Simone Farina

Researcher
SZN-Stazione Zoologica Anton Dohrn Napoli
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Education

Ph.D., Marine Ecology ***Spain***; ***2015***

Official PhD program at the Faculty of Biology, Barcelona University.

Thesis: "Scale-dependent factors modulate sea urchin predation in macrophyte ecosystems".
Advisors: Teresa Alcoverro (CEAB-CSIC) and Javier Romero (University of Barcelona).
http://hdl.handle.net/2445/68396

M.Sc., Essential and Applied Ecology/Specialty Systems marines® ***Spain; 2012***

O*fficial Postgraduate Program at the Faculty of Biology, Barcelona University.*

Thesis: "Is the strength of predator-prey interactions in macrophyte communities driven by habitat structure or regional differences in predator guilds?"
Advisors: Teresa Alcoverro (CEAB-CSIC) and Marta Perez (University of Barcelona).

B.Sc., Marine Environmental Sciences ***Italy; 2004***

Faculty of Environmental Sciences, Genoa University.

Thesis: "Dynamics and distributions of microbial and meiobenthic communities in the beach ecosystem of "Parco Regionale della Maremma (Toscany, Italy)".
Advisor: Mauro Fabiano (University of Genoa).

Research interests

My research's aims are to study the effects of human impact on marine benthic ecosystems. I'm particularly interested in evaluating trophic interactions that involved keystone predators, meso-predators, dominant species, habitat modifiers and complexity structure of habitat in macrophyte communities.
To do so, I carry out removal/exclusion experiments and monitoring activities of species abundance, integrating results with existing historical data in relation with local impacts and climate change. In particular, I attempt to highlight the effects of fishing and aquaculture activities beside

that of increasing of ocean acidification and temperature on wild populations and community structure.
I also attempt to evaluate relationships among ecological processes influencing the population dynamic of functional species, environmental conditions (e.g. hydrodynamic or geomorphological features) and habitats used for anthropogenic activities (high fishing areas, Marine Protected Areas, areas of aquaculture farms, urbanized areas). I'm also interest in animal behaviour in terms of spatial distribution in response to human activities. One of my main goals would be to contribute in creating ecosystemic models for sustainable artisanal fishing in the framework of the Marine Spatial Planning. Finally, I think that large-scale data acquisition approaches such as Citizen and Science and Local Ecological Knowledge will permit to forge great collaborations with people

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Professional Experience

Stazione Zoologica Anthon Dohrn (SZN) ***Italy;* 2020-*present***

Researcher

International Marine Centre (Fondazione IMC) ***Italy; 2013-2019***

Temporary Research Fellow-

2019-2020 (collaborator). Agreement on the monitoring program of sea urchin (*Paracentrotus lividus*) entrusted to *Agris* with resolution of the Regional Council n ° 37/24 of 1.8.2017 and n. 53/18 of 11.28.2017.

2019-2020 (coordinator). Citizen Science project *"Pinna nobilis: ricerca per la sopravvivenza"* to monitoring survived specimens. Funded by IMC, Sardinia Region and Marine Protetcted Areas.

2018-2019 (collaborator). Agreement with the Marine Protected Area "Penisola del Sinis Isola di Mal di Ventre" for the implementation of monitoring and research activities on marine and coastal environmental components (*Posidonia oceanica* meadows and sea urchin *Paracentrotus lividus*).

2018-2019 (coordinator). Agreement on the monitoring program on marine and coastal environmental components - larval dispersal and recruitment of the sea urchin (*Paracentrotus lividus*)". Funded by of the Marine Protected Area of Penisola del Sinis - Isola di Mal di Ventre

2017-2020 (collaborator). GIREPAM project - Integrated Management of Ecological Networks through Parks and Marine Areas" funded by the European Community (OP Italy - France "Maritime" 2014-2020), aimed at identifying a common integrated cross-border management strategy and develop common solutions to the most important management problems in the cooperation area.

2017-2018 (collaborator). Agreement on the monitoring program of sea urchin (*Paracentrotus lividus*) in the Marine Protected Area of Tavolara - Punta Coda Cavallo. Funded by the Marine Protected Area of Tavolara - Punta Coda Cavallo.

