Mancuso Arianna

Postdoctoral fellow

Fano Marine Center and Dept. of Biological, Geological and Environmental Sciences, University of Bologna, Italy

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EDUCATION

2015 - 2019 *University of Bologna, Italy*

PhD in Earth, Life and Environment Sciences. XXXI cycle
PhD. Thesis: "Growth, calcification and shell properties variations in the clam *Chamelea gallina* along a latitudinal gradient of environmental parameters". Supervisor: Prof. Stefano Goffredo. 15 Mars 2019.

2009 - 2012 *University of Bologna, Italy*

MASTER DEGREE in Biodiversity and Evolution.
Thesis: "Skeletal mechanical properties of Mediterranean corals along a solar radiation and sea surface temperature gradient." Supervisor: Prof. Stefano Goffredo. 12 Mars 2012, evaluation: 110/110 *cum laude.*

2006 - 2009 *University of Pavia, Italy*

DEGREE in Biological Sciences.
Thesis: “Evaluation of the water biological quality in the basin of the Staffora river with diatomic index”. Supervisor: Prof. Pietro Angelo Nardi. 28 September 2009, evaluation: 107/110.

2001 - 2006 *Pavia, Italy*

Scientific secondary schools,
Liceo Niccolò Copernico.

PROFESSIONAL APPOINTMENTS

2023 - today *University of Bologna, Italy*

POSTDOCTORAL FELLOW, Fano Marine Center; BiGeA, UNIBO
Research topic: “Growth, skeletal properties and bioaccumulation of PAHs in Mediterranean solitary corals living at CO2 vents in Southern Italy”. Supervisor: Prof. Stefano Goffredo

2022 - today *University of Bologna, Italy*

Tutor. 93573 - Trasversal lab in Natural Sciences (**SSD BIO/07**)
Module of Elements of Chemistry and Ecology, Single cycle degree programme (LMCU) in Primary teacher education, Department of Education Studies "Giovanni Maria Bertin", UNIBO. 6 transversal labs of 8 hours each (1 CFU).

2022 - today *University of Bologna, Italy*

ADJUNCT PROFESSOR. 07943 - Elements of Ecology **(SSD BIO/07)**
Module of Elements of Chemistry and Ecology, Single cycle degree programme (LMCU) in Primary teacher education, Department of Education Studies "Giovanni Maria Bertin", UNIBO.
24 hours of lectures (5 CFU).

2021 - 2022 **ADJUNCT PROFESSOR.** 07943 - Elements of Ecology **(SSD BIO/07)**
University of Bologna, Italy Module of Elements of Chemistry and Ecology, Single cycle degree programme (LMCU) in Primary teacher education, Department of Education Studies "Giovanni Maria Bertin", UNIBO.
24 hours of lectures + 8 hours of laboratory (5 CFU).

2020 - today **POSTDOCTORAL FELLOW, Fano Marine Center; BiGeA, UNIBO**
University of Bologna, Italy Research topic: "Anthropogenic effects on the calcification of benthic invertebrates of the Mediterranean Sea: consequences of ocean acidification". Supervisor: Prof. Stefano Goffredo

2014 - 2019 **RESEARCH FELLOW**
University of Bologna, Italy "Ecosystemic approach to demersal resources valuation", Medits Project funds. Marine biology and fishery Lab - Fano

RESEARCH INTERESTS AND EXPERTISE

Climate change. Global warming. Ocean acidification.
Biometry, growth, calcification and shell properties of Mediterranean corals and bivalves and their relation with environmental parameters.
Monitoring and conservation of marine flora and fauna. Conservation of biological cycles of demersal species in the Adriatic Sea. Taxonomy of Mediterranean benthic invertebrates.
Citizen Science. Monitoring program. Environmental education.

FIELD ACTIVITIES - I have conducted several field studies on corals and mollusks along natural temperature, pH, and anthropogenic impact gradients in the Mediterranean Sea. Since 2017, I have co-organized and participated to **10 scientific expeditions** as team member and co-organizer (n=4) and as expedition leader (n=6). Throughout these expeditions, I carried out more than 50 scientific dives in different localities of the west Mediterranean Sea, mainly in Sicily at Panarea Island (ME) and along the Tyrrhenian coast of Italy in Calafuria (LI) and Ischia (NA).

EXPERTISE - Sample and data collection: environmental parameters monitoring, underwater field sampling and aquarium experiments. Multi-scale morphology: macro-scale biometric analyses, mechanical skeletal properties: X-ray diffractometry, nanoindentation, porosimetry. Growth and population dynamics: sclerochronology by computerized tomography, age-based modeling of growth and demography.

