

DAVIDE MAGGIONI

1. PERSONAL INFORMATION

Name and surname: **Davide Maggioni**

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Google Scholar: <https://scholar.google.it/citations?user=FPikq4wAAAAJ&hl=it>

ResearchGate: <https://www.researchgate.net/profile/Davide-Maggioni-2>

2. SCIENTIFIC EDUCATION AND TRAINING

ACADEMIC EDUCATION

2018 – PhD in Biology and Biotechnology, curriculum Morpho-functional Biology (XXX cycle).

Dipartimento di Biotecnologie e Bioscienze, Università degli Studi di Milano-Bicocca, Italy.

Title: New insights into the diversity, ecology, and evolution of the *Zancleida* (Hydrozoa, Cnidaria).

Period: December 2014 – November 2017. Obtained: 01/03/2018. Grade: Excellent cum laude.

2014 – Master Degree in Biology.

Dipartimento di Biotecnologie e Bioscienze, Università degli Studi di Milano-Bicocca, Italy.

Title: ‘New morpho-molecular insights into the symbiosis between *Zanclea* spp. (Cnidaria, Hydrozoa) and scleractinians (Cnidaria, Scleractinia)’.

Period: October 2012 – July 2014. Obtained: 18/07/2014. Grade: 110/110 cum laude.

2012 – 1st Level International Master in Marine Sciences for Sustainable Development.

Dipartimento di Biotecnologie e Bioscienze, Università degli Studi di Milano-Bicocca, Italy; Marine Research and High Education (MaRHE) Center, Università degli Studi di Milano-Bicocca, Maldives.

Period: September 2011 – September 2012 (12 months). Obtained: 12/09/2012. Grade: Approved.

2011 – Bachelor Degree in Biological Sciences.

Dipartimento di Biotecnologie e Bioscienze, Università degli Studi di Milano-Bicocca, Italy.

Title: Expression of *dnmt* genes in *Danio rerio*: similarities with mammals.

Period: October 2008 – July 2011. Obtained: 22/07/2011. Grade: 108/110.

POST-DOCTORAL PROFESSIONAL AND RESEARCH ACTIVITIES

1 May 2023 – In progress. Researcher (Assistant Professor) in Zoology.

Dipartimento di Biotecnologie e Bioscienze, Università degli Studi di Milano-Bicocca, Italy.

1 April 2019 – 31 March 2023 (48 months). Post-doctoral fellow.

Title: ‘Evolution, ecology, and phylogeography of the *Zancleida*’.

Dipartimento di Scienze dell’Ambiente e della Terra, Università degli Studi di Milano-Bicocca, Italy.

1 January 2018 – 31 December 2018 (12 months). Post-doctoral fellow.

Title: ‘Taxonomical and ecological variations in stressed coral symbiomes’.

Marine Research and High Education (MaRHE) Center, Università degli Studi di Milano-Bicocca, Maldives.

OTHER PROFESSIONAL ACTIVITIES

January 2015 – In progress. Scientific consultant for ‘Esselunga S.p.A.’ as external expert for the identification of seafood items using DNA barcoding.

October 2019 – In progress. Scientific consultant for ‘Comavicola S.p.A.’ as external expert for the identification of seafood items using DNA barcoding.

December 2018. Scientific consultant for ‘Atoll Editions’ for the translation (English-Italian) of the chapter ‘Cnidaria’ in the book ‘Marine Life of the Maldives - Indian Ocean’.

15 November 2011 – 30 March 2012. Naturalistic guide, marine biologist.
Soneva Fushi Resort, Kunfunadhoo, Baa Atoll, Maldives.

OTHER EDUCATION AND TRAINING

2022 – Speciation Genomics

Physalia Courses (online)

Period: 05 – 09 December 2022.

2021 – RADseq Data Analysis Course

Physalia Courses (online).

Period: 08 – 12 November 2021.

2016 – Comparative Methods in Evolutionary Biology Course.

Stazione Zoologica Anton Dohrn, Napoli, Italy.

Period: 05 – 07 December 2016.

2015 – 3rd Marine Zoology International Summer School: An Integrated Approach to Marine Invertebrate Biodiversity.

Università del Salento, Avamposto MARE, Tricase, Italy.

Period: 21-26 September 2015.

2015 – Systematics and Biology of Hydrozoa (Cnidaria) Course

Smithsonian Tropical Research Institute (STRI), Bocas del Toro, Panama.

Period: 07 – 21 July 2015.

2011 – Workshop in Tropical Marine Ecology.

Dipartimento di Biotecnologie e Bioscienze, Università degli Studi di Milano-Bicocca, Italy; Marine Research and High Education (MaRHE) Center, Università degli Studi di Milano-Bicocca, Maldives.

Period: 04 – 12 April 2011.

3. ACADEMIC TEACHING ACTIVITIES

ACADEMIC TEACHING APPOINTMENTS

A.Y. 2023/2024

Fundamentals of Marine Biology.

Mandatory course in the international Master course in Marine Sciences, Università degli Studi di Milano-Bicocca, Italy, Maldives National University, Maldives. 28 hours (4 CFU).

Analisi e Gestione della Biodiversità Animale.

Elective course in the Master course in Biology, Università degli Studi di Milano-Bicocca, Italy. 42 hours (6 CFU).

Zoology Laboratory.

Laboratory course in the Bachelor course in Biological Sciences, Università degli Studi di Milano-Bicocca, Italy. 20 hours (2 CFU).

A.Y. 2022/2023

Adjunct Professor: Fundamentals of Marine Biology.

