



## Curriculum Vitae

### Personal information & contacts

First name/Surname & family name: **Paolo Guidetti**  
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### General fields of interest

Fundamental and applied marine ecology; ecology and biology of fishes, and marine communities; marine conservation; marine biodiversity and ecosystem functioning; fishery and sea food consumption sustainability and equity; natural history; socio-cultural aspects of fish and fisheries; historical marine ecology.

### Specific fields of interest

Fish ecology and trophic interactions in marine ecosystems; ecology of rocky reefs, marine caves, macroalgal and seagrass beds, deep sea; life histories (nursery and spawning areas) and connectivity (from eggs to adults) of marine fishes; climate change (water warming, acidification, non-indigenous species); multistress assessments in marine ecosystems (e.g., overfishing, noise, pollution, habitat degradation, artificialization, climate change); effectiveness assessments of Marine Protected Areas (MPAs); ecological, socio-economic and cultural implications of MPAs and small scale fisheries; fish and fisheries in history, arts and culture.

## Lab-Research Unit Direction and collective responsibilities

- 2021 (November 1<sup>st</sup>)-present:** Director of the Genoa Marine Center (GMC, territorial seat in Genoa), Stazione Zoologica Anton Dohrn-National Institute of Marine Biology, Ecology and Biotechnologies, Italy (about 15 members).
- 2017-2018 (academic year):** Member of the academic direction of the MARRES - MSc. in Science, Conservation & Valorisation of Marine Resources, Université Côte d'Azur, France.
- 2016 (January 1<sup>st</sup>)-2020 (July 31<sup>st</sup>):** Director of the Research Unit ECOSEAS (UMR 7035), CNRS-University Nice Sophia Antipolis, France (about 30-35 membres).
- 2014-2020:** Member of the Permanent Committee of Human Resources - Section 67 (CPRH 67) - at the Dept. of Life Sciences, University Nice Sophia Antipolis, France.
- 2010-2012:** Director of the '*Laboratory of Conservation and Management of Marine and Coastal Resources*', Department of Biological and Environmental Sciences and Technologies (DiSTeBA), University of Salento, Italy (about 8-10 members).

## Education and career

- 2021 (January 1<sup>st</sup>)-present:** Research Director (Chair of Excellence-Chiamata Diretta per Riconoscimento e Valorizzazione del Merito Eccezionale; art. 16 del D.Lgs. 218/2016), Stazione Zoologica Anton Dohrn-National Institute of Marine Biology, Ecology and Biotechnologies, Italy.
- 2012 (September 1<sup>st</sup>)-2020 (December 31<sup>st</sup>):** Full Professor (Professore Ordinario) of Ecology at ECOSEAS lab, University Nice Sophia Antipolis (University of Côte d'Azur since January 1<sup>st</sup>, 2020; Nice), France.
- 2007 (November 1<sup>st</sup>)-2012 (August 31<sup>st</sup>):** Researcher in Zoology (research and teaching) at the Department of Biological and Environmental Sciences and Technologies (DiSTeBA), University of Salento (Lecce), Italy.
- 2004 (September 1<sup>st</sup>)-2007 (August 31<sup>st</sup>):** Post-doc position (36 months) at the Laboratory of Marine Biology and Zoology, University of Lecce for research on trophic cascades in Mediterranean rocky reef communities and MPAs.
- 2004 (September 1<sup>st</sup>-October 31<sup>st</sup>):** CNR-NATO senior fellowship (2 months) at the Institute of Oceanography and Fisheries (IZOR), Split (Croatia), for research on "Fish predation on sea urchins in littoral rocky habitats" in collaboration with Dr. J. Dulcic (Lab. Ichthyology and Coastal Fishery).
- 2001 (June 1<sup>st</sup>)-2004 (May 31<sup>st</sup>):** 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 (June 15<sup>th</sup>)-1998 (June 14<sup>th</sup>):** CNR (National Research Council) fellowship (24 months) 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 (March 9<sup>th</sup>):** 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)*.
- 1988:** High school Diploma (Liceo Classico).

### Temporary assignments

**2019 (September 1<sup>st</sup>)-2020 (August 31<sup>st</sup>):** 1 year part-time temporary assignment (*accueil en délégation*) to CNRS.

**2018 (September 1<sup>st</sup>)-2019 (August 31<sup>st</sup>):** 1 year part-time temporary assignment (*accueil en délégation*) to CNRS.

### Visiting scientist

**2016 (May 25<sup>th</sup>-July 23<sup>th</sup>):** Visiting Scientist (competitive project selection; 3 months) 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).

**2003 (February 1<sup>st</sup>-March 31<sup>st</sup>) and 2004 (February 8<sup>th</sup>-March 9<sup>th</sup>):** Visiting scientist (3 months) 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 MPAs on marine communities.

### Professional experiences (covered by remunerated contracts, e.g. Co.Co.Co, Co.Co.Pro., Occasional Contracts) before the first stable position (equivalent to an employment of a total of 32 months)

**2007 (October 1<sup>st</sup>-November 30<sup>th</sup>):** research contract (2 months) at the Department of Biological and Environmental Sciences and Technologies (DiSTeBA), Lab. Zoology and Marine Biology (University of Lecce), project “ECOFISHMOD”, for research on fishery resources in Apulian Region.

**2005 (February 1<sup>st</sup>-28<sup>th</sup>):** CoNISMa research contract (1 month) at Lab. Zoology and Marine Biology (University of Lecce), project “MIPAF-Spillover”, for research on spillover of fish from marine reserves in northern and southern Adriatic Seas.

**2004 (July 15<sup>th</sup>-August 15<sup>th</sup>):** CoNISMa research contract (1 month) at Lab. Zoology and Marine Biology (University of Lecce), project “MIPAF-Spillover”, for research on spillover of fish from marine reserves in northern and southern Adriatic Seas.

**2000 (April 15<sup>th</sup>)-2001 (April 14<sup>th</sup>):** Research contract (12 months) 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 (October 20<sup>th</sup>-December 20<sup>th</sup>):** Research contract (2 months) 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 (August 6<sup>th</sup>-September 15<sup>th</sup>):** Research contract (1 month) with Prof. G. Albertelli (DIP.TE.RIS., University of Genoa): regulatory plan project of the Port of Genoa (Italy).

**1998 (October 2<sup>nd</sup>-December 2<sup>nd</sup>):** Research contract (6 months) at the Laboratory of Benthic Ecology (Stazione Zoologica ‘A. Dohrn’) in the frame of the project PRISMA II, for research on Adriatic seagrass systems.

- 1996 (May 13<sup>th</sup>–July 13<sup>th</sup>):** Research contract (2 months) 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 (October 2<sup>nd</sup>)-1996 (June 30<sup>th</sup>):** research contract (9 months) at Ligurian Centre of Fishery and Environment (Genoa, Italy) for research on the *Gymnammodytes cicerellus* fishery in the Ligurian Sea.
- 1994 (June 2<sup>nd</sup>-August 1<sup>st</sup>):** research contract (2 months) at Ligurian Centre of Fishery and Environment (Genoa, Italy) for research on special small-scale fisheries in the Ligurian Sea.
- 1993 (October 1<sup>st</sup>–December 31<sup>st</sup>):** contract (3 months) at the Genoa Aquarium.