PEER-REVIEWED PUBLICATIONS

10. Lee C., Caroselli E., Machado Toffolo M., **Mancuso A.**, Marchini C., Meschini M., Goffredo S. (2023). Eight years of community structure monitoring through recreational citizen science at the "SS Thistlegorm" wreck (Red Sea); *Accepted by PLOS ONE*

9. 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. (2023). Acclimatization of a coral-dinoflagellate mutualism at a CO_2 vent. *Communication Biology*, 6:66. https://doi.org/10.1038/s42003-022-04327-3

8. **Mancuso A.,** Yam R., Prada F., Stagioni M., Goffredo S., Shemesh A. (2022). Oxygen and carbon isotope variations in *Chamelea gallina* shells: environmental influences and vital effects. *Geobiology,* 00, 1-14. doi.org/10.1111/gbi.12526

7. Palladino G., Caroselli E., Tavella T., D'Amico F., Prada F., **Mancuso A.,** Franzellitti S., Rampelli S., Candela M., Goffredo S., Biagi E. (2022). Metagenomic shifts in mucus, tissue and skeleton of the coral *Balanophyllia europaea* living along a natural CO_2 gradient. I*SME Communications*, *2*, 65. doi.org/10.1038/s43705-022-00152-1

6. 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. doi.org/10.3389/fevo.2021.694258

5. 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(3):* e0247590. doi.org/10.1371/journal.pone.0247590

4. Palladino, G., Rampelli, S., Scicchitano, D., Musella, M., Quero, G.M., Prada, F., **Mancuso, A.,** Seyfarth, A.M., 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. doi.org/10.3390/microorganisms9020455

3. **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*(1), 11198. doi.org/10.1038/s41598-019-47538-1

2. Gizzi F, Caccia MG, Simoncini GA, **Mancuso A**, Reggi M, Fermani S, Brizi L, Fantazzini P, Stagioni M, Falini G, Piccinetti C, Goffredo S (2016). Shell properties of commercial clam *Chamelea gallina* are influenced by temperature and solar radiation along a wide latitudinal gradient. *Scientific reports*, *6:* 36420. doi.org/10.1038/srep36420

1. 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 34*: 121-132. doi.org/10.1007/s00338-014-1222-6

FUNDING ID

2019 National Geographic Explorer Community Funding "Plastic aware day in Fano". Project funding number FR-15520, $1,000.

2019 Assemble PLUS Transnational Access Program (European Union's Horizon 2020 research and innovation). ClamCHANGE Project at CIIMAR, Interdisciplinary Centre of Marine and Environmental Research of the University of Porto, Portugal. Grant Agreement No. 730984

2018 Early Career Grant of the National Geographic Society for the project "SHELL WARM. The Panarea underwater crater: a natural laboratory for studying acidification and warming effects on Mediterranean benthic molluscs in face of global climate change" Principal investigator: Dr. Arianna Mancuso. Coordinators: Dr Arianna Mancuso and Prof. Stefano Goffredo. Grant Number EC-170R-18 (amount: $5,000).

2017 Abroad research fellowship: Marco Polo program for research abroad, Department Integrated Budget, University of Bologna, Ministry of Education, Universities and Research for the project "Oxygen and carbon stable isotope composition, age and growth rates of the clam *Chamelea gallina* (Bivalvia: Veneridae) along a latitudinal gradient". Supervisor: Prof. Stefano Goffredo and Prof. Aldo Shemesh, Co-supervisor: Dr. Ruth Yam. Department of Biological, Geological and Environmental Sciences, University of Bologna (amount: €4,050).

RESEARCH ACTIVITIES

2019 - today **CIRCLES |** "Controlling microbiomes circulations for better food systems", coordinated by Prof. Marco Candela.
Horizon2020 (Societal Challenges - Food security, sustainable agriculture and forestry, marine, maritime and inland water research, and the bioeconomy), European Union (EU).
H2020-SFS-2018-2020 Topic: LC-SFS-03-2018.

2019 - today **ClamCHANGE |** "Combined effects of seawater acidification, elevated temperatures and salinity on the growth and calcification in the clam *Chamelea gallina* in face of climate change", coordinated by Dott. Arianna Mancuso.
Assemble PLUS Transnational Access Program (European Union's Horizon 2020 research and innovation). Grant Agreement No. 730984.

