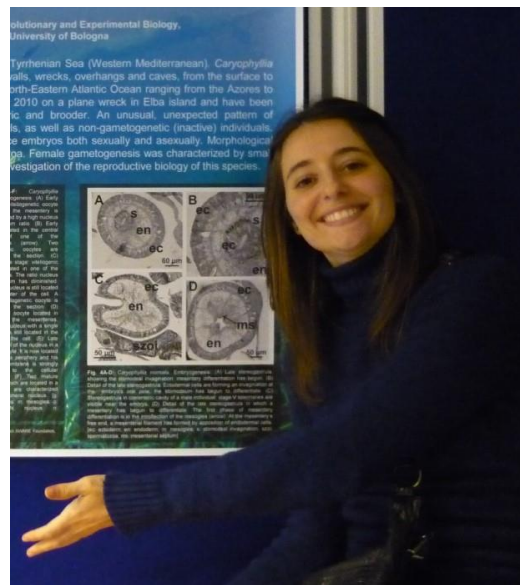


CURRICULUM VITAE

Last update: 18/04/2023

Chiara Marchini

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Gender: Female



Education

- April 2023 – today Post-doctorate, Department of Chemistry “Giacomo Ciamician”, Alma Mater Studiorum – University of Bologna, Bologna (Italy). Research project: “The sustainable and green valorisation of “mineral marine blue biomass” through a circular, interdisciplinary approach”. Funds by: PNRR - Missione 4 - Componente 2 - Investimento 1.4 .
- April 2022 Post-doctorate, Department of Chemistry “Giacomo Ciamician”, Alma Mater Studiorum – University of Bologna, Bologna (Italy). Research project: “New materials on biogenic calcium carbonate of organisms from different environmental conditions”. Funds by: “Advanced materials using biogenic Calcium Carbonate from seashell wastes – CASEAWA” ERANET BLUEBIO.
- October 2020 Post-doctorate, Department of Biological, Geological and Environmental Sciences, University of Bologna (Italy). Research project: “Climate change effects on reproductive capacity in Mediterranean corals”. Funds by: Alma Mater Studiorum – University of Bologna and ARPAE”.
- October 2018 Post-doctorate, Department of Biological, Geological and Environmental Sciences, University of Bologna (Italy). Research project: “Climate change effects on reproductive capacity in Mediterranean corals”. Funds by: Alma Mater Studiorum – University of Bologna (50%) and Donazione Confcommercio - Imprese per l’Italia (50%)”.
- May 2016 Ph.D. in “Biodiversity and Evolution”, University of Bologna (Italy). Ph. D. Thesis: Reproduction and population structure in temperate and tropical corals in relation to environmental parameters. Supervisor: Dr Stefano Goffredo
- July 2011 Master’s degree in “Biodiversity and Evolution”, Alma Mater Studiorum – University of Bologna, Bologna (Italy).
Title of Thesis: “Reproduction of the solitary coral *Caryophyllia inornata* (Scleractinia; Caryophyllidae). Morphological aspects of gametogenesis and ontogenesis”. Vote degree 109/110.

October 2008	<u>Undergraduate degree in Biological Sciences</u> , Alma Mater Studiorum – University of Bologna, Bologna (Italy). <u>Title of Thesis</u> : "Monitoring of the population of the common toad (<i>Bufo bufo</i> (L.)) of the Botanical Garden of the University of Bologna." Vote degree 104/110.
July 2003	<u>High school diploma</u> , Liceo Scientifico "A. B. Sabin", Bologna (Italy).

Areas of scientific interests

Synthesis and functionalization of biogenic calcium carbonate powders in different mollusc species. Reproductive biology and ecology of temperate corals (sexual and asexual reproduction and morphology of gametogenesis); global climate change and its effect on temperate and tropical coral-reef communities; environmental education in tourist facilities.