**Participations to projects, collaborations and other experiences (not covered by remunerated contracts) before the first stable position**

- 2005:** Participation to a research project on the reserve effect at the Marine Protected Area of Tavolara-Punta Coda Cavallo (Italy) using visual census on fish. PIs: C.N. Bianchi & R. Cattaneo-Vietti, Dip.Te.Ris., University of Genoa, Italy.
- 2004:** Participation to the project “FIRB-Fondo per gli Investimenti della Ricerca di Base”. PI: Prof. F. Boero, Laboratory of Zoology and Marine Biology, University of Lecce, Italy.
- 2001:** Participation to the project “Interreg Italy-Albania”, for research on biodiversity of rocky-reef fish assemblages in the southern Adriatic and Ionian Seas. PI: Prof. F. Boero, Laboratory of Zoology and Marine Biology, University of Lecce, Italy.
- 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:** Participation to the project “Interreg Italy-Greece”, for research on rocky-reef fish assemblages and the environmental quality in the Ionian and Adriatic Seas. PI: Prof. F. Boero, Laboratory of Zoology and Marine Biology, University of Lecce, Italy.
- 1999:** Participation to the project “MAT” (Formation processes of mucilages in the Adriatic and Tyrrhenian Seas). PI: Prof. M. Fabiano, at DIP.TE.RIS., University of Genoa, Italy.
- 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.
- 1995:** Research collaboration with Ligurian Centre of Fishery and Environment, (Genoa) for research on 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.

**Qualifications in competitive selections for stable positions**

- 2011:** ‘classé’ in CNRS competition (‘concours 2011’) for DR2, section 45 (multidisciplinary section).
- 2011:** ‘qualified’ (sections 67 and 68) for applying to positions as MCF and PR at French Universities.

### **Participation to international courses**

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

### **Participation to expeditions and oceanographic cruises**

- 2011:** participation to the XXVII Antarctic Italian Expedition at Mario Zucchelli Station, Antarctica (November 4<sup>th</sup> - December 8<sup>th</sup>).
- 1995:** Oceanographic campaigns for research on pelagic environments in the NW Mediterranean (project RIMMO), CERBOM Institute (University of Nice, France).
- 1992-1994:** Participation to 3 trawl-survey campaigns and one oceanographic campaign for research on pelagic environments and Cetaceans (Ligurian Sea, NW Mediterranean - University of Genoa, Italy).

## **Teaching and seminars**

### **University of Nice Sophia Antipolis (UNS) – France**

**AA 2020-2021 – whole service provided (until December 31<sup>th</sup>, 2020)**

#### **Academic courses**

Responsible of the teaching unit: Marine Ecology and Conservation (MSc MARRES-Marine Resources, 24h CM=36h etd).

Participation to other courses: Introduction to Ecology (L1, 44h CM=66h etd).

### **University of Nice Sophia Antipolis (UNS) – France**

**AA 2019-2020 – reduction of teaching duties for the direction of the lab and 1 year part-time temporary assignment - *accueil en delegation* - to CNRS: 24h+96h=120h etd – *decharge*; whole service provided: 102h + 120h=222 h etd**

#### **Academic courses**

Responsible of the teaching unit: Marine Ecology and Conservation (MSc MARRES-Marine Resources, 24h CM=36h etd).

Participation to other courses: Introduction to Ecology (L1, 44h CM=66h etd).

**University of Nice Sophia Antipolis (UNS) – France**

**AA 2018-2019 – reduction of teaching duties for the direction of the lab and 1 year part-time temporary assignment - *accueil en delegation* - to CNRS: 24h+96h=120h etd – *decharge*; whole service provided: 124,5h + 120h=244,5 h etd**

***Academic courses***

Responsible of the teaching units: Marine Ecology (MSc MARRES-Marine Resources, 17h CM + 30h TD-field work=55,5h etd); Marine Ecology and Biology (L3, 2h CM=3h etd).

Participation to other courses: Introduction to Ecology (L1, 44h CM=66h etd).

**AA 2017-2018 – reduction of teaching duties for the direction of the lab: 48h etd – *decharge*: whole service provided: 136.5h + 48h=184,5 h etd**

***Academic courses***

Responsible of the teaching units: Introduction to Ecology (L1, 52h CM=78h etd); Marine Coastal Ecosystems (M2, 9h CM+9h TP-field work=22,5h etd); Marine Ecology and Biology (L3, 10h CM + 14h TP-field work=29h etd).

Participation to other courses: Botany, systematics and phylogeny (L3, 7h TP-field work).

**AA 2016-2017 – reduction of teaching duties for the direction of the lab: 48h etd – *decharge*: whole service provided: 136,5h + 48h=184,5h etd**

***Academic courses***

Responsible of the teaching units: Introduction to Ecology (L1, 52h CM=78h etd); Marine Coastal Ecosystems (M2, 9h CM+9h TP-field work=22,5h etd); Marine Ecology and Biology (L3, 10h CM + 14h TP-field work=29h etd).

Participation to other courses: Botany, systematics and phylogeny (L3, 7h TP-field work).

**AA 2015-2016 – reduction of teaching duties for the direction of the lab: 24h etd – *decharge*: whole service provided: 166h + 24h=190h etd)**

***Academic courses***

Responsible of the teaching units: Introduction to Ecology (L1, 52h CM=78h etd); Marine Coastal Ecosystems (M2, 12h CM + 9h TD-field work=27h etd); Marine Ecology and Biology (L3, 10h CM + 14h TP-field work=29h etd); Communication in Environment (L3, 6h CM + 14h TD-practicals=23h etd).

Participation to other courses: Botany, systematics and phylogeny (L3, 7h TP-practicals); Bibliographic stage (L3, 2h).

**AA 2014-2015 – whole service provided: 215,5 h, etd)**

***Academic courses***

Responsible of the teaching units: Introduction to Ecology and Origin of life (L1, 68h CM=102h etd); Marine Coastal Ecosystems (M2, 15h CM + 15h TP-field work=37,5); Marine Ecology and Biology (L3, 10h CM + 14h TP-field work=29h etd).

Participation to other courses: Communication in Environment (L3, 6h CM + 4h TD-practicals=13h etd); Bibliographic stage (L3, 4h); Environmental risks in natural environments and agroecosystems (L3, 2h CM + 5h TD-field work=8h etd); Botany, systematics and phylogeny (L3, 7h TP-practicals); Diversity of life (L1, 15h TP-practicals).

#### **AA 2013-2014 – whole service provided: 225 h, etd**

##### **Academic courses**

Responsible of the teaching units: Introduction to Ecology and Origin of life (L1, 68h CM=102h etd); Marine Coastal Ecosystems (M2, 14h CM + 9h TP-field work=39h etd); Marine Ecology and Biology (L3, 10h CM + 14h TP-field work= 29h etd).

Participation to other courses: Communication in Environment (L3, 20h TD-practicals=20h etd); Statistics (L3, 8h TP-practicals=8h etd); Bibliographic stage (L3, 2h); Botany, systematics and phylogeny (L3, 7h TP-practicals); Diversity of life (L1, 27h TP-practicals).

#### **AA 2012-2013 – whole service provided: 138h etd**

##### **Academic courses**

Responsible of the teaching units: Introduction to Ecology and Origin of life (L1, 68h CM=102h etd).

Participation to other courses: Communication in Environment (L3, 6h CM + 9h TD-practicals=18h etd), Diversity of life (L1, 18h TP-practicals).

