fish and fisheries". Tel Aviv University, G.S. Wise Faculty of Life Sciences, Graduate School (Israel): 122 pp.
- Or Givan. "Understanding change in Mediterranean fish communities". Tel Aviv University, G.S. Wise Faculty of Life Sciences, Graduate School (Israel): 128 pp.

2005: Brianna Clynick. "The ecology of fish associated with artificial structures". Faculty of Science. University of Sydney (Australia): 204 pp.

## Research

### *Organizational skills and competences*

#### *Laboratory direction*

**2016-present:** Director of the Research Unit ECOMERS (FRE 3729/UMR 7035 CNRS - University Nice Sophia Antipolis, France).

**2010-2012:** Director of the '*Laboratory of Conservation and Management of Marine and Coastal Resources*' (at the Department of Biological and Environmental Sciences and Technologies, University of Salento, Italy).

#### *Coordination activities in the frame of international research projects*

**2016-2019:** WP leader in the frame of the Project "Fishery governance within MPAs: potential for blue economy-2" (FishMPABlue2), EU-MED (875,000 €).

**2016-2019:** WP leader in the frame of the Project "Assessing the relationships between marine protected areas and invasive species" (PAVIS), ANR (Agence National de Recherche-Accueil de Chercheurs de Haut Niveau; 365,335 €).

**2015-2018:** WP leader in the frame of the SAFENET Project, Pilot project " Marine protected areas: network(s) for enhancement of sustainable fisheries in EU Mediterranean waters" (Call reference: MARE/2014/41; Agreement number: 721708), EU-DGMARE (75,000 €).

**2014-2015:** Co-PI of the research project "Fishery governance within MPAs: potential for blue economy" (FishMPABlue), EU-MED (123,000 €).

**2006-2009:** Coordinator of scientific activities - Fish assemblages - Pew Fellows Program in Marine Conservation Fellowship, Pew Institute For Ocean Science; Project: "Assessing the health of Mediterranean coastal ecosystems", PI: Enric Sala.

#### *Participation to international research projects*

**2012-2015:** "Towards COast to COast NETworks of marine protected areas (from the shore to the high and deep sea), coupled with sea-based wind energy potential (CoCoNET). EU-FP7.

**2012-2015:** "Training Network for Monitoring Mediterranean Marine Protected Areas-MMMPA" – People Programme 7<sup>th</sup> Framework Programme EU with the role as 'external expert'; PI: Carlo Cerrano.

**2005-2009:** Network of Excellence-European Union "Marine Biodiversity and Ecosystem Functioning (MARBEF)"; Project: "Causes and consequences of changing marine biodiversity: a fish and fishery perspective (MARFISH)".

#### *Scientific coordinator of research projects funded by private enterprises and foundations*

**2015-2017:** Principal investigator of the research project "SORM (The Science Of Marine Reserves-Mediterranean)", funded by WWF and the French MPA Agency (36.300 €).

**2015-2017:** Principal investigator of the research project "SCIMARMED (SCIENCE of MARine protected areas-MEDITerranean)", funded by Total Foundation, France (43.346 €).

- 2015-2017:** Principal investigator of the research project "Improving the performance of Mediterranean Marine Protected Areas", funded by Prince Albert II of Monaco Foundation, Monaco (75,000 €).
- 2014-2016:** Principal investigator of the research project "Marine caves along the Mediterranean French coast: insights into connectivity and management implications", funded by Total Foundation, France (150,000 €).
- 2014:** Principal investigator of the research project "The effects of organization and spatial design of Mediterranean Marine Protected Areas on their ecological performance", Rapid Ocean Conservation (ROC) Grants Program, funded by WAITT Foundation, USA (7,500 €).
- 2010-2012:** Principal investigator of the research project "Designing networks of marine protected areas in the Mediterranean context", funded by Total Foundation, France (120,000 €).
- 2004-2005:** Principal investigator of the research project 'Behavioral patterns of fish in Mediterranean marine reserves and adjacent fished areas' funded by PADI-Project AWARE Foundation, USA (5,000 €).