Professional experience

April 2023-today	<u>Postdoctoral fellowship</u> , Department of Chemistry "Giacomo Ciamician", University of Bologna (Italy). Research project: "The sustainable and green valorisation of "mineral marine blue biomass" through a circular, interdisciplinary approach". Funds by: PNRR - Missione 4 - Componente 2 - Investimento 1.4.
April 2022-2023	<u>Postdoctoral fellowship</u> , "New materials on biogenic calcium carbonate of organisms from different environmental conditions". Department of Chemistry "Giacomo Ciamician", University of Bologna (Italy). Funds by: "Advanced materials using biogenic Calcium Carbonate from seashell wastes – CASEAWA" ERANET BLUEBIO.
Oct 2020 – today	<u>Postdoctoral fellowship</u> , Department of Biological, Geological and Environmental Sciences, University of Bologna (Italy). Research project: "Climate change effects on reproductive capacity in Mediterranean corals". Funds by: Alma Mater Studiorum – University of Bologna and ARPAE".
Oct 2018-Oct 2020	<u>Postdoctoral fellowship</u> , Department of Biological, Geological and Environmental Sciences, University of Bologna (Italy). Research project: "Climate change effects on reproductive capacity in Mediterranean corals". Funds by: Alma Mater Studiorum – University of Bologna (50%) and Donazione Confcommercio - Imprese per l'Italia (50%)".
April 2016	<u>Postdoctoral fellowship</u> . "Fish stock assessments. Critical analysis of existing assessments identifying vulnerabilities. Using experimental sampling data for alternative assessments as support for management plans", Laboratory of Marine Biology and Fishery of the Department of Biological, Geological and Environmental Sciences, University of Bologna (Italy). Funds by CoNISMa, Rome, for the project "Scientific basis and instruments in support of the fishery resources management plans (MIPAF fishing net III).
January 2014	<u>Volunteer researcher</u> . "STE: Scuba Tourism for the Environment" project dissemination and volunteer involvement in Marsa Alam areas (Egypt).
August 2013	<u>Volunteer researcher</u> . (EURIAS) Fellowship Programme, FP7, "Self-fertilization as a mechanism for population maintenance in a changing environment". Coral sampling in Mediterranean Sea (Calafuria).
September 2012	<u>Volunteer</u> . Monitoring and management of wildlife, territory control, assistance to visitors and maintenance of the path network. National Park of Casentino Forests.
February 2012	<u>Scientific Dissemination</u> . Assignment of collaboration for the project "Art and Science on the Square". Marino Golinelli Foundation, via Ragazzi del 99 n°5 Bologna (Italy).
September 2012	<u>Scientific Dissemination</u> . Assignment of collaboration for the exhibition "150 years of Science" with the exhibit "Questions of chemistry". Association Festival of Science, Genova (Italy).
July 2010	<u>Volunteer researcher</u> . EU FP7 – Ideas programme "Corals and Global Warming: the Mediterranean versus the Red Sea" (CoralWarm). Coral and sessile organism

sampling in Mediterranean Sea (Palinuro).

- April 2009 Volunteer. Sampling and monitoring of ichthyic fauna in collaboration with the Province of Florence. Department of Evolutionary and Experimental Biology, Alma Mater Studiorum – University of Bologna (Italy).
- February 2008 Volunteer. Monitoring and data analysis of common toad (*Bufo bufo*) populations that live in the Bologna botanic garden. Department of Evolutionary and Experimental Biology, Alma Mater Studiorum – University of Bologna (Italy).

Other professional experience

- 2014 Assistant assessor. IUCN, International Union for Conservation of Nature. Center for Mediterranean Cooperation (<http://www.iucn.org/>; www.iucn.org/mediterranean). Mediterranean Red List Assessments of Anthozoans

Other qualifications

- July 2015 Rescue diver. Scuba Nitrox Safety International (SNSI).
- May 2014 Oxygen supplier. Scuba Nitrox Safety International (SNSI).
- July 2013 Advanced open water diver. Scuba Nitrox Safety International (SNSI).
- April 2009 Basic Life Support. Scuba Nitrox Safety International (SNSI).
- October 2008 Open Water Diver. Scuba Nitrox Safety International (SNSI).