2017-2018 (collaborator). Agreement on the monitoring program on marine and coastal environmental components - larval dispersal and recruitment of the sea urchin (*Paracentrotus lividus*)". Funded by of the Marine Protected Area of Penisola del Sinis - Isola di Mal di Ventre

2017-2018 (collaborator). Activity plan ex Law 37/98 art. 26, year 2017 "Evaluation of the effects of climate change and human activities on aquatic species of ecological and commercial interest in the territory of Sardinia"

2016-2017 (collaborator). Marine Strategy Framework Directive (2008/56 CE), Modules 7 (Coral Hygiene) and 8 (Habitat Funds Maher / rodolite)" in accordance with the agreement between Sardegna Ricerche and the Regional Agency for the Protection of the Environment of Sardinia (ARPAS) and with the Protocols of Understanding between the Ministry of the Environment and Protection (MATTM) and Regions.

2013-2015 (collaborator). "Promotion of scientific research and technological innovation in Sardinia Island. Management and development of sea urchin *Paracentrotus lividus*: experimental study on reproductive capacity, recruitment and impact of human recollection on population dynamic. Funded by Sardinia Region, Law n. 7 of 07.08.2007."

Centre for Advanced Studies of Blanes (CEAB-CSIC) ***Spain; 2005-2013***

technician and PhD student

2013-2015 (PhD thesis). I examined the structure of the habitat can mediate tri-trophic interactions fish- sea urchins-macrophyte and how they differ with spatial scale. I began by exploring variation of predation pressure on functional herbivore *Paracentrotus lividus* in relation to *Posidonia oceanica* structure complexity. I carried this work forward by comparing relative rates of predation across a gradient of increasing habitat structure (turf habitats, macroalgal habitats, low structured seagrass and high structured seagrass). I compared predation patterns on different species of sea urchins across three different regional seascapes — the Caribbean, Western Mediterranean and Western Australia — each with their own unique guild of fish and benthic predators. Finally, I studied the influence of habitat spatial organization (patch configuration, the spatial relationship between patches, aggregation patterns, etc.) on predator-prey interactions.

2005-2001. Evaluation of the quality of littoral waters in Catalonia (Spain) using a vigilant net based on biological indicators of seagrass Posidonia oceanica (European directive WDF 2000/60/EC). The team from the Department of Ecology at the University of Barcelona has developed at the request of the ACA (Catalan Water Agency) a biotic index based on the seagrass *Posidonia oceanica* and its ecosystem, called POMI (Posidonia Multivariate Index). The mentioned index is based on a multivariate approach to measuring structural and functional attributes at different organizational levels (physiological, individual, population ...) of the seagrass ecosystem. The aim of this index is to furnish an appropriate methodology to classify coastal waters ecological status as required by the Water Framework Directive (WFD) from the seagrass or angiosperms are considered biological quality elements (BQE) on the same directive. During this project I carried out several scientific scuba diving approaches, morphologic and epiphytes analysis, metal (Fe, Zn, Mn, Cu, Pb) and reserve carbohydrates analysis, Total C-N-S, C-N isotopic trace in leaves, C-N-S isotopic trace in rhizomes, epiphytes nutrients (C-N isotopic traces).

Edith Cowan University (ECU) ***Western Australia; Feb.-May 2010***

Field and lab experiences

Exploration of local predator-prey interactions in macrophyte ecosystems of Indian Ocean reef. Comparison with the Mediterranean Sea.

Xatrac Environmental Association ***Spain; 2008-present***

Cofounder member

Educational programs and divulgation projects about environmental changes and Mediterranean seagrass conservation.

Applied Ecology Department, Genova University (Dip.Ter.Ris.) ***Italy; 2003-2004***

graduate Student

Meiofaunal extraction and identification of principal taxa. Biochemical analysis of water and sediment samples: lipid, carbohydrate, protein, chlorophyll-a vand phaeopigment, light and epi-fluorescence microscopy. Microbiological analysis of total bacterial count and biomass estimation, heterotrophic enzymatic activities.

Participation to the Oceanographic cruise “Sirena 2003” on the R/V Magnaghi, including CTD measurements, Rosette descent, recovery and filtration of water for microbiological analysis.

Fellowships and awards

Student fellowship ***Spain; 2005-2006***

Post-graduate fellowship associated to a project (WDF 2000/60/EC).

