

Giorgia DI MUZIO CURRICULUM VITAE ET STUDIORUM



PERSONAL DATA

Date of Birth: 19/09/1988

Nationality: Italian

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Working at Laboratory of Zoology and Marine Biology, Department of Life Sciences and Systems Biology, University of Turin, Via Accademia Albertina 13, 10123, Turin, Italy. Phone: +39/011 6704578

EDUCATION

STUDIES AND STAGES

Currently_ PhD Student at Doctoral School of Sciences and Innovative Technologies, Laboratory of Zoology and Marine Biology, Department of Life Sciences and Systems Biology, University of Turin, Italy.

Supervisor: Prof. Daniela Pessani. Project title: "Meroplankton as biodiversity indicator in the marine environment".

RESEARCH INTEREST_ My research activities concern the study of meroplankton, which represents the dispersal stage of many benthic organisms; in particular, my studies are focused on the different larval stages of Crustacea Decapoda. The complex life cycle of these organisms, the seasonal dynamics of the meroplankton communities, the study of larval dispersal and the vertical distribution in water column, the link between larval stages of benthic organisms and benthic communities are the topics of my work.

Currently_ Collaboration with Pelagosphaera soc. coop. on environmental monitoring projects, analysis on coastal marine ecosystems, scuba diver surveys.

2016-17_ Work at Instituto Português do Mar e da Atmosfera (IPMA), Lisbon (Portugal) – collaboration to BIOMETORE project (funded by the EEA-Grants), under the supervision of Dr. A. dos Santos. The main goal of the project is to collect information on the NE Atlantic seamounts, around the Great Meteor, south of the Azores (2015) and the Madeira-Tore seamount chain (2016). My work at the Institute lasted almost 9 months, and was focused on the analysis of the decapods larvae community collected around the Seine seamount, in the Madeira-Tore seamount chain.

2015_ Reef Check course on the identification of corals and monitoring approaches of coral reefs.

Bangka, North Sulawesi, Indonesia, 26th October – 10th November 2015.

2015_ 3rd Marine Zoology International Summer School – “An integrated approach to marine invertebrate biodiversity: evolutionary and functional adaptations”, Tricase Porto (Lecce, Italy), 21th -26th September 2015.

2014_ Stage at National Council of Sea Research (CNR-ISMAR), Ancona, Italy.

_ Taxonomic analysis to species level of macrofaunal samples collected from deep-sea Mediterranean sediments, via extraction and identification of nematodes and macrofaunal organisms: study of biodiversity and ecosystem functioning at different spatial scales. Supervisor: Dr. E. Baldrighi.

_ Risk assessment for the introduction of pathogens in the Adriatic Sea by ballast waters and their interaction with macrobenthic organisms, EU project BALMAS (Ballast Water Management for Sea Protection). Supervisor: Dr. E. Manini (Researcher, CNR-ISMAR).

2014_ Master Degree in Marine Biology (110/110 with honours), **Polytechnic University of Marche**, Ancona, Italy. Thesis title: “Dredging in the port of Livorno: use of integrated ecotoxicological approach for the environmental risk assessment”. Tutor: Prof. F. Regoli (Ecotoxicological laboratory, Polytechnic University of Marche).

2012_ Stage for underwater *visual census* techniques (3 months), Monte Conero Diving Center, Numana (Ancona), Italy. Taxonomic recognition at species level of the Adriatic Sea fauna, especially for *Crustacea*, *Mollusca* and *Vertebrata* groups.

2012_ One week training on underwater sampling methodologies for hard substrates (Messina, Italy) for the characterization of the algal community. Supervisor: Prof. M. Giordano (Eco-physiology of Algae laboratory, Polytechnic University of Marche).

2012_ Stage for underwater scientific methodology (one week), Ligurian Sea (Gallinara Island, Alassio, Italy), to learn the basic practical knowledge on the study of marine environmental ecosystem by direct exploration (scraping, panels, water dredges, nets, traps, frames and transects, video and photo surveys, *visual census*). Supervisor: Prof. C. Cerrano (Zoology laboratory, Polytechnic University of Marche).

2011_ Bachelor’s degree in Biological Sciences, specializing in Marine Biology and Oceanography (100/110), **Polytechnic University of Marche**, Ancona, Italy. Thesis title: “Morphological analysis of Cladocera collected in coastal water and ports”. Tutor: Prof. M. Mori (Zoology laboratory, Polytechnic University of Marche).

2010_ Stage at Marine Biology and Ecology laboratory, Polytechnic University of Marche (5 months). Supervisor: Prof. A. Dell’Anno. Viral density and bacteria abundance in Mediterranean deep-sea sediments.

2006_ Graduated from “Liceo Scientifico G. Marconi” (Science high school) (100/100), Foggia, Italy.

RESEARCH CAMPAIGNS

2015_ Sampling cruise, Ligurian Sea, R/V Grecale I. CIBM, UniTo, Pelagosphaera. Sampling of zooplankton in proximity of the regasification terminal offshore OLT-LNG Toscana, off the coast of Livorno. Funded by the Laboratory of Marine Biology of the University of Turin.

2012_ ELC2012 cruise, Adriatic Sea, R/V Urania. ISMAR-CNR, EnvEurope project.

PUBLICATIONS/TECHNICAL REPORTS

Di Muzio, G., Basile, R., & Pessani, D. (2018). Description of the zoeal stages of *Periclimenes aegylios* Grippa & d'Udekem d'Acoz, 1996 (Crustacea: Decapoda: Palaemonidae) reared in the laboratory. *Zootaxa*, 4418(3), 228-246.

