

# Paola Parretti

## Personal information

E-mail	paola.parretti@gmail.com
Date of birth	18/10/1983
Nationality	Italian
Gender	Female

## Work experience

### Fellowships

**01/12/2016→** **Doctoral fellowship** within the project “NIS proliferation under climate change scenarios: mechanisms, impacts and consequences” granted by Fundo Regional de Ciência e Tecnologia (FRCT). Supervisor: Prof. Dr. Ana Costa (CIBIO); co-supervisor: Dr. João Canning Clode (MARE).

Institution Centro de Investigação em Biodiversidade e Recursos Genéticos (CIBIO), University of the Azores, Ponta Delgada, Azores (Portugal).

15/05/2012 - 15/08/2015 Research fellowship within the project “SeaProlif (SEAweed PROliferations)” granted by NETBIOME (NETworking tropical and subtropical Biodiversity research in OuterMost regions and territories of Europe in support of sustainable development). Supervisor: Dr. Ricardo Santos and Dr. Joao Gama Monteiro (IMAR-DOP, University of the Azores)

Institution IMAR-DOP Department of Oceanography and Fisheries, University of the Azores, Horta, Azores (Portugal)

11/04/2011 - 11/04/2012 Research fellowship within project BIOMOUNT "Microbial biodiversity and functional role in benthic food webs of the Condor seamount (NE Atlantic)" granted by FCT (Fundação para a Ciências e a Tecnologia, Portugal). Supervisor: Dr. L. Bongiorno (IMAR, DOP, University of the Azores).

Institution IMAR-DOP Department of Oceanography and Fisheries, University of the Azores, Horta, Azores (Portugal)

01/09/2010 - 28/02/2011 Research scholarship within Campus World program. Supervisor: Dr. L. Bongiorno

Institution IMAR-DOP Department of Oceanography and Fisheries, University of the Azores, Horta, Azores (Portugal)

## Publications:

### Chapter book

F. Cardigos, J. Monteiro, J. Fontes, **P. Parretti** and Ricardo Serrão Santos: Fighting invasions in the marine realm, a case study with *Caulerpa webbiana* proliferation in the Azores. In Canning-Clode J (Ed), Biological Invasions in Aquatic and Terrestrial Systems: Ecological Impacts, Predictions and Management. De Gruyter Open. ISBN:978-3-11-043866-6

### Paper

L. Bongiorno, A. Ravara, **P. Parretti**, R.S. Santos, C.F. Rodriogues, T. Amaro, M.R. Cunha. Organic matter composition and macrofaunal diversity in sediments of the Condor Seamount (Azores, NE Atlantic). Deep-Sea Research Part II, 98 + (2013) 75-86. doi:10.1016/j.dsr2.2013.08.006

### Poster in conferences

**P. Parretti**, J. Ferrario, A. Marchini A.Z. Bothelho J. Canning Clode, A.C. Costa. Hitchhiking with diving-boats: the risk of NIS dispersal in islands. Tenth International

Conferences of Marine Bioinvasions, 16-18 October 2018, Puerto Madryn (Argentina).

**P. Parretti**, M. Carreiro-Silva, J. Grall, D. Zeppilli, R.S. Santos. Maerl beds & associated benthic communities: a scenario of the effects of climate change on an important biogenic habitat. MeioScool2013: Meiofauna International Workshop, 26-29 November 2013, Brest (France).

M. Zubia, H. Cambert, L. Dijoux, F. Viard, A. Engelen, T. Perez, S. Greff, O. Thomas, S. Petek, S. Fiat, M. Adjeroud, C. Bouchon, **P. Parretti**, J. Monteiro, R. Santos, J.P. Quod & C. Payri. SEAPROLIF program: Diversity and functioning of coastal marine biomes under siege: implications of SEAweed PROLIFerations across three oceans. Eighth WIOMSA scientific symposium, 28-30 October 2013, Maputo (Mozambique).

**P. Parretti**. SEAPROLIF Diversidade e Funcionamento de biomas marinhos costeiros de tres oceanos sob a pressao da proliferaçao de algas. "Ciencia nos Açores. Que futuro?", 7-8 June 2013, Ponta Delgada (Portugal).