2019 - today **DUE |** "Divers united for the Environment", also known as Sea Sentinels, coordinated by Prof. Stefano Goffredo.

Funded by Confcommercio – Confturismo, Buoni Vacanze Italia, Kel 12 – National Geographic Expedition, SCUBAPRO, PADI.

2018 - 2021 **THE PANAREA UNDERWATER CRATER |** "A natural laboratory for studying ocean acidificaton on mediterranean benthic organisms", coordinated by Dott. Arianna Mancuso.

Funded by National Geographic Early Career Grant
Grant Agreement No. EC-170R-18.

2018 - 2019 **CAMEL Project |** Evaluation of halieutic resources of mollusks in the Adriatic Sea to sustainable fisheries management.
Funded by Marche Region

2014 - 2019 **The MEDITS survey programme, |** International bottom trawl survey in the Mediterranean Sea, coordinated by Prof. Corrado Piccinetti for the GSA17 (North and Central Adriatic Sea).

Funded by the European Commission (DG MARE) and Member States.

2014 - 2019 **STE | "**Scuba Tourism for the Environment". Red Sea Biodiversity Monitoring Program (STE project: www.steproject.org), coordinated by Prof. Stefano Goffredo.

Funded by the Italian Government (Ministry of the Education, University and Research, the Egyptian Government (Ministry of Tourism of the Arab Republic of Egypt, Egyptian Tourist Authority, the tour operator Settemari, the diving agency SNSI, Scuba Nitrox Safety International, the diving centers Viaggio nel Blu and the Project Aware Foundation.

2010 - 2012 **CORALWARM | "**Corals and Global Warming: the Mediterranean versus the Red Sea", (CoralWarm: www.coralwarm.eu), coordinated by Prof. Zvy Dubinsky, Prof. Giuseppe Falini, and Prof. Stefano Goffredo.

Funded by the European Research Council (FP7 – IDEAS programme), European Union.

ABROAD RESEARCH ACTIVITIES

Sept - Oct 2020
Mathosinhos, Portugal

One month at Centro Interdisciplinar de Investigação Marinha e Ambiental (CIIMAR) under the supervision of Dott. Francisco Arenas. "Combined effects of seawater acidification, elevated temperatures and salinity on the growth and calcification in the clam *Chamelea gallina* in face of climate change" (ClamCHANGE).

Apr - July 2017
Rehovot, Israel

Three months at Weizmann Institute of Science under the supervision of Prof. Aldo Shemesh and of Dr. Ruth Yam. Oxygen and carbon stable isotope composition, age and growth rates of the clam *Chamelea gallina* (Bivalvia: Veneridae) in six sites along a latitudinal gradient in the Adriatic Sea.

May 2012 - Aug 2013 *Sharm el Sheikh, Egypt*	15 months in diving centers and touristic resorts. Red Sea biodiversity monitoring program in the framework of the STE - Scuba Tourism for the Environment under the supervision of Prof. Stefano Goffredo.

SYMPOSIA AND CONFERENCES

Cheli A., **Mancuso A.,** Falini G., Goffredo S., Scarponi D. (2023). Assessing *Chamelea gallina* biomineralization dynamics in the Holocene of the Northern Adriatic (Italy), EGU General Assembly 2023, Vienna, Austria, 24–28 Apr 2023, EGU23-15742, https://doi.org/10.5194/egusphere-egu23-15742, 2023. *Virtual Poster*

Scarponi D., **Mancuso A.**, Goffredo S., Kowalewski M. (2023). Mollusk response under ocean acidification in shallow marine settings of Sicily (Central Mediterranean). In: Abstracts of the 2nd Conservation Paleobiology Symposium. Bulletin of the Florida Museum of Natural History 60(2):113. https://doi.org/10.58782/flmnh.tbsm5836

Marchini C., Machado Toffolo M., **Mancuso A**., Caroselli E., Goffredo S. (2022) 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". L'Università di Bologna per l'Unesco (unibo.it). Rimini, 10 novembre 2022 (Oral).

Cheli A., **Mancuso A.**, Falini G., Goffredo S. & Scarponi D. (2022). Environmental influence on calcification of the bivalve *Chamelea gallina* on a millennial temporal scale, in the Northern Adriatic Sea. Poster at Geosciences for a sustainable future, 19-21 September, Turin, Italy (Poster).

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).

Cassarino C., **Mancuso A.**, Prada F., Caroselli E., & Goffredo S. (2022). Influence of environmental parameters on growth in the solitary non-zooxanthellate coral *Caryophyllia inornata* naturally living at volcanic vents. 15th International Coral Reef Symposium. Bremen, July 3 – 8, 2022 (Poster).

