

Curriculum vitae

PERSONAL INFORMATION

Family name, First name: Quattrocchi Federico

Researcher unique identifier(s) <https://orcid.org/0000-0002-2030-5640>

Date of birth: omissis

Nationality: Italian

• EDUCATION

- 2017 PhD in Marine Science
Polytechnic university of Catalunya/ Department of Civil and Environmental Engineering/
Barcelona/Spain
- 2012 II level Master in GIS and Remote Sensing for geo-environmental planning
Department of geological sciences /University of Rome 3/Italy
- 2010 Master Degree in Marine Biological Resources
Faculty of mathematical, physical and natural sciences/ University of Palermo/Italy

• CURRENT POSITION(S)

- 2021 Postdoctoral Position
Institute for Biological Resources and Marine Biotechnologies of the National Research
Council (CNR-IRBIM)/Mazara del Vallo (TP)/ Italy

• PREVIOUS POSITIONS

- 2017-2020 Postdoctoral Position
Institute for Biological Resources and Marine Biotechnologies of the National Research
Council (CNR-IRBIM)/Mazara del Vallo (TP)/ Italy

• FELLOWSHIPS

- 2020 Short term mobility award provided by the National Research Council (CNR)/Italy
To perform at the Oceanographic Center of the Balearic Islands of the Spanish Institute of
Oceanography (IEO)/Mallorca/Spain
- 2015 – 2017 Advanced technician position provided by the MINOUW (H2020) project ‘*Science,
Technology, and Society Initiative to Minimize Unwanted Catches in European Fisheries*’/ ICM-
CSIC Institut de Ciències del Mar / Barcelona /Spain
- 2014 – 2015 Fellowship provided by RITMARE Project on “Demersal fish Stock
identification”/Institute of Coastal Marine Environment of the National Research Council
(IAMC-CNR)/Mazara del Vallo (Italy)/Italy
- 2011 Fellowship for abroad specialization, provided by Palermo
University (UNIPA)/Italy
Performed at the Murcia University / Department: Ecology and Hydrology/ Ecology and
Management of Coastal Marine Ecosystems laboratory/Spain

• RESEARCH PROJECTS PARTICIPATION

- 2017 – 2020 Research collaboration in the European DCR and DCF on Fisheries. Italian National
Program (PLRNDA)
- 2015-2017 Research collaboration in the MINOUW: “Science, Technology, and Society initiative to
minimize Unwanted Catches in European Fisheries
- 2014-2015 Research collaboration in the Osservatorio della Biodiversità della Sicilia
- 2013-2014 RITMARE – la Ricerca Italiana per il MARE

• OTHER JOB ACTIVITIES

- 2020 Contract of Occasional work (1 month)
Within the MARINE STRATEGY FRAMEWORK project, provided by CoNISMa (National Interuniversity Consortium for Marine Sciences)/Italy
- 2018 Collaboration (five months) in the project FishMPAblue2 (Fishers and marine protected areas, a partnership for sustainability in the Mediterranean) of the Interreg Euro-MED Programme
- 2012 Employment contract (6 months)
Overit S.r.l/Rome/Italy
- 2011 Contract of Occasional work (2 months)
Within the MedSeA (Mediterranean Sea Acidification) project provided by CoNISMa (National Interuniversity Consortium for Marine Sciences)/Italy

Publications

Pierri, C., Cardone, F., Corriero, G., Lazic, T., **Quattrocchi, F.**, Alabiso, G., & Gristina, M. (2021). Density decline in a Mediterranean seahorse population: natural fluctuations or new emerging threats?. *Frontiers in Marine Science*, 1177.

Spatafora, D., **Quattrocchi, F.**, Cattano, C., Badalamenti, F., & Milazzo, M. (2021). Nest guarding behaviour of a temperate wrasse differs between sites off Mediterranean CO₂ seeps. *Science of The Total Environment*, 799, 149376.

Davide Spatafora , Gloria Massamba N'Siala , **Federico Quattrocchi** , Marco Milazzo , Piero Calosi. "Plastic adjustments of biparental care behaviour across embryonic development under elevated temperature in a marine ectotherm (2021). *Ecology and Evolution*". DOI: 10.1002/ece3.7902.

Clavel-Henry, M., Piroddi, C., **Quattrocchi, F.**, Macias, D., & Christensen, V. (2020). Spatial Distribution and Abundance of Mesopelagic Fish Biomass in the Mediterranean Sea. *Frontiers in Marine Science*, 7, 1136.