##### **Academic title in Italy**

**1999:** “Cultore della Materia” in ‘Ecology’ and ‘Applied Ecology’ at the University of Genoa (Italy).

##### **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. Master degree (*Laurea Specialistica*) 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. Master degree (*Laurea Specialistica*) 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**

- 2012-2020:** Member of the PhD program in "**Fundamental and Applied Sciences**", University of Nice Sophia Antipolis (Director of the PhD: Prof. E. Taffin-de-givenchy).
- 2009-2012:** Member of the PhD program in "**Fundamental Ecology**", University of Salento (Director of the PhD: Prof. A. Basset).
- 2010-2011:** Member of the restricted committee of the PhD "**Ecology and Climate Change**" supporting the Director and the Teaching Committee.
- 2007:** lecturer of the course of "**Methods in Ecology**" (field of Marine Biology and Ecology) within the post-graduate program "Applied Marine Sciences" (University of Split, University of Dubrovnik, Institute of Oceanography and Fisheries - Croatia).

#### **Lectures within master courses (post-lauream, Italy)**

- 2011:** lecturer (6 h) on "Traditional fisheries: ecological, socio-cultural and management implications" within the Master I level "Coastal Management and Aquatic Resources" (University of Camerino, section at San Benedetto del Tronto, AP - Master Director: Prof. A. Felici).
- 2010:** lecturer (6 h) on "Practical experiences of fishing management in Marine Protected Areas" within the Master I level "Management of rural sustainable development" (University of Bari – Master Director: F. Uricchio).
- 2010:** lecturer (6 h) on "Biodiversity and marine coastal ecosystem functioning: the role of predators from a conservation perspective" within the Master I level "Marine environmental excellences: management, conservation and sustainable fruition" (University of Genoa – Master Director: M. Palumbo).
- 2010:** lecturer (12 h) on "Small-scale coastal fisheries: ecological, cultural and management implications" within the Master I level "Coastal Management and Aquatic Resources" (University of Camerino, section at San Benedetto del Tronto, AP - Master Director: Prof. A. Felici).
- 2008:** lecturer (10 hours) on "Traditional cultures, environment and sustainable tourism" within the international Master II level "Valorization of Cultural Heritage-Cultural manager for management of sustainable tourism" (University of Salento, Scuola Superiore ISUFI – Master Director: Prof. A. Fino).



**2007:** lecturer (4 hours) on “Conservation, fisheries, natural heritage and traditional knowledge” within the Master “Valorization of Cultural Heritage” (University of Salento, Scuola Superiore ISUFI – Master director: Prof. S. Adamo).

### ***Lectures in summer schools and non-academic 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***

**2022:** no. 1 seminar entitled “The use of underwater fish visual census for monitoring Marine Protected Areas”, University of Genoa, Italy.

**2019:** no. 1 seminar entitled “Signals and responses of marine communities to the changes induced by the selective fishery of key species”, University of Padua, Italy.

**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

#### 2019

- Marie Detroy, report entitled "Sustainable and responsible sea food chain supply (from small scale fishing to restaurants) in the Mediterranean: a case study in the Department 06 (France)" (DE MARRES-Marine Resources). Master 1.

#### 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 (equiv. master 1 and 2) 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 mackerel (*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 “Otolith 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/UCA (France)**

**2018-2021:** tutor of the PhD Thesis in Fundamental and Applied Sciences at UCA (co-tutor: P. Pierson, UCA, Nice, France), entitled "Impact of noise pollution on Mediterranean sparid settlers"; Eugenio Di Franco.

**2017-2020:** tutor of the PhD Thesis in Fundamental and Applied Sciences at UCA (co-tutor: V. Raybaud, UCA, Nice, France), entitled "Modélisation des aires de répartition futures d'espèces marines d'intérêt commercial en Méditerranée dans un contexte de changement climatique"; Alexandre Schickele (presently Post-doc contractor at Villefranche-sur-mer, CNRS, France).

**2016-2019:** tutor of the PhD Thesis in "Bioscience - Evolution, Ecology and Conservation" at University of Padova (co-tutor: Carlotta Mazzoldi, University of Padova, Italy), entitled "Reproductive behaviours of groupers (Epinephelidae) in the Tavolara Punta Coda Cavallo Marine Protected Area (NW Mediterranean Sea)"; Elena Desiderà (presently Post-doc Researcher at CoNISMa (Interuniversity National Consortium for Marine Sciences).

**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 (presently Project Officer at WWF-MI).

### **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 (presently Senior Fisheries Officer at WWF-France).

**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 (presently Researcher at National Center for Research, Italy).

**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 (presently Researcher at the Stazione Zoologica “A. Dohrn”, Naples, Italy).

**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 (presently Officer at Regione Apulia-Dept. Environment, Italy).

### **Member of examination committees for temporary and stable positions**

**2021:** member (expert) of the evaluation committee for a position of Director of the Portofino Marina Protected Area. Santa Margherita Ligure (GE), Italy.

**2019:** president of the evaluation committee for a position of a researcher in “Marine ecology and conservation” at the Stazione Zoologica “A. Dohrn” di Napoli, Italy.

**2018:** examiner of a candidate for tenure from Professor to Tenured Professor as a member of the Department of Biology in the Faculty of Arts and Sciences (FAS) at the American University of Beirut (AUB), Lebanon.

**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:** examiner of a candidate for promotion to the rank of Full Professor as a member of the Department of Biology in the Faculty of Arts and Sciences (FAS) at the American University of Beirut (AUB), Lebanon.

**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**

- 2021:** Clara Ulrich. Report entitled "Pêcheries mixtes, captures accessoires et rejets dans la Politique Commune de la Pêche. Exemple des pêcheries démersales en Mer du Nord". Université de Nantes, France.
- 2020:** Marie-Yasmine Dechraoui Bottein. Report entitled "Toxines marine naturelles : sort, mécanismes d'action et surveillance dans l'environnement". Sorbonne Université, France.
- Bastien Merigot. Report entitled "Biodiversité des communautés exploitées par la pêche : approches méthodologiques quantitatives et innovation technologique dans une perspective de conservation". Université de Montpellier, France.
- 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.
- 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/ Université Côte d'Azur**

- 2017:** Elisabeth Riera. PhD dissertation: "Vers une construction raisonnée d'une nouvelle génération de récifs artificiels : analyses comparatives des facteurs intrinsèques favorisant leur colonisation de micro à la macro-échelle". Université Côte d'Azur, France: 232 pp.
- 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/ Université Côte d'Azur)**

**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 Spain**

**2019:** Irene Rojo Moreno. PhD dissertation: "Effects of protection on predatory fish populations: ecological mechanisms and implications for management". University of Murcia, Spain: 223 pp.

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

**2020:** Member of the jury committee of the PhD in "Biosciences and Biotechnologies-Evolutionary Biology", University of Padua (Italy; February 21<sup>th</sup>, 2020).

- Member of the jury committee of the PhD in "Sciences and Technologies for Environment and the Landscape (STAT) - XXXII cycle in Marine Science", University of Genoa (Italy; May 11<sup>th</sup>, 2020).

**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).

- Member of the jury committee of the PhD in "Earth, Environmental and Polar Sciences", University of Siena (Italy; March 6<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 report 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**

#### **Lab direction**

**2021-present:** Coordinator/Director of the 'Genoa Marine Centre', Stazione Zoologica Anton Dohrn–National Institute of Marine Biology, Ecology and Biotechnology, Genoa, Italy.