Mandatory course in the international Master course in Marine Sciences, Università degli Studi di Milano-Bicocca, Italy, Maldives National University, Maldives. 28 hours (4 CFU).

A.Y. 2021/2022

Adjunct Professor: Fundamentals of Marine Biology.

Mandatory course in the international Master course in Marine Sciences, Università degli Studi di Milano-Bicocca, Italy, Maldives National University, Maldives. 28 hours (4 CFU).

A.Y. 2020/2021

Adjunct Professor: Fundamentals of Marine Biology.

Mandatory course in the international Master course in Marine Sciences, Università degli Studi di Milano-Bicocca, Italy, Maldives National University, Maldives. 28 hours (4 CFU).

Adjunct Professor: Marine Invertebrate Zoology.

Elective course in the international Master course in Marine Sciences, Università degli Studi di Milano-Bicocca, Italy, Maldives National University, Maldives. 21 hours (3 CFU).

A.Y. 2019/2020

Adjunct Professor: Fundamentals of Marine Biology.

Mandatory course in the international Master course in Marine Sciences, Università degli Studi di Milano-Bicocca, Italy, Maldives National University, Maldives. 28 hours (4 CFU).

Adjunct Professor: Marine Invertebrate Zoology.

Elective course in the international Master course in Marine Sciences, Università degli Studi di Milano-Bicocca, Italy, Maldives National University, Maldives. 21 hours (3 CFU).

A.Y. 2018/2019

Adjunct Professor: Introduction to Marine Biology.

Mandatory course in the international Master course in Marine Sciences, Università degli Studi di Milano-Bicocca, Italy, Maldives National University, Maldives. 28 hours (4 CFU).

Adjunct Professor: Ecology Laboratory.

Laboratory course in the Bachelor course in Biological Sciences, Università degli Studi di Milano-Bicocca, Italy. 10 hours (1 CFU).

OTHER ACADEMIC TEACHING ACTIVITIES

A.Y. 2022/2023

Organiser, scientific responsibility and teaching for the Workshop – Tropical Marine Ecology.

Workshop at the Marine Research and High Education (MaRHE) Center, Università degli Studi di Milano-Bicocca, Maldives for bachelor students in Biological, Environmental, Natural, and Geological Sciences (2 editions, 90 hours – 6 CFU for each edition).

Organiser, scientific responsibility and teaching for the Workshop – Marine and Land Survey.

Workshop at the Marine Research and High Education (MaRHE) Center, Università degli Studi di Milano-

Bicocca, Maldives for bachelor students in Marine Sciences, Environmental Management della Maldives National University, Maldives (1 edition, 90 hours – 6 CFU).

Invited Lecturer.

Seminar at the Tropical Marine Science Institute, National University of Singapore, Singapore. Title: ‘Diversity and evolution of symbiotic hydrozoans’ (1 hour; 27/04/2023).

A.Y. 2021/2022

Invited Lecturer.

Seminar at the Department Day at the Dipartimento di Biotecnologie e Bioscienze, Università degli Studi di Milano-Bicocca, Italy. Title: ‘SeaTraceOmics: Revolutionizing SEAfood TRACEability using a multi-OMICS approach’ (1 hour; 15/12/2021).

Invited Lecturer.

Seminar at the Red Sea Research Center, King Abdullah University of Science and Technology, Saudi Arabia. Title: ‘Integrative approaches to disentangle invertebrate diversity’ (1 hour; 16/09/2021).

Organiser, scientific responsibility and teaching for the Workshop – Tropical Marine Ecology.

Workshop at the Marine Research and High Education (MaRHE) Center, Università degli Studi di Milano-Bicocca, Maldives for bachelor students in Biological, Environmental, Natural, and Geological Sciences (4 editions, 90 hours – 6 CFU for each edition).

Assistance and teaching for the Workshop – Tropical marine fishes: identification and ecology.

Workshop at the Marine Research and High Education (MaRHE) Center, Università degli Studi di Milano-Bicocca, Maldives for bachelor students in Biological, Environmental, Natural, and Geological Sciences and for master students in Biology and Marine Sciences (1 editions, 90 hours – 6 CFU).

A.Y. 2020/2021

Invited Lecturer.

Seminars at the Dipartimento di Scienze della Terra e del Mare, Università degli Studi di Palermo, Italy. Titles: ‘Integrative approaches to disentangle invertebrate diversity (and food frauds)’ (1 hour; 15/07/2021); ‘Seatracoemics and Ecoseatrace: integrating ‘omics’ approaches for seafood authentication and traceability’ (1 hour; 16/07/2021).

Invited Lecturer.

Seminar at the course ‘Animal Biological Interaction’, master course in Biology, Università degli Studi di Milano-Bicocca, Italy. Title: ‘An overview of animal interactions in coral reef environments’ (2 hours; 13/11/2020).

Organiser, scientific responsibility and teaching for the Workshop – Tropical Marine Ecology.

Online workshop for bachelor students in Biological, Environmental, Natural, and Geological Sciences (1 edition, 50 hours – 6 CFU).

A.Y. 2019/2020

Organiser, scientific responsibility and teaching for the Workshop – Tropical Marine Ecology.

Workshop at the Marine Research and High Education (MaRHE) Center, Università degli Studi di Milano-Bicocca, Maldives for bachelor students in Biological, Environmental, Natural, and Geological Sciences (2 editions, 90 hours – 6 CFU for each edition).

Organiser, scientific responsibility and teaching for the Workshop – Marine and Land Survey.