***Scientific coordination in national research projects in Italy***

- 2016-2017:** Scientific responsible for the monitoring entitled 'Fish fauna in marine protected areas', aimed at assessing the status of the marine environment in the framework of the Marine Strategy application (Directive 2008/56/CE) in Italy (75,000 €)
- 2012-2013:** Scientific responsible for the 'fish fauna of marine protected areas' within the study aimed at assessing the status of the marine environment in the framework of the Marine Strategy (Directive 2008/56/CE), received by the Italian law D.lgs. 190 (23,200 €)
- 2011-2013:** responsible for the 'operative unit of the CoNISMa (URL Lecce) within the PNRA (National Plan for Antarctic Research) project entitled "Vulnerability of polar fishes to climate change: life cycle, habitats and relationships with marine ice in *Pleuragramma antarcticum*" (23,000 €).
- 2010-2012:** scientific responsible for the Operative Unit of the University of Salento within the PRIN (projects of relevant national interest) project entitled "The role of spatial connectivity and trophic interactions in the sustainable management of small-scale fisheries through the implementation of networks of Marine Protected Areas", funded by MIUR (70,000 €).
- 2008-2010:** Co-responsible for the taxonomy of the fish fauna within the research project "Study of the sea caves (habitat code 8330) at the Pelagie, Plemmirio and Capo Caccia Marine Protected Areas" (5,000 €).
- 2008 and 2009:** Scientific responsible of the research project MURST-ex 60% "Marine Protected Areas and artisanal fishery: the problem of connectivity" (7,800 €).
- 2007-2009:** Co-responsible for the taxonomy of the fish fauna within the research project "Analysis and assessment of marine ecosystems within A and B zones of 4 marine protected areas aimed at evaluating the efficacy of protection measures" funded by the Ministry of the Environment (5,500 €).
- 2007-2008:** Co-responsible of the working group on "Reserve and spillover effects and indices of environmental quality" in the framework of the CoNISMa project entitled "Maintaining and implementing marine protected areas within the SPAMI protocol" (13,500 €).
- 2005:** Executive responsible of the research project "Ecological models for environmental management and enhancement of fishery resources". Apulia Region, Italy (100,000 €).

**2004-2006:** Executive responsible of the project "Assessment of protection effects of marine protected areas: 'spill-over' and potential benefits for fisheries", UO CoNISMa-Lecce. MIPAF (Italian Ministry for Agricultural Resources; General Fishery and Aquaculture Office) (80,000 €).

**2001-2003:** National coordinator of research activities on fish assemblages in the Italian marine reserves in the framework of the national projects 'Afrodite' and 'Venere' (CoNISMa-ICRAM-Italian Ministry of the Environment) (10,000 €).

***Scientific coordination in national monitoring projects at Italian MPAs (quinquennial; see Annex I for details)***

**2016-2020:** Scientific responsible of 9 projects dealing with monitoring artisanal fisheries and fish assemblages at 4 MPAs (Torre Guaceto, Tavolara-Punta Coda Cavallo, Villasimius-Capo Carbonara, Asinara) (total budget: 187,800 €).

**2011-2015:** Scientific responsible of 19 projects dealing with monitoring artisanal fisheries and fish assemblages at 8 MPAs (Torre Guaceto, Tavolara-Punta Coda Cavallo, Penisola del Sinis-Isola Mal di Ventre, Isole Tremiti-Parco del Gargano, Portofino, Bergeggi, Cinque Terre, Secche di Tor Paterno) (total budget: 352,300 €).

**2006-2010:** Scientific responsible of 10 projects dealing with monitoring artisanal fisheries and fish assemblages at 3 MPAs (Torre Guaceto, Tavolara-Punta Coda Cavallo, Porto Cesareo) (total budget: 148,400 €).

***Activities in national and international working groups and commissions***

**2017-2018:** Member of the International Scientific Committee of the GFCM FishForum (FAO), Rome, 10-14 December 2018.

**2010-2013:** Member of the Scientific Commission of the Association Slow Food - Apulia and Responsible for sustainability of Slow Food - Alto Salento (Italy).