**2016-2020:** Director of the Research Unit ECOSEAS (UMR 3570, previously FRE 3729 ECOMERS; CNRS & University Nice Sophia Antipolis// Université Côte d'Azur, 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).

#### **Participation to international research projects without budget management**

**2022-2025:** participation to the project "MarinePlan-Improved transdisciplinary science for effective ecosystem-based maritime spatial planning and conservation in European Seas", funded by EU's Horizon 2020 research and innovation programme HORIZON-CL6-2021-BIODIV-01-12 (grant agreement no 101059407).

**2022-2024:** participation to the "Mapping of marine protected areas and their associated fishing activities: Mediterranean and Black Seas-MAPAFISH-MED", under Framework Contract – EASME/2020/OP/0021 (EMFF/2020/3.2.4)

**2021:** participation to the project "FishMPABlue2 PLUS - Transferring FishMPABlue2 approach to sustainably manage Small Scale Fisheries in Mediterranean MPAs", EU-MED.

**2019-2022:** participation to the "SeaChanges-Thresholds in human exploitation of marine vertebrates" (H2020-MSCA-ITN-2018) project, funded by the EU Framework Programme for Research and Innovation "Horizon 2020" (grant agreement no. 813383).

**2012-2015:** participation to the project "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:** participation to the project "Training Network for Monitoring Mediterranean Marine Protected Areas- MMMPA" – People Programme 7<sup>th</sup> Framework Programme EU; PI: Carlo Cerrano.

**2006-2009:** participation to the project Pew Fellows Program in Marine Conservation Fellowship, Pew Institute for Ocean Science; Project: "Assessing the health of Mediterranean coastal ecosystems", PI: Enric Sala.

**2005-2009:** participation to the 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)".

#### **Coordination, Principal Investigator (PI) and/or Participation to international research projects with budget management**

**2019-2021:** PI of the project "NAUTILUS - Marine noise in the Ligurian Sea: from systematic signal analysis to the impact on marine species", funded by the Academy 3 (Espace, Environnement, Risques et Résilience)

of UCA<sup>JEDI</sup> (funds to UCA 93,350 €).

**2016-2019:** WP leader in the frame of the Project “Fishery governance within MPAs: potential for blue economy-2” (FishMPABlue2), EU-MED (funds to UNS, 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; funds to UNS, 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 (funds to UNS, 75,000 €).

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

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

**2022-2024:** Principal investigator of the research project "Nature-based solutions for marine biodiversity conservation and sustainable development of the Ligurian Seas-SUNRISE", funded by 'Compagnia San Paolo Foundation' (funds to SZN, 199.000 €).

**2021:** Principal investigator of the research project "Empowering the legacy of MAVA Mediterranean - Scaling up co-managed and financially sustainable No-Take Zones/Marine Protected Areas", funded by WWF Italy (funds to SZN, 10.000 €).

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

**2015-2017:** Principal investigator of the research project "SCIMARMED (SCIENCE of MARine protected areas-MEDiterranean)", funded by Total Foundation, France (funds to UNS, 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 (funds to UNS, 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 (overall funds, 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 (funds to UNS, 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 (funds to UNS, 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-Italy***

**2022-2024:** Scientific responsible of the operative unit SZN-Genoa Marine Center within the PRIN (Projects of Relevant National Interest) project entitled " Preserving coastal marine ecosystem functions and services under climate change pressure and overfishing", funded by MUR (funds to SZN: 179,750 €).

- 2021-2023:** Scientific responsible (operative unit SZN-Genoa Marine Center) of the research project “Programma di monitoraggio sulla fauna ittica costiera- Marine Strategy”, funded by ISPRA and the Italian Ministry of the Ecological Transition (funds to SZN: 300,000 €).
- 2020:** Scientific responsible (operative unit CoNISMa-UNS, Nice) of the research project “Programma di monitoraggio sulla fauna ittica costiera- Marine Strategy”, funded by ISPRA and the Italian Ministry of the Environment (130,000 €).
- 2016-2017:** Scientific responsible (operative unit CoNISMa-UNS, Nice) 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 (operative unit CoNISMa-UNS, Nice) 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 Protected Areas 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)***

**2021-2025:** Scientific responsible (Genoa Marine Centre, SZN) of 6 projects dealing with monitoring artisanal fisheries and fish assemblages at 3 MPAs (Tavolara-Punta Coda Cavallo, Villasimius-Capo Carbonara, Cinque Terre) (total funds to SZN: 162,000 €).

**2016-2020:** Scientific responsible of 13 projects dealing with monitoring artisanal fisheries and fish assemblages at 5 MPAs (Torre Guaceto, Tavolara-Punta Coda Cavallo, Villasimius-Capo Carbonara, Asinara, Capo Caccia-Isola Piana) (total funds: 312,800 €, managed via CoNISMa).

**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 funds: 352,300 €, managed via CoNISMa).

**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 funds: 148,400 €, managed via CoNISMa).

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

**2021-present:** National Expert for the SPAMI Ordinary Periodic Review (2020-2021) for the MPA “Isola Tavolara-Capo Coda Cavallo”, Italy.

**2021-present:** Member of the Technical-Scientific Committee of the “Cinque Terre Marina Protected Area”.

**2020-present:** Member of the Scientific Committee of the French association “Responsible Demography”.

**2017-2020 / 2021-2025:** Commission Member of the IUCN’s World Commission on Protected Areas – Marine (WCPA – MMED-Commission Group IUCN WCPA Europe).

**2017-2018:** Member of the International Scientific Committee of the GFCM FishForum (FAO).

**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).

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

**2010-2018:** 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.

**2010-2012:** member of the Committee 'Coastal Zone' of the Italian Society of Marine Biology (SIBM).

**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:** Member of the IUCN's World Commission on Protected Areas – Marine (WCPA – MMED).

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

- 2021:** MPA Forum, Monaco (Principality of Monaco), Moderator of the session "What level of protection for what management effectiveness?" (Thematic area "Legislation and enforcement"), November 30<sup>th</sup>, 2021.
- 2020:** member of International Scientific Committee for the Workshop of Marine Reserves within the International Symposium on Marine Science (ISMS), Barcelona (Spain), 1st-3rd July, 2020.
- 2018:** convener and member of the International Scientific Committee for the Forum on Fisheries Sciences in the Mediterranean and the Black Sea, Rome (Italy), 10-14th December, 2018.
- 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***

- 2019:** working group member and participation to the international meeting "The MPA Guide authors meeting" at the Oceanographic Institute, Paris, France (May 20<sup>th</sup>–21<sup>st</sup>).
- 2017:** participation as 'French Delegate-Expert' to "The Ocean Conference". United Nations Headquarters, New York, USA (June 5–9<sup>th</sup>).
- 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>).