Introductive knowledge about *Posidonia oceanica*. Experimental works with seagrass herbivores and their relations with fish predators. Basic investigation on the effect of macrophyte structural complexities on local predator-prey interaction and of the trophic chain in *Posidonia oceanica* ecosystems.

Stage EU Leonardo ***Spain; 2004-2005***

European Region Action Scheme for the Mobility of post-graduate Students

Program fellowship from Genoa University.

Stage EU Erasmus ***Spain; 2000-2001***

European Region Action Scheme for the Mobility of University Students

Program fellowship from Genoa University.

Oral presentation

Posterity values coastal cultural ecosystem services in Sardinia, Italy. David Cabana, Nicholas Barbieri, **Simone Farina**, Daniele Grech, Ivan Guala. Ecosystem Services World Conference 2019, 10 years advancing ecosystem services science, policy and practice for a sustainable future. ESP 10 Hanover, 21-25 October 2019.

Asnaghi V., Chindris A., Leggieri F., Scolamacchia M., Guala I., Brundu G., Loi B., Chiantore M., **Farina S**. Ocean acidification effects on top-down control of the key species *Paracentrotus lividus* in marine benthic ecosystems. XXIX Congresso Società Italiana di Ecologia, Ferrara (Italy), 10-12 Settembre 2019.

Farina S., Chindris A., Leggieri F., Scolamacchia M., Guala I., Brundu G., Loi B., Asnaghi V. Ocean acidification effects on top-down control of the functional species *Paracentrotus lividus* in marine benthic ecosystems. 54th European Marine Biology Symposium, Dublin (Ireland), 25-29 August 2019.

Simone Farina, Romero Javier, Ceccherelli Giulia, Guala Ivan, Alcoverro T. Seascape factors modulate sea urchin predation in macrophyte ecosystems. International Association Landscape Ecology 2019, Milan (Italy), 1-5 July 2019.

Simone Farina, Marco Masala, Ivan Guala, Chiara Roselli, Luigi Piazzi, Pieraugusto Panzalis, Augusto Navone, Giulia Ceccherelli. Roving predators extend the reserve effect on sea urchins beyond the boundaries of a Marine Protected Area. XXVIII Congresso della Società italiana di ecologia, Cagliari (Italy), 12-14 September 2018.

Fallati L., Grech D., **Farina S**., Savini A., Guala I. Testing the potential of a consumer-grade drone for high-resolution cartography of littoral rocky-shore communities. XXVIII Congresso Società Italiana di Ecologia, Cagliari (Italy), 12-14 September 2018.

Simone Farina, Giovanni Quattrocchi, Ivan Guala, Andrea Cucco. Residual surface circulations switch-on sea urchin recruitment along the Sinis coastline (Sardinia-Italy). XXVII Congresso della Società italiana di ecologia, Naples (Italy), September 2017.

Simone Farina, Aitana Oltra, Jordi Boada, Fedric Bartumeus, Javier Romero, Teresa Alcoverro. Generation and maintenance of predation hot-spots of keystone species in fragmented marine landscapes. 1° Congresso Congiunto SITE-UZI-SIB, Milan (Italy), Agust 2016.

Simone Farina, Silvia Oliva, Ivan Guala, Rodrigo Silva, Luigi Piazzi, Matteo Spanu, Giulia Ceccherelli. Landscape configuration of seagrass meadows regulates sea urchins predation in a Marine Protected Area: what is the role of bottom predators? IV *Mediterranean Seagrass Workshop*, Oristano (Italy), May 2015. DOI: 10.7287/PEERJ.PREPRINTS.982.

Farina S, Pagès JF, Arthur R, Vergés A, Prado P, Romero J, Hyndes G, Heck K, Alcoverro T. The role of macrophyte structure in mediating predation: a refuge or a source of predators? XVII *Simposio Iberico de Estudios de la Biologia Marina*, San Sebastián (Spain), October 2012.

Prado P, Pinna S, **Farina S**, Tomas F, Ceccherelli G, Roca G, Romero J, Alcoverro T. Importance of spatial scale in sea urchin larval supply on two Mediterranean benthic communities. 2° *Mediterranean Seagrass Workshop*, Hvar (Croatia) September 2009.

Farina S, Tomas F, Prado P, Romero J, Alcoverro T. Role of predation in determining sea urchin size structure in seagrass meadows. 1° *Mediterranean Seagrass Workshop*, Valletta (Malta), September 2006.