Supervision of students

- 2022 Sara Sibille; Master of Science in Biodiversity and Evolution; Thesis “Quantitative aspects of gametogenesis of the solitary papillose cup coral *Paracyathus pulchellus* (Scleractinia, Caryophylliidae) in the Mediterranean Sea”; supervisor: Prof. Stefano Goffredo (BiGeA); co-supervisor: Dott. **C. Marchini** (BiGeA)
- 2021 Martina Cerpelloni; Bachelor of Science in Biological Sciences; Thesis “Quantitative aspects of gametogenesis and biometry of the solitary papillose cup coral *Paracyathus pulchellus* (Scleractinia, Caryophylliidae) in the Mediterranean Sea”; supervisor: Prof. Stefano Goffredo (BiGeA); co-supervisor: Dr E. Caroselli and Dr **C. Marchini** (BiGeA)
- 2021 Valentina Fossati; Master of Science in Biodiversity and Evolution; Thesis “Morphological aspects of gametogenesis of the solitary papillose cup coral *Paracyathus pulchellus* (Scleractinia, Caryophylliidae) in the Mediterranean Sea”; supervisor: Prof. Stefano Goffredo (BiGeA); co-supervisor: Dr **C. Marchini** (BiGeA)
- 2020 Ginevra Allegra Simoncini; Master of Science in Biodiversity and Evolution; Thesis “A model for informal environmental education in the framework for global sustainable tourism”; supervisor: Prof. Stefano Goffredo (BiGeA); co-supervisor: Dr **C. Marchini** (BiGeA)
- 2020 Ilaria Zuccaro; Master of Science in Marine Biology; Thesis “Reproductive output of the solitary zooxanthellate coral *Balanophyllia europaea* (Scleractinia, Dendrophylliidae) along a natural pH gradient at Panarea Island”; supervisor: Prof. Stefano Goffredo (BiGeA); co-supervisor: Dr **C. Marchini** (BiGeA)
- 2020 Chiara Cassarino; Bachelor of Science in Biological Sciences; Thesis “Reproduction of the non-zooxanthellate colonial coral *Astroides calycularis* (Scleractinia, Dendrophylliidae) naturally living at CO₂ vents in Ischia Island. A preliminary study”; supervisor: Prof. Stefano Goffredo (BiGeA); co-supervisors: Dr E. Caroselli and Dr **C. Marchini** (BiGeA)
- 2019 Camilla Volponi; Bachelor of Science in Biological Sciences; Thesis “Reproductive capacity of the solitary azooxanthellate coral *Leptopsammia pruvoti* after six months of exposure to different experimental conditions of temperature and pH in the aquarium”; supervisor: Prof. Stefano Goffredo (BiGeA); co-supervisor: Dr **C. Marchini** (BiGeA)
- 2019 Umberto Valdrè; Bachelor of Science in Biological Sciences; Thesis “Analysis of the reproductive capacity of the solitary coral *Balanophyllia europaea* (Scleractinia, Dendrophylliidae) collected in 4 sites along a natural pH gradient at Panarea”;

