

Ulisse Cardini, Ph.D.

Research scientist, Head of the Marine Symbiomes Research Group
Integrative Marine Ecology Department, Genoa Marine Centre (GMC)
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<https://www.szn.it/index.php/en/staff/list-of-personnel/558-cardini-ulisse/1234-cardini-ulisse>

PERSONAL INFORMATION

Web: www.marinesymbiomes.eu Birth date: 22/08/1985
Email: ulisse.cardini@szn.it Languages: Italian, English (Professional Level)

EDUCATION

National Scientific Qualification as Associate Professor Jun 2021
Call D.D. 2175/2018; Sector 05/C1 ECOLOGY

PhD in Natural Sciences (Summa cum Laude) – University of Bremen (UniBremen, DE) Feb 2015
Advisor: Prof. Christian Wild

MSc in Marine Biology (110/110) – Polytechnic University of Marche (UNIVPM, IT) Jul 2011
Advisor: Prof. Roberto Danovaro

BSc in Environmental Sciences (105/110) – University of Genova (UNIGE, IT) Jul 2008
Advisor: Prof. Carlo Nike Bianchi

PROFESSIONAL APPOINTMENTS

Tenured Research scientist Apr 2017 – present
Integrative Marine Ecology Department, Stazione Zoologica Anton Dohrn (SZN, IT)

Adjunct Professor 2020 – present
MSc Course in “Biology and Ecology of the Marine Environment and Sustainable Use of Marine Resources” -
Università degli Studi di Napoli Federico II (UniNA, IT)

Postdoctoral Researcher Oct 2015 – Mar 2017
Dept. of Microbiology and Ecosystem Science, University of Vienna (UniWien, AT)

Postdoctoral Researcher Apr 2015 – Jul 2015
Leibniz Center for Tropical Marine Ecology (ZMT, DE)

Graduate Research Assistant Apr 2012 – Mar 2015
Leibniz Center for Tropical Marine Ecology (ZMT, DE)

Research Intern Feb 2012 – Mar 2012
Department of Life and Environmental Sciences (DISVA, UNIVPM, IT)

Research Intern Jan 2011 – Dec 2011
National Inter-University Consortium for Marine Sciences (CoNISMA, IT)

HONORS & AWARDS

National Scientific Qualification as Associate Professor (II level) D.D. 2175/2018; Sector 05/C1 Ecology 2021

Giuseppe Morabito Award (best publication, Italian Association of Oceanography and Limnology - AIOL) 2017

BMC Ecology Image Award (selected among the ‘highly commended’ out of >140) 2016

Best scientific photo (GLOMAR-MARUM, Bremen, DE) 2014

PUBLICATIONS (ORCID: 0000-0002-0816-6158, RESEARCHERID: I-3735-2013)

I am author of 38 peer-reviewed ISI publications published in journals such as Nature Microbiology, Global Change Biology, The ISME Journal, Communications Biology, New Phytologist, among others. I have authored two Springer book chapters. For a complete list of my publications and contributions from my group members visit: www.marinesymbiomes.eu/publications

PROFESSIONAL SERVICES

Editorial roles: Associate Faculty Member (Invited Position) for Faculty Opinions; Recommender for PCI Ecology and PCI Microbiology; Associate Editor for Frontiers in Ecology and Evolution (Coevolution); Review Editor for Frontiers in Microbiology (Aquatic Microbiology) 2016 – present

<u>Reviewer</u> : Nature Communication, Communications Earth & Environment, Global Change Biology, Water Research, New Phytologist, Frontiers in Marine Science, Frontiers in Microbiology, Environmental Microbiology, Scientific Reports, PLoS One, Coral Reefs, Journal of Experimental Biology, Estuarine Coastal and Shelf Science, Marine Ecology Progress Series, Estuaries and Coasts, Marine Ecology, Chemistry and Ecology, Marine Biodiversity Reports	2013 – present
<u>Grant Reviewer</u> : MUR (Ministry of University and Research, IT); ANR (National Research Agency, FR); NERC (Natural Environ. Research Council, UK)	2017 – present
<u>Organizing committee member</u> : Satellite meeting “Marine Nitrogen-fixing Symbioses” for the 14th European Nitrogen Fixation Conference, Napoli, IT (2021); 5th Early Career Scientists Conference for Marine and Climate Research, MARUM and UniBremen, Bremen, DE (2014)	2014 – present
<u>Session organizer and chair</u> : “Macro-micro interactions in seagrass ecosystems”, World Seagrass Conference, Napoli, IT (2024); “Global Climate Change and Environmental Stressors”, European Coral Reef Symposium, Napoli, IT (2024); “The tropicalization of marine ecosystems, and do microbes play a role in mediating species redistributions?”, International Coral Reef Symposium, Bremen, DE (2022); “Invertebrate-microbes associations and their relevance in biogeochemical processes: from loose relationships to intimate symbioses”, ASLO 2021 Virtual Meeting (2021); “Relevance of host-microbe interactions in aquatic ecosystem functioning”, ASLO Summer Meeting, Victoria, CA (2018); “Microbial Ecology”, 5th CORE Symposium, Bremen, DE (2015); “Coral Reef Resilience and Management”, Annual Conference of the Society for Tropical Ecology, ETH Zurich, CH (2015); “Coral Reef ecology, management and conservation in a rapidly changing ocean environment”, YOUMARES 5, Stralsund, DE (2014); Afternoon session, 4th CORE Symposium, Bremen, DE (2014)	2014 – present
<u>Memberships</u> : American Geophysical Union (AGU); Association for the Sciences of Limnology and Oceanography (ASLO); Italian Association of Oceanography and Limnology (AIOL); Italian Society of Ecology (SITE); International Society for Reef Studies (ISRS); Bremen International Graduate School for Marine Sciences (GLOMAR-MARUM)	2012 – present