Workshop at the Marine Research and High Education (MaRHE) Center, Università degli Studi di Milano-Bicocca, Maldives for bachelor students in Marine Sciences, Environmental Management della Maldives National University, Maldives (1 edition, 90 hours – 6 CFU).

A.Y. 2018/2019

Organiser, scientific responsibility and teaching for the Workshop – Tropical Marine Ecology.

Workshop at the Marine Research and High Education (MaRHE) Center, Università degli Studi di Milano-Bicocca, Maldives for bachelor students in Biological, Environmental, Natural, and Geological Sciences (3 editions, 90 hours – 6 CFU for each edition).

Organiser, scientific responsibility and teaching for the Workshop – Marine and Land Survey.

Workshop at the Marine Research and High Education (MaRHE) Center, Università degli Studi di Milano-Bicocca, Maldives for bachelor students in Marine Sciences, Environmental Management della Maldives National University, Maldives (1 edition, 90 hours – 6 CFU).

A.Y. 2017/2018

Organiser, scientific responsibility and teaching for the Workshop – Tropical Marine Ecology.

Workshop at the Marine Research and High Education (MaRHE) Center, Università degli Studi di Milano-Bicocca, Maldives for bachelor students in Biological, Environmental, Natural, and Geological Sciences (3 editions, 90 hours – 6 CFU for each edition).

Assistance and teaching for the Workshop – – Coral Reef Geobiology.

Workshop at the Marine Research and High Education (MaRHE) Center, Università degli Studi di Milano-Bicocca, Maldives for master students in Geobiology and Paleobiology, Ludwig Maximilian University of Munich, Germany (1 edition, 90 hours – 6 CFU).

A.Y. 2016/2017

Organiser, scientific responsibility and teaching for the Workshop – Tropical Marine Ecology.

Workshop at the Marine Research and High Education (MaRHE) Center, Università degli Studi di Milano-Bicocca, Maldives for bachelor students in Biological, Environmental, Natural, and Geological Sciences (3 editions, 90 hours – 6 CFU for each edition).

Assistance and teaching for the Workshop – Coral Reef Geobiology.

Workshop at the Marine Research and High Education (MaRHE) Center, Università degli Studi di Milano-Bicocca, Maldives for master students in Geobiology and Paleobiology, Ludwig Maximilian University of Munich, Germany (1 edition, 90 hours – 6 CFU).

A.Y. 2015/2016

Organiser, scientific responsibility and teaching for the Workshop – Tropical Marine Ecology.

Workshop at the Marine Research and High Education (MaRHE) Center, Università degli Studi di Milano-Bicocca, Maldives for bachelor students in Biological, Environmental, Natural, and Geological Sciences (2 editions, 90 hours – 6 CFU for each edition).

Assistance and teaching for the Workshop – Magoodhoo: Places and Local Communities.

Workshop at the Marine Research and High Education (MaRHE) Center, Università degli Studi di Milano-Bicocca, Maldives for master students in Anthropology (1 edition, 90 hours – 6 CFU).

Assistance and teaching for the Workshop – Sustainable Tourism and Fragile Environment.

Workshop at the Marine Research and High Education (MaRHE) Center, Università degli Studi di Milano-Bicocca, Maldives for bachelor students in Tourism Sciences (1 edition, 90 hours – 6 CFU).

A.Y. 2014/2015

Organiser, scientific responsibility and teaching for the Workshop – Tropical Marine Ecology.

Workshop at the Marine Research and High Education (MaRHE) Center, Università degli Studi di Milano-Bicocca, Maldives for bachelor students in Biological, Environmental, Natural, and Geological Sciences (2 editions, 90 hours – 6 CFU for each edition).

Assistance and teaching for the Workshop – Tropical Marine Ecology.

Workshop at the Marine Research and High Education (MaRHE) Center, Università degli Studi di Milano-Bicocca, Maldives for bachelor and master students in Biology, Heriot-Watt University, Scotland and University of York, UK (2 editions, 90 hours – 6 CFU for each edition).

Assistance and teaching for the Workshop – Magoodhoo: Places and Local Communities.

Workshop at the Marine Research and High Education (MaRHE) Center, Università degli Studi di Milano-Bicocca, Maldives for master students in Anthropology (1 edition, 90 hours – 6 CFU).

Assistance and teaching for the Workshop – Sustainable Tourism and Fragile Environment.

Workshop at the Marine Research and High Education (MaRHE) Center, Università degli Studi di Milano-Bicocca, Maldives for bachelor students in Tourism Sciences (1 edition, 90 hours – 6 CFU).

A.Y. 2013/2014

Organiser, scientific responsibility and teaching for the Workshop – Tropical Marine Ecology.

Workshop at the Marine Research and High Education (MaRHE) Center, Università degli Studi di Milano-Bicocca, Maldives for bachelor students in Biological, Environmental, Natural, and Geological Sciences (1 edition, 90 hours – 6 CFU).

Organiser, scientific responsibility and teaching for the Workshop – Tropical Marine Ecology.

Workshop at the Open Ocean Science Center, Dahab, Egypt for bachelor students in Biological, Environmental, Natural, and Geological Sciences (2 editions, 90 hours – 6 CFU for each edition).

THESIS SUPERVISOR

2019 – In progress: Master theses.

Supervisor for eight theses for the master course in Marine Sciences, Università degli Studi di Milano-Bicocca, Italy.

2014 – In progress: Bachelor theses.

Supervisor for 32 theses for the bachelor courses in Biological Sciences and Environmental Sciences, Università degli Studi di Milano-Bicocca, Italy.