Garofalo, G., **Quattrocchi, F.***, Bono, G., Di Lorenzo, M., Di Maio, F., Falsone, F., ... & Fiorentino, F. (2020). What is in our seas? Assessing anthropogenic litter on the seafloor of the central Mediterranean Sea. *Environmental Pollution*, 266, 115213.

*Corresponding author

Cattano, C., Agostini, S., Harvey, B. P., Wada, S., **Quattrocchi, F.**, Turco, G., ... & Milazzo, M. (2020). Changes in fish communities due to benthic habitat shifts under ocean acidification conditions. *Science of The Total Environment*, 725, 138501.

Quattrocchi, F., Fiorentino, F., Lauria, V., & Garofalo, G. (2020). The increasing temperature as driving force for spatial distribution patterns of *Parapenaeus longirostris* (Lucas 1846) in the Strait of Sicily (Central Mediterranean Sea). *Journal of Sea Research*, 158, 101871.

Federico Quattrocchi, Giovanni D'Anna, Fabio Fiorentino, Antonino Titone, Arturo Zenone, Germana Garofalo. Phenotypic variation across populations of red mullet (*Mullus barbatus*) in different environments of the central Mediterranean. *Marine and Freshwater Research*, (2020)

Cattano C., Fine M., **Quattrocchi F.** , Holzman R, Milazzo M. Behavioural responses of fish groups exposed to a predatory threat under elevated CO₂. *Marine environmental research* 147 (2019): 179-184

Marco Milazzo; Cinzia Alessi; **Federico Quattrocchi**; Renato Chemello; Riccardo D'Agostaro; João Gil; Maurizio Vaccaro; Simone Mirto; Michele Gristina; Fabio Badalamenti. Biogenic habitat shifts under long-term ocean acidification show nonlinear community responses and unbalanced functions of associated invertebrates. *Science of The Total Environment* 667 (2019): 41-48

Garcia-de-Vinuesa, A., Sola, I., **Quattrocchi, F.**, Maynou, F., & Demes, M. Linking trawl fleet dynamics and the spatial distribution of exploited species can help to avoid unwanted catches: the case of the NW Mediterranean fishing grounds. (2018). *Scientia Marina*. Impact factor: 1.18.

Quattrocchi F., Maynou F. Spatial Structures and Temporal Patterns of the purse seine fishing effort in the NW Mediterranean Sea estimated by the use of VMS data (2018). *Fisheries management and ecology*.

Quattrocchi F., Maynou F. Environmental drivers of sardine (*Sardina pilchardus*) LPUE in the Catalan Sea (NW Mediterranean Sea) (2017). *Marine Biology Research* 1-12.

Cattano, C., Calò, A., Di Franco, A., Firmamento, R., **Quattrocchi, F.**, Sdiri, K., Guidetti, P., Milazzo, M. Ocean acidification does not impair predator recognition but increases juvenile growth in a temperate wrasse off CO₂ seeps (2017). *Marine environmental research*.

Quattrocchi F., Mamouridis V, Maynou F.. Occurrence of adult anchovy in Catalonia (NW Mediterranean) in relation to sea surface conditions (2016). *Scientia Marina*. 80:457.

Milazzo M, **Quattrocchi F.**, Azzurro E, Palmeri A, Chemello R, Di Franco A, Guidetti P, Sala E, Sciandra M, Badalamenti F, García-Charton JA. (2016). Warming-related shifts in the distribution of two competing coastal wrasses. *Marine environmental research* 120 (2016): 55-67

Publications Under review

F. Gargano, G. Garofalo, **F. Quattrocchi**, F. Fiorentino. Where do recruits come from? Backward Lagrangian simulation for the deep water rose shrimps in the Central Mediterranean Sea. (Under review in *Fisheries Oceanography*)

F. Quattrocchi, F. Fiorentino, F. Gargano, G. Garofalo. The role of larval transport in recruitment dynamic of red mullet (*Mullus barbatus*) in the Central Mediterranean Sea. . (Under review in *Fisheries Oceanography*)

F. Quattrocchi, G. Garofalo. Revealing environmental synchronicity that enhances anchovy recruitment in the Mediterranean sea (under review In Scientific Report)

Federico Quattrocchi
21/09/2021 Palermo