

**Fiorella Prada**

Postdoctoral Fellow, Dept of Marine and Coastal Sciences, Rutgers - The State University of New Jersey, USA (01/11/2021 – 31/10/2022)

Adjunct Professor, Dept of Education Studies "Giovanni Maria Bertin", UNIBO (23/09/2019 - 17/09/2021)

Fano Marine Center (FMC) - The Inter-Institute Center for Research on Marine Biodiversity, Resources and Biotechnologies, Fano, Italy

Marine Science Group, BiGeA, UNIBO, Bologna, Italy

Date of Birth: 07 July 1984; Nationality: Italian; Place of Birth: San Jose', Costa Rica

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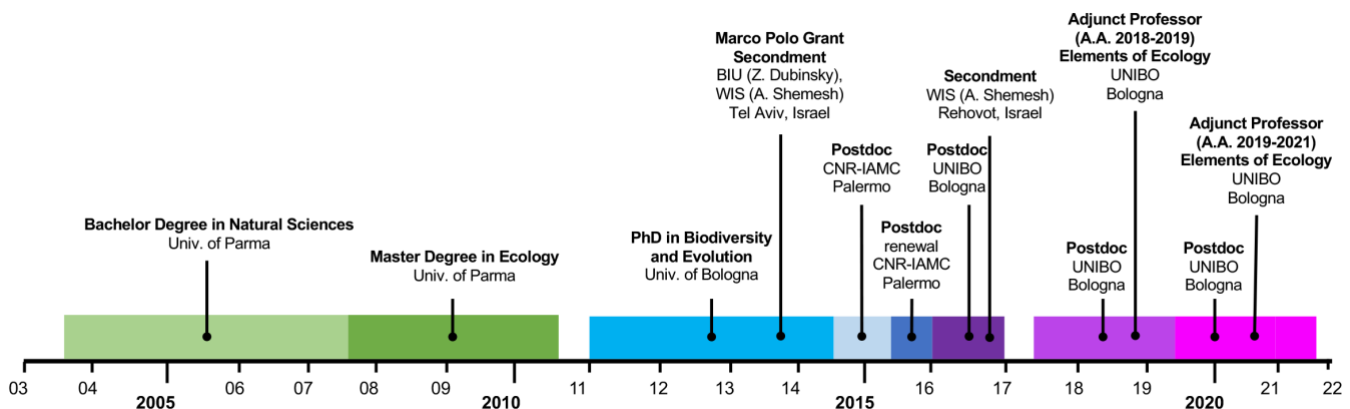
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*h*-index = 9; Total citations = 362 (Scopus, September 2021)



**Education**

Degree	Institution Conferring	Field	Dates
Ph.D,	University of Bologna (Italy)	Biodiversity and Evolution	01/01/2011 – 08/05/2014
MS	University of Parma (Italy)	Ecology	23/08/2007 - 27/04/2010
BS	University of Parma (Italy)	Natural Sciences	08/05/2003 – 12/07/2007



**Professional experience**

My research focuses on climate change effects on benthic marine calcifiers, in particular on corals and bivalves. I have **conducted several field studies** on corals along natural temperature, pH, and anthropogenic impact gradients in the Mediterranean gaining **extensive experience in scientific diving expeditions** (more than 200 scientific dives since 2010). I merge complementary approaches, such as field surveys of natural ecosystems and controlled laboratory experiments, with statistical methods to interpret data. I obtained a Master Degree in Ecology (2010) at the University of Parma (Italy) and a PhD (2014) at UNIBO (Italy). During the last year of my PhD I spent a **1-year secondment period in Israel** at Bar-Ilan University, under the supervision of Zvy Dubinsky and at the Weizmann Institute of Science, under the supervision of Prof. Aldo Shemesh working on stable isotopes to investigate coral physiology and metabolism. I have almost **7 years of postdoctoral experience** gained at the Italian National Research Council and at UNIBO in Italy.