ACADEMIC APPOINTMENTS

Member of the Orientation and Tutoring commission for the master course in Marine Sciences, Università degli Studi di Milano-Bicocca, Italy. 2022 – in progress
(<https://elearning.unimib.it/course/view.php?id=17857#section-0>).

Member of the Practical Training commission for the master course in Marine Sciences, Università degli Studi di Milano-Bicocca, Italy. 2022 – in progress
(<https://elearning.unimib.it/course/view.php?id=17857#section-0>).

PhD students representative at the Dipartimento di Biotecnologie e Bioscienze. Università degli Studi di Milano-Bicocca, Italy. 2014 – 2018.

4. SCIENTIFIC RESEARCH

SCIENTIFIC PROFILE

My research activity is mainly focused on the following aspects of invertebrate zoology and ecology:

- (a) Diversity, integrated taxonomy, biogeography and phylogeny of marine, freshwater and terrestrial invertebrates.
- (b) Ecology, evolution and adaptations of marine invertebrates involved in symbiosis.
- (c) Ecology of coral reef organisms.
- (d) Traceability of seafood products through innovative methodologies.

Point (a) concerns a large part of my research activity, with particular attention to marine invertebrates. Although the oceans host a high global biodiversity, most marine invertebrate species are still unknown. These invertebrates often play important ecological roles and, due to the current decline of marine ecosystems, their disappearance can easily precede their discovery. The goal of my research is to broaden the knowledge regarding these organisms from a taxonomic, biogeographic and evolutionary point of view, in order to characterize the cryptic diversity of marine invertebrates and allow the transfer of this knowledge to other disciplines, such as conservation. Since 2013 I have been working on various animal groups, including cnidarians, bryozoans, molluscs, hemicordates, and arthropods, collaborating with numerous Italian and international researchers and participating in numerous sampling expeditions (e.g. various locations in the Mediterranean Sea, Maldives, Egypt, Saudi Arabia, Singapore, Andaman, United Arab Emirates). Recently, I have broadened my interest to the study of freshwater and terrestrial invertebrates of conservation interest, such as odonates. Using an integrative approach, I described one family, three genera and seven species of hydrozoans and participated in the description of one species of hemichordate and two genera and eight species of hydrozoans. Overall, the results obtained showed a high cryptic diversity of the investigated organisms and highlighted the importance of geographic isolation and host specificity (in the case of symbiotic species) in speciation processes. I am currently working on the analysis of genetic datasets (Sanger sequencing and RAD Sequencing) of some hydrozoan groups, such as the Zancleida and the fire corals (*Millepora* genus), in order to characterize their diversity, evolution and phylogeography at the global scale. Furthermore, analyses on the phylogeography and evolutionary history of terrestrial arthropods, including arachnids and odonates, are ongoing.

Point (b) concerns the characterisation of the ecology and evolution of marine invertebrate species involved in symbiosis with other organisms. In particular, I have conducted or collaborated in studies concerning cnidarians, bryozoans, porifera, arthropods, molluscs and symbiotic vertebrates, through the use of ecological, taxonomic, genetic, histological and microscopy methodologies. In addition to the description of previously unknown new symbioses, host specificity, adaptations to symbiotic life and possible ecological implications of symbioses have been investigated for different organisms, underlining the great diversity and importance of some of these associations in highly stressed ecosystems. such as coral reefs.

Concomitantly, with regard to point (c), I have collaborated in numerous works concerning the study of the ecology and diversity of tropical coral diseases; the molecular mechanisms that corals use to cope with various stresses, including disease and heat stress, and the development of biological markers of stress in these organisms; the ecology of corallivorous organisms. Overall, the results obtained so far have made it possible to clarify numerous ecological and molecular aspects of the stresses affecting coral reefs and this knowledge has already been integrated into protocols for the census, restoration and conservation of environments in this endangered habitat.

Finally, starting from 2020, I have been working on the issue of food traceability, with a focus on food products of marine origin (point d). In addition to having carried out censuses on the quantity and type of products subjected to food fraud on the Italian market, I have collaborated in the development of innovative methods for the identification of species of commercial interest through the integration of genetic techniques and nanotechnology. Furthermore, at the moment, I am working on the development of tools for geographical traceability through the genomic characterization and associated microbiome of species of high commercial interest (e.g. the red shrimp *Aristaemomorpha foliacea*).

COORDINATION OR RESPONSIBILITY IN RESEARCH PROJECTS

2022. **Scientific co-responsibility** of the project '*Aristaeomorpha foliacea* diet analysis using high-throughput DNA sequencing (HTS) techniques: food traceability and trophic ecology' (conceptualization, sampling, molecular analyses, bioinformatic analyses) in collaboration with Dr. Antonella Bruno, funded by the University of Palermo

2020 – 2022. **Scientific co-responsibility** of the project 'SEATRACEOMICS: Revolutionizing SEAfood TRACEability using a multi-OMICS approach' (conceptualization, sampling, molecular analyses, bioinformatic analyses) in collaboration with Dr. Antonella Bruno, funded by the University of Milano-Bicocca (Bicocca Starting Grants 2020).

2017 – 2020. **Scientific responsibility** of the project 'Hydronesia: Hydrozoans of North Sulawesi, Republic of Indonesia' (conceptualization, sampling, molecular analyses, bioinformatic analyses) funded by the PADI Foundation (grant number 28634).