TALKS & CONFERENCE PRESENTATIONS

<u>Invited talks</u> : Gordon Research Conference - Animal Microbe Symbioses, Lucca, IT (2023); Royal Society Theo Murphy meeting, Reading, UK (2023); CRIOBE, Centre for Island Research and Environmental Observatory, Moorea, PF (2018); ASLO Summer Meeting, Victoria, CA (2018); GRC - Applied and Environmental Microbiology, Mount Holyoke, MA, USA (2017); G7 Action 1 Workshop - G7 Italian Presidency satellite event, Napoli, IT (2017); Elba Workshop, Hydra Institute, Elba, IT (2017); Max Planck Institute for Marine Microbiology (MPIMM), Bremen, DE (2015)	2015 – present
<u>Conference presentations (first author contributions only)</u> : GRC - Animal-Microbe Symbioses, Mount Snow, VT, USA (2019); XXVII SITE Congress, Napoli, IT (2017); XXIII AIOL Congress, Cagliari, IT (2017); 1st SITE-UZI-SIB Conjoint Congress, Milan, IT (2016); Let’s talk about symbiosis, Vienna, AT (2015); AutReef: A workshop on reef research made in Austria, Vienna, AT (2015); 5th CORE Symposium, Bremen, DE (2015); Annual Meeting of the Society for Tropical Ecology, ETH Zurich, CH (2015); 4th CORE Symposium, Bremen, DE (2014); GLOMAR PhD Days, Achim, DE (2014); 1st TraitCore Symposium, Bremen, DE (2013); 8th International Conference on Coelenterate Biology, Eilat, IL (2013); 3° Workshop CEMT - Tropical Marine Ecology Centre CoNISMa, Genova, IT (2008)	2008 – present

RESEARCH GRANTS

Italian Ministry of University and Research (MUR), PRIN PNRR: <i>BeLOw-ground pROcesses In Seagrass meadows: responses and adaptation to climate change</i> (BORIS, ca. 250 k€) Role: Partner	2023
Italian Ministry of University and Research (MUR), PRIN 2022: <i>NaturE-based solutioNs using positive species interactions in seaGrasses to reduce locAl stressors and nourish ecosystem resistance to climate chanGE</i> (ENGAGE, ca. 242 k€) Role: Coordinator	2023
PON CRIMAC: Centro ricerche ed infrastrutture marine avanzate in Calabria: “DivErsity and DistribUtion of ChEmosymbiotic metazoans along the Calabria coast” (DEDUCE, 45 k€) – Role: PI	2021
SZN, PhD student position funding: “Testing an Invertebrate-Microbe-Plant association as nature-based solUtion to facilitate Posidonia oceanica resistance to Local and global StrEssors” (IMPULSE, 65 k€) – Role: PI	2021
SZN, PhD student position funding: “Invertebrate-bacterial associations as catalysts of nitrogen cycling and seagrass ecosystems health” (INBREATH, 65 k€) – Role: PI	2019
SZN, PhD student position funding: “Sponges as Fertilizing agents in Ocean Acidified Systems : who is in the loop?” (SFerOASys, 65 k€) – Role: Co-PI	2019
SZN, PhD student position funding: “Microbe-host associations as drivers of Benthic C and N Cycling in a changing MEditerranean Sea” (eMBraCE, 65 k€) – Role: PI	2019
Research Council of Lithuania (LMT) / European Social Fund (ESF): “INvertebrate-BActerial Associations as a hot spot of benthic Nitrogen Cycling in estuarine Ecosystems” (INBALANCE, total budget: 600 k€) – Role: Co-PI	2018
SZN, Medium instrumentation grant: Acquisition of a TOC Analyzer with TN Unit and Autosampler (ca. 35 k€)	2018
SZN, Medium instrumentation grant: Acquisition of a microbalance (ca. 28 k€)	2018

