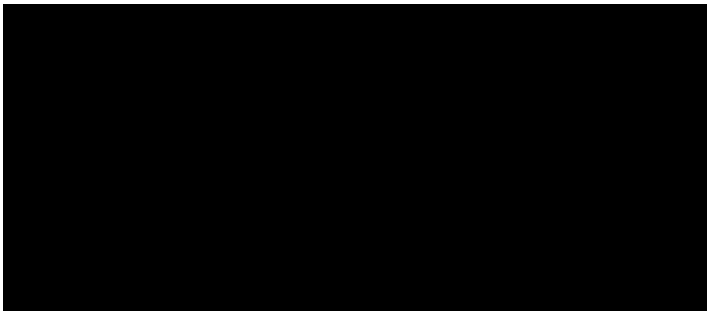
European Curriculum Vitae Format

Name and Surname: Davide Di Blasi



Pursuant to Articles 46 and 47 of DPR 445/2000, I declare that the information provided in this Curriculum Vitae and Studiorum, including details on my scientific production, is truthful.

Education and Training

10/08/2021
PhD in Marine Sciences, XXXIII Cycle (University of Genoa)

Title: "Ecology and Biology of the Antarctic Giant *Dissostichus mawsoni* (Pisces, Nototheniidae): Reproduction, Trophic Role, and Migrations in the Ross Sea Region."

Subject: Collection of biological data and ecological surveys on previously unknown life cycle stages of the species. The sampling activities were conducted during both Italian expeditions at the Mario Zucchelli Station in Antarctica and New Zealand expeditions aboard a fishing vessel. The PhD work also included participation in the development and programming of remote observation technologies (Baited Remote Underwater Video Systems) and the drafting of a sampling plan, initially experimental and subsequently standardized, for data collection under sea ice.

23/02/2012
Master's Degree in Marine Environmental Sciences, 82/S Environmental and Territory Sciences and Technologies (University of Genoa),

Final Grade: 107/110
Thesis Title: "Study through Visual Census of Juvenile Stages of Teleosts of the Genus *Sphyraena* in the Ligurian Sea."

30/06/2008
Bachelor's Degree in Environmental Sciences (Marine Environment Management and Conservation) (University of Genoa)

Final Grade: 106/110
Thesis Title: "Detailed Maps of Cetacean Movements through Google Earth Application. The Case of the Fin Whale (*Balaenoptera physalus*) of Voltri (May 2007)."

Additional courses

15/04/2022 – 31/05/2022
SSI 2nd Level ARA / Advanced Adventurer Scuba Diving Certification. Le Cavallette Diving SNC, Savona

12/07/2021 – 14/07/2021
OPITO – BOSIET (Basic Offshore Safety Induction & Emergency Training) for offshore activities, APT Safety Group, Pavia

15/05/2021 – 31/07/2021
FIPSAS 1st Level ARA / One Star Diver Scuba Diving Certification. Scuola Subacquea Genovese ASD, Genoa

26/08/2018 – 08/09/2018
Training and acclimatization course for participation in Antarctic expeditions, held at ENEA C.R. Brasimone (Bologna) and Alpine Training Center Caserma Monte Bianco, La Thuile (Valle d'Aosta)

04/04/2016 – 15/04/2016
BST (Basic Safety Training) IMO-STCW'95 for navigation: First Aid, Personal Safety & Social Responsibilities, Survival & Rescue, Basic Firefighting. CMA Sistemi Antincendio, Genoa.

08/10/2015 – 10/10/2015
Advanced Training School "Statistics for Human Sciences"

Advanced training course at the Asti Higher Education University Hub on the use of statistical software 'R' for multivariate analyses.

26/06/2015 – 03/07/2015
BIOSTAT 2015 – Course on Statistical Inference in Biology and Human Sciences

Advanced training course at the Asti Higher Education University Hub on the use of statistical software 'R' for descriptive and univariate inferential analyses.

Academic positions and contracts

01/10/2024 – Present
Temporary Researcher (Level III), CNR – Institute of Marine Engineering (INM), Genoa branch (TD 400.10 INM PNRR)

15/11/2021 – 31/08/2024
Research Fellowship, SZN – Genoa Marine Centre (GMC) (AdR 18/2021, Environmental status assessment along the Italian coasts within the framework of the Marine Strategy through fish fauna analysis)

15/11/2020 – 14/11/2021
Research Fellowship, CNR – Institute for the Study of Anthropogenic Impacts and Sustainability in the Marine Environment (IAS), Genoa branch (AdR 004-2020 IAS-GE, DISCOVERY Project, Monitoring Dissostichus mawsoni in sea-ice covered areas of the Ross Sea Region MPA using low-impact technologies)

01/09/2017 – 31/08/2019
Scholarship, CNR – Institute of Marine Sciences (ISMAR), Genoa branch (ISMAR-BS-001-2017-GE, SIMWESTMED Project, Supporting Implementation of Maritime Spatial Planning in the Western Mediterranean region, within Evaluation and management of fishery resources to support the development of maritime spatial management plans at national and Mediterranean scales)

01/02/2015 – 31/01/2017
Scholarship, CNR – Institute of Marine Sciences (ISMAR), Genoa branch (ISMAR-BS-001-2014-GE-2, ASAP Project, Estimation of survival rates of discarded cartilaginous fish from small-scale demersal fisheries: pilot study in the Marine Protected Area "Tavolara – Punta Coda Cavallo")