**2012-2015:** member of the GdR MarCo (French Marine Connections), coordinated by CNRS and IFREMER (France).

**2012:** member of the International Scientific Advisory Committee of the Institute of Oceanography and Fisheries, Split (Croatia).

**2011-2018:** member of the Scientific Committee of the Network of Managers of Marine Protected Areas in the Mediterranean (MedPAN).

**2010-present:** member of the French scientific association 'Groupe d'Etude du Mérrou' (GEM).

**2010-present:** member of the Advisory Group and the research team of the Dolphin Biology & Conservation (DBC) working group.

**2010-present:** member of the Committee 'Coastal Zone' of the Italian Society of Marine Biology (SIBM).

**2009-present:** member of the scientific committee Reef Check (Italy), NGO no-profit association founded in 2008 for protection and recovery of Mediterranean reefs and coral reefs across the world.

**2009-2012:** member of the Euro-Mediterranean Centre for Climate Change (CMCC).

- 2009-2012:** member of the Advisory Board within the project MedPAN South (partnership WWF, RAC-SPA, UNEP).
- 2008:** RAC/SPA (Regional Activity Center for Specially Protected Areas, Tunis) consultant within the project SAP BIO (Strategic Action Plan for the Conservation of Biological Diversity in the Mediterranean Region).
- 2007:** Member of the NGO Fisheries and Food Institute (FIFO), directed by Dr. Alpina Begossi, Sao Paulo, Brazil.
- 2007:** Member of the international working group on Marine Reserves directed by Prof. Jane Lubchenco (Oregon State University, USA) in the framework of the Project 'PISCO: Partnership for Interdisciplinary Studies of Coastal Oceans'.
- 2005-2008 & 2017-2020:** Member of the IUCN's World Commission on Protected Areas – Marine (WCPA – MMED).

### ***Organization of workshops and congresses***

- 2015:** organizer of the international meeting "The Science of Marine Protected Areas in the Mediterranean", 14-16 June 2016, Nice (France).
- 2015:** co-organizer of the workshop of the project MED-EU (FishMPABlue), 15-16 January 2015, Nice (France).
- 2008:** co-chair organizer of the session 'Climate change effects on Mediterranean coastal ecosystems' ASLO (Advancing the Science of Limnology and Oceanography) Meeting, 25-30 January 2009, Nice (France);
- 2008:** organizer of the national workshop "Fisheries and Management of Marine Protected Areas", Porto Cesareo (Lecce), October 30-31 2008.
- 2001:** organizer of the meeting "Marine Protected Areas: Experimental design and sampling of the fish fauna by visual methods" for standardization of methods aimed at assessing fish assemblages in MPAs, project "Afrodite" (Lecce, 3-7 December 2001).

### ***Organisation/coordination of scientific prizes***

- 2014:** Scientific coordinator of the International Scientific Prize 'Faranda' at EurOCEAN 2014, Rome (Italy).

### ***Participation/Invitation to institutional conferences***

- 2016:** participation as 'expert' to "The 10x20 Initiative Conference on Marine Protected Areas: an urgent imperative". A dialogue between Scientists and Policymakers. Ministry of Foreign Affairs and International Cooperation, Rome (March 7–9<sup>th</sup>).
- 2017:** participation as 'French Delegate-Expert' to "The Ocean Conference". United Nations Headquarters, New York (June 5–9<sup>th</sup>).

### ***Keynote/invited speaker in scientific meetings, congresses and conferences***

- 2016:** "Marine Protected Areas in the Mediterranean Sea: from their potential to reality". IMMR-International Meeting on Marine Research, Peniche (Portugal), July 14th, 2016.

