

## Manfredi Di Lorenzo



Born in Palermo (Italy) on 06/04/1980

Tel.: +39 081 5833774

e-mail: [manfredi.dilorenzo@szn.it](mailto:manfredi.dilorenzo@szn.it); [manfredi.dilorenzo@libero.it](mailto:manfredi.dilorenzo@libero.it)

Skype: manfrodilo

ORCID: 0000-0003-3786-5772

**Current Position:** 3<sup>rd</sup> level Researcher

**Current Affiliation:**

Integrative Marine Ecology Department (EMI), Stazione Zoologica Anton Dohrn, Sicily Marine Centre, Palermo (Italy)

### Education/Training/Experience

Institute and Location	Degree / Function	Year	Field of Study
University of Palermo	Natural Science, Laurea	2007	Biology, Ecology and Geology
University of Salento	Ph.D	2009-2012	Fundamental ecology
CoNISMa	Postdoc	2013	Conservation and marine ecology
Italian National Research Council (CNR-IAMC)	Postdoc	2013-2014	Movement patterns, biology and ecology of elasmobranchs, MPA and marine ecology
Italian National Research Council (CNR-IRBIM)	3 <sup>rd</sup> level Researcher, fixed term	2015-2018	Conservation, MPA and marine ecology
Stazione Zoologica Anton Dohrn, Sicily Marine Centre, Italy	3 <sup>rd</sup> level Researcher	2022-present	Conservation, MPA and marine ecology

## **Appointments and awards**

- 2008 – Post-graduate Grant of the University of Palermo for 6 months’ specialization course abroad (University of La Laguna, Tenerife, Spain).
- 2011 – Award “Roberto Marchetti” for best poster at 21° Congress of the Italian Society of Ecology.
- 2012 – Visiting scientist at “Fisheries and Conservation Lab”, Director Prof. Rick. M. Starr, in Moss Landing Marine Laboratories, California, US (6 months).
- 2015 – Post-doc Grant “Luigi e Francesca Brusarosco” of “Luigi and Francesca Brusarosco association” and “Italian Society of Ecology” for 6 months’ research activity abroad (CNRS Perpignan, France) with Dr. J. Claudet.
- 2015 – Visiting scientist at “CONICET-CENPAT”, Puerto Madryn, Chubut, Argentina for collaboration with Dr. D. Galvan in the RECOMPRA project on the effects of marine reserves on coastal ecosystems

## **Scientific expeditions:**

- 2013-2021 – Participation (30 days per year) to the scientific fishery campaign in the GSA 16 (Strait of Sicily) within the International Bottom Trawl Survey Program (MEDITS).
- 2019 – Participation (40 days) to the scientific expedition at Iles Eparses, Indian Ocean, within the project “Hope to Cope” funded by Terres australes et antarctiques françaises (TAAF).

## **Other**

### **Students’ Supervision**

Co-supervisor of one master thesis student

### **Publications**

Author of 32 publications on ISI-journals

#### ***List of publications of the last 10 years:***

- Cattano C., Calò A., Aglieri G., Cattano P., Di Lorenzo M., Grancagnolo D., Lanzarone D., Principato E., Spatafora D., Turco G., Milazzo M., 2023. Literature, social media and questionnaire surveys identify relevant conservation areas for Carcharhinus species in the Mediterranean Sea. *Biological Conservation*. 277, 109-824. <https://doi.org/10.1016/j.biocon.2022.109824>
- Boscolo Palo G., Di Lorenzo M., Gancitano S., Ragonese S., Mazzoldi C., Colloca F., 2023. Sharks do not always grow slowly: tagging data reveals a different pattern of growth, longevity and maturity for threatened smooth-hounds in the central Mediterranean Sea. *Journal of Marine Science and Engineering*, 2022, 10, 1647. <https://doi.org/10.3390/jmse10111647>
- Nuez I., Giovos I., Tiralongo F., Penadés-Suay J., Cetkovic I., Di Lorenzo M., Kleitou P., Bakiu R., Bradai M.N., Almabruk S.A.A., Naasan R., Spyridopoulou A., Sabbio A., Gazo M., 2023. Assessing the current status of Hexanchus griseus in the Mediterranean Sea using local ecological knowledge. *Marine policy*, 147, 105378 <https://doi.org/10.1016/j.marpol.2022.105378>.