01/01/2014 – 31/01/2014
Project-based Contract (IDREEM – 100022-2012-CM-COOP_01), University of Genoa

01/10/2013 – 31/12/2013
Project-based Contract, Cooperativa DAFNE scrl – Environmental Education and Ecological Training, Genoa (contract funded by the Italian Institute for Environmental Protection and Research, ISPRA, Rome)

01/12/2012 – 31/01/2013
Occasional Collaboration with Cooperativa RSTA scrl – Research and Development of Appropriate Technologies, Genoa

01/06/2012 – 31/08/2012
Internship at the Ligurian Observatory for Fisheries and the Environment (OLPA), Genoa

Participation in projects

RAISE (PNRR) – Robotics and AI for Socio-economic Empowerment, Spoke 3: Protection and Care of the Environment, funded by MUR through Investment 1.5 (M4C2) of PNRR

MARECO (PRIN 2020J3W3WC) – Preserving Coastal Marine Ecosystem Functions and Services under Climate Change Pressures and Overfishing, funded by MUR - PRIN 2020, PI: Lorenzo Zane (University of Padua), 36 months

European Maritime and Fisheries Fund (FEAMP) Measure 1.40 (d, e, f) – Protection and Restoration of Marine Biodiversity and Ecosystems and Compensation Schemes in Sustainable Fisheries Activities:

- Marine Protected Area of Bergeggi
- Marine Protected Area of Cinque Terre
- Marine Protected Area of Portofino

Third-Party Research Project between Stazione Zoologica Anton Dohrn and the Torre Guaceto Management Consortium, funded under Measure 1.40 (d, e, f) of EU Regulation No. 508/2014

Contract between Stazione Zoologica Anton Dohrn and the Asinara National Park – Marine Protected Area of Asinara Island, within EU Regulation No. 508/2014 (FEAMP) Measure 1.40 (d, e, f), Project No. 36/RBC/21 - CUP J28H21000110007 - CIG Z3F3A0F5FD – Action 2 Visual Census

Specialized Consultancy for the Expansion Proposal of the AMP Torre Guaceto, 2023

Research Agreements between Stazione Zoologica Anton Dohrn (Genoa Marine Centre) and:

- Marine Protected Area Capo Carbonara, 2022
- Marine Protected Area Cinque Terre, 2022
- Marine Protected Area Isola di Bergeggi, 2022
- Marine Protected Area Capo Carbonara, 2021
- Marine Protected Area Tavolara-Punta Coda Cavallo, 2021

CHANGE (CNR-PRA 2021, Proposal ID 11) – Fish Communities of Northeastern Greenland Shelf at a Glance: Diversity, Functioning, and Resilience, funded by CNR - PRA (Arctic Research Program), PI: Laura Ghigliotti (IAS-CNR, Genoa), 24 months

DISCOVERY (MIUR-PNRA 18_00016) – Monitoring *Dissostichus mawsoni* in Sea-Ice Covered Areas of the Ross Sea Region MPA by Low-Impact Technologies, funded by MIUR - PNRA (Italian National Antarctic Research Program), PI: Laura Ghigliotti (IAS-CNR, Genoa), 24 months

EMPHASIS (MIUR-PNRA 18_00106) – Ecomorphological Analysis and Development of Virtual Mobile Models of Buccal Apparatus of Notothenioid Fish Species, funded by MIUR - PNRA, PI: Erica Carlig (IAS-CNR, Genoa), 24 months

ARISTOTLE (Research in Svalbard (RiS) 10987) – Arctic Fish Diversity: Snapshots from Svalbard Area, funded by MIUR - PNRA, PI: Laura Ghigliotti (ISMAR-CNR, Genoa), 24 months

PILOT (MIUR-PNRA 16_00198) – Pieces in Place for a Research and Monitoring Program Targeting the Two Key Fish Species of the Establishing Ross Sea MPA, funded by MIUR - PNRA, PI: Marino Vacchi (ISMAR-CNR, Genoa), 24 months

POLICY (MIUR-PNRA 16_00218) – Polar Fish Cytogenetic Diversity, funded by MIUR - PNRA, PI: Eva Pisano (ISMAR-CNR, Genoa), 24 months

SIMWESTMED – Supporting Implementation of Maritime Spatial Planning in the Western Mediterranean Region, under the European Maritime and Fisheries Fund Work Programme 2015, Coordinator: Service Hydrographique et Océanographique de la Marine (SHOM), 24 months

FLAGFISH – Improving Knowledge of Reproductive and Settlement Phases of Groupers and Eagle Rays in the Secche di Tor Paterno Marine Protected Area, funded by Roma Natura, Regione Lazio, PI: Marino Vacchi (ISMAR-CNR, Genoa), 24 months

DISMAS (MIUR-PNRA 2015/B1.02) – Biological and Ecological Information on the Antarctic Toothfish, *Dissostichus mawsoni*, in the Ross Sea, funded by MIUR - PNRA, PI: Laura Ghigliotti (ISMAR-CNR, Genoa), 24 months