Lee C., Caroselli E., Machado Toffolo M., Meschini M., **Mancuso A.**, Marchini C., Pensa F., Branchini S., Goffredo S. (2022). 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 (Oral).

Cheli A., **Mancuso A.,** Prada F., Pasquini L., Falini G., Goffredo S., Scarponi D. (2021). Exploring shell variations dynamics of the bivalve CHAMELEA GALLINA on a millennial temporal scale: from the Holocene sub-fossil record to Modern thanatocoenosis of the Northern Adriatic Sea, Paleodays 2021, XXI Convegno della Società Paleontologica Italiana, live virtual edition (Oral).

Cheli, A., **Mancuso, A.,** Prada, F., Baseotto, A., Falini, G., Goffredo, S., and Scarponi, D. (2021). Climate change influence on calcification of the bivalve *Chamelea gallina* in the Adriatic Sea: exploring a temporal gradient from the Holocene to modern days, EGU General Assembly 2021, online, 19–30 Apr 2021, EGU21-15750, https://doi.org/10.5194/egusphere-egu21-15750, 2021 (Oral).

Cheli A., **Mancuso A.,** Stagioni M., Scarponi D., Falini G., Goffredo S. (2020) *Chamelea gallina* response to anthropogenic and climate driven environmental change: the case study of the Holocene fossil records from Po-Adriatic system (Italy). Conservation Paleobiology Symposium, Bologna (Italy), 3-4 February (Oral).

Scarponi D., Cheli A., **Mancuso A.,** Falini G**.,** Goffredo S., Nawrot R., Kowalewski M. (2019). Using regional stratigraphic context of the Po-Adriatic system (Italy) to infer biotic response of *Chamelea gallina* to Holocene environmental change. 11th North American Paleontological Convention, Riverside (USA), 23-27 June 2019 (Oral).

Scarponi D., Cheli A., Nawrot R., **Mancuso A**., Kowalewski M., Falini G., Dexter T., Cremonini S., Mucci M., Goffredo S., Stagioni M. (2019). Shell morphology and skeletal properties in edible clam *Chamelea gallina* during the Holocene: contrasting the fossil and modern records to forecast biotic responses to global change. EGU (European Geosciences Union) General Assembly, Vienna (Austria), 7–12 April 2019 (Oral).

Mancuso A, Gizzi F, Caccia MG, Simoncini G, Reggi M, Brizi L, Fantazzini P, Stagioni M, Falini G, Piccinetti C, Goffredo S. (2016). Shell morphology and skeletal property variations in the clam *Chamelea gallina* along a latitudinal gradient in the Adriatic Sea. 1° National combined meeting UZI-SITE-SIB "Biodiversity: concepts, new tools and future challenges" Milan (Italy), 31 August - 2 September 2016 (Oral).

Mancuso A., Gizzi F, Caccia MG, Simoncini G, Reggi M, Brizi L, Fantazzini P, Stagioni M, Falini G, Piccinetti C, Goffredo S. (2016). Shell morphology and skeletal property variations in the clam *Chamelea gallina* in the Adriatic Sea. BiGeA Day, Dept. of Biological, Geological and Environmental Sciences, University of Bologna. 22 December 2016 (Oral).

INVITED TALKS

- Comunicatori si nasce o si diventa? Le testimonianze dei ricercatori Alma Mater "Interpretare il mare" a cura di Arianna Mancuso, Biologa marina dell'Università di Bologna e National Geographic Explorer. Progetto @UniboPER PhDstorytelling. Ufficio Public Engagement / Settore Comunicazione. ARTEC – Comunicazione
- Environmental influence on the growth and shell properties of the Adriatic clam *Chamelea gallina.* NEPTUNE SEMINAR SERIES organized by CIIMAR | Interdisciplinary Centre of Marine and Environmental Research of the University of Porto, 28 Oct 2020
- Chances and skills of environmental biologists: Stories of successful research; Dr. Arianna Mancuso, University of Bologna and National Geographic Early Career Grant. High

professional training workshop of the National Order of Biologists about the microplastics seawater contamination, Palermo, 18 May 2019.

STUDENT MENTORING

2022-today Teresa Sani, PhD student in Innovative Technologies and Sustainable Use of Mediterranean Sea Fishery and Biological Resources (FishMed-PhD), cycle XXXVIII. Research topic: "Effects of the runoff of the main rivers in the Adriatic Sea on the growth of *Chamelea gallina* in relation to the interannual variability of physical and biogeochemical parameters". Supervisor: Prof. Mauro Marini; Co-Supervisor: Prof. Stefano Goffredo, Dr. Arianna Mancuso.