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

- 2021:** "The MPA Guide: A framework to achieve global goals for the ocean". MPA Forum, Monaco (Principality of Monaco), November 28<sup>th</sup>-December 1<sup>st</sup>, 2021.
- "Strictly protected MPAs: need for serious actions". MPA Forum, Monaco (Principality of Monaco), November 28<sup>th</sup>-December 1<sup>st</sup>, 2021.
  - "The need to have more 'strictly & seriously' protected MPAs in the Mediterranean Sea". HydroMedit 2021. 4<sup>th</sup> International Congress on Applied Ichthyology, Oceanography and Aquatic Environment, November 4-6<sup>th</sup> 2021, Greece (virtual).
  - "The vital role of marine "highly" protected areas for biodiversity and society". IUCN World Conservation Congress. Med Stand Theme 4: Financing Nature Conservation in the Mediterranean (Coordinated by Fondation MAVA) - Session 3: Conservation Trust Funds in the Mediterranean. Marseille, September 7<sup>th</sup> 2021.
  - "Marine Protected Areas and the need to have more 'strict' protection in EU seas". Online meeting of the Marine Expert Group (MEG) under the Birds and Habitats Directives of 22 & 23 February 2021. EU DG ENV. Directorate D – Natural Capital ENV.D.3 - Nature Protection.
- 2019:** "The local sustainable development, the natural capital and the management of environmental resources, the environmental accountability of the Tavolara Punta Coda Cavallo MPA". Organizzatori: Organised by: Tavolara Punta Coda Cavallo MPA, University of Sassari, Italian Ministry of the Environment. Olbia (Italy), April 12<sup>th</sup>, 2019.
- 2018:** "Sustainable fisheries in Marine Protected Areas". Organised by: Federparchi, Alleanza delle Cooperative Italiane, GAL Terra d'Arneo. Porto Cesareo (Lecce, Italy), October 4-6, 2018.
- 2016:** "Marine Protected Areas in the Mediterranean Sea: from their potential to reality". IMMR-International Meeting on Marine Research, Peniche (Portugal), July 14<sup>th</sup>, 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) ;
- Israelian Science Foundation (ISF; Israel).

### **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 (until January 2021).
- Handling Editor of the international journal *Aquatic Conservation: Marine and Freshwater Ecosystems*, Wiley Publisher.
- Handling Editor of the international journal *Marine Ecology*, 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 and magazines, radio and TV-newspapers interviews**

- Collaboration/interviews for articles appeared on the Magazines: i) National Geographic (Italy), ii) L'Espresso; iii) Ossigeno.
- Collaboration/interviews for articles appeared on the Newspapers Nice-Matin (France), Il Secolo XIX, Repubblica (Italy).
- Interviews (n. 2) on the radio programmes: i) "Radio 3-Scienza"; Radio 105.
- Interview on the TV programmes: i) "Preso Diretta" (RAI 3, Italy), ii) "Speciale TG1" (RAI 1, Italy); iii) "Programmi dell'accesso" (RAI 3-Regionale, Italy).

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

#### **2022**

Public presentation entitled "The role of Marine Protected Areas and the conservation of the marine coastal environment". La Difesa del Mare-System Port Authority MLO. La Spezia, October 12<sup>th</sup>, 2022.

Public presentation entitled "The challenge of marine conservation in the next decade". Liguria Region-Transumare Festival. Genoa, May 27<sup>th</sup>, 2022.

Public presentation entitled "Marine Protected Areas and technologies to support biodiversity in the 'urban' marine environment: examples of 'nature-based solutions' serving the 'blue economy'". Genoa Blue District, Blue Vision-Verso Ocean Race, Genoa, May 3<sup>rd</sup>, 2022.

#### **2021**

Public presentation entitled "Boosting marine "biodiversity" and the introduction of artificial structures and substrates in the marine environment". Genoa Blue District-Progetti con la città. Genoa, December 15<sup>th</sup>, 2021.

Public presentation entitled "Marine protected area sas tools for biodiversity conservation and sustainable socio-economic development". Blue Economy Summit (October 13-16<sup>th</sup>, 2021), fourth edition. Section "Environment and sustainability of the maritime ecosystem: ideas and conservation paths embracing the actors of Blue Economy". Genoa, October 14<sup>th</sup> 2021.

Public presentation entitled "Reconciling conservation objectives with the socio-economic development from the sustainability perspective". Liguria Region: Presentation Day for the touristic sector in Liguria (spring–summer 2021), Genoa, September 13<sup>th</sup>, 2021.

Presentation (online) to the students of the "G. Mazzini" classic high school entitled: "The bio-ecologic and social consequences of climate change in the Mediterranean". Genoa, June 17<sup>th</sup>, 2021.

Presentation (online) to the members of the Rotary-Club of Genoa entitled: "How to protect a precious, but fragile environmental and socio-economic resource: the sea". Genoa, May 17<sup>th</sup>, 2021.

#### **2019**

Public presentation entitled "Techniques of sustainable and artisanal fishing, from the past to the present". Nice Cool & Verte, Nice (France), June 16<sup>th</sup> 2019.

Public presentation entitled “Sustainable seafood and small-scale fishing: from the scientific bases to education”.  
Slow Fish, Genoa (Italy), May 11<sup>th</sup>, 2019.

## **2018**

Public presentation entitled “Fishing, fish and sustainability”. Conference “There will be some fish in our plates in the future?”, organised by the *Centre de Découverte du Monde Marin* at MAMAC (Museum of Modern and Contemporary Art), Nice (France), November 9<sup>th</sup>, 2018.

Public workshop entitled “Small-scale fisheries in the Mediterranean: contributing to solutions not problems” organized in the frame of the Monaco Ocean Week (from 9 to 15 April, 2018).

Public presentation entitled “Artisanal fishing in the Mediterranean between past, present and future”. Conference “The jump of the anchovy”, Laigueglia (Savona, Italy), October 20-21<sup>th</sup>, 2018.

## **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 MARBEC., Montpellier. Bouzigues (France) May-November 2017 (member of the scientific committee).

## **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.

## **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.

## **2013**

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

## **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.

#### **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.

#### **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.

## Other

### Languages

Native language(s): Italian and Genoese  
Other language(s): English (proficient user C1: understanding, speaking, writing)  
French ((proficient user C1: understanding, speaking, writing)  
Modern Greek (very basic)  
(\* [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: II).
- 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).

## Publications

(Google scholar link: <https://scholar.google.it/citations?user=OTidOmQAAAAJ&hl=en>)

**Total number of IF publications: 161**

**Number of IF publications authored as first name: 56**

**Number of IF publications authored as last name: 44**

**Total impact factor (SCI Journal Citation Reports 2019) = 657.8**

**H index ISI = 41; H index Google Scholar = 56; H index RG = 56.**

**Publication with highest IF: Nature (IF=42.8)**

**Mean IF: 4.1**

**Sum of the Times Cited: 5442**

**Early view (on ISI journals with impact factor; n=0)**

**Papers published (on ISI journals with impact factor; n=161)**

1. Calò A., Di Franco A., Quattrocchi F., Dimitriadis C., Ventura P., Milazzo M., **Guidetti P.**, 2022. Multi-specific small-scale fisheries rely on few, locally essential, species: Evidence from a multi-area study in the Mediterranean. *Fish and Fisheries*, 23, 1299–1312. <https://doi.org/10.1111/faf.12689>
2. Di Lorenzo, M., Calò, A., Di Franco, A., Milisenda G., Aglieri G., Cattano C., Milazzo M., **Guidetti P.**, 2022. Small-scale fisheries catch more threatened elasmobranchs inside partially protected areas than in unprotected areas. *Nature Communications*, 13, 4381. <https://doi.org/10.1038/s41467-022-32035-3>
3. Canessa M., Bavestrello G., **Guidetti P.**, Navone A., Trainito E., 2022. Marine rocky reef assemblages and lithological properties of substrates are connected at different ecological levels. *The European Zoological Journal*, 2022, 813–826 <https://doi.org/10.1080/24750263.2022.2095045>
4. Bussotti S., **Guidetti P.**, Rossi F., 2022. *Posidonia oceanica* wrack beds as a fish habitat in the surf zone. *Estuarine, Coastal and Shelf Science*, 272: 107882. <https://doi.org/10.1016/j.ecss.2022.107882>
5. Desiderà E., Mazzoldi C., Navone A., Panzalis P., Gervaise C., **Guidetti P.**, Iorio L.D., 2022. Reproductive behaviours and potentially associated sounds of the mottled grouper *Mycteroperca rubra*: implications for conservation. *Diversity*, 14: 318. <https://doi.org/10.3390/d14050318>
6. Thiriet P.D., Di Franco A., Cheminée A., Mangialajo L., **Guidetti P.**, Branthomme S., Francour P., 2022. Adaptive vertical positioning as anti-predator behavior: the case of a prey fish cohabiting with