ASAP – Assessment of Survival of Rejected Sharks in Mediterranean Small-Scale Fishing, funded by the Ministry of Agricultural, Food and Forestry Policies (MIPAAF), PI: Marino Vacchi (ISMAR-CNR, Genoa), 24 months

POLE (MIUR-PNRA 2013/AZ4.01) – Towards Persistent and Autonomous Monitoring and Sampling of Undersea Ice, funded by MIUR - PNRA, PI: Gabriele Bruzzone (ISSIA-CNR, Genoa), 24 months

RAISE (MIUR-PNRA 2013/AZ1.18) – Integrated Research on Antarctic Silverfish Ecology in the Ross Sea, funded by MIUR - PNRA, PI: Marino Vacchi (ISMAR-CNR, Genoa), 24 months

MIUR-PNRA 2010/A1.11 – Vulnerability of Polar Fish to Climate Change: Life Cycle, Habitat, and Relationship with Sea Ice in *Pleuragramma antarcticum*, funded by MIUR - PNRA, PI: Marino Vacchi (ISPRA, Rome), 24 months

Awards

Winner of the public selection "Ispra_rm/C18/2023 – Public selection by qualifications and written examination for one full-time, fixed-term Researcher position (Level III) under the CCNL Education and Research". The position was declined due to simultaneous acceptance of a position at INM-CNR (TD 400.10 INM PNRR).

Recipient of the CCAMLR Scientific Scholarship (2018–2019). Project title: "Development of Non-Invasive Techniques to Monitor the Antarctic Toothfish (*Dissostichus mawsoni*) within the Newly Approved RSRMPA".

Qualified in the public selection process (by qualifications and interview) for a fixed-term position as "Technical Professional Collaborator with a Master's Degree in Environmental and Territorial Management, Marine Specialization (Class 82/S and LM 75 in Environmental and Territorial Sciences and Technologies)" at the Istituto Zooprofilattico Sperimentale della Sardegna "G. Pegreffi," Sassari. Competition announcement no. 539 of 31/05/2013 (Ranked 4th in the final ranking).

Main research experience

2024-present
Application of remote sensing techniques (visual and acoustic, implemented through robotic platforms developed in the INM laboratory) for monitoring marine fauna, with a particular focus on Mediterranean and polar fish fauna.

Objective: Participation in the development of functional instrumentation for sampling environmental parameters and their application, mainly focusing on marine habitats. The detection of chemical-physical-biological water variables through probes and water sampling for subsequent analyses, as well as seabed type and conformation using acoustic techniques, are correlated with visual sampling results aimed at detecting organism distribution and abundance.

Results: Analysis of videos from Antarctic expeditions provided information from previously unexplored or poorly explored habitats. The distribution data of organisms

obtained from videos, thanks to a real-time sampling system, were correlated with collected environmental parameters. The data processing methodology developed was also useful in establishing a processing protocol for future research.

2022-24
Investigation through Local Ecological Knowledge (LEK) gathered from interviews conducted with a sample composed of professional and recreational fishermen, fish sector operators, and general sea users, regarding deep-sea fish populations, with a particular focus on the distribution of the wreckfish (*Polyprion americanus*).

Objective: Obtain information on the distribution of the species and associated species in relation to their habitats, and evaluate fishing activities affecting them.

Results: Based on the Ligurian Sea case study, the life cycle of the wreckfish was reconstructed, trophic information on the species was derived, and its conservation status was assessed.

2021-24
Assessment through underwater visual census using SCUBA in internal (with different protection levels) and external areas of various Italian Marine Protected Areas (MPAs).

Objective: Study of biomass variation, abundance, and species richness of fish populations in zones with different protection levels and consequently exposed to varying anthropogenic impacts; analysis of the environmental status of sampling zones using sessile and vagile phytobenthos and zoobenthos as indicators.

Results: Databases on fish species distribution and quantitative parameters in the different MPAs considered and adjacent zones with different protection levels. These data were subsequently integrated with others collected in different Italian areas to provide a comprehensive survey within the framework of the Good Environmental Status analysis program required by the Marine Strategy Framework Directive.

2021
Participation in the XXXVII Italian Antarctic Expedition (National Antarctic Research Program) at Mario Zucchelli Station. Field activities on the sea ice lasted about fifteen days – Project: DISCOVERY.

Objective: Development of non-extractive sampling protocols for the study and monitoring of the Antarctic toothfish – a key species of the Southern Ocean ecosystems – and associated organisms (predators and prey) in areas seasonally covered by sea ice (fast ice).

Results: The use of Baited Remote Underwater Video systems (BRUVs), environmental DNA water sampling, and hydrophones placed under sea ice proved to be applicable methodologies. The results provided continuity with data collected in previous years through BRUVs.

2021

Participation in the Arctic campaign at Belgica Bank (NE Greenland) led by the CNR (National Research Council). 14 days of activities aboard the R/V Laura Bassi – Project: CHANGE.

Objectives: Survey focused on investigating fish communities associated with the seabed and water column at Belgica Bank, a marine geomorphological structure at extreme latitude (up to 81°N) and thus largely unexplored.

Results: Using tools such as Agassiz trawl and Hamburg plankton net, fish and invertebrate species were sampled to create an extensive faunal inventory of the area. Additionally, seabed mapping through active acoustics, sediment sampling, and video recordings with a camera attached to nets provided a broad spectrum of relevant information for characterizing the area.