2021-today Matilde Gironi; Student in Biological Sciences. Internship and next thesis: "Combined effects of seawater acidification, elevated temperatures and salinity on the growth and calcification in the clam *Chamelea gallina* in face of climate change". Supervisor: Prof. Stefano Goffredo; Co-Supervisor: Dr. Arianna Mancuso.

2022-2023 Chiara Cassarino; Master Student in Biodiversity and Evolution. Internship and next thesis: "Influence of low aragonite saturation state on growth and population dynamics in the solitary non-zooxanthellate coral Caryophyllia inornata naturally living at volcanic vents". Supervisor: Prof. Erik Caroselli; Co-Supervisor: Dr Arianna Mancuso, Prof. Stefano Goffredo.

2021-2023 Francesca Giovanna Bardone; Master Student in Biodiversity and Evolution. Internship and next thesis: "Combined effects of seawater acidification, elevated temperatures and salinity on the growth and calcification in the clam *Chamelea gallina* in face of climate change". Supervisor: Prof. Stefano Goffredo; Co-Supervisor: Dr. Arianna Mancuso.

2021-2023 Francesca Giattino; Master Student in Biodiversity and Evolution. Internship and next thesis: "Skeletal composition and mineralogy of the azooxanthellate coral *Caryophyllia inornata* grown in a submerged cave". Supervisor: Prof. Giuseppe Falini; Co-Supervisor: Prof. Stefano Goffredo, Dr. Arianna Mancuso.

2020-2023 Alessandro Cheli, PhD student in Innovative Technologies and Sustainable Use of Mediterranean Sea Fishery and Biological Resources (FishMed-PhD), Cycle XXXV. Research topic: "Relationship between phenotype and environment in marine calcifying organisms: exploring growth and shell properties of different mollusks species in past and modern scenario". Supervisor: Prof. Jaap Kaandorp; Co-Supervisor: Prof. Daniele Scarponi, Prof. Stefano Goffredo, Dr. Arianna Mancuso.

2020-2022 Niccolò Pasini; graduate in Biological Sciences. Internship and next thesis: "Biometry and skeletal properties of the Mediterranean coral *Caryophyllia inornata* along a pH gradient". Supervisor: Prof. Stefano Goffredo; Co-Supervisor: Dr. Arianna Mancuso.

2019-2022 Erica Genoni; graduate in Natural Sciences. Thesis: “Effects of ocean acidification on the composition of marine benthic mollusks communities at volcanic CO_2 vents of Panarea”. Supervisor: Prof. Stefano Goffredo; Co-Supervisor: Dr. Arianna Mancuso.

2020-2021 Oscar Wallnoefer; graduate in Biological Sciences. Internship and next thesis: “Population dynamics of the Mediterranean coral *Caryophyllia inornate along a pH gradient*”. Supervisor: Prof. Stefano Goffredo; Co-Supervisor: Dr. Arianna Mancuso.

2017-2019 Alessandro Cheli; Master of Science in Science and management of nature. Thesis: “Shell morphology and skeletal properties in the edible clam *Chamelea gallina* during the Holocene: contrasting the fossil and modern records to forecast biotic responses to global change”. Supervisor: Prof. Stefano Goffredo; Co-Supervisor: Dr. Arianna Mancuso.

WORK EXPERIENCES

2021 - 2022 Tutoring in scientific matters, Fano, Pesaro Urbino, Italy.

2021 “Alla scoperta dei mostri marini della Liguria con Niccolò Balini, Dario Vergassola e Arianna Mancuso”, video production National Geographic/Disney+ for the cartoon release “Luca”.

2021 “Alla ricerca dei capodogli con Michele Bravi e Arianna Mancuso”, video production National Geographic/Disney+ for the documentary film release “The secret of whale”.

2020 Testimonial for the “We Are All Explorers” collection, a National Geographic and Oviesse collaboration.

2019 Promotional video for boat excursions with marine biologists in collaboration with Kel12/National Geographic Expeditions and Sea Sentinels Project. Marine Protected Areas in the Liguria region, Italy

2014 Didactic and recreational activity at Milan Civic Aquarium, Verdeacqua Onlus, Milan, Italy. Scientific divulgation, guided tours, didactical labs and summer camps.