- 2019 supervisor: Prof. Stefano Goffredo (BiGeA); co-supervisor: Dr **C. Marchini** (BiGeA)
Pietro Drei; Bachelor of Science in Biological Sciences; Thesis “The influence of ocean acidification on reproductive output of the colonial non-zooxanthellate coral *Astroides calycularis* (Scleractinia, Dendrophylliidae) naturally living at CO₂ vents. A preliminary study”; supervisor: Prof. Stefano Goffredo (BiGeA); co-supervisors: Dr E. Caroselli and Dr **C. Marchini** (BiGeA), N. Teixido e M.C. Gambi (Stazione Zoologica Anton Dohrn Napoli, SZN)
- 2019 Thomas Pondrelli; Master of Science in Biodiversity and Evolution; Thesis “The influence of ocean acidification on reproductive output of the colonial azooxanthellate coral *Astroides calycularis* (Scleractinia, Dendrophylliidae) transplanted along a natural pCO₂ gradient”; supervisor: Prof. Stefano Goffredo (BiGeA); co-supervisor: Dr **C. Marchini** (BiGeA)
- 2019 Luigi Costagliola; Master of Science in Biodiversity and Evolution; Thesis “Reproductive efficiency of the azooxanthellate scleractinian coral *Leptopsammia pruvoti* after six months of exposure to different temperature and pH conditions in aquarium”; supervisor: Prof. Stefano Goffredo (BiGeA); co-supervisor: Dr **C. Marchini** (BiGeA)
- 2018 Daniele Orsini; Bachelor of Science in Biological Sciences; Thesis “Monitoring of fishery resources near the artificial reefs of Cologna Spiaggia (TE)”; supervisors: Prof. Stefano Goffredo (BiGeA) and Dr Carla Giansante, L’Istituto Zooprofilattico Sperimentale dell’Abruzzo e del Molise “G. Caporale” di Teramo (IZSAM); co-supervisor: Dr **C. Marchini** (BiGeA)
- 2015-2016 Elena Guidi; Bachelor of Science in Natural Sciences; Thesis: “Study of the reproductive capacity of the solitary and non-zooxanthellate coral *Caryophyllia inornata* along a latitudinal gradient of temperature and solar radiation; supervisor: Dr Stefano Goffredo, Department of Biological, Geological and Environmental Science (BiGeA); co-supervisor: Dr Chiara Marchini (BiGeA)
- 2014-2015 Giada Tortorelli; Master of Biodiversity and Evolution; Thesis title: “Variation in the reproductive output of the non-zooxanthellate coral *Caryophyllia inornata* along a latitudinal gradient”; supervisor: Dr Stefano Goffredo, Department of Biological, Geological and Environmental Science (BiGeA); co-supervisor: Dr Chiara Marchini (BiGeA)
- 2013-2014 Roberto Fontana; Master of Marine biology; Thesis title: “Reproductive cycle of the solitary coral *Caryophyllia inornata* (Scleractinia, Caryophylliidae) driven by an unusual pattern of embryogenesis”; supervisor: Dr Stefano Goffredo, Department of Biological, Geological and Environmental Science (BiGeA); co-supervisor: Dr Chiara Marchini (BiGeA)

Membership in academic committees

- 2018-2020 Member of the Examination Committee. Ecology, BSc course in Biological Sciences, UniBo.
- 2018-2019 Member of the Graduation Committee. BSc course in Biological Sciences, UniBo.
- 2018-2019 Member of the Examination Committee. Relationships between Biodiversity and Environment, MSc course in Biodiversity and Evolution, UniBo.
- 2016 Member of the Graduation Committee. BSc course in Natural Sciences, UniBo.
- 2015, 2019 Member of the Graduation Committee. MSc course in Biodiversity and Evolution, UniBo.
- 2014 Member of the Graduation Committee. MSc course in Marine Biology, UniBo.

Scientific seminars

- December 16, 2020 “Glocal Education”. Seminar during the course “Relationships between biodiversity and environment”, MSc Degree Course in Biodiversity and Evolution, University of Bologna, UniBo (Italy). Teacher: S. Goffredo.

October 22, 2020	"Glocal Education". Seminar during the course "Management of resources and ecosystem services", MSc Degree Course in Sciences and Management of Nature, UniBo (Italy). Teacher: E. Caroselli
October 14, 2020	"Glocal Education". Seminar during the course "Ecology", BSc Course in Biological Sciences, UniBo (Italy). Teacher: S. Goffredo.
December 18, 2019	"Glocal Education". Seminar during the course "Relationships between biodiversity and environment", MSc Degree Course in Biodiversity and Evolution, University of Bologna, UniBo (Italy). Teacher: S. Goffredo.
October 23, 2019	"Glocal Education". Seminar during the course "Ecology", BSc Course in Biological Sciences, UniBo (Italy). Teacher: S. Goffredo.
October 17, 2019	"Glocal Education". Seminar during the course "Management of resources and ecosystem services", MSc Degree Course in Sciences and Management of Nature, UniBo (Italy). Teacher: E. Caroselli
November 28, 2018	"Glocal Education". Seminar during the course "Relationships between biodiversity and environment", MSc Degree Course in Biodiversity and Evolution, University of Bologna, UniBo (Italy). Teacher: S. Goffredo.
October 15, 2018	"Glocal Education". Seminar during the course "Ecology", BSc Course in Biological Sciences, UniBo (Italy). Teacher: S. Goffredo.