Since I was a child I always travelled a lot which taught me to **adapt quickly** to new situations. My research is highly **cooperative, interdisciplinary** and **creative** based on the **collaboration with scientists** with a very **diverse skillset** ranging from biology, ecology, physics, chemistry, geochemistry, and physiology. I have published **31 peer-reviewed scientific articles since 2010** and **presented contributions** to national/international scientific meetings and **supervised** MSc and BSc students (see below). I've given seminars in BSc and MSc courses and I'm **Adjunct Professor** of the Elements of Ecology module of the Integrated Course of Elements of Chemistry and Ecology of the Master Degree Programme in Primary Teacher Education of the School of Psychology and Education at UNIBO. For more information please visit my institutional web page: <https://www.unibo.it/sitoweb/fiorella.prada2/en>.

**Past academic appointments**

24/09/2018 - 17/09/2021 Adjunct Professor. “Elements of Ecology – Module of Elements of Chemistry and

## Fiorella Prada CV

- Ecology, Master Degree Programme in Primary teacher education, School of Psychology and Education, UNIBO (Italy).
- 01/06/2017 – 31/05/2019 Post-doctorate, BiGeA, UNIBO (Italy).  
Research project: “pH up-regulation in calcification physiology and skeletal features of temperate and tropical corals living along natural pCO<sub>2</sub> gradients: new insights into the homeostatic capacity of coral calcification in response to ocean acidification stress”. Funds by the European Research Council (FP7 – IDEAS), for the project “Corals and Global Warming: the Mediterranean versus the Red Sea” (CoralWarm).
- 01/01/2016 – 31/12/2016 Post-doctorate, BiGeA, UNIBO (Italy). Research project: “Effects of seawater warming and acidification on the growth and physiology of Mediterranean corals”. Funds by the ERC (FP7 – IDEAS), for the project “Corals and Global Warming: the Mediterranean versus the Red Sea” (CoralWarm).
- 27/05/2015 – 26/10/2015 Post-doctorate (renewal), Institute for Coastal Marine Environment – National Research Council (IAMC-CNR) (Italy).  
Research project: “Ecology, biology and morphometry of *Astroides calycularis*”. Funds by the Italian Ministry of Education, University and Research (PRIN 2010-2011) for project “Coastal bioconstructions: framework, function and management”.
- 27/05/2014 – 26/05/2015 Post-doctorate, IAMC-CNR (Italy).  
Research project: “Ecology, biology and morphometry of *Astroides calycularis*”. Funds by the MIUR (PRIN 2010-2011) for project “Coastal bioconstructions: framework, function and management”.

### Awards

- 2015 – Scientific research and technological innovation award "Claudio Bonivento", awarded by Lions Club Bologna, Bologna (Italy), 11 May 2015. Honorable mention, PhD thesis entitled: “Effects of temperature and acidity on Mediterranean benthic calcifiers, in the face of Global Climate Change”.
- 2013 – Marco Polo Grant for scientific training abroad at the Bar-Ilan University (Prof. Zvy Dubinsky).
- 2013 – Student award: awarded at the ICCB 2013: The international conference on coelenterate biology, Eilat (Israel) 1-5 December 2013. Awarded as one of the 15 qualifying and selected (non-Israeli) PhD students whose abstracts were accepted for oral or poster presentation at the Conference.