- Scannella D., Bono G., Di Lorenzo M., Di Maio F., Falsone F., Gancitano V., Garofalo G., Luca Geraci M., Lauria V., Mancuso M., Quattrocchi F., Sardo G., Titone A., Vitale S., Fiorentino F., Massi D., 2022. How does climate change affect a fishable resource? Some insights from *Parastichopus regalis* (Cuvier, 1817) in the central Mediterranean. *Frontiers in Marine Science*. doi: 10.3389/fmars.2022.934556.
- Di Lorenzo M., Calò A., Di Franco A., Milisenda G., Aglieri G., Cattano C., Milazzo M., Guidetti P., 2022 Small-scale fisheries bring more endangered elasmobranchs catches inside partially protected areas. *Nature Communications*. 13, 4381. <https://doi.org/10.1038/s41467-022-32035-3>
- Fraschetti S., Fabbrizzi E., Tamburello L., Uyarra M.C., Micheli F., Sala E., Pipitone C., Badalamenti F., Bevilacqua S., Boada J., Cebrian E., Ceccherelli G., Chiantore M., D'Anna G., Di Franco A., Farina S., Giakoumi S., Gissi E., Guala I., Guidetti P., Katsanevakis S., Manea E., Montefalcone M., Sini M., Asnaghi V., Calò A., Di Lorenzo M., Garrabou J., Musco L., Oprandi A., Rilov G., Borja A., 2022. An integrated assessment of the Good Environmental Status of Mediterranean Marine Protected Areas. *Journal of Environmental Management* 305: 114370. <https://doi.org/10.1016/j.jenvman.2021.114370>
- Barbato M., Barría C., Bellodi A., Bonanomi S., Borme D., Četković I., Colloca F., Colmenero A.I., Crocetta F., De Carlo F., Demir E., Di Lorenzo M., Follesa M.C., Garibaldi F., Giglio G., Giovos I., Guerriero G., Ksibi M., Kruschel C., Lanteri L., Leonetti F.L., Ligas A., Madonna A., Matić Skoko S., Mimica R., Moutopoulos D.K., Mulas A., Nerlović V., Hentati O., Pešić A., Porcu C., Riginella E., Sperone E., Tsouknidas K., Tunçer S., Vrdoljak D., Mazzoldi C., 2021. The contributions of fishers' local ecological knowledge (LEK) in reconstructing the behavioural traits and movements of elasmobranchs in the Mediterranean Sea. *Mediterranean Marine Science*. 22(3), 603–622. <https://doi.org/10.12681/mms.25306>
- Di Franco E., Di Franco A., Calò A., Di Lorenzo M., Mangialajo L., Bussotti S., Bianchi C. N., Guidetti P., 2022. Protection measures enhance the positive relation between habitat complexity and fish biomass. *Ecological Indicators*. 128, 107850. <https://doi.org/10.1016/j.ecolind.2021.107850>
- Cattano C., Turco G., Di Lorenzo M., Gristina M., Visconti G., Milazzo M., 2021. Sandbar shark aggregation in the Central Mediterranean Sea and potential effects of tourism. *Aquatic Conservation: Marine and Freshwater Ecosystems*. 31, 1420-1428. <https://doi.org/10.1002/aqc.3517>
- Aglieri G., Baillie C., Mariani S., Cattano C., Calò A., Turco G., Spatafora D., Di Franco A., Di Lorenzo M., Guidetti P., Milazzo M., 2020. Environmental DNA effectively captures functional diversity of coastal fish communities. *Molecular Ecology*, 00:1–13. DOI: 10.1111/mec.15661
- Garofalo G., Quattrocchi F., Bono G., Di Lorenzo M., Di Maio F., Falsone F., Gancitano V., Geraci M.L., Lauria V., Massi D., Scannella D., Titone A., Fiorentino F., 2020. What is in our seas? Assessing anthropogenic litter on the seafloor of the central Mediterranean Sea. *Environmental Pollution*, <https://doi.org/10.1016/j.envpol.2020.115213>