- 2013: "Artisanal fishing and marine protected areas: is it a model to conciliate conservation and use of marine resources?". MEDOCEAN: Symposium on Integrating New Advances in Mediterranean Oceanography and Marine Biology, Barcelona (Spain), 26-29 November 2013.
- 2012: "La cogestion adaptative de la pêche artisanale dans l'AMP de Torre Guaceto en Italie". Atelier scientifique sur «La pêche durable dans les aires marines protégées en méditerranée», Bizerte (Tunisie), 10-11 May 2012.
- 2012: "Artisanal fishing and Marine Protected Areas: an example of local co-management". Final meeting of the Project "CLODIA: for sustainable development of coastal areas" (Padua, Italy), 30-31 March, 2012.
- 2012: "The multifaceted artisanal fisheries in the Mediterranean", "The involvement of fishermen in MPA management - Artisanal fisheries near the Torre Guaceto MPA: an example of adaptive co-management along the path of sustainability (Italy)". MedPAN North Project Meeting of Mediterranean artisanal fishermen of marine protected areas. Carovigno (Brindisi, Italy), 17-18 March, 2012.
- 2012: "Artisanal fisheries and Marine Protected Areas in Italy: the case study of Torre Guaceto (SE Apulia) in the Mediterranean context" - Transversal Workshop on Spatial Based Approach to Fishery Management, GFCM-FAO, Rome, 6-8 February 2012.
- 2010: "Small-scale fishery co-management arrangement in the Mediterranean". Capacity Building Programme of the MedPAN South and MedMPAnet projects - WWF Mediterranean Program and the Regional Activity Centre for Specially Protected Areas (RAC-SPA) of the UNEP/MAP. 2nd Regional Training Workshop on Planning for sustainable fisheries in Marine Protected Areas, Kas, Turkey, October 4-11, 2010.
- 2008: "Fish diversity components and community-wide changes". MarFISH-workshop on 'Ecosystem functioning relevant to fish biodiversity and fisheries', April 10 (2008), Nantes (France), MARBEF EU Network of Excellence.
- 2008: "Communities of marine caves in the Salento Peninsula". Final meeting of the project "*Chelon labrosus*", funded by the Italian Ministry of the Environment to the 'Capo Caccia-Isola Piana' MPA. Alghero, May 9, 2008.
- 2007: "Marine protected areas and species interactions: implications for the sea urchin *Paracentrotus lividus* and Mediterranean rocky reef communities". Meeting held in the frame work of the Interreg Project CE.A.MA.T. entitled "Effects of protecting the *Posidonia oceanica* habitat and the role of related animal species: studies and management options", Alghero 14 December 2007.
- 2006: "Analysis of spatial distribution in marine communities". 37° Congress of the Italian Society of Marine Biology, Grosseto (Italy) June 5-10, 2006.

### ***Reviewer for the following funding agencies***

- National Science Foundation (NSF; USA);
- University of Hawaii-Sea Grant Program (SGP; USA).
- European Fund for Regional Development (FED; France);
- Agence Nationale de la Recherche (ANR; France).

### ***Editorial board of the following international journals with IF***

- Handling Editor of the international journal *Mediterranean Marine Science*, Hellenic Centre for Marine Research (HCMR) Publisher.
- Handling Editor of the international journal *European Zoological Journal*, Taylor & Francis Publisher.
- Handling Editor of the international journal *Aquatic Conservation: Marine and Freshwater Ecosystems*, Wiley Publisher.

### ***Editorial board of the following national journals***

- Editorial Board Member of the national journal *Thalassia Salentina*, Marine Biology Museum of Porto Cesareo-University of Salento Publishing.
- Associate Editor of *Biologia Marina Mediterranea*, official journal of the "Società Italiana di Biologia Marina (SIBM)".

### ***Scientific reviewer for the following journals with impact factor***

Acta Adriatica, Aquatic Biology, Aquatic Living Resources, Biodiversity and Conservation, Biological Conservation, Bulletin of Marine Science, Bulletin of the Sea Fisheries Resources, Chemistry and Ecology, Conservation Letters, Cybium, Ecological Applications, Ecology, Ecology Letters, Environmental Conservation, Estuarine Coastal and Shelf Science, Fisheries Management and Ecology, Global Change Biology, Global Environmental Change, ICES Journal of Marine Science, Journal of Animal Biology, Journal of Environmental Management, Journal of Ethnobiology and Ethnomedicine, Journal of Evolutionary Biology, Journal of the Marine Biological Association UK, Journal of Sea Research, Marine Biology, Marine Ecology Progress Series, Marine Environmental Research, Mediterranean Marine Science, Molecular Ecology, Marine Policy, Nature Scientific Reports, Oceanologica Acta, PlosONE, Progress in Oceanography, PSZN Marine Ecology, Scientia Marina.