Posters

Carella F., **Farina S.**, Miele C., Guala I., Grech D., Zupo V., De Vico G., 2019. Studio preliminare dei casi di mortalita' di ricci (*Paracentrotus lividus*) in Campania e Sardegna: la bald disease. XXV Convegno Nazionale Società Italiana Patologia Ittica (SIPI), Gaeta (Italy), 10-12 October 2019.

Cardella A., Loi B., **Farina S.**, Grech D., Bernabè D., Guala I. Variability of *Paracentrotus lividus* gonad development in the Sinis Marine Protected Area (Western Sardinia, Italy). XXVIII Congresso Società Italiana di Ecologia, Cagliari (Italy), 12-14, September 2018.

Bernabè D., Guala I., Cardella A., Grech D., **Farina S.** Distribution and abundance of Paracentrotus lividus larvae and settlers in the Sinis Marine Protected Area (western Sardinia, Italy). XXVIII Congresso Società Italiana di Ecologia, Cagliari (Italy), 12-14 September 2018.

Leggieri F., Chindris A., Scolamacchia M., Asnaghi V., Brundu G., Guala I., Loi B., **Farina S.** Could Ocean acidification increase predation risk of the functional key-species Paracentrotus lividus in the Mediterranean Sea? XXVIII Congresso Società Italiana di Ecologia, Cagliari (Italy), 12-14 September 2018.

Ceccherelli G., Caronni S., Cinti M.F., Grech D., Guala I., **Farina S**., Navone P., Panzalis P., Piazzi L., Navone A., 2018. Spread of a parasite infection: Pinna nobilis mass mortality in Tavolara Punta Coda Cavallo Marine Protected Area. XXVIII Congresso Società Italiana di Ecologia, Cagliari (Italy), 12-14 September 2018.

Brambilla W., Coppa S., Guerzoni S., Massaro G., Brundu R., De Falco G., Carrara P., Lanucara S., De Lucia A., **Farina S**. Preserving and sharing geospatial data to enhance the sustainable management of biological resources in the Sinis Marine Protected Area, Sardinia. Associazione Italiana di Oceanografia e Limnologia XXIII, Cagliari (Italy), September 2017.

Guala I., Magnani L., **Farina S**., Piazzi L., Oliva S., Pires Da Silva R., Ceccherelli G. Out of frying pan into the fire is protection harmful to sea urchins hidden in seagrass meadows? Società Italiana di Biologia Marina XL VII, Torin (Italy), June 2016.

Alcoverro T, **Farina S**, Roca G, Romero J. The use of seagrass bioassays as a management tool. 2° Mediterranean Seagrass Workshop, Hvar (Croatia) September 2009.

Scientific publications

Brundu G., **Farina S.** and Domenici P. Going back into the wild: the behavioural effects of raising sea urchins in captivity. Conservation Physiology. *In press*

Carella F., Antuofermo E., **Farina S.**, Salati F., Mandas D., Prado P., Panarese R., Marino F., Fiocchi E., Pretto T. and De Vico G. (2020) In the Wake of the Ongoing Mass Mortality Events: Co-occurrence of Mycobacterium, Haplosporidium and . Other Pathogens in Pinna nobilis Collected in Italy and Spain (Mediterranean Sea). Frontiers in Marine Science. https://doi.org/10.3389/fmars.2020.00048

Farina S., Quattrocchi G., Guala I., Cucco A. (2018) Hydrodynamic patterns favouring sea urchin recruitment in coastal areas: A Mediterranean study case. Marine Environmental Research. doi.org/10.1016/j.marenvres.2018.05.013

Boada J., **Farina S**., Arthur R., Romero J., Prado P., Alcoverro T. (2018)
Herbivore control in connected seascapes: habitat determines when population regulation occurs in the life history of a key herbivore. Oikos. doi 10.1111/oik.05060

Farina S., Oltra A., Bartumeus F., Boada J., Romero J., Alcoverro T. (2017) Generation and maintenance of predation hotspots of functionally important herbivore in a patchy habitat mosaic. Functional Ecology. doi 10.1111/1365-2435.12985