2020-21

Analysis of lipid distribution and content in muscle and subcutaneous tissues of adult Antarctic toothfish (*Dissostichus mawsoni*) from different areas of the Ross Sea, characteristic of different stages of the species' life cycle.

Objective: Identify storage and consumption mechanisms of triglycerides, the main type of lipid metabolized and catabolized by Notothenioidei fish, to determine their use, particularly focusing on post-reproduction period.

Results: The variation in fatty acid distribution and composition was identified, providing hypotheses as a basis for future studies to complete the knowledge framework on the life cycle of the Antarctic toothfish, necessary for proper resource management by the Commission for the Conservation of Antarctic Marine Living Resources (CCAMLR).

2019

Participation in the Second Winter Survey in the Ross Sea led by NIWA (New Zealand Institute for Water and Atmospheric Research). 49 days of activities aboard a professional fishing vessel – Project: PILOT, funded by the CCAMLR Scientific Scholarship 2018-2019.

Objective: Collection of biological (mainly reproductive aspects) and ecological samples and data regarding Antarctic toothfish (*Dissostichus mawsoni*) and associated species.

Results: Following the First Winter Survey (2016), the survey extended investigations to a previously unexplored period of the year, providing information that expanded knowledge on the species' reproduction, which will be crucial for management by CCAMLR.

2018

Participation in the XXXIV Italian Antarctic Expedition (National Antarctic Research Program) at Mario Zucchelli Station. Field activities on sea ice lasted about one month – Project: PILOT.

Objective: Study of two key fish species, the Antarctic silverfish (*Pleuragramma antarctica*) and the Antarctic toothfish (*Dissostichus mawsoni*), prioritizing non-extractive methodologies.

Results: Traditional collection of Antarctic silverfish eggs and larvae in the only known nursery area was complemented by ROV-guided visual sampling. Presence and distribution of *Dissostichus mawsoni* were investigated using innovative methods such as echosounders and Baited Remote Underwater Video cameras (BRUVs).

2018

Analysis of Videos Acquired Using Baited Remote Underwater Video (BRUV) from 2015 to 2017 Under the Seasonal Sea Ice of the Ross Sea (McMurdo Sound and Terra Nova Bay) – Reference Projects: DISMAS, PILOT

Objective: To assess the effectiveness of the non-extractive BRUV system for studying the Antarctic toothfish (*Dissostichus mawsoni*) under sea ice, considering the priority of developing low-impact research systems for studying and monitoring the ecosystems of the recently approved Ross Sea Marine Protected Area.

Results: For the first time, data on the distribution and abundance of the Antarctic toothfish in the studied areas and periods were obtained. The system's functionality was presented at the Commission for the Conservation of Antarctic Marine Living Resources (CCAMLR).

2017-18

Development of an Analysis of the Italian Sector of the Western Mediterranean Basin According to Maritime Spatial Planning Criteria – Reference Project: SIMWESTMED

Objective: Identification of emerging pressures and conflicts in the use of maritime space at a general scale and in greater depth within a focus area in the Northern Tyrrhenian Sea, to determine planning priorities and highlight issues and data gaps.

Results: A report on the key characteristics of the area (marine environment, maritime activities, and main sectoral and socio-economic trends) was produced. The contribution to the focus area study mainly concerned the investigation of professional fishing and aquaculture activities and their impacts.

2017

Ecological and Ecomorphological Analysis of Antarctic Fish Species Belonging to the Notothenioidei Suborder – Reference Projects: RAISE, DISMAS, PILOT

Objective: To deepen biological knowledge about these species and their trophic roles in different understudied geographic sectors.

Results: Specimens from various species collected in different areas of the Southern Ocean during multiple expeditions were analyzed for morphometric values indicative of feeding habits.

2016
Participation in the First Winter Survey in the Ross Sea Led by NIWA (New Zealand Institute for Water and Atmospheric Research). 58 Days of Activity Aboard a Professional Fishing Vessel – Reference Project: DISMAS

Objective: Collection of biological (mainly related to reproduction) and ecological data on the Antarctic toothfish (*Dissostichus mawsoni*) and associated species.

Results: The first-ever recorded observation of reproductively active Antarctic toothfish, along with information on distribution in spawning zones and periods. The first-ever sampling of the species' eggs provided crucial data for CCAMLR's species management.

2016
Experimental Investigation on the Feasibility of Recognizing Cartilaginous Fish Species Caught and Marketed Through Mathematical Analysis of Dermal Denticles Shape

Objective: To validate a survey methodology using widely accessible smartphone-based technology for collecting large-scale data on cartilaginous fish catches.

Results: A machine-learning-based software demonstrated effectiveness in species recognition, laying the groundwork for a project submission under the POR FSE Liguria 2014-2020 funding program.

2015
Co-supervisor of the Master's Thesis "Collection of Historical Data and Distribution Analysis of Cartilaginous Fish from Porto Santo Stefano to Gaeta". Master's Degree in Marine Sciences, University of Genoa

Objective: To identify changes in the abundance and distribution of cartilaginous fish over recent decades in the area of interest through a study based on Local Ecological Knowledge (LEK).

Results: Interviews with divers, professional, and recreational fishermen enabled the creation of a comprehensive database for analyzing trends in key Mediterranean cartilaginous species.