### Professional activities

#### Funding

Dates	Amount (€)	Funder	Funder country	Topic
01/11/2021-31/10/2022	46,533.27	Rutgers University	USA	Postdoctoral fellowship for project “nutrient cycling and biomineralization in deep sea corals”.
01/01/2021 – 31/12/2021	12,000.00	UNIBO	Italy	Research Scholarship for project entitled: “Analysis of the photosynthetic efficiency and autotrophy:heterotrophy ratio of zooxanthellate corals along a natural acidification gradient”
23/09/2019 - 18/09/2020	1,760.00	UNIBO	Italy	Adjunct Professor. Course “Elements of Ecology”
01/06/2019 – 31/12/2020	30,664.42	H2020, Societal Challenges (Food Security, Sustainable Agriculture and Forestry, Marine, Maritime and Inland Water Research and the Bioeconomy)	European Union (European Commission)	Postdoctoral fellowship within the framework of project “Controlling mIcRobiomes CircuLations for bETter food Systems (CIRCLES)”.
24/09/2018 - 20/09/2019	1,760.00	UNIBO	Italy	Adjunct Professor. Course “Elements of Ecology”
01/06/2017 – 31/05/2019	38,734.00	UNIBO (50%) and European Research Council, FP7 – IDEAS	European Union (European Commission)	Postdoctoral fellowship within the framework of project “Controlling mIcRobiomes CircuLations for bETter food Systems (CIRCLES)”.
01/01/2016 – 31/12/2016	19,367.00	European Research Council (FP7 – IDEAS)	European Union (European Commission)	Postdoctoral fellowship within the framework of project “Corals and global warming: the Mediterranean versus the Red Sea (CoralWarm)”.
27/05/2014 – 26/05/2015	27,437.00	Ministry of Education, University and Research (PRIN 2010-2011)	Italy	Postdoctoral fellowship within the framework of project “Coastal bioconstructions: structure, function, and Management”.
01/07/2013 – 30/09/2013	2,487.00	Marco Polo program, Italian Ministry of Education, Universities and Research	Italy	Abroad research grant: “Response of the symbiotic system of the temperate coral <i>Balanophyllia europaea</i> to pH and temperature levels predicted for the end of this century”.
01/01/2011 – 08/05/2014	62,061.00	UNIBO	Italy	PhD fellowship “Influence of global warming and ocean acidification on coral biodiversity in the Mediterranean and the Red Sea”
<b>TOTAL ACQUIRED, 2011-2022: 242,803.69 €</b>				

**Research abroad:** In 2013, I spent my third year of PhD in Israel at Bar-Ilan University under the supervision of Prof. Zvy Dubinsky. I studied the effects of pH on the photosynthetic efficiency of zooxanthellate Mediterranean corals. Moreover, in collaboration with Prof. Aldo Shemesh at Weizmann Institute of Science (WIS), I worked on stable isotope composition ( $\delta^{13}\text{C}$ ,  $\delta^{18}\text{O}$ ) of Mediterranean corals along a latitudinal gradient on the Italian Tyrrhenian coast. I also initiated a collaboration with Prof. Anders Meibom at the École Polytechnique Fédérale de Lausanne in Switzerland and Prof. Jaroslaw Stolarski at the Institute of Paleobiology in Poland, to study the micro- and ultra-structural coral growth dynamics by means of pulsed  $^{86}\text{Sr}$ -labeling and high spatial resolution NanoSIMS isotopic imaging. In 2016 I returned to WIS for 1 month to work with Prof. A Shemesh on stable isotopes of Mediterranean corals.

**Scientific diving expeditions:** Since 2010, I have co-organized and participated to **18 scientific expeditions** as team member (n=14) and as expedition leader (n=4). Throughout these expeditions, I carried out more than **200 scientific dives** by using scuba diving in different localities of the west Mediterranean Sea, mainly in Sicily at Panarea Island (ME), Plemmirio Marine Protected Area (SR), Favignana, Marettimo, Capo Gallo – Isola delle Femmine Marine Protected Area (PA), Lo Zingaro Natural Reserve (TP), and Capo Zafferano (PA), and along the Tyrrhenian coast of Italy in Calafuria (LI), Palinuro (SA), and Scilla (RC).

**Diving licenses:** 2019: PADI/DAN Basic Research Operator. 2019: Specialty Diver – Diver Propulsion Vehicle (PADI). 2017: Specialty Diver - Deep Diver (PADI). This certification allows to dive until 40 m. 2010: Rescue Diver (SNSI). 2008: Advanced Open Water Diver (NAUI). 2002: Open Water Diver (PADI).

**Reviewer/assistant reviewer for scientific journals:** reviewer for PLoS ONE, Biodiversitas Journal of Biological Diversity. Assistant reviewer for: Scientific Reports, Marine Chemistry, Water, Functional, Ecology, Biology Letter, Coral Reefs, Marine Biodiversity, Journal of The Royal Society Interface.