2016. **Collaboration** in the project 'Ecological study on the *Acanthaster planci* in the Republic of Maldives' (sampling and logistics), funded by the University of Milano-Bicocca.

2014. **Collaboration** in the project 'Estimating illicit drug use in Maldives by wastewater analysis, a novel approach to measure drug consumption in a whole community' (sampling and logistics) in collaboration with the Mario Negri Institute, funded by the University of Milano-Bicocca.

ORGANISATION, MANAGEMENT, COORDINATION OR PARTICIPATION IN NATIONAL AND INTERNATIONAL RESEARCH GROUPS

2017 – **In progress. Scientific responsibility, coordinator** of an international research group on the topic 'Global diversity and phylogeography of fire corals', in collaboration with King Abdullah University of Science and Technology, Saudi Arabia, Tel-Aviv University, Israel, Western Australian Museum, Australia, Universiti Malaysia Sabah, Malaysia, James Cook University, Australia, University of the Ryukyus, Japan, Institut de Recherche pour le Développement, New Caledonia, Naturalis Biodiversity Center, The Netherlands, Stazione Zoologica Anton Dohrn, Italy.

2014 – **In progress. Scientific responsibility, coordinator** of an international research group on the topic 'Diversity and evolution of tropical Hydrozoa', in collaboration with King Abdullah University of Science and Technology, Saudi Arabia, University of the Ryukyus, Japan, Universidad Nacional de Mar del Plata, Argentina, Naturalis Biodiversity Center, The Netherlands, National University of Singapore, Singapore, National Taiwan University, Taiwan, Saint Petersburg State University, Russia, Ludwig-Maximilians Universität München, Germany, Muséum d'Histoire Naturelle de Genève, Switzerland, University of Helsinki, Finland, Hydrozoan Research Laboratory, France, Stazione Zoologica Anton Dohrn, Italy, Università Politecnica delle Marche, Italy.

2019 – **In progress. Participation** in a national research group on the topic 'Pollinator insects of tropical insular systems' (responsible for sampling and logistics), Coordinator: Prof. Andrea Galimberti.

2019 – **In progress. Participation** in a national research group on the topic 'DNA barcoding and eDNA-based biomonitoring of Italian Odonata' (responsible for bioinformatic analyses and species delimitation), Coordinator: Prof. Andrea Galimberti.

2016 – **In progress. Participation** in an international research group on the topic 'Cellular biomarkers to evaluate the health of scleractinian corals' (sampling, logistics, responsible for the integrative taxonomy of analyzed organisms), Coordinator: Dr. Davide Seveso, in collaboration with King Abdullah University of Science and Technology, Saudi Arabia, University of Mauritius, Mauritius, National University of Singapore, Singapore.

2015 – In progress. Participation in an international research group on the topic ‘Ecology of tropical symbiotic Hydrozoa’ (sampling, logistics, responsible for the integrative taxonomy of analyzed organisms), Coordinator: Dr. Simone Montano, in collaboration with King Abdullah University of Science and Technology, Saudi Arabia, University of Perpignan, France, Università degli Studi dell’Aquila, Italy, Università Politecnica delle Marche, Italy, Joint Research Center, Italy.

2015 – In progress. Participation in an international research group on the topic ‘Ecological characterisation of coral diseases and other stressors in the Republic of Maldives’ (sampling, logistics, responsible for the integrative taxonomy of analyzed organisms), Coordinator: Dr. Simone Montano, in collaboration with King Abdullah University of Science and Technology, Saudi Arabia, Naturalis Biodiversity Center, The Netherlands, Joint Research Center, Italy.

28 August – 6 October 2021. Visiting researcher at the King Abdullah University of Science and Technology, Saudi Arabia, in the laboratory ‘Habitat and Benthic Biodiversity Lab’ headed by Prof. Francesca Benzoni on the topic ‘Ecology, diversity, and biogeography of coral reef invertebrates of the Saudi Arabian Red Sea’ (sampling, morphological, and phylogenomic analyses).

2019 – 2021. Participation in an international research group on the topic ‘Phylogeography of blue corals’ (sampling), Coordinator: Prof. Nina Yasuda, in collaboration with University of Miyazaki, Japan, National University of Singapore, Singapore, Western Australian Museum, Australia, National Taiwan University, Taiwan, University of Guam, USA.

2018 – 2021. Participation in a national research group on the topic ‘Barcoding and nanoparticle-based colorimetric testing to detect seafood frauds’ (sampling, responsible for the integrative taxonomy of analyzed organisms), Coordinators: Prof. Andrea Galimberti, Dr. Pier Paolo Pompa, in collaboration with Istituto Italiano di Tecnologia, Italy.

2017 – 2018. Participation in an international research group on the topic ‘Diversity and distribution of Mediterranean *Rhabdopleura*’ (responsible for bioinformatic analyses), Coordinator: Prof. Stefano Piraino, in collaboration with Università degli studi del Salento, Italy, University College London, UK, Université de Montréal, Canada.

27 November – 8 December 2017. Visiting researcher at the National University Singapore, Singapore, in the laboratory ‘Reef Ecology Lab’ headed by Prof. Danwei Huang on the topic ‘Ecology, diversity, evolution, and biogeography of symbiotic hydrozoans’ (sampling and morphological analyses).

24 April – 23 May 2017. Visiting researcher at the King Abdullah University of Science and Technology, Saudi Arabia, in the laboratory ‘Reef Ecology Lab’ headed by Prof. Michael Berumen on the topic ‘Ecology, diversity, and biogeography of coral reef hydrozoans of the central Red Sea’, (sampling, morphological and phylogenetic analyses).