2014 WWF Summer camps, 7-14 years old’s children. Levanto and Parco Nazionale delle Cinque Terre. Snorkeling, beach activity, naturalistic tours and scientific labs.

2012 - 2013 Marine biologist and dive master: dive and snorkeling guide. Viaggio nel Blu Diving Center, Sharm el Sheikh, Egypt.

2008 Acquario Le Navi di Cattolica, Rimini, Italy. Approach and focus on the main techniques for conservation in closed-loop systems of marine aquatic

organisms.

2006 - 2014 Tutoring in scientific matters, Lacchiarella, Milan, Italy.

DISSEMINATION ACTIVITIES

6 Oct 2022 "Norme per la salvaguardia del mare: sta cambiando qualcosa? Il punto sulla legge "SalvaMare" a cinque mesi dalla sua approvazione." Barcolana Sea Summit: verso gli Stati Generali della sostenibilità dell'Alto Adriatico e dell'Europa Centrale. Panel organizzato dalla Direzione Rai Per la Sostenibilità - ESG. TCC - Trieste Convention Center, Auditorium Generali.

11 Nov 2021 "Understanding the Sea", National Geographic Science Festival. Cinema Anteo CityLife, Milano

25 Sept 2020 "Meraviglie Blu", Esploratori e scoperte. University of Bologna and National Geographic Society.

1 Sept 2020 "Gli abitanti degli scogli" - Alla scoperta degli organismi marini che popolano le scogliere del nostro mare. Casa Archilei Environmental Education Centre, Fano, Pesaro Urbino, Italy.

12 April 2019 "Which future for the sea? Planet or plastic?", National Geographic Science Festival. Auditorium Parco della musica, Roma.

18 Mars 2019 "Esploratori si diventa", le nuove frontiere della ricerca e dell'esplorazione. University of Bologna and National Geographic Society.

11 Febr 2019 Explorer Spotlight. National Geographic Explorers Festival London, Lyric Hammersmith, London, UK.

29 Sept 2017 "L'uomo e il mare", European Researcher's Night, Salaborsa (Bologna).

SPECIALIZATION COURSES AND STAGES

2020 24 CFU learning course on pedagogy, inclusive didactics, psychology, anthropology and didactic methodologies and technologies. University eCampus.

2019 High professional training workshop of the National Order of Biologists about the microplastics seawater contamination. Palermo, Italy.

2019 National Geographic Science Telling Bootcamp, London, Great Britain.

2014 WWF naturalistic guide, Bosco WWF Vanzago, Milan, Italy.

2014	Monographic course of reef fish with Massimo Boyer. ISM - Institute for Sea Study, Milan Civic Aquarium, Italy.
2011	Scientific Diving Laboratory: diving techniques for biological survey. University of Bologna, Italy.
2009	PIC Erasmus: Biodiverisité Marine, option Zoologie et Ecologie Marine. Station Biologique de Roscoff, P. and M. Curie University, Paris VI, France.

QUALIFICATIONS AND LICENSES

2021	Qualification to the instruction for High School (A028 - Mathematics and Science)
2013	Qualifying exam for the profession of biologist, University of Pavia (Italy)
2013	Divemaster, Professional Association of Diving Instructors (PADI)
2012	Rescue Diver and Enriched Air Diver: Nitrox, Professional Association of Diving Instructors (PADI)
2011	Advanced Open Water Diver, Scuba and Nitrox Safety International (SNSI)
2009	Open Water Diver, Scuba Schools International (SSI)
2005	Drive license B

LANGUAGES

Italian	Mother tongue
English	Good reading writing and speaking
French	Fluent reading, writing and speaking

COMPUTER SKILLS

European Computer Driving Licence.
Excellent knowledge in Macintosh and Windows softwares (Office package) and web navigation (Explorer, Safari, FireFox). Good expertise in Image editing (Adobe Photoshop, Lightroom, Illustrator) and video editing (iMovie and Final Cut Pro).
Good knowledge of statistical software (RStudio and SPSS).

RELATIONAL ABILITIES

Excellent ability in teamwork and inclination to leadership; I easily express my opinion and I have a tendency to take the initiative.

I’m curious, passionate and go-ahead without integretional problems in new group and situations. Great adaptation and adventurous spirit.

Ai sensi del D. Lgs. 196/2003, la sottoscritta consente il trattamento dei propri dati personali nella misura necessaria al perseguimento degli scopi istituzionali e all’adempimento di obblighi previsti dalla Legge.

Fano, 1 March 2023 Arianna Mancuso