2015
Assessment of Elasmobranch Survival Caught with Small-Scale Artisanal Fishing Gear Near the "Tavolara – Punta Coda Cavallo" Marine Protected Area (Sardinia), Conducted Aboard Fishing Vessels – Reference Project: ASAP

Objective: To gather information on the potential survival of released sharks and rays by recording macroscopic stress indices and blood parameters (e.g., lactate concentration).

Results: Fieldwork on artisanal fishing vessels led to the development of a macroscopic scale to assess how different methods impact captured specimens' conditions and survival rates, which varied by species. Blood parameter values were compared with those of specimens housed at the Genoa Aquarium as controls.

2015

Analysis of Videos Acquired Using the POLE System, Placed Under Antarctic Sea Ice and Operating Continuously for 10 Months Starting in February 2014 – Reference Project: POLE

Objective: To investigate temporal variations in the abundance of various marine organisms at Terra Nova Bay, during months when direct human activity is not possible.

Results: The system enabled the assessment of temporal variation in the presence and abundance of fish, crustaceans, and gelatinous macrozooplankton near platelet ice and in the pelagic environment.

2014

Sampling of Various Mediterranean Coastal Fish Species Representing Specific Trophic Levels – Reference Project: IDREEM

Objective: To analyze the presence of toxins from the microalga *Ostreopsis ovata* and investigate their distribution in the food web.

Results: Specimens of gilthead seabream (*Sparus aurata*), white seabream (*Diplodus sargus*), and salema (*Salpa salpa*) were sampled during summer and added to previously collected invertebrate samples from the same area.

2013

Assessment of Status and Analysis of Antarctic Silverfish (*Pleuragramma antarctica*) Samples Collected During Various Antarctic Expeditions (2004-2013) – Reference Project: RAISE

Objective: Sorting of stored samples at the University of Genoa and the National Antarctic Museum for ecological analysis.

Results: About 200 specimens were selected for morphometric and dietary studies, with a focus on geographical variation.

2013

Reorganization of Antarctic Marine Biological Samples Stored at the University of Genoa and the National Antarctic Museum

Objective: Taxonomic identification of embryonated eggs, larvae, juveniles, and adult Antarctic teleost fish and planktonic organisms from different expeditions.

Results: Samples were cataloged in a new database for rapid retrieval, with fixatives replaced when necessary.

2012-13
Census of Recreational Fishers in a Designated Area Along the Ligurian Coast

Objective: To determine the distribution and potential impact of recreational fishing along the Ligurian coast.

Results: The presence of recreational fishers was recorded at three different times of the day, along with the species, quantities, and weights of their catches.

2012
Microscopic Analysis Survey of Plankton Samples Collected at the "Secche di Tor Paterno" Marine Protected Area (Rome)

Objective: Identification of fish eggs and larvae, with a particular focus on charismatic species such as the dusky grouper (*Epinephelus marginatus*) and red grouper (*Mycteroperca rubra*).

Results: Complete sorting and morphological classification of fish eggs.

2012
Investigation of Artisanal Fishing Activity Near the "Isola di Bergeggi" Marine Protected Area (Savona), Conducted Aboard Fishing Vessels

Objective: Monitoring fishing activities inside and outside the Marine Protected Area, comparing qualitative and quantitative catches.

Results: Compilation of a database with species, quantities, and sizes of catches, facilitating comparative analysis.

2011
Master Thesis Research: Visual Census of Mediterranean Barracuda (*Sphyraena viridensis*) Juvenile Settlement Along the Ligurian Coast

Objective: To investigate settlement and recruitment phases of this thermophilic species in relation to environmental parameters.

Results: A long-term study (April–November) provided insights into recruitment phases, growth rate, mortality, and species interactions.

2008

Bachelor's Thesis Research: Data Collection on the Distribution and Behavior of the Fin Whale (*Balaenoptera physalus*) in the Ligurian Sea

Objective: To study fin whale distribution within the Pelagos Sanctuary, including behavioral analysis of an individual observed in a port for several days.

Results: GIS-based tracking of the whale's movements, along with data on anomalous behaviours, parasites, and breathing activities.

Publications

Citations = 203; H-index = 9 (Google Scholar, June/2025)

1. **Di Blasi D.**, Poli F., Bava S., Desiderà E., Guidetti M., Guidetti P. Changes in Mediterranean rocky reef assemblages across a protection gradient: a case study in the Ligurian Sea. Submitted to Journal of Marine Biological Association of the United Kingdom

2. Desiderà E., **Di Blasi D.**, Poli F., Willis T.J., Bava S., Guidetti P. Using Local Ecological Knowledge (LEK) to inform the multi-habitat life cycle of wreckfish: a Ligurian Sea case study for Mediterranean conservation. Accepted for publication in Mediterranean Marine Science

3. **Di Blasi D.**, Aicardi S., Allaria G., Carlig E., Ferrando S., Ghigliotti L., Grasselli E., Salis A., Vacchi M., Parker S.J., 2024. Lipid distribution and composition in Antarctic toothfish before and after reproductive migration: implications for life cycle. Polar Biology 47(8): 757-769. doi: 10.1007/s00300-024-03267-4