- multiple predatory fish within temperate marine algal forests. *Animals*, 12(7), 826. <https://doi.org/10.3390/ani12070826>
7. Carbonara P., Ciccolella A., De Franco F., Palmisano M., Bellodi A., Lembo G., Neglia C., Spedicato M.T., Zupa W., **Guidetti P.**, 2022. Does fish growth respond to fishing restrictions within Marine Protected Areas? A case study of the striped red mullet in the south-west Adriatic Sea (central Mediterranean). *Aquatic Conservation: Marine and Freshwater Ecosystems*, 32: 417-429. <https://doi.org/10.1002/aqc.3776>
  8. Frascchetti S., Fabbriizzi E., Tamburello L., Uyarra M.C., Micheli F., Sala E., Pipitone C., Badalamenti F., Bevilacqua S., Boada J., Cebrian E., Ceccherelli G., Chiantore M.C., D'Anna G., Di Franco A., Farina S., Giakoumi S., Gissi E., Guala I., **Guidetti P.**, Katsanevakis S., Manea E., Montefalcone M., Sini M., Asnaghi V., Calò A., Di Lorenzo M., Garrabou J., Musco L., Oprandi A., Rilov G., Borja A., 2022. An integrated assessment of the Good Environmental Status of Mediterranean Marine Protected Areas. *Journal of Environmental Management*, 305: 114370. <https://doi.org/10.1016/j.jenvman.2021.114370>
  9. Desiderà E., Trainito E., Navone A., Blandin R., Magnani L., Panzalis P., Mazzoldi C., **Guidetti P.**, 2021. Using complementary visual approaches to investigate residency, site fidelity and movement patterns of the dusky grouper (*Epinephelus marginatus*) in a Mediterranean marine protected area. *Marine Biology*, 168: 111. <https://doi.org/10.1007/s00227-021-03917-9>
  10. Schickele A., **Guidetti P.**, Giakoumi S., Zenetos A., Francour P., Raybaud V., 2021. Improving predictions of invasive fish ranges combining functional and ecological traits with environmental suitability under climate change scenarios. *Global Change Biology*, 27: 6086–6102. <https://doi.org/10.1111/gcb.15896>
  11. Grorud-Colvert K., Sullivan-Stack J., Roberts C., Constant V., Horta e Costa B., Pike E.P., Kingston N., Laffoley D., Sala E., Claudet G., Friedlander A.M., Gill D.A., Lester S.E., Day J.C., Gonçalves E.J., Ahmadi G.N., Rand M., Villagomez A., Ban N.C., Gurney G.G., Spalding A.K., Bennett N.J., Briggs J., Morgan L.E., Moffitt R., Deguignet M., Pikitch E.K., Darling E.S., Jessen S., Hameed S.O., Di Carlo G., **Guidetti P.**, Harris J.M., Torre J., Kizilkaya Z., Agardy T., Cury P., Shah N.J., Sack K., Cao L., Fernandez M., Lubchenco J., 2021. The MPA Guide: A Framework to Achieve Global Goals for the Ocean. *Science*, 373: 1-10. [DOI: 10.1126/science.abf0861](https://doi.org/10.1126/science.abf0861)
  12. Bevilacqua S., Airoldi L., Ballesteros E., Benedetti-Cecchi L., Boero F., Bulleri F., Cebrian E., Cerrano C., Claudet J., Colloca F., Coppari M., Di Franco A., Frascchetti S., Garrabou J., Guarnieri G., Guerranti C., **Guidetti P.**, Halpern B.S., Katsanevakis S., Mangano M.C., Micheli F., Milazzo M., Pusceddu A., Renzi M., Rilov G., Sarà G., Terlizzi A., 2021. Mediterranean rocky reefs in the Anthropocene: Present status and future concerns. *Advances in Marine Biology*, 89: 1-51. <https://doi.org/10.1016/bs.amb.2021.08.001>
  13. Di Franco A., Calò A., De Benedetto G.E., Ghigliotti L., Pennetta A., Renard M.D.M., Pisano E., Vacchi M., **Guidetti P.**, 2021. Otolith chemical composition suggests local populations of Antarctic silverfish *Pleuragramma antarctica* (Boulenger, 1902) around Antarctica are exposed to similar environmental conditions at early life stages. *Polar Biology* 44: 1979–1991 <https://doi.org/10.1007/s00300-021-02932-2>