- Colloca F., Carrozzi V., Simonetti A., Di Lorenzo M., 2020. Using Local Ecological Knowledge of Fishers to Reconstruct Abundance Trends of Elasmobranch Populations in the Strait of Sicily. *Frontiers in Marine Science*. 7:508. [https://doi: 10.3389/fmars.2020.00508](https://doi.org/10.3389/fmars.2020.00508)
- Di Lorenzo M., Guidetti P., Di Franco A., Calò A., Claudet J., 2020. Assessing spillover from marine protected areas and its drivers: A meta-analytical approach. *Fish and Fisheries*. 21, 906-915. <https://doi.org/10.1111/faf.12469>
- Di Lorenzo M., Vizzini S., Signa G., Andolina C., Boscolo Palo G., Gristina M., Mazzoldi C., Colloca F., 2020 Ontogenetic trophic segregation between two endangered smooth-hound sharks in the central Mediterranean Sea. *Scientific Reports*. <https://doi.org/10.1038/s41598-020-67858-x>
- Bitetto I., Romagnoni G., Adamidou A., Certain G., Di Lorenzo M., Donnalioia M., Garcia C., Lembo G., Maiorano P., Milisenda G., Musumeci C., Ordines F., Pesci P., Peristeraki P., Pesic A., Sartor P., Spedicato M.T., 2020. Indicators of community size structure in the Mediterranean GSAs: comparisons, alternatives and trends. *Scientia Marina* <https://doi.org/10.3989/scimar.05015.06A>
- Fariols M.T., Ordines F., Carbonara P., Casciaro L., Di Lorenzo M., Esteban A., Follesa C., García C., Isajlovic I., Jadaud A., Ligas A., Manfredi C., Marceta B., Peristeraki P., Vrgoc N., Massutí E., 2019. Spatio-temporal trends in diversity of demersal fish assemblages along the Mediterranean. *Scientia Marina* <https://doi.org/10.3989/scimar.04977.13A>
- Geraci M.L., Di Lorenzo M., Falsone F., Scannella D., Di Maio F., Colloca F., Vitale S., Serena F., 2019 The occurrence of norwegian skate, *Dipturus nidarosiensis* (elasmobranchii: rajiformes: rajidae), in the Strait of Sicily, Central Mediterranean. *Acta Ichthyologica Et Piscatoria* 49 (2): 203–208
- Colloca F., Scannella D., Geraci M.L., Falsone F., Giusto B., Vitale S., Di Lorenzo M., Bono G., 2019. British sharks in Sicily: records of long distance migration of tope shark (*Galeorhinus galeus*) from North-eastern Atlantic to Mediterranean Sea. *Mediterranean Marine Science* , 20(2), 309–313. <https://doi.org/10.12681/mms.18121>
- Agnetta D., Badalamenti F., Colloca F., D'Anna G., Di Lorenzo M., Fiorentino F., Garofalo G., Gristina M., Labanchi L., Patti B., Pipitone C., Solidoro C., Libralato S., 2019. Benthic-pelagic coupling mediates interactions in Mediterranean mixed fisheries. *PlosOne* 14(1): e0210659.
- Guidetti P., Atzori F., Bussotti S., Calò A., Cau A., Culioli J.M., De Lucia A., Di Franco A., Di Lorenzo M., Follesa M.C., Gazale V., Massaro G., Mura F., Navone A., Pala D., Panzalis A., Ruju A., Cau A., 2019. Marine Natura 2000 sites within the wider conservation policy framework: a case study from Sardinia Island (Italy). *Aquatic Conservation: Marine and Freshwater Ecosystems*. 29, 537-545. <https://doi.org/10.1002/aqc.3026>
- Carrozzi V., Di Lorenzo M., Massi D., Titone A., Ardizzone G.D., Colloca F., 2019. Prey preferences and ontogenetic diet shift of European hake *Merluccius merluccius*