4. Ardini F., Moggia F., **Di Blasi D.**, Rivaro P., Grotti M., Ghigliotti L., 2024. Elemental distribution in tissues of shorthorn sculpins (*Myoxocephalus scorpius*) from Kongsfjorden, Svalbard. Journal of Marine Science and Engineering 12(12): 2245. doi: 10.3390/jmse12122245

5. **Di Blasi D.**, Bava S., Desiderà E., Merotto L., Poli F., Guidetti P., 2024. The northernmost records of *Caranx crysos* (Osteichthyes: Carangidae) in the NW Mediterranean Sea. Thalassas: An International Journal of Marine Sciences 40(1): 7-11. doi: 10.1007/s41208-023-00619-5

6. Carlig E., **Di Blasi D.**, Canese S., Vacchi M., Grant S.M., Ghigliotti L., 2024. First records of *Chionodraco hamatus* nests in coastal areas of Terra Nova Bay (Ross Sea): a potential nesting area for the species? Marine Biology 171(1): 1. doi: 10.1007/s00227-023-04322-0

7. Carlig E., **Di Blasi D.**, Pisano E., Vacchi M., Santovito G., Ghigliotti L., 2022. Ecomorphological differentiation of feeding structures within the Antarctic fish species flock Trematominae (Notothenioidei) form Terra Nova Bay (Ross Sea). Journal of Marine Science and Engineering 10(12): 1876. doi: 10.3390/jmse10121876

8. Aicardi S., Bozzo M., Amaroli A., Gallus L., Risso B., Carlig E., **Di Blasi D.**, Vacchi M., Ghigliotti L., Ferrando S., 2022. The arrangement of the peripheral olfactory system of *Pleuragramma antarcticum*: A well-exploited small sensor, an aided water flow, and a prominent effort in primary signal elaboration. Animals 12(5): 663. doi: 10.3390/ani12050663

9. Parker S., Sundby S., Stevens D., **Di Blasi D.**, Schiaparelli S., Ghigliotti L., 2021. Buoyancy of post-fertilized *Dissostichus mawsoni* eggs and implications for early life history. Fisheries Oceanography 00: 1-10, doi: 10.1111/fog.12552

10. Carlig E., Christiansen J.S., **Di Blasi D.**, Ferrando S., Pisano E., Vacchi M., O'Driscoll R., Ghigliotti L., 2021. Midtrophic fish feeding modes at the poles: an ecomorphological comparison of polar cod (*Boreogadus saida*) and Antarctic silverfish (*Pleuragramma antarctica*). Polar Biology 44(8): 1629-1642. doi:10.1007/s00300-021-02900-w

11. **Di Blasi D.**, Canese S., Carlig E., Parker S.J., Pisano E., Vacchi M., Ghigliotti L., 2021. The challenge to observe Antarctic toothfish (*Dissostichus mawsoni*) under fast ice. Journal of Marine Science and Engineering 9(3): 255, doi: 10.3390/jmse9030255

12. Ghigliotti L., Christiansen J.S., Carlig E., **Di Blasi D.**, Pisano E., 2020. Latitudinal cline in chromosome numbers of ice cod *A. glacialis* (Gadidae) from northeast Greenland. Genes 11(12): 1515, doi: 10.3390/genes11121515

13. Aicardi S., Amaroli A., Gallus L., **Di Blasi D.**, Ghigliotti L., Betti F., Vacchi M., Ferrando S., 2020. Quantification of neurons in the olfactory bulb of the catsharks *Scyliorhinus canicula* (Linnaeus, 1758) and *Galeus melastomus* (Rafinesque, 1820). Zoology 141: 125796, doi: 10.1016/j.zool.2020.125796

14. Carlig E., **Di Blasi D.**, Ghigliotti L., Pisano E., Koubbi P., Vacchi M., 2019. Diversified feeding strategies of *Pleuragramma antarctica* (Nototheniidae) in the Southern Ocean. Polar Biology 42(11): 2045-2054, doi: 10.1007/s00300-019-02579-0

15. Parker S.J., Stevens D.W., Ghigliotti L., La Mesa M., **Di Blasi D.**, Vacchi M., 2019. Winter spawning of Antarctic toothfish *Dissostichus mawsoni* in the Ross Sea region. Antarctic Science 31(5): 243-253, doi: 10.1017/S0954102019000282

16. Ferrando S., Amaroli A., Gallus L., **Di Blasi D.**, Carlig E., Rottigni M., Vacchi M., Parker S.J., Ghigliotti L., 2019. Olfaction in the Antarctic toothfish *Dissostichus mawsoni*: clues from the morphology and histology of the olfactory rosette and bulb. Polar Biology 42(6): 1081-1091, doi: 10.1007/s00300-019-02496-2

17. Ferrando S., Amaroli A., Gallus L., Aicardi S., **Di Blasi D**., Vacchi M., Ghigliotti L., 2019. The olfactory organ of *Torpedo marmorata* Risso, 1810: morphology, histology, and nos-like immunoreactivity. BELS-Bulletin of Enviromental and Life Sciences, 1(1).