14. **Guidetti P.**, Bottaro M., Ciccolella A., Danovaro R., 2021. Marine protected areas and endangered shark conservation. *Aquatic Conservation: Marine and Freshwater Ecosystems*, 31: 2671-2672. <https://doi.org/10.1002/aqc.3650>
15. Di Franco E., Di Franco A., Calò A., Di Lorenzo M., Mangialajo L., Bussotti S., Bianchi C.N., **Guidetti P.**, 2021. Inconsistent relationships among protection, benthic assemblage, habitat complexity and fish biomass in Mediterranean temperate rocky reefs. *Ecological Indicators* 128: 107850 <https://doi.org/10.1016/j.ecolind.2021.107850>
16. Aglieri G., Baillie C., Mariani S., Cattano C., Calò A., Turco G., Spatafora D., Di Franco A., Di Lorenzo M., **Guidetti P.**, Milazzo M., 2020. Environmental DNA effectively captures functional diversity of coastal fish communities. *Molecular Ecology*, 30: 3127-3139. <https://doi.org/10.1111/mec.15661>
17. Vilas D., Coll M., Corrales X., Steenbeek J., Piroddi C., Calò A., Di Franco A., Font T., **Guidetti P.**, Ligas A., Lloret J., Prato G., Sahyoun R., Sartor P., Claudet J., 2020. The effects of marine protected areas on ecosystem recovery and fisheries using a comparative modelling approach. *Aquatic Conservation: Marine and Freshwater Ecosystems*, 30: 1885–1901. <https://doi.org/10.1002/aqc.3368>
18. Di Franco E., Pierson P., Di Iorio L., Calò A., Cottalorda J.M., Derijard B., Di Franco A., Galvé A., Guibbolini M., Lebrun J., Micheli F., Priouzeau F., Risso-de Faverney C., Rossi F., Sabourault C., Spennato G., Verrando P., **Guidetti P.**, 2020. Effects of marine noise pollution on Mediterranean fishes and invertebrates: A review. *Marine Pollution Bulletin*, 159, 111450. <https://doi.org/10.1016/j.marpolbul.2020.111450>
19. Di Lorenzo M., **Guidetti P.**, Di Franco A., Claudet J., 2020. Assessing spillover from marine protected areas and its drivers: A meta-analytical approach. *Fish and Fisheries*, 21: 906-915. DOI: 10.1111/faf.12469
20. Belharet M., Di Franco A., Calò A., Mari L., Claudet J., Casagrandi R., Gatto M., Lloret J., Sève C., **Guidetti P.**, Melià P., 2020. Extending full protection inside existing marine protected areas, or reducing fishing effort outside, can reconcile conservation and fisheries goals. *Journal of Applied Ecology*, 57: 1948-1957. <https://doi.org/10.1111/1365-2664.13688>
21. Gerovasileiou V., Akyol O., Al-Hosne Z., Alshikh Rasheed R., Ataç E., Bello G., Četković I., Corsini-Foka M., Crocetta F., Denitto F., **Guidetti P.**, Gül B., Insacco G., Jimenez C., Licchelli C., Lipej L., Lombardo A., Mancini E., Marletta G., Michailidis N., Pešić A., Poursanidis D., Refes W., Sahrroui H., Thasitis I., Tiralongo F., Tosunoğlu Z., Trkov D., Vazzana A., Zava B., 2020. New records of rare species in the Mediterranean Sea (May 2020). *Mediterranean Marine Science*, 21 (2), 340-359. [doi:https://doi.org/10.12681/mms.22148](https://doi.org/10.12681/mms.22148)
22. Di Franco A., Hogg K.E., Calò A., Bennett N.J., Sévin-Allouet M.A., Esparza Alaminos O., Lang M., Koutsoubas D., Prvan M., Santarossa L., Niccolini F., Milazzo M., **Guidetti P.**, 2020. Improving marine protected area governance through collaboration and co-production. *Journal of Environmental Management* 269 (2020) 110757. <https://doi.org/10.1016/j.jenvman.2020.110757>
23. Corrales X., Vilas D., Piroddi C., Steenbeek J., Claudet J., Lloret J., Calò A., Di Franco A., Font T., Ligas A., Prato G., Sahyoun R., Sartor P., **Guidetti P.**, Coll M., 2020. Multi-zone marine protected

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## Obituaries

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2. **Guidetti P.**, Harmelin-Vivien M., Raybaud V., Piasecki W., 2020. In Memoriam, Professor Patrice Francour (13 April 1960–13 October 2019)<sup>1</sup>. *Acta Ichthyologica et Piscatoria*, 50 (2): 237–245.

## Annex 1 – Detailed list of scientific monitoring projects carried out at Italian MPAs

### **Year 2021-2025 (n. 6 projects; total: 162,000 €)**

**2022:** Scientific responsible of the research project “Assessment of the reserve effect at the MPA Isola di Bergoggi MPA by using fish visual census-bis”, funded by the Marine Protected Area of Isola di Bergoggi MPA (funds to SZN: 8,000 €).

**2022:** Scientific responsible of the research project “Assessment of the reserve effect at the MPA Isola di Bergoggi MPA by using fish visual census”, funded by the Marine Protected Area of Isola di Bergoggi MPA (funds to SZN: 14,000 €).

**2022-2023:** Scientific responsible of the research project “Monitoring the reserve effect of the Cinque Terre MPA via the fish fauna-2022”, funded by the Marine Protected Area of Cinque Terre (funds to SZN: 28,000 €).

**2021-2023:** Scientific responsible of the research project “Experimental assessment of the conservation status of fish assemblages at the Capo Carbonara MPA”, funded by the Marine Protected Area of Capo Carbonara MPA (funds to SZN: 42,000 €).

**2021-2023:** Scientific responsible of the research project “Experimental assessment of the conservation status of fish assemblages at the Tavolara-Punta Coda Cavallo MPA”, funded by the Marine Protected Area of Tavolara-Punta Coda Cavallo MPA (funds to SZN: 42,000 €).

**2021-2022:** Scientific responsible of the research project “Monitoring the reserve effect of the Cinque Terre MPA via the fish fauna-2021”, funded by the Marine Protected Area of Cinque Terre (funds to SZN: 28,000 €).

### **Year 2016-2020 (n. 13 projects; total: 312,800 €)**

**2020-2021:** Scientific responsible of the research project “Torre Guaceto MPA-Environmental Monitoring”, funded by the Marine Protected Area of Torre Guaceto (25,000 €).

**2020-2021:** Scientific responsible of the research project “Experimental monitoring of the conservation status of the fish fauna at the Tavolara-Punta Coda Cavallo MPA” funded by the Tavolara-Punta Coda Cavallo MPA and the Italian Ministry of the Environment (14,000 €).

**2020:** Scientific responsible of the research project “Assessing fish fauna in the CapoCarbonara MPA” funded by the National Marine Park of Asinara and the Italian Ministry of the Environment (10,000 €).

**2020:** Scientific responsible of the research project “Assessing fish fauna in the National Marine Park of Asinara” funded by the National Marine Park of Asinara and the Italian Ministry of the Environment (23,000 €).

**2019:** Scientific responsible of the research project “Monitoraggio della pesca professionale in AMP Capo Caccia-Isola Piana (piccola pesca artigianale)”, funded by the “Azienda Speciale Parco di Porto Conte - Ente gestore dell’Area Marina Protetta Capo Caccia, Isola Piana MPA” and the Italian Ministry of the Environment (39,000 €).

**2019:** Scientific responsible of the research project “Study and monitoring of the fish fauna according to the VIA 0000035 (06.02.2018) in the frame of the executive realization of works for enlarging the Porto Torres (SS) port”, funded by SALES spa (Rome) (14,000 €).

**2018-2019:** Scientific responsible of the research project “Monitoring reserve effect at the Tavolara-Punta Coda Cavallo MPA” funded by the Tavolara-Punta Coda Cavallo MPA and the Italian Ministry of the Environment (12,000 €).

**2018:** Scientific responsible of the research project “Torre Guaceto MPA and local artisanal fisheries” funded by the Marine Protected Area of Torre Guaceto and the Italian Ministry of Agriculture, Alimentation, Forests and Tourism (22,000 €)

**2018-2020:** Scientific responsible of the research project “Marine Strategy Framework Directive - sub-program: 2.12 fish fauna in the MPA of Cinque Terre” funded by the National Marine Park of Cinque Terre and the Italian Ministry of the Environment (25,000 €)

**2018:** Scientific responsible of the research project “Marine Strategy Framework Directive - sub-program: 2.12 fish fauna in the National Marine Park of Asinara” funded by the National Marine Park of Asinara and the Italian Ministry of the Environment (39,800 €)

**2018:** Scientific responsible of the research project “Marine Strategy Framework Directive - sub-program: 2.12 fish fauna in the Marine Protected Area of Torre Guaceto” funded by the MPA of Torre Guaceto and the Italian Ministry of the Environment (24,500 €)

**2018:** Scientific responsible of the research project “Monitoring reserve effect at the Tavolara-Punta Coda Cavallo MPA” funded by the Tavolara-Punta Coda Cavallo MPA and the Italian Ministry of the Environment (10,000 €).

**2018:** Scientific responsible of the research project “Quali-quantitative data collection on the fauna within the Capo Carbonara (Sardinia, Italy) MPA within the frame of the Marine Strategy” funded by the University of Cagliari and the Italian Ministry of the Environment (12,000 €).