Roca G., Romero J., **Farina S**., Martinez-Crego B., Alcoverro T. (2017) Using seagrasses to identify local and large-scale trends of metals in the Mediterranean Sea. Marine Pollution Bulletin. doi 10.1016/j.marpolbul.2017.09.021

Loi B., Guala I., Pires da Silva R., Brundu G., Baroli M., **Farina S**. (2017) Hard time to be parents? Sea urchin fishery shifts potential reproductive contribution of population onto the shoulders of the youngest. PeerJ 5:e3067; DOI 10.7717/peerj.3067

Farina S., Guala I., Oliva S., Piazzi L., Silva R., Ceccherelli G. (2016) The seagrass effect turned upside down changes the prospective of sea urchin survival and landscape implications. PLoS ONE 11(10): e0164294. doi:10.1371/journal.pone.0164294

Oliva S., **Farina S**., Pinna S., Guala I., Agnetta D., Ariotti P.A., Mura F., Ceccherelli G. (2016) Determinants of *Paracentrotus lividus* sea urchin recruitment under oligotrophic conditions: implications for conservation management. Marine Environmental Research 117: 13-20

Boada J., Arthur R., **Farina S.**, Santana Y., Mascaró O., Romero J., Alcoverro T. (2015) Hotspots of predation persist outside marine reserves in the historically fished Mediterranean Sea. Biological Conservation 191:67-74. doi: 10.1016/j.biocon.2015.06.017

Roca G., Alcoverro T., de Torres M., Manzanera M., Martínez-Crego B., Bennett S., **Farina S.**, Pérez M., Romero J. (2015) Detecting water quality improvement along the Catalan coast (Spain) using stress-specific biochemical seagrass indicators. Ecological indicators 54: 161-170. 10.1016/j.ecolind.2015.02.031

Gera A., Pages J., Arthur R., **Farina S**., Roca G., Romero J., Alcoverro T. (2014) The effect of a centenary storm on the long-lived seagrass *Posidonia oceanica*. Limnology and Oceanography 59(6): 1910-1918. doi:10.4319/lo.2014.59.6.1910

Roca G., Romero J., Columbu S., **Farina S.**, Pages J.F., Gera A., Inglis G., Alcoverro T. (2014) Detecting the impacts of harbour construction on a seagrass habitat and its subsequent recovery. Ecological Indicators 45: 9-17. doi.org/10.1016/j.ecolind.2014.03.020

Farina S., Arthur R., Pages J., Prado P., Romero J., Verges A., Hyden G., Heck jr K.L., Glenos S., Alcoverro T. (2014). Difference in predator composition alters the direction of structure-mediated predation risk in macrophyte communities. Oikos 123(11): 1311-1322. doi: 10.1111/oik.01382

Pagès JF, Gera A, Romero J, **Farina S**, Garcia-Rubies A, et al. (2013) The Mediterranean Benthic Herbivores Show Diverse Responses to Extreme Storm Disturbances. PLoS ONE 8(5): e62719. doi:10.1371/journal.pone.0062719

Pages J., **Farina S**., Gera A., Arthur R., Romero J., Alcoverro T. (2012). Indirect interactions in seagrasses: fish herbivores increase predation risk to sea urchins by modifying plant traits. Functional Ecology. doi: 10.1111/j.1365-2435.2012.02038.x.

Prado P., Tomas F., Pinna S., **Farina S.**, Roca G., Ceccherelli G., Romero J. & Alcoverro T. (2012). Habitat and Scale Shape the Demographic Fate of the Keystone Sea Urchin *Paracentrotus lividus* in Mediterranean Macrophyte Communities. PlosONE 7(4): e 35170doi:10.1371/journal.pone. 00351700.

Farina S., Tomas F., Prado P., Romero J., Alcoverro T. (2009) Seagrass meadow structure alters sea urchin-predator interactions. Marine Ecology Progress Series 377:131-137.

Prado P., **Farina S.**, Tomas F., Romero J., Alcoverro T. (2008) Marine protection and meadow size alter fish herbivory in seagrass ecosystems. Marine Ecology Progress Series 371:11-21.

Conference paper

Grech, D., Fallati, L., **Farina S.,** Cabana, D., Guala, I. (2019). Marine Forests (Fucales, Ochrophyta) in a low impacted Mediterranean coastal area: current knowledge and future perspectives. INPUT aCAdemy 2019 (in press).