**Review Editor:** Frontiers in Physiology.

**Assistant reviewer for grants:** Federal Ministry of Education and Research (Germany); Ministry of Science, Technology (Israel); European Science Foundation, Zoological Society of London, National Geographic.

**Languages: Spanish & Italian:** native languages; **English:** Fluent; **French:** Intermediate; **Portuguese:** Intermediate.

### Research results including publications, teaching, etc.

#### Submitted/under review

Palladino G\*, Caroselli E\*, Tavella T, Prada F, Mancuso A, Franzellitti S, Rampelli S, Candela M, Goffredo S\*, Biagi E\* (*submitted*) Functional and taxonomic shifts of bacterial communities associated with mucus, tissue and skeleton of the coral *Balanophyllia europaea* living along a natural CO<sub>2</sub> gradient. *Molecular Ecology*

Mancuso A, Yam R, **Prada F**, Stagoni M, Goffredo S\*, Shemesh A\* (*under review*) Interpreting shell oxygen and carbon isotopes variations in the bivalve *Chamelea gallina*: environmental influences or vital effects? *Geobiology*

Iluz D\*#, Pinchasov-Grinblat Y#, **Prada F**, Mancuso A, Tittarelli M, Caroselli E, Falini G, Goffredo S, Dubinsky Z\* (*submitted*) Future Oceanic Calcification: Coral and Alga in a CO<sub>2</sub> vent. *Limnology & Oceanography*

Palazzo Q, Stagoni M, Raaijmakers S, Belleman RG, Prada F, Hammel JU, Kaandorp J\*, Goffredo S\*, Falini G\* (*submitted*) Multi-scale analysis of fish otolith ontogenesis reveals sexual dimorphism on shape. *Royal Society Open Science*

Machado Toffolo M#, Simoncini GA#, Marchini C\*, Meschini M, Caroselli E, Franzellitti S, Prada F, Goffredo S\* (*under review*) An informal environmental education model from local to global scale in the framework of activities for sustainable tourism development. *Journal of Environmental Management*

#### Scientific publications in peer reviewed journals

#equal contributor; \*corresponding author

**Prada F**, Brizi L, Franzellitti S, Mengoli S, Fermani S, Polishchuk I, Baraldi N, Ricci F, Palazzo Q, Caroselli E, Pokroy B, Giorgini L, Fantazzini P\*, Falini G\*, Goffredo S\*, Fabricius KE (2021) Coral micro- and macro-morphological skeletal properties in response to life-long acclimatization at CO<sub>2</sub> vents in Papua New Guinea. *Scientific Reports*, 11: 19927 (Cit: 0)

Marchini C, Gizzi F, Pondrelli T, Moreddu L, Marisaldi L, Montori F, Lazzari V, Airi V, Caroselli E, **Prada F**, Falini G, Dubinsky Z, Goffredo S\* (2021) Decreasing pH impairs sexual reproduction in a Mediterranean coral transplanted at a CO<sub>2</sub> vent. *Limnology and Oceanography*, 9999: 1-11 (Cit: 0)

Palazzo Q#, **Prada F**#, Steffens T, Fermani S, Samorì C, Bernardi G, Terrón-Sigler A, Sparla F\*, Falini G\*, Goffredo S\* (2021) The skeleton of *Balanophyllia* coral species suggests adaptive traits linked to the onset of mixotrophy. *Science of the Total Environment*, 148778. (Cit: 0)

Meschini M#, Machado Toffolo M#, Marchini C, Caroselli E, **Prada F**, Mancuso A, Franzellitti S, Locci L, Davoli M, Trittoni M, Nanetti E, Tittarelli M, Bentivogli R, Branchini S, Neri P, Goffredo S\* (2021) Reliability of data