**2016-2017:** Scientific responsible of the research project “Monitoring reserve effect at the Tavolara-Punta Coda Cavallo MPA” funded by the Tavolara-Punta Coda Cavallo MPA and the Italian Ministry of the Environment (12,000 €).

**2016-2017:** Scientific responsible of the research project “Fishing and fish assemblage monitoring in the framework of the Marine Strategy Platform” funded by the MPA of Torre Guaceto (30,500 €).

***Year 2011-2015 (n. 19 projects; total: 352,300 €)***

**2014-2016:** Scientific responsible of the research project “Preliminary assessment of the effect of attraction exerted by the rodenticid pellet on coastal marine fish species in some test sites around the Tavolara Island MPA, Italy”, funded by Nemo s.r.l. (Italy) (30,200 €).

**2014-2015:** Scientific responsible of the research project “Fishing and fish assemblage monitoring in the framework of the environmental accounting” funded by the MPA of Torre Guaceto (18,300 €).

**2014:** Scientific responsible of the research project “Monitoring reserve effect at the Tavolara-Punta Coda Cavallo MPA” funded by the Tavolara-Punta Coda Cavallo MPA and the Italian Ministry of the Environment (10,000 €).

**2014:** Scientific responsible of the research project: "Assessing fish fauna: relationship between reserve effects and artisanal fishing towards the sustainability at the 'Tavolara-Punta Coda Cavallo' MPA, funded by the Tavolara-Punta Coda Cavallo MPA and the Italian Ministry of the Environment, MATTM (40,000 €).

**2013-2014:** Scientific responsible of the research project "Assessing coastal fish assemblages and the effects of protection at the Portofino MPA" funded by the MPA of Portofino (10,000 €).

**2013-2014:** Scientific responsible of the research project "Assessing coastal fish assemblages and the effects of protection at the Bergeggi MPA" funded by the MPA of Bergeggi (20,000 €).

**2013-2014:** scientific co-responsible for the fish fauna within the project "Scientific and management data and information gathering according to the ASPIM protocol-Isole Tremiti MPA", funded by the MPA of Isole Tremiti (3,000 €).

**2013-2014:** Scientific responsible of the research project "Guidelines elaboration for management of the Torre Guaceto MPA" funded by the MPA of Torre Guaceto (19,000 €).

**2013-2014:** Scientific responsible of the research project "Monitoring small-scale traditional and recreational fisheries at the Penisola del Sinis - Isola di Mal di Ventre MPA" funded by the Penisola del Sinis-Isola Mal di Ventre MPA and the Sardinia Region (20,000 €).

**2013-2014:** Scientific responsible of the research project "Monitoring the demersal fish fauna and macroinvertebrates at the Secche di Tor Paterno MPA" funded by the regional management body "Roma-Natura (43,000 €).

**2012-2013:** Scientific responsible of the research project "Monitoring reserve effect and nursery potential of coastal habitats at the Tavolara-Punta Coda Cavallo MPA" funded by the Tavolara-Punta Coda Cavallo MPA and the Italian Ministry of the Environment (10,000 €).

**2012-2013:** Scientific responsible of the research project "Monitoring the reserve effects on the fish fauna and artisanal fisheries at Isole Tremiti MPA" funded by the Isole Tremiti-Parco del Gargano MPA and the Italian Ministry of the Environment (25,000 €).

**2011-2012:** Scientific responsible of the research project "Investigating small-scale traditional fisheries at the Penisola del Sinis - Isola di Mal di Ventre MPA" funded by the Penisola del Sinis-Isola Mal di Ventre MPA and the Ministry of the Environment (10,000 €).

**2011-2012:** Scientific responsible of the research project "Monitoring reserve effect and nursery potential of coastal habitats at the Tavolara-Punta Coda Cavallo MPA" funded by the Tavolara-Punta Coda Cavallo marine reserve and the Ministry of the Environment (14,400 €).

**2011:** Scientific responsible of the project "Investigating reproductive biology of mugilid fish at the Torre Guaceto MPA aimed at planning a sustainable exploitation" funded by the Torre Guaceto marine reserve and the Ministry of the Environment (10,000 €).

**2011:** Scientific co-responsible of the research project "Reserve effect assessment of the Marine Protected Areas in the Ligurian Sea", funded by the Ligurian Network of MPAs (10,000 €).

**2010-2011:** Scientific responsible of the research project "Monitoring of focal fish species" funded by the Isole Tremiti-Parco del Gargano marine reserve and the Ministry of the Environment (30,000 €).

**2010-2011:** Scientific responsible of the research project "Monitoring reserve effect and nursery potential of coastal habitats at the Tavolara-Punta Coda Cavallo MPA" funded by the Tavolara-Punta Coda Cavallo marine reserve and the Ministry of the Environment (19,400 €).



**2010-2011:** Scientific responsible of the research project “Investigating small-scale traditional fisheries at the Penisola del Sinis - Isola di Mal di Ventre MPA” funded by the Penisola del Sinis-Isola Mal di Ventre MPA and the Ministry of the Environment (10,000 €).

***Year 2005-2010 (n. 10 projects; total: 148,400 €)***

**2009-2010:** Scientific responsible of the research project “Monitoring of small-scale professional fishery” funded by the Torre Guaceto marine reserve and the Ministry of the Environment (16,000 €).

**2009-2010:** Scientific responsible of the research project “Monitoring of reserve effects and rocky banks at the Tavolara-Punta Coda Cavallo marine reserve: implications for management and biodiversity conservation” funded by the Tavolara-Punta Coda Cavallo marine reserve and Ministry of the Environment (18,400 €).

**2008-2009:** Scientific responsible of the research project “Monitoring of reserve effects and small-scale fishery at MPA of Porto Cesareo” funded by the Porto Cesareo marine reserve and the Ministry of the Environment (10,000 €).

**2008-2009:** Scientific responsible of the research project “Monitoring of small-scale professional fishery” funded by the Torre Guaceto marine reserve and the Ministry of the Environment (20,000 €).

**2008-2009:** Scientific responsible of the research project “Monitoring of reserve effects and rocky banks at the Tavolara-Punta Coda Cavallo marine reserve: implications for management and biodiversity conservation” funded by the Tavolara-Punta Coda Cavallo marine reserve and Ministry of the Environment (14,000 €).

**2007-2008:** Scientific responsible of the research project “Monitoring of reserve effects and small-scale fishery at MPA of Porto Cesareo” funded by the Porto Cesareo marine reserve and the Ministry of the Environment (19,000 €).

**2007-2008:** Scientific responsible of the research project “Monitoring of focal fish species and small-scale professional fishery” funded by the Torre Guaceto marine reserve and the Ministry of the Environment (18,000 €).

**2007-2008:** Scientific responsible of the research project “Monitoring of reserve effects and rocky banks at the Tavolara-Punta Coda Cavallo marine reserve: implications for management and biodiversity conservation” funded by the Tavolara-Punta Coda Cavallo marine reserve and the Ministry of the Environment (12,000 €).

**2006-2007:** Scientific responsible of the research project “Monitoring of focal fish species and small-scale fishery” funded by the Torre Guaceto marine reserve and the Ministry of the Environment (16,000 €).

**2005-2006:** Scientific co-responsible of the research project ‘Guidelines for management of tourist frequentation and small scale fishery’ funded by the Torre Guaceto marine reserve and the Ministry of the Environment (5,000 €).