(Linnaeus, 1758) in the central Mediterranean Sea. *Regional studies in Marine Science* 25, 100440. <https://doi.org/10.1016/j.rsma.2018.100440>

- Di Franco A., Plass-Johnson J.G., Di Lorenzo M., Meola B., Claudet J., Gaines S.D., García-Charton J.A., Giakoumi S., Grorud-Colvert K., Hackradt C.W., Micheli F., Guidetti P., 2018. Linking home ranges to protected area size: the case study of the Mediterranean Sea. *Biological Conservation*. 221: 175–181. doi: 10.1016/j.biocon.2018.03.012.
- Di Lorenzo M., Sinerchia M., Colloca F., 2017. The North sector of the Strait of Sicily: a biodiversity hotspot. *Hydrobiologia*. 821, 235–253. doi: 10.1007/s10750-017-3389-7.
- Colloca F., Enea M., Ragonese S., Di Lorenzo M., 2017. A century fishery data documenting the collapse of commercial sharks in Mediterranean Sea. *Aquatic Conservation: Marine and Freshwater Ecosystems* 27: 1145–1155. doi 10.1002/aqc.2789.
- Marino I.A.M., Finotto L., Colloca F., Di Lorenzo M., Gristina M., Farrell E.D., Zane L., Mazzoldi C., 2017. Resolving the ambiguities in the identification of two smooth-hound sharks (*Mustelus mustelus* and *Mustelus punctulatus*) using genetics and morphology. *Marine Biodiversity* doi: 10.1007/s12526-017-0701-8.
- Di Lorenzo M., Claudet J., Guidetti P., 2016. Spillover from marine protected areas to adjacent fisheries has an ecological and a fishery component. *Journal for Nature Conservation* 32: 62–66. <https://doi.org/10.1016/j.jnc.2016.04.004>
- Di Lorenzo M., Vega Fernández T., Badalamenti F., Guidetti P., Starr R. M., Giacalone V.M., Di Franco A., D’Anna G., 2016. Diel activity and variability in habitat use of white sea bream in a temperate Marine Protected Area. *Marine Environmental Research*. 116, 1-9. doi: 10.1016/j.marenvres.2016.02.007.
- Ape F., Arigo C., Gristina M., Genovese L., Di Franco A., Di Lorenzo M., Baiata P., Aglieri G., Milisenda G., Mirto S., 2015. Meiofaunal diversity and nematode assemblages in two submarine caves of a mediterranean marine protected area. *Mediterranean Marine Science* doi: 10.12681/mms.1375.
- Di Lorenzo M., D’Anna G., Badalamenti F., Giacalone V.M., Starr R.M., Guidetti P., 2014. Fitting the size of marine reserves to movement patterns of protected species: a case study on the white seabream (*Diplodus sargus sargus*) in the Mediterranean Sea. *Marine Ecology Progress Series*, 502: 245-255. doi: 10.3354/meps10723
- Di Franco A., Kaicheng Q., Calò A., Di Lorenzo M., Planes S., Guidetti P., 2013. Patterns of variability in early life traits of a Mediterranean coastal fish. *Marine Ecology Progress Series*, 476: 227-235
- Di Franco A., Di Lorenzo M., Guidetti P., 2013. Spatial patterns of density at multiple life stages in protected and fished conditions: an example from a Mediterranean coastal fish. *Journal of Sea Research*, 76: 73-81.
- Bonaviri C., Vega Fernández T., Badalamenti F., Gianguzza P., Di Lorenzo M., Riggio S., 2009. Fish versus starfish predation in controlling sea urchin populations in Mediterranean rocky shores. *Marine Ecology Progress series*, 382: 129-138.

Divulgative books and technical report

Guidetti P., Planes S., Bussotti S., Di Franco A., Di Lorenzo M., Sahyoun R., Tolou N., 2012. Designing networks of Marine Protected Areas in the Mediterranean context. Total Foundation, Booklet: 8 pp

Co.R.I.S., 2012. Guida alla natura di Ustica. Collana: coste e isole della Sicilia. volume 3: 112 pp. Italian, english and french version.