- collected by volunteers: a nine-year citizen science study in the Red Sea. *Frontiers in Ecology and Evolution* 9: 395. (Cit: 0).
- Meschini M<sup>#</sup>, Machado Toffolo M<sup>#</sup>, Caroselli E, Franzellitti S, Marchini C\*, **Prada F**, Boattini A, Brambilla V, Martinez G, Prati F, Simoncini G, Visentin M, Airi V, Branchini S, Goffredo S\* (2021) Educational briefings in touristic facilities promote tourist sustainable behavior and customer loyalty. *Biological Conservation* 259: 109122. (Cit: 0).
- Cheli A, Mancuso A, Azzarone M, Fermani S, Kaandorp J, Marin F, Montroni D, Polishchuk I, **Prada F**, Stagioni M, Valdré G, Pokroy B, Falini G\*, Goffredo S\*, Scarponi D\* (2021) Climate variation during the Holocene influenced the skeletal properties of *Chamelea gallina* shells in the North Adriatic Sea (Italy). *PLOS ONE* 16: e0247590. (Cit: 0).
- Palladino G, Rampelli S, Scicchitano D, Musella M, Quero GM, **Prada F**, Mancuso A, Seyfarth AM, Turroni S, Candela M, Biagi E\* (2021) Impact of marine aquaculture on the microbiome associated with nearby holobionts: the case of *Patella caerulea* living in proximity of sea bream aquaculture cages. *Microorganisms* 9: 455. (Cit: 0).
- Meschini M, Prati F, Simoncini GA, Airi V, Caroselli E, **Prada F**, Marchini C, Machado Toffolo M, Branchini S, Brambilla V, Covi C, Goffredo S (2021) Environmental Awareness Gained During a Citizen Science Project in Touristic Resorts Is Maintained After 3 Years Since Participation. *Frontiers in Marine Science* 8: 584644. (Cit: 1).
- Caroselli E<sup>#</sup>, Frapiccini E<sup>#</sup>, Franzellitti S, Palazzo Q, **Prada F**, Betti M, Goffredo S\*, Marini M\* (2020) Accumulation of PAHs in the tissues and algal symbionts of a common Mediterranean coral: skeletal storage relates to population age structure. *Science of the Total Environment* 743: 140781. (Cit: 4).
- Franzellitti S\*, **Prada F**, Viarengo A, Fabbri E (2020) Evaluating bivalve cytoprotective responses and their regulatory pathways in a climate change scenario. *Science of the Total Environment* 137733. (Cit: 5).
- Savinelli B, Fernández TV\*, Galasso NM, D'Anna G, Pipitone C, **Prada F**, Zenone A, Badalamenti F, Musco L (2020) Microplastics impair the feeding performance of a Mediterranean habitat-forming coral. *Marine Environmental Research* 155: 104887. (Cit: 14).
- Wall M<sup>#</sup>, **Prada F**<sup>#</sup>, Fietzke J, Caroselli E, Dubinsky Z, Fantazzini P, Brizi L, Weiner S, Mass T, Franzellitti S, Montagna P, Falini G, Goffredo S\* (2019) Linking internal carbonate chemistry regulation and calcification in corals growing at a Mediterranean CO<sub>2</sub> vent. *Frontiers in Marine Science* 6: 699. (Cit: 1).
- Prada F**, Musco L\*, Alagna A, Agnetta D, Beccari E, D'Anna G, Giacalone VM, Pipitone C, Vega Fernández T, Goffredo S, Badalamenti F (2019) Anthropogenic impact is negatively related to coral health in Sicily (Mediterranean Sea). *Scientific Reports* 9: 13469. (Cit: 3).
- Prada F**, Yam R, Levy O, Caroselli E, Falini G, Dubinsky Z, Goffredo S\*, Shemesh A\* (2019) Kinetic and metabolic isotope effects in zooxanthellate and non-zooxanthellate Mediterranean corals along a wide latitudinal gradient. *Frontiers in Marine Science*, 6: 522. (Cit: 1).
- Mancuso A, Stagioni M, **Prada F**, Scarponi D, Piccinetti C, Goffredo S\* (2019) Environmental influence on calcification of the bivalve *Chamelea gallina* along a latitudinal gradient in the Adriatic Sea. *Scientific Reports*, 9: 11198. (Cit: 7).
- Caroselli E, Gizzi F, **Prada F**, Marchini M, Airi V, Kaandorp J, Falini G, Dubinsky Z, Goffredo S\* (2018) Low and variable pH decreases recruitment efficiency in populations of a temperate coral naturally present at a CO<sub>2</sub> vent. *Limnology & Oceanography*, 9999:1–11. (Cit: 6).
- Franzellitti S\*, Airi V, Calbucci D, Caroselli E, **Prada F**, Voolstra C, Mass, Falini G., Fabbri E, Goffredo S (2018) Transcriptional response of the heat shock gene hsp70 aligns with differences in stress susceptibility of shallow-water corals from the Mediterranean Sea. *Marine Environmental Research*, 140:444-454. (Cit: 7)
- Ingrosso G, Abbiati M, Badalamenti F. ... **Prada F**, Ponti M, Rindi F, Russo GF, Sandulli R, Villamor A, Zane L, Boero F (2018) Mediterranean bioconstructions along the Italian coast. *Advances in Marine Biology*, 79:61-136. (Cit: 64).
- Iluz D, Fermani S, Ramot M, Reggi M, Caroselli E, **Prada F**, Dubinsky Z, Goffredo S, Falini G\* (2017) Calcifying response and recovery potential of the brown alga *Padina pavonica* under ocean acidification. *ACS Earth and Space Chemistry*, 1:316-323. (Cit: 5).
- Gizzi F, de Mas L, Airi V, Caroselli E, **Prada F**, Falini G, Dubinsky Z, Goffredo S\* (2017) Reproduction of an azooxanthellate coral is unaffected by ocean acidification. *Scientific Reports*, 7:13049. (Cit: 3).
- Samorì C, Caroselli E, **Prada F**, Reggi M, Fermani S, Dubinsky Z, Goffredo S, Falini G\* (2017) Ecological relevance of skeletal fatty acid concentration and composition in Mediterranean scleractinian corals. *Scientific Reports*, 7:1929. (Cit: 3).