### ***Scientific reviewer for the following journals without impact factor***

Biologia Marina Mediterranea, Bollettino dell'Associazione Italiana di Oceanografia e Limnologia, Bollettino Malacologico, Global Ecology and Conservation, Regional Studies in Marine Sciences, Thalassia Salentina, The Open Conservation Biology Journal.

## Outreach and communication to the general public

### Collaborations with media, magazine editors and associations

2011: collaboration with the Magazine National Geographic (Italy).

2008-present: Scientific collaboration with "Radio 3 Scienza" (Italy) for marine biology and ecology.

### Public presentations, conferences and initiatives to the public

#### 2009

Public presentation entitled "The Mediterranean, an hotspot of biodiversity". International workshop "Meristema" on nature and biodiversity, Ischia, Naples (Italy), April 26<sup>th</sup>, 2009.

Public presentation entitled "The small-scale fisheries within MPAs: the experience of Torre Guaceto, Italy; Adriatic Sea". Slow Fish, Genoa (Italy), April 17<sup>th</sup>, 2009.

#### 2010

Public presentation entitled "The recreational fishing in the Italian seas: ecological and socio-economic implications". International workshop "Big Blue", Rome (Italy), February 22<sup>th</sup>, 2010.

#### 2011

Public presentation entitled "'Biodiversity, marine ecosystem ... and what they provide us". Conference entitled "Meetings with scientists" organized by ENEL (Ente nazionale per l'energia elettrica), Lecce (Italy), April 15<sup>th</sup>, 2011.

Public presentation entitled "'Reserve effect' and fishing: the experience from MPAs in the Ligurian Sea and from other Italian MPAs". Slow Fish, Genoa (Italy), May 18<sup>th</sup>, 2011.

Public presentation entitled "Reserve effect and fishing activities within Marine Protected Areas". Public initiative "Girotonno", Carloforte (Cagliari, Italy), June 3<sup>rd</sup>, 2011.

#### 2013

Public presentation entitled "'MPAs and artisanal fishing: a good binomium ... if well managed". Slow Fish, Genoa (Italy), May 12<sup>th</sup>, 2013.

#### 2015

Public presentation entitled "Artisanal Fishery and MPAs principles co-management and efficacy". Conference "Sustainable fishing in Europe and in the world: good practices, ideas, perspectives for the marine resources co-management" at Expo 2015, Milan (Italy), August 28<sup>th</sup>, 2015.

Public presentation entitled "'The comanagement of artisanal fishery and the Torre Guaceto MPA (Italy) in the Mediterranean context". Slow Fish, Genoa (Italy), May 16<sup>th</sup>, 2015.

#### 2016

Public presentation entitled "Biodiversity and functioning in marine caves: from knowledge to their conservation". Conference "The Mediterranean Sea: a threatened heritage", organised by the *Centre de Découverte du Monde Marin* at the auditorium Jean Martineau (Banque Populaire Côte d'Azur), Nice (France), May 20<sup>th</sup>, 2016.

#### 2017

Public presentation of the PISCO-UNS Booklet "The Science of Marine Protected Areas-Mediterranean version"; Monaco Ocean Week (March 31<sup>st</sup>, 2017).

Public initiative “De la Mer à l’Assiette - From the Sea to the Plate” on sustainable seafood; Monaco Ocean Week (April 1<sup>st</sup>, 2017).

Public workshop (in the presence of the Prince Albert II of Monaco and Mme S. Royale, the French Minister of Ecology, Energy, Sustainable Development and Spatial Planning), Session 3: “Marine Protected Areas and Climate”; Monaco Ocean Week (April 3<sup>rd</sup>, 2017).