9 – 18 December 2015. Visiting researcher at the King Abdullah University of Science and Technology, Saudi Arabia, in the laboratory ‘Reef Ecology Lab’ headed by Prof. Michael Berumen sul tema ‘Ecology, diversity, and biogeography of coral reef hydrozoans of the central Red Sea’ (sampling and morphological analyses).

PUBLICATIONS IN INDEXED JOURNALS

(*corresponding author)

1. **Maggioni D***, Furfaro G, Solca M, Seveso D, Galli P, Montano S. (2023). Being Safe, but Not Too Safe: A Nudibranch Feeding on a Bryozoan-Associated Hydrozoan. **Diversity** 15:484. DOI:10.3390/d15040484

2. Galea HR, **Maggioni D**, Galli P. (2023). Erratum: Galea HR, Maggioni D, Galli P. (2022). On some species of *Zygophylax* Quelch, 1885 (Cnidaria: Hydrozoa: Zygophylacidae) from off New Caledonia. *Zootaxa*, 5214, 1-46. **Zootaxa** 5256:595-596. DOI:10.11646/zootaxa.5256.6.7.
3. Montalbetti E, Isa V, Vencato S, Montano S, Lavorano S, **Maggioni D**, Galli P, Seveso D. (2022). Short-term exposure to microplastics triggers oxidative damage and cellular stress in *Coelogorgia palmosa* (Octocorallia: Alcyonacea). *Marine Biology Research* 18: 495-508. DOI:10.1080/17451000.2022.2137199.
4. Galea HR, **Maggioni D**, Galli P. (2022). On some species of *Zygophylax* Quelch, 1885 (Cnidaria: Hydrozoa: Zygophylacidae) from off New Caledonia. *Zootaxa* 5214:1-46. DOI:10.11646/zootaxa.5214.1.1
5. Brambilla V, Barbosa M, Dehnert I, Madin J, **Maggioni D**, Peddie C, Dornelas M. (2022). Shaping coral traits: plasticity more than filtering. *Marine Ecology Progress Series* 692:53-65. DOI:10.3354/meps14080.
6. Tommasi N, Biella P, **Maggioni D**, Fallati L, Agostinetto G, Labra M, Galli P, Galimberti A. (2022). DNA metabarcoding unveils the effects of habitat fragmentation on pollinator diversity, plant-pollinator interactions, and pollination efficiency in Maldivian islands. *Molecular Ecology* 1-11. DOI:10.1111/mec.16537.
7. Maggioni G, Huang D, **Maggioni D**, Jain S, Quek, RZB, Poquita-Du RC, Montano S, Montalbetti E, Seveso D. (2022). The association of *Waminoa* with reef corals in Singapore and its impact on putative immune and stress response genes. *Diversity* 14:300. DOI:10.3390/d14040300.
8. **Maggioni D***, Terraneo TI, Chimienti G, Marchese F, Pica D, Cairns SD, Eweida AA, Rodrigue M, Purkis SJ, Benzoni F. (2022). The first deep-sea stylasterid (Hydrozoa, Stylasteridae) of the Red Sea. *Diversity* 14:241. DOI:10.3390/d14040241.
9. Montano S, Dehnert I, Seveso D, **Maggioni D**, Montalbetti E, Strona G, Siena F, Amir H, Antoine A, Marino-Ramirez C, Saponari L, Shah NJ, Azcarte Molina R, Ortega AA, Galli P, Montoya-Maya PH. (2022). Effects of the COVID-19 lockdowns on the management of coral restoration projects. *Restoration Ecology* 30:1-12. DOI:10.1111/rec.13646.
10. Montalbetti E, Fallati L, Casartelli M, **Maggioni D**, Montano S, Galli P, Seveso D. (2022). Reef complexity influences distribution and habitat choice of the corallivorous seastar *Culcita schmideliana* in the Maldives. *Coral Reefs* 41:253-264. DOI:10.1007/s00338-022-02230-1.
11. Cerri F, Saliu F, **Maggioni D**, Montano S, Seveso D, Lavorano S, Zoia L, Gosetti P, Lasagni M, Orlandi M, Tagliatela-Scafati O, Galli P. (2022). Cytotoxic Compounds from Alcyoniidae. An Overview of the Last 30 Years. *Marine Drugs* 20:134. DOI:10.3390/md20020134.
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24. Galea HR, **Maggioni D**, Di Camillo CG. (2020). On the hydroid genus *Sibogella* Billard, 1911 (Cnidaria: Hydrozoa: Plumulariidae), with descriptions of two new species. *Zootaxa* 4860:521-540. DOI:10.11646/zootaxa.4860.4.3.
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60. Montano S, Galli P, **Maggioni D**, Seveso D, Puce S. (2014). First record of coral-associated *Zanclaea* (Hydrozoa, Zanclaeidae) from the Red Sea. **Marine Biodiversity** 44:581-584. DOI: 10.1007/s12526-014-0207-6.
61. Montano S, **Maggioni D**, Galli P, Seveso D, Puce S. (2013). *Zanclaea*-coral association: new records from Maldives. **Coral Reefs** 32:701. DOI: 10.1007/s00338-013-1023-3.

PHD THESIS

Maggioni D. (2018). New insights into the diversity, ecology, and evolution of the Zanclaeida (Hydrozoa, Cnidaria).

PhD in Biology and Biotechnology, curriculum Morpho-functional Biology, Dipartimento di Biotecnologie e Bioscienze, Università degli Studi di Milano-Bicocca, Italy. XXX cycle, Defended: 1 March 2018.