18. Ferrando S., Amaroli A., Gallus L., Aicardi S., **Di Blasi D.**, Christiansen J.S., Vacchi M., Ghigliotti L., 2019. Secondary folds contribute significantly to the total surface area in the olfactory organ of Chondrichthyes. Frontiers in Physiology 10: 245, doi: 10.3389/fphys.2019.00245

19. **Di Blasi D.**, Carlig E., Ferrando S., Ghigliotti L., Psomadakis P.N., Vacchi M., 2018. A new record and biological evidences supporting the establishment of *Beryx splendens* (Teleostei: Berycidae) in the western Mediterranean basin. Acta Ichthyologica et Piscatoria 48(2): 183-188, doi: 10.3750/AIEP/2340

20. Carlig E., **Di Blasi D.**, Ghigliotti L., Pisano E., Faimali M., Vacchi M., 2018. Diversification of feeding structures in three Antarctic nototheniod fish species. Polar Biology 41(9): 1707-1715, doi: 10.1007/s00300-018-2310-9

21. Ghigliotti L., Ferrando S., **Di Blasi D.**, Carlig E., Gallus L., Stevens D., Vacchi M., Parker S., 2018. Surface egg structure and early embryonic development of the Antarctic toothfish, *Dissostichus mawsoni* Norman 1937. Polar Biology 41(9): 1717-1724, doi: 10.1007/s00300-018-2311-8

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2. Guidetti P., Bava S., Desiderà E., **Di Blasi D.**, Palazzo L., 2024. Monitoraggio dell'effetto riserva – 2024, Area Marina Protetta "Cinque Terre"

3. Guidetti P., Bava S., Desiderà E., **Di Blasi D.**, Palazzo L., 2024. Monitoraggio dell'effetto riserva – 2024, Area Marina Protetta "Isola di Bergeggi"

4. Guidetti P., Bava S., Desiderà E., **Di Blasi D.**, Poli F., 2023. Accordo di collaborazione per la raccolta di informazioni sulla biodiversità marina e sulla piccola pesca locale nell'Area Marina Protetta delle Cinque Terre – Relazione finale

5. Guidetti P., Bava S., Desiderà E., **Di Blasi D.**, Poli F., 2023. Accordo di collaborazione per la raccolta di informazioni sulla biodiversità marina e sulla piccola pesca locale nell'Area Marina Protetta di Portofino – Relazione finale

6. Guidetti P., Bava S., Desiderà E., **Di Blasi D.**, Poli F., 2023. Valutazione sforzo di pesca attraverso visual census e pescato – Progetto n. 14/RBC/21 – CUP J88H21000160007

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14. Ghigliotti, L., Del Core M., **Di Blasi D.**, Vacchi M., Accettella D., Coslovich F., Douss N., Gallerani A., Geletti R., Lucchi R.G., Romeo R., Tomini I., Visnovich G., Zgur F., 2022. Fish communities of Northeastern Greenland shelf at a glance: diversity, functioning and resilience – CHANGE – Cruise Report

15. Guidetti P., Bava S., Desiderà E., **Di Blasi D.**, Poli F., 2021. Monitoraggio dell'effetto riserva – 2021, Area Marina Protetta Capo Carbonara

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17. Parker S., **Di Blasi D.**, 2019. Voyage report: JAN1902. Ministry for Primary Industries, Fisheries, New Zealand Government. Project title: Second winter survey for Antarctic toothfish in the northern Ross Sea region

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2. Desiderà E., Biassisi E., Bo M., Calogero G., Canese S., **Di Blasi D.**, Poli F., Toma M., Guidetti P., Bava S., 2022. Using Local Ecological Knowledge to support conservation of the wreckfish (*Polyprion americanus*) in the Ligurian Sea. SPA/RAC – Marine key habitats and NIS Symposia – 3rd Mediterranean Symposium on the Conservation of the Dark Habitats, Genova 19-23 settembre 2022

3. **Di Blasi D.**, Caccavo J.A., Seyboth E., Rombola E.F., Machado A.L., Capurro A., Santos M., Reid K., 2020. CCAMLR Scientific Scholarship Scheme: an important tool to involve early career researchers in CCAMLR processes and to build capacity. SCAR 2020 Online conference, 3-7 agosto 2020

4. Vacchi M., Carlig E., Dagnino A., **Di Blasi D.**, Ghigliotti L., Presutti C., Forniz C., 2019. Submersible rotating video (SRV) to monitor fish fauna. A case study in the "Secche di Tor Paterno" MPA. 50° Congresso della Società Italiana di Biologia Marina, Livorno 10-14 giugno 2019

5. Ghigliotti L., Carlig E., **Di Blasi D.**, Vacchi M., Pisano E., 2019. The Arctic fish fauna: focus on the Kongsfjorden. L'Artico visto da Ny Alesund: risultati delle ricerche, nuove proproste e visioni d'insieme, Roma 18-19 marzo 2019

6. Morgana S., Pedone S., **Di Blasi D.**, Faimali M., Garaventa F., 2018. Microplastics off Italian coasts: a comparison between water sampling techniques. Micro2018, Fate and Impact of Microplastics: Knowledge, Actions and Solutions, Lanzarote 19-24 novembre 2018

7. **Di Blasi D.**, 2018. Development of non-invasive technique to monitor the Antarctic toothfish (*Dissostichus mawsoni*) in the frame of the newly approved RSRMPA. Commission for the Conservation of Antarctic Marine Living Resources (CCAMLR), WG-EMM (oral presentation), Cambridge 9-13 luglio 2018