Guala I., Grech D., Masala M., Roselli C., Brundu G., Alvarez Raya C., Panzalis P., Navone A., **Farina S.** - Is sustainable fishery of sea urchins a chimera in effective marine protected areas? Biologia Marina Mediterranea (in press).

Grech D., Fallati L., **Farina S.**, Guala I. 2019. The matrix reloaded: CARLIT assessment ten years later in the Sinis coast (Sardinia, Italy) coupled with drone technology. In: UNEP/MAP – SPA/RAC, 2019. Proceedings of the 6th Mediterranean Symposium on Marine Vegetation (Antalya, Turkey, 14-15 January 2019). LANGAR H., OUERGHI A., edits, SPA/RAC publi., Tunis: 53-58.

Loi B., **Farina S.**, Brundu G., Guala I., Baroli M., 2015. Reproductive cycle of *Paracentrotus lividus* at two Sardinian coastal areas. Biologia Marina Mediterranea, 22(1): 97-98.

Fabiano M., **Farina S.**, Marin V., Moreno M., Salvo VS. (2005) Microbial and meiofaunal communities of beach ecosystem in the Maremma Regional Park (Italy). The Mediterranean Coastal Areas from Watershed to the Sea: Interactions and changes: MEDCORE Project International Conference, Florence, Italy, 10-14 November 2005. p. 41.

Moreno M., Granelli V., **Farina S.**, Marin V., Salvo VS. and Fabiano M. (2004). Spatial distribution of meiofauna along a steep environmental beach gradient of the Tyrrhenian sea

(NW Mediterranean). TWIMCO - Twelfth International Meiofauna Conference, Luglio 2004, Ravenna (Italy), pag. 54

Publications in preparation

Pereda-Briones L., Tuya F., Royo L., Combes V., Ballesteros E., Clemente S. Edery G., Espino F., **Farina S**., Fernandez Y., Gerovasileiou V., Guala I., Ivesa L., Sini M., Procaccini G., Terrados J., Marín-Guirao L., Tomas F. Resilience to heatwaves of a foundation species is modulated by local thermal variation: evidence from adaptation of seagrass seedlings. Submitted.

Grech, D, Guala, I, Salati, F, Brundu, R, Cristo, B, Panzalis, P, **Farina, S**. Sibling Bald Sea Urchin Disease affecting the edible P. lividus (Echinodrmata: Echonidea) in Sardinia (Italy). Submitted

Farina S., Brambilla W., Coppa S., Cucco A., Baroli M., Brundu R., Conforti A., de Falco G., de Lucia G.A., Guala I., Massaro G., Romagnoni G., Guerzoni S. The challenge of managing the commercial harvesting of the Paracentrotus lividus: are novel approaches required? In prep.

Asnaghi V., Chindris A., Leggieri F., Scolamacchia M., Brundu G., Guala I., Loi B., **Farina S.** Ocean acidification effects on top-down control of the functional species *Paracentrotus lividus* in marine benthic ecosystems. In prep.

Farina S., Grech D., Guala I., Piazzi L., Panzalis P., Navone A., Checcherelli G. Do fishing farms extend hotspots of predation outside marine reserves? In prep.

Cabana D., Barbieri N., **Farina S.**, Grech D., Guala I. Posterity values coastal cultural ecosystem services in Sardinia, Italy. In prep.

Technical reports

Leggieri F., Chindris A., Scolamacchia M., Asnaghi V., Brundu G., Loi B., Guala I., Chiantore M., **Farina S**. 2020. Valutazione degli effetti dell'acidificazione sulla predazione del riccio di mare *Paracentrotus lividus*. Rapporto Tecnico Fondazione IMC – Centro Marino Internazionale ONLUS, CUP G87G17000070002.

Guala I., Cardella A., Grech D., Bernabè D., Loi B., Brundu G., **Farina S**., 2019. Valutazione della variabilità spaziale dell'insediamento di *Paracentrotus lividus* lungo la Penisola del Sinis. Rapporto Tecnico Fondazione IMC – Centro Marino Internazionale ONLUS, 2: 2019, 25 pp.