Prizes

March 2016	Travel Award for the 13th International Coral Reef Symposium registration fee (US\$370)
April 2014	Grant-In-Aid Fellowship Award of 3,045 US dollars (= 2,204.74 Euros), Bermuda Institute of Ocean Sciences for the project "Variations in reproductive effort by two common coral species in shallow versus mesophotic habitats in Bermuda". Coordinators: Dr Gretchen Goodbody - Gringley, Bermuda Institute of Ocean Sciences, Bermuda; Harvard University, USA; Dr Chiara Marchini and Dr Stefano Goffredo Department of Biological, Geological and Environmental Sciences, University of Bologna.
May 2012	Prize "Mario Pasquini" (www.premiomariopasquini.org), for the M. Sc. Thesis "Reproduction of the solitary coral <i>Caryophyllia inornata</i> (Scleractinia; Caryophylliidae). Morphological aspects of gametogenesis and ontogenesis".

Funding ID

July 2014	Scholarship of 4,050 Euros from Marco Polo program (abroad research fellowship program), Department Integrated Budget, University of Bologna, Ministry of Education, Universities and Research for the project "Variations in reproductive effort by two common coral species in shallow versus mesophotic habitats in Bermuda". Coordinators: Dr Gretchen Goodbody - Gringley, Bermuda Institute of Ocean Sciences, Bermuda; Harvard University, USA; Dr Chiara Marchini and Dr Stefano Goffredo Department of Biological, Geological and Environmental Sciences, University of Bologna.
May 2014	Scholarship for volunteer internship of 3,903.90 US dollars (=2,8581Euros), Bermuda Institute of Ocean Sciences for the project "Variations in reproductive effort by two common coral species in shallow versus mesophotic habitats in Bermuda". Coordinators: Dr Gretchen Goodbody - Gringley, Bermuda Institute of Ocean Sciences, Bermuda; Harvard University, USA; Dr Chiara Marchini and Dr Stefano Goffredo Department of Biological, Geological and Environmental Sciences, University of Bologna.

Membership in professional societies

2014-today American Academy of Underwater Sciences

Participation to research projects

- 2022 – 2023 Researcher. “Advanced materials using biogenic Calcium Carbonate from seashell wastes” (CASEAWA), coordinated by G. Falini, funds by BlueBio ERA-Net Cofund, Unione Europea (UE).
- 2018 – 2022 Researcher. “Controlling microbiomes circulations for better food systems” (CIRCLES), coordinated by M. Candela, funds by Horizon2020 (Societal Challenges - Food security, sustainable agriculture and forestry, marine, maritime and inland water research, and the bioeconomy), European Union.
- June 2010-today Researcher. Corals and Global Warming: the Mediterranean versus the Red Sea” (CoralWarm), coordinated by Dr Stefano Goffredo, Prof. Zvy Dubinsky and Prof. Giuseppe Falini, funds by the European Research Council (FP7 – IDEAS programme), European Union.
- December 2013 Scuba Tourism for the Environment: Red Sea Biodiversity Monitoring Program STE Project (www.steproject.org), coordinated by Prof. Stefano Goffredo, Marine Science Group - Alma Mater Studiorum, University of Bologna.
- August 2016 MEDITS Research Program (International Bottom Trawl Survey in the Mediterranean; <http://www.sibm.it>); General Coordinator Dr Maria Teresa Spedicato, Regional coordinator Prof. Corrado Piccinetti; funded by the European Commission (Directorate of Fisheries) - Mipaaf.