Public presentation entitled “The Marine Protected Areas in the Mediterranean Sea”. Conference “The Mediterranean Sea: a sea in danger”, organised by the *Centre de Découverte du Monde Marin* at MAMAC (Museum of Modern and Contemporary Art), Nice (France), May 12<sup>th</sup>, 2017.

Public exposition entitled “*Zosteres, des prairies sous la mer*” at Museum of the Thau lagoon, organised by the MARBEC Lab., Montpellier. Bouzigues (France) May 20 to November 30<sup>th</sup>, 2017 (member of the scientific committee).

## Other

### Languages

Mother tongue(s): Italian and Genoese  
Other language(s): English (proficient user C1: understanding, speaking, writing)  
French ((proficient user C1: understanding, speaking, writing)  
(\* [Common European Framework of Reference for Languages](#))

### Awards and prizes

**2015-2019:** PEDR (PhD tutorship and research excellence award) – National Ministry of Education, Higher Education, and Research.  
**2015:** Scientific award 'Golden saw', University of Genoa (Italy).  
**2011:** 'Conservation Biology Highly Cited Author 2008-2011' Award for the paper "Guidetti P., Milazzo M., Bussotti S., Molinari A., Murenu M., Pais A., Spanò N., Balzano R., Agardy T., Boero F., Carrada G., Cattaneo-Vietti R., Cau A., Chemello R., Greco S., Manganaro A., Notarbartolo di Sciarra G., Russo G.F., Tunesi L., 2008. Italian marine reserve effectiveness: does enforcement matter? *Biological Conservation*, 141: 699-709". Highly cited paper award - Elsevier Publisher.  
**2010:** Public award 'Premio Ambiente-Faraglioni di Puglia' (Municipality of Mattinata and Apulia Region) for the effort spent in research aimed at protecting the natural heritage in relation to socio-economic, cultural, scientific and touristic environmental development.  
**2006:** Special Award of the Italian Society of Ecology to a young Italian researcher for the best paper in the field of ecology published in an international journal in 2005-2006.  
**2004:** Award "Roberto Marchetti" for best oral presentation at 14° Congress of the Italian Society of Ecology.  
**1997:** S.I.B.M. prize to participate to the 28° S.I.B.M. Congress.  
**1996:** S.It.E. prize to participate to the 7° S.It.E. Congress.

### Affiliations

- Group d'Etude du Merou (GEM)

### Other experiences and skills

- SCUBA-diving PADI International license (Dive Master).
- Professional diving aptitude certificate (France; mention: B; class: I).
- SCUBA-diving French Recreational Licence FFESSM-RIFA (2015: FRA/F00/RP/14/062036/58/49/00000041242); FFESSM-International Certificate level 3 (2015: FRA/F00/P3/14/062037/58/10/00000079720)
- Scientific design
- License 'B' (cars and motorbikes)
- Italian nautical license (boat, within 12 miles from coast).