SMALL GRANTS & FELLOWSHIPS

SZN, Small grant within the ABaCo project (MIUR-CIPE): “Exploring unconventional restoration strategies exploiting chemosynthetic symbioses in Bagnoli”, Napoli, IT (ca. 5 k€) – Role: PI	2018
AIOL, IT, Best publication award: https://doi.org/10.1111/1462-2920.13385 (ca. 1 k€)	2017
GLOMAR-MARUM, DE, Travel and participation grant: 5th International Course “Deciphering microbial diversity and function in the environment through Next Generation Sequencing”, Venice, IT (ca. 2 k€)	2014
GLOMAR-MARUM, DE, Travel and participation grant: 8th International Conference on Coelenterate Biology, Eilat, IL (ca. 1 k€)	2013
Institute of Marine Research (IMR), Tromsø, NO, Travel grant: Workshop on acidification in aquatic environments (ca. 2 k€)	2011
Bermuda Institute of Ocean Sciences (BIOS), BM, Scholarship: BIOS summer school in Coral Reef Ecology (ca. 4 k€)	2009

FIELD EXPERIENCE

Extensive field work experience with numerous campaigns (weeks to several months in duration) with sea operations and scientific scuba diving (ca. 300 logged dives) from research vessels and from land, in locations ranging from the Mediterranean to the Red Sea, Atlantic, Pacific and Indian Ocean	2006 – present
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TEACHING

Guest lecturer (Topic: Marine microbial symbioses) in the module “Marine Microbiology” of the MSc Course in “Biology and Ecology of the Marine Environment and Sustainable Use of its Resources” (UniNA, IT)	2020 – present
Faculty member and Lecturer in charge of the module “Marine Biogeochemical Cycles” (1 semester) of the MSc Course in “Biology and Ecology of the Marine Environment and Sustainable Use of its Resources” (UniNA, IT)	2020 – 2021
Teaching in seminars, lectures and practical courses at the MSc and PhD level (SZN, IT)	2017 – present
Teaching in seminars at the MSc and PhD level (Division of Microbial Ecology, UniWien, AT)	2015 – 2016
Teaching in seminars at the MSc level (Marine Science Station, Aqaba, JO)	2013
Teaching in seminars at the MSc level (UnivPM, Summer school at Coral Eye, North Sulawesi, ID)	2011

ADVISING & MENTORING

I am leading the Marine Symbiomes Research Group at the SZN, with currently 1 PhD student (J. Berlinghof) and 3 Postdocs (M. Maselli, A. Blanckaert, G. Zapata) supervised by myself.

<u>Postdocs</u> : Maira Maselli, Alice Blanckaert, German Zapata, Ugo Marzocchi (SZN)	2019 – present
<u>PhD Students</u> : Luis Montilla (Open University & SZN), Johanna Berlinghof (UniBremen & SZN), Friederike Peiffer (UniBremen & SZN), Gabriella Paredes (UniWien, supervised by S. Bulgheresi)	2016 – present
<u>MSc Students</u> : Luigi Gallucci (UniNA), Nils Rådecker (UniBremen, supervised by C. Wild)	2013 – present
<u>BSc Students</u> : Elisa Guarcini (UniNA), Alessandra Belitz (UniWien), Antonia Il'ková (UniWien), Nils Rådecker (UniBremen), Alexandra Gerlach (UniBremen), Stefania Milano (UNIVPM), Martina Romagnoli (UNIVPM)	2011 – present
<u>Member of PhD committees</u> : Susana Simancas (UniBremen), Alice Blanckaert (Sorbonne University)	2020 – present

PRESS & OUTREACH (ONLY MOST RECENT)

Research group website (www.marinesymbiomes.eu)	
Press release – SZN, IT (Berlinghof et al. 2024, Comms. Bio.) reposted by several forums	2024
Science seminars to high school students of the Calabria region - Lab Days “On The Road” (Adamas Scienza)	2021
Science seminars to secondary school students, Istituto “G. Fracastoro” (Cavaion, VR, IT)	2018
Press release – SZN, IT (Cardini et al. 2017, Limnol. Oceanogr.) reposted by several forums (e.g. ANSA, Il Mattino)	2017
Blog post “Using the Unusable” on the Nature Microbiology Community	2016