

Sylvaine Giakoumi



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Current Position: ricercatore II° livello, Senior Scientist

Current Affiliation:

Integrative Marine Ecology Department, Stazione Zoologica Anton Dohrn, Napoli (Italy) and Honorary Senior Fellow in the School of Biological Sciences, University of Queensland, Brisbane (Australia)

Education/Training/Experience

Institute and Location	Degree / Function	Year	Field of Study
Department of Maritime Sciences, University of Piraeus, Piraeus, Greece	4-year university degree	1995-2000	Maritime Sciences
Department of Environmental Sciences, University of the Aegean, Mytilene, Greece	Master	2000-2001	Environmental management and policy
Department of Oceanography and Marine Biosciences, University of the Aegean, Greece	Ph.D.	2006-2010	Marine Ecology and Conservation Planning
Hellenic Centre for Marine Research, Athens	Research Fellow	2011	Conservation Planning
Department of Biological Sciences, University of Queensland, Brisbane, Australia	Postdoc	2012-2014	Macroecology and conservation planning
Hellenic Centre for Marine Research, Athens, Greece	Postdoc	2014-2015	Macroecology and conservation planning
Department of Biological	Research	2015-2019	Marine protected areas and

Sciences, University of Cote d'Azur, Nice, France	Fellow (PI)		biological invasions
Stazione Zoologica Anton Dohrn, Napoli, Italy	1° Ricercatore	2021-present	Marine ecology and marine spatial planning

Appointments and awards

2006 – 2009: Scholarship by the Greek State Scholarships Foundation for postgraduate studies

2009: Endeavour Research Award from the Australian Government

2012 – 2015: Fellowship for postdoctoral research co-financed by the European Union and the Greek State

2013: Grant from the Australian Centre of Excellence for Environmental Decisions, University of Queensland

2016 – 2019: Grant “Hosting High-level Researchers” from the French National Research Agency (ANR)

2015 – 2016: Regional director of the project “The Science of Marine Protected Areas: Mediterranean Edition” in collaboration with the Partnership for Interdisciplinary Studies of Coastal Oceans (PISCO)

2016 – 2020: Leader of the Working Group 4 (Integrated conservation planning across terrestrial, freshwater and marine realms) of the EU COST project “MarCons: Advancing marine conservation in the European and contiguous Seas” (<http://www.marcons-cost.eu/>)

Other

2018: Consultant for the project “*Areas of Particular Importance for Biodiversity to the United Arab Emirates*”, Company: Emirates Wildlife Society – WWF (Dubai, United Arab Emirates)

Publications

Author of 72 publications on ISI-journals (h index: 27)

List of publications of the last 10 years:

Peer-reviewed publications:

Markantonatou V., Giakoumi S., Koukourouvli N., Maina I., Gonzalez-Mirelis G., Sini M., Maistrelis K., Stithou M., Gadolou E., Petza D., Kavadas S., Vassilopoulou V., Buhl-Mortensen L., Katsanevakis S. (2021). Marine spatial plans focusing on biodiversity conservation: The case of the Aegean Sea. *Aquatic Conservation: Marine and Freshwater Ecosystems* 31: 2278-2292.

Garcia-Baron I., Giakoumi S., Santos M.B., Granado I., Louzao M. (2021). The value of time-series data for conservation planning. *Journal of Applied Ecology* 58: 608-619.

Giakoumi S., Pita C., Coll M., Frascchetti S., Gissi E., Katara I., Lloret-Lloret E., Rossi F., Portman M., Stelzenmuller V., Micheli F., (2021). Persistent gender bias in marine science and conservation calls for action to achieve equity. *Biological Conservation* 257: 109134.