## Oral communications

**P. Parretti**, J. Canning Clode, J. Ferrario, A. Marchini, A.Z. Botelho, P. Ramalhosa A.C. Costa. Embarcações maritime turisticas e o risco para disperção de especies não indigenas. O caso de São Miguel (Açores). Spring Seminar 2019, 27 April 2019 Ponta Delgada (Portugal)

**P. Parretti**, J. Canning Clode, A. B. Mendes, A.C Costa. Engamentent in marine Nis management: what really moves local stakeholders?. Tenth International Conferences of Marine Bioinvasions, 16-18 October 2018, Puerto Madryn (Argentina).

**P. Parretti**, J. Canning Clode, A.C. Costa. Stakeholders and public awareness: cornerstone for sustainable management of marine non-indigenous species in Island ecosystems. Spring Seminar BIO ISLE 2018, 27 April 2018 Ponta Delgada (Portugal)

**P. Parretti**, F. Houlbreque, C. Vieira, S. Greff, F. Fernandes, A. Engelen, J. Monteiro, M. Adjeroud, C. Payri. Assess the impact of non-indigenous algae (*Asparagopsis taxiformis*) on coral host community: *Symbiodinium* sp. in New Caledonia house reef. 3<sup>rd</sup> European Conference on Scientific Diving, 22-23 March 2017, Funchal (Portugal).

**P. Parretti**, R.S. Santos. SEAweed PROLiferations: Implication to diversity and functioning of coastal marine biomes. Marine BIO-invasions the silent threat Workshop, 5-7 March 2013, Horta (Portugal).

J. Monteiro, **P. Parretti**, R.S. Santos. Proliferation of algae: impacts and consequences of potential invasions. Conhecer o Mar dos Azores II, 9-10 July 2012, Horta (Portugal).

L. Bongiorno, **P. Parretti**, T. Amaro, R.S. Santos, R. Danovaro. Microbial diversity and ecosystem functioning of deep-sediments associated to the Condor seamount (Azores, NE Atlantic). World Conference on Marine Biodiversity, 26-30 September 2011, Aberdeen, Scotland (UK).

## Awards

**2018** COST-Action Short Term Scientific Mission CA 15121- MarCons.

**2018** Judith A. Pederson and James T. Carlton Early Career Travel Awards

## Internships and field works

11-2019 Development of the Fuzzy model "Free ride" with the collaboration of Dr Jasmine Ferrario and Prof Agnese Marchini (University of Pavia, Italy)

17 - 28/03/2014 Sampling of coral species for genetic analysis in the framework of project SeaProlif (New Caledonia).

15/06/2012 - 15/06/2014 Monitoring presence and abundance of *Asparagopsis* sp. and characterization of benthos in the framework of SeaProlif project (Azores, Portugal).

11/2008 - 06/2010 Internship for MSc thesis: "Biodiversity and functioning within sediments of Dauno

seamount (Adriatic Sea)" Polytechnic University of Marche, Ancona (Italy)

06/2008 Visual census in the framework of the Coastal Environment Monitoring project, (Gallinara island, Tyrrhenian Sea).

01 - 30/09/2005 Monitoring feeding behaviour of *Chaetodon baronessa*, *C. meyeri* and *C. lunulatus* (Manado, Sulawesi, Indonesia).

#### Research cruises

10 - 16/09/2010 Condor seamount, Azores, NE Atlantic Ocean on board of R/V Arquipelago in the framework of the CONDOR project (EEA Grants)

05 - 11/11/2009 Gulf of Lion, NW Mediterranean on board of R/V L'Europe in the framework of HERMIONE project (EU-FP7).

13 - 29/06/2009 TRANSMED Crete-Barcelona, Mediterranean Sea on board of R/V Sarmiento de Gamboa, in the framework of BIOFUN project (BioDeep, European Science Foundation).

17 - 26/03/2009 Bari slope, Adriatic Sea on board of R/V Urania, in the framework of HERMIONE project (EU-FP7).

#### Others

15/05/2012 - 15/12/2012 Operational dive planning within the program "*Caulerpa webbiana*" granted by DRAM (Direção Regional do Ambiente Marino, Azores, Portugal).

01/02/2013 - 7/03/2013 Organization of the Marine Bioinvasion Workshop (Secretariat) held in Horta, Azores (Portugal) 5-7 March 2013.

2002 Dive Master Licence and EFR Instructor, PADI

### **Education and training**

#### **Degrees**

15/07/2010 **Master Degree in Marine Biology (103/110)**. Thesis title: "Biodiversity and ecosystem functioning within the sediment of Dauno Seamount (Adriatic Sea)". Supervisors: Prof. A. Pusceddu, Prof. R. Danovaro, Dr. D. Zeppilli (Polytechnic University of Marche)

Institution Polytechnic University of Marche, Ancona (Italy)

25/10/2007 **Bachelor degree in Biology Science (94/110)**. Thesis title: "Feeding habits of *Chaetodon baronessa*, *C. lunulatus*, *C. meyeri*". Supervisors: Prof. P. Galli (University of Milano-Bicocca) and Dr. M. Boyer.