- Maor-Landaw K, Ben-Asher HW, Karako-Lampert S, Salmon-Divon M, **Prada F**, Caroselli E, Goffredo S\*, Falini G, Dubinsky Z, Levy O\* (2017) Mediterranean versus Red sea corals facing climate change, a transcriptome analysis. *Scientific Reports*, 7:42405. (Cit: 12).
- Prada F**, Caroselli E, Mengoli S, Brizi L, Fantazzini P, Capaccioni B, Pasquini L, Fabricius KE., Dubinsky Z, Falini G, Goffredo S\* (2017) Ocean warming and acidification synergistically increase coral mortality. *Scientific Reports*, 7:40842. (Cit: 34).
- Reggi M, Samori C, Fermani S, Gizzi F, **Prada F**, Dubinsky Z, Goffredo S\*, Falini G\* (2017) Influence of intra-skeletal coral lipids on calcium carbonate precipitation. *CrystEngComm*, 18:8829-8833. (Cit: 9).
- Musco L\*, **Prada F\***, D'Anna G, Galasso NM, Pipitone C, Fernández TV, Badalamenti F (2017). Turning casualty into opportunity: fragmenting dislodged colonies is effective for restoring reefs of a Mediterranean endemic coral. *Ecological Engineering*, 98: 206-212. (Cit: 5).
- Fantazzini P\*, Mengoli S, Pasquini L, Bortolotti V, Brizi L, Mariani M, Di Giosia M, Fermani S, Capaccioni B, Caroselli E, **Prada F**, Zaccanti F, Levy O, Dubinsky Z, Kaandorp JA, Konglerd P, Hammel JU, Dauphin Y, Cuif J-P, Weaver JC, Fabricius KE, Wagermaier W, Fratzi P, Falini G\*, Goffredo S\* (2015) Gains and losses of coral skeletal porosity changes with ocean acidification acclimation. *Nature Communications*, 6:7785. (Cit: 52).
- Pasquini L\*, Molinari A, Fantazzini P, Reggi M, Goffredo S, Caroselli E, **Prada F**, Levi O, Dubinsky Z, Falini G\* (2015) Isotropic microscale mechanical properties of coral skeletons. *Journal of the Royal Society Interface*, 12: 20150168-20150168. (Cit: 5).
- Goffredo S\*, Mancuso A, Caroselli E, **Prada F**, Dubinsky Z, Falini G, Levy O, Fantazzini P, Pasquini L (2015) Skeletal mechanical properties of Mediterranean corals along a wide latitudinal gradient. *Coral Reefs*, DOI: 10.1007/s00338-014-1222-6. (Cit: 7).
- Goffredo S\*, **Prada F**, Caroselli E, Capaccioni B, Zaccanti F, Pasquini L, Fantazzini P, Fermani S, Reggi M, Levy O, Katharina F, Dubinsky Z, Falini G\* (2014) Biomineralization control related to population density under ocean acidification. *Nature Climate Change*, 4:593-597. (Cit: 54).
- Fantazzini P\*, Mengoli S, Evangelisti S, Pasquini L, Mariani M, Brizi L, Goffredo S, Caroselli E, **Prada F**, Falini G, Levy O, Dubinsky Z (2013) Time-Domain NMR study of Mediterranean scleractinian corals reveals skeletal-porosity sensitivity to environmental changes. *Environmental Science & Technology*, 47:12679-12686. (Cit: 17).
- Caroselli E, **Prada F**, Pasquini L, Nonnis Marzano F, Zaccanti F, Falini G, Levy O, Dubinsky Z, Goffredo S\* (2011) Environmental implications of skeletal micro-density and porosity variation in two scleractinian corals. *Zoology*, 114:255-264. (Cit: 41).