Research abroad

- July-October 2014 I collaborated closely with Dr Gretchen Goodbody-Gringley on a research related to variations in reproductive effort by depth in the two common Caribbean corals *Monastrea cavernosa* and *Orbicella franksii*. This work involved collecting and fixing specimens, conducting in situ coral surveys, and monitoring coral spawning in the laboratory. I also assisted in field and laboratory work related to the various research projects on Caribbean corals and invasive species and I shadowed other students to learn molecular techniques. In addition, I had the opportunity to participate in an oceanographic research cruise on the RV Atlantic Explorer where I learned techniques in shipboard sampling for oceanography.

Active participation in scientific meetings

IN EXTENSO CONGRESS PROCEEDINGS

1) Goffredo S, **Marchini C**, Rocchi M, Airi V, Caroselli E, Falini G, Levy O, Dubinsky Z, Zaccanti F (2012). Reproduction of the solitary coral *Caryophyllia inornata* (Scleractinia, Caryophylliidae). Congress “Codice Armonico”, IV Regional Congress of Natural Sciences, “Tuscany Environment”, Castiglioncello (Livorno, Italy), 15-17 March.

ABSTRACTS

10) **Marchini C**, Machado Toffolo M, Mancuso A, Caroselli E, Goffredo S. Short- and long-term effects of an informal education program on tourist environmental perception. "Patrimonio dell'Umanità. 50 anni dalla Convenzione UNESCO: riflessioni nei Campus dell'Alma Mater Studiorum", “Turismo sostenibile fra patrimonio locale e cittadinanza globale”. Rimini, November 10, 2022. Oral.

9) Lee C, Caroselli E, Machado Toffolo M, Meschini M, Mancuso A, **Marchini C**, Pensa F, Branchini S, Goffredo S. Eight years of community structure monitoring through recreational citizen science at the “SS Thistlegorm” wreck (Red Sea). 15th International Coral Reef Symposium. Bremen, July 3 – 8, 2022.

8) **Marchini C**, Fossati V, Cerpelloni M, Caroselli E, Falini G, Dubinsky Z, Goffredo S. Reproductive morphology and biometry of the non-zooxanthellate papillose cup coral *Paracyathus pulchellus* (Scleractinia:

- Caryophylliidae). 15th International Coral Reef Symposium. Bremen, July 3 – 8, 2022. Oral.
- 7) Mancuso A, Prada F, **Marchini C**, Di Fazio V, Ghiroldi C, Taviani M, Montagna P, Goffredo S (2022). Skeletal properties of the coral *Desmophyllum dianthus* are related to the aragonite saturation state along a depth gradient in the Mediterranean Sea. 15th International Coral Reef Symposium. Bremen, July 3 – 8, 2022. Oral.
- 6) Meschini M, Machado Toffolo M, **Marchini C**, Caroselli E, Prada F, Franzellitti S, Locci L, Davoli M, Trittoni M, Nanetti E, Tittarelli M, Bentivogli R, Branchini S, Neri P, Goffredo S (2020). Reliability of data collected by volunteers, a nine-year citizen science study in three Red Sea touristic facilities 5th Annual International Conference on participatory research, citizen science, crowd-innovation and fab labs for peace and development, United Nations Organization, Geneva (Switzerland), 8-10 December.
- 5) Goodbody-Gringley G, **Marchini C**, Chequer AD, Goffredo S (2016). Population structure of *Montastraea cavernosa* on shallow versus mesophotic reefs in Bermuda. 13th International Coral Reef Symposium, Honolulu (Hawaii), 19-24 giugno
- 4) Goodbody-Gringley G, **Marchini C**, Chequer AD, Goffredo S (2016). Population structure of *Montastraea cavernosa* on shallow versus mesophotic reefs in Bermuda. 45th Annual Benthic Ecology Meeting, Portland (Maine), 16-19 March.
- 3) **Marchini C**, Airi V, Falini G, Levy O, Dubinsky Z, Goffredo S (2013). Annual reproductive cycle in a Mediterranean solitary coral *Caryophyllia inornata* driven by an unusual pattern of embryogenesis. ICCB 2013: The international conference on coelenterate biology, Eilat (Israel), 1-5 December.
- 2) Goffredo S, **Marchini C**, Rocchi M, Airi V, Caroselli E, Falini G, Levy O, Dubinsky Z, Zaccanti F (2011). Riproduzione del corallo solitario *Caryophyllia inornata* (Scleractinia, Caryophyllidae) nel Mediterraneo. LLXXII congresso nazionale dell'Unione Zoologica Italiana, Bologna (Italy), 5-8 September.
- 1) Goffredo S, **Marchini C**, Rocchi M, Zaccanti F (2010). Sexual condition and reproductive mode of a Mediterranean Caryophylliid solitary coral showing an unusual pattern of embryo production. EURO ISRS symposium 2010: Reefs in a changing environment, Wageningen (Netherlands), 13-17 December.