Di Muzio, G., Belmonte, G., & Pessani, D. (2016). Biodiversity and distribution of crustacean decapod larvae in South Adriatic and Otranto Channel. *Biologia Marina Mediterranea*, 23(1), 283.

M. Bastianini, G. Bortoluzzi, F. Braga, E. Dalpasso, F. Riminucci, F. Bernardi-Aubr, S. Finotto, G. Lorenzetti, G.M. Luna, F. Manfrin, L. Zaggia, M. Bresciani, A. Crema, G. Decarolis, A. L'Astorina, G. Ludeno, E.Matta, M- Musanti, A. Oggioni, M. Pepe, M.P. Adamo, G. Pasquariello, D. Fornasaro, A. Franzo, A. Coluccelli, G. Di Muzio. "Report on the oceanographical, bio-geochemical, geophysical and geological activities during Cruise ELC2012 with R/V Urania: Adriatic Sea, 2012-05-03- 2012-05-17. EU LTER network and Projects ENVEUROPE and ASI CLAM-PHYM coordinated by ISMAR CNR". RAPPORTI ISMAR (2012) 2, 1–63. Received: May 2012 / Accepted: Jul 2012.

PARTECIPATION TO CONGRESSES

Mid Year Meeting of The Crustacean Society (TCS), 19th-22nd June 2017, Barcelona (Spain) with the presentation of the following poster:

_D. Pessani, M. Battuello, **G. Di Muzio**, R. Mussat Sartor, N. Nurra. Seasonal presence and distribution of crustacean decapod larvae in the Ligurian Sea (Mediterranean Sea).

52nd European Marine Biology Symposium (EMBS), 25th-29th September 2017, Piran (Slovenia) with presentation of the following contribute:

_**G. Di Muzio**, D. Pessani, L. Guglielmo, A. Granata, E. Zambianchi, G. Belmonte. Circulation of *Brachyura* zoeae in the South Adriatic: propagules for a dispersal strategy or supply for open marine food chain?

48th National Congress of the Italian Society of Marine Biology (SIBM), 7th-9th June 2017, Rome (Italy) with presentation of the following posters:

_ D. Pessani, **G. Di Muzio**, B. Delsoglio. *Clibanarius erythropus* (Crustacea Decapoda) glaucothöe: the timing of entering in the first shell and the habitat change.

47th National Congress of the Italian Society of Marine Biology (SIBM), 13th-17th June 2016, Turin (Italy), involved into the **organization committee** and with presentation of the following posters:

_ **G. Di Muzio**, G. Belmonte, D. Pessani. Biodiversity and distribution of crustacean decapod larvae in South Adriatic and Otranto channel.

_ M. Battuello, **G. Di Muzio**, R. Mussat Sartor, N. Nurra, P. Brizio, M.C. Abete, S. Squadrone. Chaetognats as trace element bioindicators in a marine coastal environment.

_ G. Pantò, M. Battuello, **G. Di Muzio**, R. Mussat Sartor, N. Nurra. Seasonal distribution and *sex ratio* of three copepod families (Pontellidae, Candaciidae, Corycaeidae) in the shallow waters.

Ecotoxicology Congress "Environment emergency: ecotoxicology as a management tool. Research, monitoring by Agencies, the private world" – IV edition, November 12th-13th, 2014, Livorno (Italy).-

Poster presentation: F. Regoli, S. Gorbi, **G. Di Muzio**, A. Nardi, M. Di Carlo, D. Fattorini, G. D'Errico, M.E. Giuliani, M. Benedetti, M. Mezzelani, I. Lanzoni, L. Pittura, A. Scuderi, S. Macchia, D. Pellegrini. Use of integrated ecotoxicological approach for the environmental risk assessment associated with the dredging of the port of Livorno.

LANGUAGE SKILLS

ITALIAN: mother tongue.

ENGLISH: reading B2, speaking B2 – Common European Framework of Reference for Languages (CEFR), certificated by CLA (Centro Linguistico di Ateneo), University of Turin.

PORTUGUESE: reading B1, speaking A1 – Common European Framework of Reference for Languages (CEFR).

OTHER QUALIFICATIONS

2014_ State exam to achieve the certification of Professional Biologist, Polytechnic University of Marche.

DIVING LICENSES:

_ **Reef Check Eco Diver**, November 2015, Indo-Pacific.

_ **Enriched Air Diver PADI**, Enriched Air Nitrox MAX 40% O₂, diver No 1510EF2555 (09/10/2015), certifying instructor Andrea Fazi (No OWSI-308418).

_ **Rescue Diver PADI**, diver No 1307EC8496 (06/15/2013), issued by Monte Conero Diving Center, Numana (Ancona), Italy.

_ **ARA Advanced Open Water Diver CMAS**, diver No ITAF09 P2 12 4786 (06/19/2012), issued by Sesto Continente Diving Center, Finale Ligure (Savona), Italy.

_ **Emergency Responder – CPR (BLS)/ First Aid – PADI**, Student No 1008ER3102 (08/23/2010), issued by Monte Conero Diving Center, Numana (Ancona), Italy.

_ **Open Water Diver PADI**, diver No 0807E35435 (06/30/2008), issued by Monte Conero Diving Center, Numana (Ancona), Italy.

2008_ Master class and Professional Training for Divers in diving techniques preparatory to the use of breathing air for marine biologists, Polytechnic University of Marche.

OTHER PROFESSIONAL ACTIVITIES

2010-2012_ **Biological snorkelig guide and diving assistance**, Monte Conero Diving Center, Numana (Ancona), Italy.