## Papers published (on ISI journals with impact factor; n=125)

1. Giakoumi S., Pey A., Di Franco A., Francour P., Kizilkaya Z., Arda Y., Raybaud V., **Guidetti P.**, in press. *Ecological Applications*.
2. Bakiu R., Cakalli M., Korro K., Di Franco A., **Guidetti P.**, 2018. Small-scale fisheries at an Albanian Marine Protected Area: a collaborative attitude is associated with higher catches. *Marine and Coastal Fisheries*, 10: 527-535.
3. Giakoumi S., McGowan J., Mills M., Beger M., Bustamante R.H., Charles A., Christie P., Fox M., Garcia-Borboroglu P., Gelcich S., **Guidetti P.**, Mackelworth P., Maina J.M., McCook L., Micheli F., Morgan L.E., Mumby P.J., Reyes L.M., White A., Grorud-Colvert K., Possingham H.P., 2018. Revisiting "Success" and "Failure" of Marine Protected Areas: A Conservation Scientist Perspective. *Frontiers in Marine Sciences*, 5: 223. doi: 10.3389/fmars.2018.00223
4. Scianna C., Niccolini F., Bianchi C.N., **Guidetti P.**, 2018. Applying organization science to assess the management performance of Marine Protected Areas: an exploratory study. *Journal of Environmental Management*, 223: 175–184
5. Bussotti S., Di Franco A., Bianchi C.N., Chevaldonné P., Egea L., Fanelli E., Lejeusne C., Musco L., Navarro-Barranco C., Pey A., Planes S., Vieux-Ingrassia J.V., **Guidetti P.**, 2018. Fish mitigate trophic depletion in marine cave ecosystems. *Scientific Reports* 8, 9193; <https://doi.org/10.1038/s41598-018-27491-1>
6. Ben Lamine E., **Guidetti P.**, Romdhane M., Francour P., 2018. Fish assemblages along the coasts of Tunisia: a baseline study to assess the effectiveness of future Marine Protected Areas. *Mediterranean Marine Science*, 19: 11-20. doi:<http://dx.doi.org/10.12681/mms.14206>
7. O'Leary B.C., Ban N.C., Fernandez M., Friedlander A.M., Garcia-Borboroglu P., Golbuu Y., **Guidetti P.**, Harris J.M., Hawkins J.P., Langlois T., McCauley D.J., Pikitch E.K., Richmond R.H., Roberts C.M., 2018. Addressing criticisms of Large-Scale Marine Protected Areas. *BioScience*, 68: 359–370. <https://doi.org/10.1093/biosci/biy021>
8. Zupan M., Bulleri F., Evans J., Frascchetti S., **Guidetti P.**, Garcia-Rubies A., Sostres M., Asnaghi V., Caro A., Deudero S., Goñi R., Guarnieri G., Guilhaumon F., Kersting D., Kokkali A., Kruschel C., Macic V., Mangialajo L., Mallol S., Macpherson E., Panucci A., Radolovic M., Ramdani M., Schembri P.J., Terlizzi A., Villa E., Claudet J., 2018. How good is your marine protected area at curbing threats? *Biological Conservation*, 221: 237–245
9. Di Franco A., Plass-Johnson J.G., Di Lorenzo M., Meola B., Claudet J., Gaines S.D., Garcia-Charton J.A., Giakoumi S., Grorud-Colvert K., Hackradt C.W., Micheli F., **Guidetti P.**, 2018. Linking home ranges to protected area size: the case study of the Mediterranean Sea. *Biological Conservation*, 221: 175–181
10. Bianchi, C., Caroli, F., **Guidetti, P.**, & Morri, C., 2018. Seawater warming at the northern reach for southern species: Gulf of Genoa, NW Mediterranean. *Journal of the Marine Biological Association of the United Kingdom*, 98: 1-12. doi:10.1017/S0025315417000819
11. **Guidetti P.**, Danovaro R., 2018. Global ocean conservation under the magnifying glass. *Aquatic Conservation: Marine and Freshwater Ecosystems*, 28: 259–260. <https://doi.org/10.1002/aqc.2854>

12. Cattano C., Calò A., Di Franco A., Firmamento R., Quattrocchi F., Sdiri K., **Guidetti P.**, Milazzo M., 2017. Ocean acidification does not impair predator recognition but increases juvenile growth in a temperate wrasse off CO<sub>2</sub> seeps. *Marine Environmental Research*, 132: 33-40.
13. Giakoumi S., Scianna C., Plass-Johnson J., Micheli F., Grorud-Colvert K., Thiriet P., Claudet J., Di Carlo G., Di Franco A., Gaines S.D., García-Charton J.A., Lubchenco J., Reimer J., Sala E., **Guidetti P.**, 2017. Ecological effects of full and partial protection in the crowded Mediterranean Sea: a regional meta-analysis. *Scientific Reports* 7, 8940; doi:10.1038/s41598-017-08850-w
14. Bussotti S., Di Franco A., Pey A., Vieux-Ingrassia J.V., Planes S., **Guidetti P.**, 2017. Distribution patterns of marine cave fishes and the potential role of the cardinal fish *Apogon imberbis* (Linnaeus, 1758) for cave ecosystem functioning in the western Mediterranean. *Aquatic Living Resources*, 30 15. DOI: <https://doi.org/10.1051/alr/2017016>
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### Divulgative books and publications

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