Book chapters

- 1) Airi V, Gizzi F, **Marchini C**, Goffredo S (2016) Sexual reproduction of Mediterranean scleractinian corals. In: Goffredo S., Dubinsky Z. (eds) The cnidaria, past, present and future. The world of Medusa and her sisters. Springer, Dordrecht, in press

Articles in peer review / impact factor journals

- 15) Prada F, Franzellitti S, Caroselli E, Cohen I, Marini M, Campanelli A, Sana L, Mancuso A, **Marchini C**, Puglisi A, Candela M, Mass T, Tassi F, LaJeunesse TC, Dubinsky Z, Falini G, Goffredo S. Acclimatization of a coral-algal mutualism at a CO₂ vent. Communications Biology, 6: 66. doi.org/10.1038/s42003-022-04327-3
- 14) Triunfo C, Gärtner S, **Marchini C**, Fermani S, Maoloni G, Goffredo S, Morales JG, Cölfen H, Falini G (2022): Recovering and Exploiting Aragonite and Calcite Single Crystals with Biologically Controlled Shapes from Mussel Shells. ACS Omega, 7:43992-43999. doi: 10.1021/acsomega.2c05386
- 13) **Marchini C***, Fossati V, Cerpelloni M, Caroselli E*, Falini G, Dubinsky Z, Goffredo S (2022): Sexual reproduction and biometry of the non-zooxanthellate papillose cup coral *Paracyathus pulchellus*. Frontiers in Marine Science, 9:925586. doi: 10.3389/fmars.2022.925586. (*corresponding author)
- 12) Machado Toffolo M, Simoncini GA, **Marchini C***, Meschini M, Caroselli E, Franzellitti S, Prada F, Goffredo S (2022): Long-term Effects of an Informal Education Program on Tourist Environmental Perception. Frontiers in Marine Science, 9:830085. doi: 10.3389/fmars.2022.830085. (*corresponding author)
- 11) **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 CO₂ vent. Limnology & Oceanography, in press
- 10) 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: 694258. doi: 10.3389/fevo.2021.694258
- 9) Meschini M, Machado Toffolo M, 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. doi: 10.1016/j.biocon.2021.109122
- 8) 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 Education in Marine Coastal Resorts Mitigates Tourism Impact on Ecosystems: Analysing a 3-year follow-up Citizen Science Project. *Frontiers in Marine Science*, section Marine Affairs and Policy, 8: 584644. doi:10.3389/fmars.2021.584644
- 7) **Marchini C**, Tortorelli G, Guidi E, Airi V, Falini G, Dubinsky Z, Goffredo S (2020): Reproduction of the azooxanthellate coral *Caryophyllia inornata* is not affected by temperature along an 850 km gradient on the Western Italian coast. *Frontiers in Marine Science*, 6: 785. doi: 10.3389/fmars.2019.00785
- 6) Caroselli E, Gizzi F, Prada F, **Marchini C**, Airi V, Kaandorp J, Falini G, Dubinsky Z, Goffredo S (2019) Low and variable pH decreases recruitment efficiency in populations of a temperate coral naturally present at a CO₂ vent. *Limnology & Oceanography*, 64: 1059-1069. doi:10.1002/lno.11097
- 5) Airi V, Prantoni S, Calegari M, Lisini Baldi V, Gizzi F, **Marchini C**, Levy O, Falini G, Dubinsky Z, Goffredo S (2017) Reproductive output of a non-zooxanthellate temperate coral is unaffected by temperature along an extended latitudinal gradient. *PLoS ONE*, 12: e0171051. doi:10.1371/journal.pone.0171051.
- 4) Caroselli E, Ricci F, Brambilla V, **Marchini C**, Tortorelli G, Airi V, Mattioli G, Levy O, Falini G, Dubinsky Z, Goffredo S (2016) Growth, population dynamics and reproductive output model of the non-zooxanthellate temperate solitary coral *Caryophyllia inornata* (Scleractinia, Caryophylliidae). *Limnology & Oceanography*, 3: 1111-1121. doi:10.1002/lno.10489.
- 3) Goodbody-Gringley G, **Marchini C**, Chequer AD, Goffredo S (2015) Population structure of *Montastraea cavernosa* on shallow versus mesophotic reefs in Bermuda. *PLoS ONE*, 10: e0142427. doi: 10.1371/journal.pone.0142427
- 2) **Marchini C**, Airi V, Fontana R, Tortorelli G, Rocchi M, Falini G, Levy O, Dubinsky Z, Goffredo S (2015) Annual reproductive cycle and unusual embryogenesis of a temperate coral in the Mediterranean Sea. *PLoS ONE*, 10: e0141162. doi: 10.1371/journal.pone.0141162
- 1) Goffredo S, **Marchini C**, Rocchi M, Airi V, Caroselli E, Falini G, Levy O, Dubinsky Z, Zaccanti F (2012) Unusual pattern of embryogenesis of *Caryophyllia inornata* (Scleractinia, Caryophylliidae) in the Mediterranean Sea. Maybe agamic reproduction? *Journal of Morphology*, 273:943-956