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11. Ghigliotti L., Canese S., Carlig E. **Di Blasi D.**, Ferrando S., Gallus L., Parker S., Pisano E., Vacchi M., 2018. Feed like a toothfish: foraging behavior from *in situ* and *ex situ* analysis. SCAR/IASC Open Science Conference at POLAR2018, Davos 19-23 giugno 2018

12. Molinari A., **Di Blasi D.**, Carlig E., Roccatagliata S., Bernat P., Bava S., 2018. First observations of the artisanal fishery catches inside and outside the Bergeggi Island MPA. 49° Congresso della Società Italiana di Biologia Marina, Cesenatico 4-8 giugno 2018

13. **Di Blasi D.**, Canese S., Carlig E., Ghigliotti L., Parker S., Pisano E., Vacchi M., 2018. Developing a low invasive methodology to sample Antarctic toothfish under the sea-ice of the RSRMPA. XIV Incontro dei Dottorandi e Giovani Ricercatori in Ecologia e Scienze dei Sistemi Acquatici, Genova 9-11 maggio 2018

14. Ghigliotti L., Canese S., Carlig E., **Di Blasi D.**, Pisano E., Parker S., O'Driscoll R., Mormede S., Kim J.H., Vacchi M., 2018. Monitoring Antarctic fish species under the sea-ice cover: challenges and perspectives. Marine Ecosystem Assessment of the Southern Ocean (MEASO) International Conference, Hobart 9-13 aprile 2018

15. **Di Blasi D.**, Carlig E., Ghigliotti L., Pisano E., Stevens D., Vacchi M., Parker S., 2017. Eggs finding and steps forward the knowledge of the biology of the Antarctic toothfish from the First Winter Survey (northern Ross Sea Region, June-July 2016). SCAR Biology Symposium, Leuven 10-14 luglio 2017

16. Carlig E., **Di Blasi D.**, Ghigliotti L., Pisano E., Vacchi M., 2017. Trophic plasticity of the Antarctic silverfish *Pleuragramma antarctica*. SCAR Biology Symposium, Leuven 10-14 luglio 2017

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20. Vacchi M., O'Driscoll R., Bury S., Carlig E., **Di Blasi D.**, Ghigliotti L., Schiapparelli S., Pisano E., 2017. Evidence for mass mortality events of Antarctic Silverfish (*Pleuragramma antarctica*). SCAR Biology Symposium, Leuven 10-14 luglio 2017

21. Ferrando S., Gallus L., Amaroli A., Rottigni M., Carlig E., **Di Blasi D.**, Vacchi M., Parker S., Ghigliotti L., 2017. Chemioreception in the Antarctic toothfish: clues form the morphology and histology of the olfactory organ and bulb. SCAR Biology Symposium, Leuven 10-14 luglio 2017

22. **Di Blasi D.**, Carlig E., Castellano L., Ghigliotti L., Meconi S., Pisano E., Pitzianti G., Vacchi M., 2017. Validazione di una scala per la valutazione della sopravvivenza post-cattura degli elasmobranchi. 48° Congresso della Società Italiana di Biologia Marina, Roma 7-9 giugno 2017

23. Ghigliotti L., Carlig E., **Di Blasi D.**, Faimali M., Pisano E., Vacchi M., 2016. The coastal fish fauna of Terra Nova Bay, Western Ross Sea: from the first baseline information

to the ongoing research on two key species, the Antarctic silverfish and the Antarctic toothfish. CCAMLR WG-EMM - Symposium on Ross Sea Ecosystem, Bologna, Italy

24. Ghigliotti L., Ferrando S., Carlig E., **Di Blasi D.**, Gallus L., Pisano E., Hanchet S., Vacchi M., 2015. Skip spawning as a reproductive strategy in Antarctic fish species: the Antarctic silverfish case study. Front. Mar. Sci. Conference Abstract: XV European Congress of Ichthyology. doi: 10.3389/conf.fmars.2015.03.00071

25. Carlig E., **Di Blasi D.**, Ghigliotti L., 2015. Insights into trophic ecology of the Antarctic silverfish (*Pleuragramma antarctica*) in Antarctic coastal ecosystems. APECS Online International Conference (presentazione orale), 26 marzo 2015

26. **Di Blasi D.**, Carlig E., Chiantore M., Molinari A. and Vacchi M., 2013. Settlement features of juvenile stages of yellowmouth barracuda (*Sphyraena viridensis*) in the Ligurian Sea, 40th CIESM Congress Proceedings, p. 867

Editorial roles

Since 2022

Guest Editor of the Special Issue "Recent Advances in Foraging Behavior of Fish" in the journal Fishes (MDPI).

Languages

English
Reading: Excellent
Speaking: Good
Writing: Good

Computer Skills

Proficient in Microsoft Office suite, statistical analysis software such as Gmav, Primer, and R (RStudio, RCommander), and image analysis software (ImageJ).

Other Experiences

2014-2017
Naturalist Guide at the Genoa Aquarium, the National Museum of Antarctica, and the Galata Sea Museum.

2007-2017
Columnist for sport fishing magazines (Eds. Editrice Acacia and ERREDI Grafiche). Monthly publication of articles, reports, and videos.

2010
Sport Fishing Instructor.

Genoa, 23/06/2025