PUBLICATIONS IN NON-INDEXED JOURNALS AND BOOK CHAPTERS

1. Fallati L, **Maggioni D**, Montalbetti E, Neri E, Galli P. (2023). Il MarHE Center, una finestra sull'Oceano Indiano. In: **Educare al mare. Riflessioni, esperienze e progetti per un'appropriazione cognitiva, affettiva e critica degli spazi oceanici.**

2. Ubaldi P, Galli P, Belingheri M, **Maggioni D**, Montalbetti E, Saliu F. (2021). Overview of the state of the art of ciguatera fish poisoning. *Acta Scientific Veterinary Science* Special Issue 1:20-26.
3. Galli P, Montano S, Seveso D, **Maggioni D**. (2021). Coral Reef Biodiversity of the Maldives. In: *Atolls of the Maldives: Nissology and Geography*, pp. 196-211.
4. **Maggioni D**, Montano S, Voigt O, Seveso D, Galli P. (2020). A mesophotic hotel: the octocoral *Bebryce cf grandicalyx* as a host. *Bulletin of the Ecological Society of America* 101:e01667. DOI:10.1002/bes2.1667.

SCIENTIFIC COMMITTEE AND ORGANIZATION OF CONFERENCES, WORKSHOPS, SUMMER SCHOOLS

Chairman: 5th Asia Pacific Coral Reef Symposium (APCRS 2023)

Chairman for the session ‘Diversity, Ecology and Evolution of Coral Reef Associations in the Indo-Pacific’. National University Singapore, Singapore. 19 – 23 June 2023.
website: <https://www.apcrs2023.org/>

Organizing committee: GSS – Grant Starter School.

Università degli Studi di Milano-Bicocca, Italia, funded by IBRO (International Brain Research Organization). 30 November – 03 December 2021.
website: <https://summerschoolbicocca.com/21-starting-a-grant-proposal.php>

Organizing committee: GPIP – Starting a Grant Proposal: From Idea to Practice

Lake Como School of Advanced Studies, Italy, funded by Fondazione Alessandro Volta and Università degli Studi di Milano-Bicocca, Italy. 18 – 22 July 2022.
website: <https://gpip.lakecomoschool.org/>

PARTICIPATION IN SCIENTIFIC CONFERENCES AS SPEAKER

International conferences

Maggioni D, Seveso D, Montalbetti E, Gobbato J, Louis YD, Siena FM, Galli P, Montano S. Diversity and Evolution of Symbiotic Hydrozoans (Hydrozoa, Capitata). *5th Asia-Pacific Coral Reef Symposium*, 19 – 24 June 2023, Singapore, Singapore.

Maggioni D, Seveso D, Montalbetti E, Fallati L, Gobbato J, Dehnert I, Siena FM, Louis YD, Galli P, Montano S. Hydrozoan research at the MaRHE Center, F. Magoodhoo: an overview. *4th Maldivian Marine Science Symposium*, 13 – 14 August 2022, Male, Maldives.

Maggioni D, Montano S, Seveso D, Montalbetti E, Galli P. Maldivian Symbiotic Hydrozoans: Diversity, Ecology and Evolution. *3rd Maldivian Marine Science Symposium*, 12 – 13 December 2020, Male, Maldives

Maggioni D, Seveso D, Galli P, Montano S. Integrative taxonomy, evolution, and ecology of reef-associated symbiotic hydrozoans. *5th Young Reef Scientists Meeting*, 5 – 7 September 2018, Munich, Germany.

Maggioni D, Galli P, Seveso D, Berumen ML, Arrigoni R, Montalbetti E, Saponari L, Montano S. Exploring the diversity of tropical symbiotic hydrozoans. *European Coral Reef Symposium*, 13 – 15 December 2017, Oxford, UK.

Maggioni D, Montano S, Seveso D, Galli P. Coral-associated hydrozoans from the Maldives. *1st Maldivian Marine Science Symposium*, 27 October 2016, Male, Maldives.

Maggioni D, Montano S, Seveso D, Galli P. The enigmatic diversity of scleractinian-associated hydrozoans. *13th International Coral Reef Symposium*, 19 – 24 June 2016, Honolulu, Hawai’i, USA.

National conferences (Italy)

Maggioni D, Seveso D, Montalbetti E, Gobbato J, Louis YD, Siena F, Dehnert I, Galli P, Montano S. Integration of molecular and morphological data to study symbiotic hydrozoans. **31° Congresso della Società Italiana di Ecologia (SITE)**, 13 – 15 September 2022, Siena, Italy.

Maggioni D, Arrigoni R, Seveso D, Galli P, Berumen ML, Denis V, Hoeksema BW, Huang D, Manca F, Pica D, Puce S, Reimer JD, Montano S. Evolution and biogeography of the Hydrozoa-Scleractinia symbiosis. **Marine Evolution, 1st Italian Congress Online**, 23 – 25 November 2020.

Maggioni D, Liguori G, Seveso D, Galli P, Montano S. One pathogen one disease: shedding light on the Skeleton Eroding Band coral disease. **80° Congresso Nazionale Unione Zoologica Italiana (UZI)**, 23 – 26 September 2019, Roma, Italy.

Maggioni D, Montano S, Voigt O, Seveso D, Saponari L, Montalbetti E, Dehnert I, Galli P. A mesophotic hotel: the octocoral *Bebryce grandicalyx* as a host. **29° Congresso della Società Italiana di Ecologia (SITE)**, 10 – 12 September 2019, Ferrara, Italy (poster + short talk).