International Advisory

- 2013-today **Referee.** *Tissue and cell*. Elsevier, Amsterdam (1 manuscript).
Assistant referee. *Marine Biodiversity*. Springer, Dordrecht, Netherlands (1 manuscript). *Coral Reefs*. Journal of the International Society for Reef Studies, Springer, New York, USA (2 manuscript). *Journal of the Marine Biological Association of the United Kingdom*. Cambridge University Press, Cambridge, UK (2 manuscript). *Hydrobiologia*. Springer, Dordrecht, Netherlands (1 manuscript).

Preparation of European research projects

Under the supervision of Prof. Stefano Goffredo, University of Bologna, has contributed to the preparation and submission of several European research projects:

- Horizon 2020, European Research Council, Advanced Grant (ERC-2019-ADG; August 2019): pHenoplasT – Surviving Global Climate Change: Phenotypic Plasticity of Mediterranean Corals (Proposal number: 884282)
- H2020-MSCA-ITN-2019 (January 2019): MedREEFRISK – Reef science to policy and society: assessing and translating risks of climate change on socioeconomic services provided by Mediterranean reefs (Proposal number: 858148)

Communication activities

- 2018-2020 Scientific Degrees Plan, Bologna (Italy). Activities for high school students to promote the University courses in scientific disciplines.
- September 2018 Waiting for the Researchers' Night, Scientific High School Augusto Righi, Bologna (Italy). Public engagement presentation "Diving in the Night!...of the Researchers".
- 2010 – today European Dive Show (EuDi), Roma, Bologna, Milano (Italy). Presentation of the projects "STE: Scuba Tourism for the Environment" (www.steproject.org) and

2010 – today “CoralWarm” (www.coralwarm.eu).
European Researchers’ Night, Bologna (Italy). Presentation of the projects “STE: Scuba Tourism for the Environment” (www.steproject.org) and “CoralWarm” (www.coralwarm.eu).

Languages

Mother tongue Italian.

Other Languages English. Good reading, writing, and speaking.

Technical skills and competences

I have good knowledge of windows-based software, office package, Internet, software for data acquisition and image processing (Nikon NIS-Elements, LEICA Q500IW), professional advanced statistical software (SPSS, Primer) and image editing (Photoshop and Illustrator). Microscopy (optical and ESEM); Histological analysis; Thermogravimetry; X-ray diffraction; infrared spectroscopy; Granulometric analysis.