Guala I., Grech D., Masala M., Roselli C., Piazzi L., Ceccherelli G., Alvarez Raya C., Brundu G., **Farina S**., 2018. Monitoraggio della popolazione di Paracentrotus lividus nell'Area Marina Protetta Tavolara Punta Coda Cavallo. Rapporto Tecnico Fondazione IMC – Centro Marino Internazionale ONLUS, 2: 2018, 30 pp.

Guala I., Navarro-Pérez M.L., Secci G., Lukianova I., Borras Palomares A.I., Andrades Carles L., Brambilla W., **Farina S**., 2018. Stima della variabilità spaziale dell'insediamento dei settlers di Paracentrotus lividus nell'AMP Penisola del Sinis - Isola di Mal di Ventre. Rapporto Tecnico Fondazione IMC – Centro Marino nternazionale ONLUS, ECB1:2018, 18 pp.

Ceccherelli G., Piazzi L., **Farina S**., Guala I. 2016. Distribuzione spaziale e struttura di popolazione del bivalve *Pinna nobilis* nell'AMP di Tavolara-Punta Coda Cavallo. Dipartimento di Scienze della Natura e del Territorio, Università degli studi di Sassari.

Guala I., **Farina S**., Piazzi L., 2016. Indagine su habitat coralligeno (modulo 7) e fondi a maërl / rodoliti (modulo 8) ai fini della attuazione della direttiva sulla strategia marina - Annualità 2015. Rapporto tecnico IMC – International Marine Centre, 2: 2016, 17 pp.

Loi B., **Farina S.**, Brundu G., Baroli M. 2016. Relazione sulle attività realizzate nell'Area Marina Protetta Tavolara – Punta Coda Cavallo nell'ambito del progetto "Approccio integrato per la tutela, la gestione e la Valorizzazione della risorsa riccio di mare in Sardegna". Rapporto tecnico IMC – International Marine Centre, 1: 2016, 19 pp.

Alcoverro, T., Pages, J., Gera, A., **Farina, S**., Roca, G., Perez, M. and Romero, J. (2012) The effects of 26th December 2008 storm on Costa Brava *Posidonia oceanica* ecosystems. In: Mateo, M.A. and Garcia-Rubies, T. (Eds.).Assessment of the ecological impact of the extreme Storm of Sant Esteve's Day (26 December 2008) on the littoral ecosystems of the north

Mediterranean Spanish coasts. Final Report (PIEC 200430E599). Centro de Estudios Avanzados de Blanes, Consejo Superior de Investigaciones Cientificas, Blanes, pp. 147 – 156.

Romero, J., Alcoverro,T., Pérez, M., **Farina ,S**., Roca G.(2010) Implementació d'una xarxa de vigilància de la qualitat de les aigües litorals a Catalunya, basada en indicadors biològics d'herbeis de *Posidonia oceanica*. Agència Catalana de l'Aigua.

Xatrac Environmental Association (2010). "Caracterització de la biodiversitat i seguiment de la dinàmica experimentada per les comunitats bentòniques de l'espai marí situat en la zona d'influència de la futura ampliació del Port de Blanes". Agència d'Ajuts Universitarisi de Recerca (2009 ACOM 00049).

Xatrac Environmental Association (2009). "Caracterització de la pradeira de *Posidonia oceanica* de l'Hospitalet del Infant en relació al proyecto de ampliació del espigó del port" (Entorn S.L.).

Xatrac Environmental Association (2009). "Estudi de la praderia de *Cymodocea nodosa* de la Platja de la Pineda a Tarragona. Treball de camp i elaboració de la memoria" (Entorn S.L.).

Romero, J., Alcoverro,T., Pérez, M., Roca, G., S. **Farina.** (2009)
Implementació d'una xarxa de vigilància de la qualitat de les aigües litorals a Catalunya, basada en indicadors biològics d'herbeis de *Posidonia oceanica*. Agència Catalana de l'Aigua.

Romero, J., Alcoverro,T., Pérez, M., **Farina, S**., Roca, G. (2008)
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Romero, J., Alcoverro,T., Pérez, M., **Farina, S.**, Vich, M.A., Roca, G. (2007)
Implementació d'una xarxa de vigilància de la qualitat de les aigües litorals a Catalunya, basada en indicadors biològics d'herbeis de *Posidonia oceanica*. Agència Catalana de l'Aigua.