Maggioni D, Seveso D, Galli P, Montano S. Integrative taxonomy, evolution, and ecology of symbiotic Zancleida (Hydrozoa, Capitata). **79° Congresso Nazionale Unione Zoologica Italiana (UZI)**, 25 – 28 September 2018, Lecce, Italy.

Maggioni D, Seveso D, Galli P, Montano S. Integrative taxonomy, evolution, and ecology of symbiotic Zancleida (Hydrozoa, Capitata). **28° Congresso della Società Italiana di Ecologia (SITE)**, 12 – 14 September 2018, Cagliari, Italy.

Galli P, Labra M, Casiraghi M, Montano S, Seveso D, **Maggioni D**, Malatesta S, Schmidt M, dell'Agnese E, Savini A, Strepparava MG. bARKoding: bioinformatics data to improve environmental quality and human health of an endangered insular system: the case of Magoodhoo Island - Maldives. **Conferenza Annuale LifeWatch Italia**, 25 – 27 June 2018, Roma, Italy.

Maggioni D, Seveso D, Montalbetti E, Saponari L, Galli P, Montano S. Phylogeny and morpho-molecular diversity of the families Sphaerocorynidae and Cladocorynidae (Hydrozoa, Capitata). **27° Congresso della Società Italiana di Ecologia (SITE)**, 12 – 15 September 2017, Napoli, Italy.

Maggioni D, Seveso D, Galli P, Montano S. Exploring the diversity of coral-associated hydrozoans. **1° Congresso congiunto SITE-UZI-SIB**, 30 August – 02 September 2016, Milano, Italy.

EDITORIAL BOARD AND REFEREE ACTIVITY

Editorial Board: Marine Biodiversity. ISSN: 1867-1624.

Topical Advisory Panel Member: Diversity. ISSN: 1424-2818.

Guest Editor: Diversity. Diversity, Ecology, and Evolution of Hydrozoans Special Issue. ISSN: 1424-2818.

Guest Editor: Life. Life Below the Surface: Biodiversity, Conservation and Adaptations to Environmental Disturbances Special Issue (co-edited with Dr. Yohan D. Louis. ISSN: 2075-1729.

Referee (journal): Annals of the Brazilian Academy of Sciences; Deep Sea Research Part II: Topical Studies in Oceanography; Diversity; Hydrobiologia; Journal of the Marine Biological Association of the UK; Marine Biodiversity; Mitochondrial DNA Part B: Resources; Molecular Ecology Resources; PeerJ; Proceedings of the Royal Society B: Biological Sciences; Revue Suisse de Zoologie; Systematics and Biodiversity; Zootaxa. (<https://www.webofscience.com/wos/author/record/705078>).

Referee (projects): Rolex Awards.

NATIONAL 'ABILITAZIONE SCIENTIFICA'

Zoology and Anthropology (05/B1). Professore di II fascia, 11/06/2021 – 11/06/2030.

Ecology (05/C1). Professore di II fascia, 10/06/2021 – 10/06/2030.

5. AWARDS

International award 'Mario Benazzi e Giuseppina Benazzi Lentati 2020 per uno studioso di zoologia ad indirizzo organismico evoluzionistico', Accademia dei Lincei.

6. SKILLS AND COMPETENCES

The experiences carried out to date in the academic and personal fields have allowed the acquisition of diversified skills in the fields of zoology, ecology and evolutionary biology.

Underwater sampling methodologies: destructive (collection of invertebrates, vertebrates and environmental matrices) and non-destructive (collection of ecological and behavioral data through visual census).

Cultivation of marine invertebrates in the laboratory for the reconstruction of life cycles.

Morphological and taxonomic analyzes on marine invertebrates by optical microscopy, fluorescence microscopy and scanning electron microscopy.

Genetic analyzes for the study of integrated taxonomy, evolution and population genetics of invertebrates: extraction and purification of nucleic acids; amplification and Sanger sequencing of DNA fragments; preparation of genetic libraries for Illumina sequencing (RAD Sequencing); Sanger and HTS molecular data analysis.

Use of software for the reconstruction of phylogenetic relationships, comparative phylogenetic methods, population genetics, phylogeography, statistical analysis (SPSS and R), image and video processing.

Diving skills: Advanced European Scientific Diver, PADI Rescue Diver, Deep Diver, Enriched Air Diver, Dry Suit Diver, with about 400 scientific dives.

Languages: Italiano (mother tongue); Inglese (C1); Francese (C1).

7. AFFILIATION TO SCIENTIFIC SOCIETIES

From 2016 affiliate to Società Italiana di Ecologia (SItE)

From 2016 affiliate to Unione Zoologica Italiana (UZI)

From 2016 affiliate to Society of Systematic Biologists (SSB)

From 2016 affiliate to International Society for Reef Studies (ISRS)

8. SCIENTIFIC DISSEMINATION

Scientific committee for the exhibition 'IllusiOcean'. Università degli Studi di Milano-Bicocca, Italy. 01 October 2021 – 31 January 2022.

Scientific dissemination about cnidarians at the exhibition 'Meduse, universo trasparente'. Università degli Studi di Milano-Bicocca, Italy. 19 October – 15 December 2018.

Scientific dissemination about cnidarians at the event 'MEETmeTONIGHT – Faccia a Faccia con la Ricerca 2018'. Giardini Indro Montanelli, Milano, Italy. 28 – 29 September 2018.

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Milano, 15 June 2023