**Active participation in scientific meetings:** My research has been communicated to the scientific community in both **national (n=6)** and **international (n=17) meetings and symposia**. I presented **14 oral presentations**. Within these, it is worth mentioning oral talks at the following international symposia: Conservation Paleobiology Symposium, Bologna (Italy), February 2020; 13<sup>th</sup> International Symposium on Fossil Cnidaria and Porifera, Modena (Italy), September 2018; 13<sup>th</sup> International Coral Reef Symposium, Honolulu, Hawai'i (USA), June 2016; International Scientific Conference "Our Common Future Under Climate Change", Paris (France), July 2015; ASLO Aquatic Sciences Meeting, Granada (Spain), February 2015; 12<sup>th</sup> International Coral Reef Symposium, Cairns (Australia), July 2012; EURO ISRS symposium 2010: Reefs in a changing environment, Wageningen (Netherlands), December 2010. I was **co-chair** at the 14<sup>th</sup> International Coral Reef Symposium (Bremen) in July 2021 of Session "How can innovative techniques to investigate calcification and its mechanism shed light into the past, present and future of coral reef organisms? How do new insights into biomineralization help us understand the reef calcification response to global climate change?".

#### *Teaching and transfer of knowledge*

**2018-2021:** teaching contract assignment for "Elements of Ecology – Module of Elements of Chemistry and Ecology", Master Degree Programme in Primary teacher education, School of Psychology and Education, UNIBO. 32h/year

**2018-2021:** seminars for course "Ecology". BSc Degree course in Biological Sciences (UNIBO). 2h/year

**2014-2017:** seminars for course "Experimental Zoology". MSc Degree course in Biodiversity and Evolution (UNIBO). 2h/year

**Supervision of students:** My scientific knowledge has been transferred to a new generation of marine researchers through training and education: 4 MSc students at UNIBO: Sani T (ongoing), Di Fazio V (2021), Palazzo Q (2017), Baraldi N (2017) and 5 BSc students: Wallnoefer O (ongoing), Radi G (ongoing), Ghiroldi C (2020), Sani T (2019), Beccari E (2017).