Romero, J., Alcoverro, T., Martínez-Crego, B., Pérez, M., Vich, M.A., **Farina, S**. (2006)
Implementació d'una xarxa de vigilància de la qualitat de les aigües litorals a Catalunya, basada en indicadors biològics d'herbeis de *Posidonia oceanica*. Agència Catalana de l'Aigua.

Romero, J., Alcoverro, T., Martínez-Crego, B., Pérez, M., **Farina, S.,** Vich, M.A. (2005)
Implementació d'una xarxa de vigilància de la qualitat de les aigües litorals a Catalunya, basada en indicadors biològics d'herbeis de *Posidonia oceanica*. Agència Catalana de l'Aigua.

Dissemination conferences

Sagra del surf 2019. *Pinna nobilis* ricerca per la sopravvivenza: risultati. Potzu Idu
Eolo Vela Day 2019. Ricerca per la conservazione. Torregrande
San Vero Milis 2018. Riccio di mare: verso un piano di gestione per una raccolta sostenibile
Sagra del surf 2018. Lo spinoso enigma del riccio di mare. Potzu Idu
Festival della Scienza Novembre 2017. La pressione di pesca verso l'esaurimento delle risorse. Farina Simone, Coppa Stefania. Consorzio uno, Monatsero del Carmine (Oristano).

Festival della Scienza Novembre 2016. Lo spinoso enigma del riccio di mare. Farina Simone, Coppa Stefania. Consorzio uno, Monatsero del Carmine (Oristano).
Aperisinis Agosto 2016. Lo spinoso enigma del riccio di mare. Farina Simone, Coppa Stefania. Cabras.
Tavolo tecnico per la pesca del riccio Novembre 2016. Verso un piano di conservazione sistematica della risorsa per ottimizzare la pesca del riccio. Simone Farina. Università di Cagliari.

Languages and other skills

Known languages

Italian (mother language), English (First Certificate Cambridge ESOL; Advanced C1.1), Spanish (excellent) and Catalan (good comprehension).

Training courses

Course "Where Science meets society: citizen science as an emerging tool to expand research horizons" (Ettore Majorana Foundation, Erice Italy; 2018).
Course of Data Exploration, Regression, GLM & GAM with introduction to R (Highland Statistics Ltd; 2018)
Course of Introduction to Regression Models with Spatial and Temporal Correlation with R (Highland Statistics Ltd; 2017)
Course of Introduction to Zero Inflated Models with R (Highland Statistics Ltd; 2016)
Course of Marxian (PacMARA-CNRISMAR; 2016)
Course of spatial analysis with R (University of Barcelona; 2015)
Course of generalised linear models with R (MARES-University of Bologna; 2015)
Course of GIS for beginners (ASMOZ-University of San Sebastian; 2014)

Course of R for beginners (ACOIO- University of Barcelona; 2012)

Informatics programs

R software, Adobe illustrator, Office, Primer-Permanova, QGis, Statistica 7, Sigmaplot, Global Mapper, Fragstats

Licenses

Motor boat skipper, Dive Master, First Aid, CPR, Dan Oxygen Provider.

Supervisor

BSC thesis: " L'effetto della raccolta intensiva del riccio di mare *Paracentrotus lividus* (Lamarck, 1816) sulla capacità riproduttiva delle popolazioni sotto pressione". Nicole Rubertini; University of Sassari. In progress.

BSC thesis: "Could Ocean Acidification increase predatio risk on functional key-species *Paracentrotus lividus* (Lamarck, 1816) in Mediterranean Sea?" (2018/19) Francesca Leggieri; University of Bologna.

BSC thesis: Marco Masala

Stage EU Leonardo da Vinci: "Seagrass fragmentation regulates sea urchins predation: can landscape pattern reflect predation process?" (2014) Rodrigo Pires da Silva; NERCAB – Associação Empresarial de Região de Castelo Branco.

BSC thesis: "Biologia riproduttiva di *Paracentrotus lividus* (Lamarck, 1816) in due zone della Sardegna)" (2012/13), Maria Letizia Vitelletti; University of Bologna.

Seasonal field works

Volunteer work at Heron Island Marine Research Station (Queensland University, Australia, May 2004). Environmental Educator at the Portofino Marine Protected Area (Liguria, Italia, spring 2003). Dive assistance in Boavista Island (Cabo Verde, summer 1998).

Firma