Institution University of Milano-Bicocca, Milan (Italy)

### **Courses and workshops**

19-20/02/2018 Introduction to Geographic Information System with the use of Quantum GIS software

Institution NATURAL GIS, LDA. (Funchal, Madeira, Portugal)

25-29/09/2017 CAL-AQUA Laboratory Animals Sciences Course - Aquatic Organisms

Institution CIIMAR Interdisciplinary Centre of Marine and Environmental Research of the University of Porto (Portugal)

5 - 7/03/2013	Marine Bioinvasion Workshop. Organized and coordinated by Ricardo Serrão Santos, Helder Silva and Filipe Porteiro (IMAR-DOP, UAç)
Institution	IMAR-DOP Department of Oceanography and Fisheries, University of the Azores, and OMA Observatorio do Mar dos Azores, Horta (Portugal)
<b>Trainings</b>	
11/2011	Extraction, counting and identification of macrofauna samples. Supervisor: Prof. M. Cunha (University of Aveiro)
Institution	University of Aveiro, Aveiro (Portugal)
03/2009	Oxidative stress in fishes. Organized and coordinated by Prof. F. Regoli (Polytechnic University of Marche)
Institution	Alfred Wegener Institute for Polar and Marine Research (AWI), Helgoland (Germany)
02/2005	"Tropical marine ecology field-training". Organized/coordinated by Dr. P. Galli, Dr. F. Benzoni (University of Milano-Bicocca).
Institution	Training Center of Egyptian Environmental Affaires Agency, Sharm El Sheikh (Egypt)
Personal skills and competences	
<b>Technical skills</b>	<p>Diving skills (more than 100 scientific dives conducted in Indian Ocean, Atlantic Ocean, Pacific Ocean and Mediterranean Sea).</p> <p>Knowledge on <u>underwater sampling</u> (coral and algae sampling for genetic analysis, visual census, line and belt transects, quadrats and photo-quadrats, hand-held corers, benthic suction sampler).</p> <p>Knowledge on <u>deep-sea sediments sampling</u> with Box-Corer and Multi-Corer and Plankton sampling with bongo net.</p> <p>Knowledge on <u>molecular techniques</u>: extraction of <i>Symbiodinium</i> DNA from corals, extraction of prokaryotic DNA from sediment, PCR, DGGE, ARISA and T-RFLP fingerprintings.</p> <p>Knowledge on techniques for extraction of <u>meio and macrofauna</u> from sediments, taxonomy of marine nematodes (at species level), taxonomy of marine macrofauna (at family level).</p> <p>Knowledge on sample preparation technique for <u>stable isotope</u> ration measurements</p> <p>Knowledge on techniques for studying the <u>biochemical compositions of organic matter in marine sediment</u> (chlorophyll, proteins, carbohydrates, lipids, hydrolizable protein and carbohydrates).</p> <p>Knowledge on techniques for <u>prokaryotic counting and biomass</u> measure by epifluorescence microscopy (Acridine Orange and Sybr Green staining), measurements of <u>extracellular enzymatic activity</u> using enzymes-fluorescent substrates analogues, quantification of <u>prokaryotic carbon production</u> by tritiated leucine uptake.</p>
<b>Computer skills</b>	<p>Good command of Microsoft Office software (Word, Excel e PowerPoint).</p> <p>Statistic and Image analyses programmes: SPSS, Primer 6, DISTLM, Peak Scanner, Image J, Cell C, Photoshop and Coral Point Count with Excel Extensions.</p> <p>Good command of computer operating systems: Windows and Macintosh.</p>
<b>Others</b>	
Driving licences	A, B
Mother tongue	<b>Italian</b>

Other languages	<b>English (TOEFL iBT 88), Portuguese (good level)</b>
Social skills	<p>Very good attitude to work in team.</p> <p>Good ability to adapt to work in multicultural environments (field work experiences in Indonesia, Portugal, New Caledonia, international research cruises).</p> <p>Very good communication skills gained through experiences as PADI Dive Master.</p>
Organisational skills	Very good capabilities to organize my own work and lead small working groups.