- Mateos-Molina D., Ben Lamine E., Antonopoulou M., Burt JA, Das HS, Javed S., Judas J., Khan SB, Muzaffar SB, Pilcher N, Rodriguez-Zarate, Taylor OJS, Giakoumi S (2021). Synthesis and evaluation of coastal and marine biodiversity spatial information in the United Arab Emirates for ecosystem-based management. *Marine Pollution Bulletin* 167: 112319.
- Kleitou P., Crocetta F., Giakoumi S., Giovos I., Hall-Spencer J.M., Kalogirou S., Kleitou D., Moutopoulos D.K., Rees S. (2021). Fishery reforms for the management of non-indigenous species. *Journal of Environmental Management*, 111690.
- Ben Lamine E., Mateos-Molina D., Antonopoulou M., Burt JA, Das H.S., Javed S., Muzaffar S., Giakoumi S. (2020). Identifying coastal and marine priority areas for conservation in the United Arab Emirates. *Biodiversity and Conservation*: 29: 2967-2983.
- Katsanevakis, S., Coll, M., Fraschetti, S., Giakoumi, S., Goldsborough, D., Mačić, V., et al. (2020). Twelve recommendations for advancing marine conservation in European and contiguous seas. *Frontiers in Marine Sciences*: 7, 879.
- Zenetos A., Ovalis P., Giakoumi S., Kontadakis C., Lefkaditou E., Mpazios G., Simboura N., Tsiamis K. (2020). Saronikos Gulf: a hotspot area for alien species in the Mediterranean Sea. *BioInvasions Records* 9(4): 873-889.
- Giakoumi S., Pey A., Thiriet P., Francour P., Guidetti P. (2019). Patterns of predation on native and invasive alien fish in Mediterranean protected and unprotected areas. *Marine Environmental Research* 150: 104792.
- Giakoumi S., Katsanevakis S., Albano P.G., Azzurro E., Cardoso A.C., Cebrian E., Deidun A., Edelist D., Francour P., Jimenez C., Mačić V., Occhipinti-Ambrogi A., Rilov G., Ramzi Sghaier Y. (2019). Management priorities for marine invasive species. *Science of the Total Environment* 688: 976-982.
- Scianna C., Nicolini F., Giakoumi S., Di Franco A., Gaines S.D., Bianchi C.N., Scaccia L., Bava S., Capanera V., Charbonnel E., Culioli J.-M., Di Carlo G., De Franco F., Dimitriadis C., Panzalis P., Santoro P., Guidetti P. (2019). Organization Science improves management effectiveness of marine protected areas. *Journal of Environmental Management* 240: 285-292.
- González-Moreno P., Lazzaro L., Vilà M., Preda C., Adriaens T., Bacher S., Brundu G., Copp G.H., Essl F., García-Berthou E., Katsanevakis S., Loennechen Moen T., Lucy F.E., Nentwig W., Roy H., Srébalienè G., Talgø V., Vanderhoeven S., Andjelković A., Arbačiauskas K., Auger-Rozenberg M.-A., Bae M.-J., Bariche M., Boets P., Boieiro M., Borges P.A., Canning-Clode J., Cardigos F., Chartosia N., Cottier-Cook E.J., Crocetta F., D'hondt B., Foggi B., Follak S., Gallardo B., Gammelmo Ø., Giakoumi S. et al. (2019). Consistency of impact assessment protocols for non-native species. *Neobiota* 44: 1-25.
- Giakoumi S., Pey A., Di Franco A., Francour P., Kizilkaya Z., Arda Y., Raybaud V., Guidetti P. (2019). Exploring the relationships between marine protected areas and invasive fish in the world's most invaded sea. *Ecological Applications*, e01809.
- Giakoumi S., Hermoso V., Carvalho S.B., Markantonatou V., Dagys M., Iwamura T., Probst W.N., Smith R.J., Yates K.L., Almpandou V., Novak T., Ben-Moshe N., Katsanevakis S., Claudet J., Coll M., Deidun A., Essl F., Garcia-Charton J.A., Jimenez C., Kark S., Mandic M., Mazaris

A.D., Rabitsch W., Stelzenmuller V., Tricarico E., Vogiatzakis I.N. (2019). Conserving European biodiversity across realms. *Conservation Letters*, e12586.

Giakoumi S., McGowan J., Mills M., Beger M., Bustamante R., Charles A., Christie P., Fox M., Garcia-Borboroglu P., Gelcich S., Guidetti P., Mackelworth P., Maina J.M., McCook L., Micheli F., Morgan L.E., Mumby P.J., Reyes L.M., White A., Grorud-Colvert K, Possingham H.P. (2018). Revisiting “success” and “failure” of marine protected areas: a conservation scientist perspective. *Frontiers in Marine Science* 5: 223.

Sala E., Giakoumi S. (2018). No-take marine reserves are the most effective protected areas in the ocean. *ICES Journal of Marine Science* 75 (3): 1166-1168

Sala E., Giakoumi S. (2018). Counterpoint to Hilborn. *ICES Journal of Marine Science* 75 (3): 1163-1164.

Sala E., Giakoumi S. (2018). Sala and Giakoumi’s Final Word. *ICES Journal of Marine Science* 75 (3): 1171.

Mazaris A.D., Almpnidou V., Giakoumi S., Katsanevakis S. (2018). Gaps and challenges of the European network of protected sites in the marine realm. *ICES Journal of Marine Science* 75 (1): 190-198

Di Franco A., Plass-Johnson J.G., Di Lorenzo M., Meola B., Claudet J., Gaines S.D., Garcia-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

Stelzenmuller V., Coll M., Mazaris A.D., Giakoumi S., Katsanevakis S., Portman M.E., Degen R., Mackelworth P., Gimpel A., Albano P.G., Almpnidou V., Claudet J., Essl F., Evagelopoulos T., Heymans J.J., Genov, T., Kark S., Micheli F., Pennino M.G., Rumes B., Steenbeek J., Ojaveer H. (2018). A risk-based approach to cumulative effect assessments for marine management. *Science of the Total Environment* 612: 1132-1140.

Sini M., Katsanevakis S., Koukouroufli N., Gerovasileiou V., Dailianis T., Buhl-Mortensen L., Dendrinou P., Dimas X., Frantzis A., Gerakaris V., Giakoumi S. et al. (2017). Assembling ecological pieces to reconstruct the conservation puzzle of the Aegean Sea. *Frontiers in Marine Science* 4: 347.

Saunders M.I., Bode M., Atkinson S., Klein C., Metaxas A., Behr J., Beger M., Mills M., Giakoumi S., Tulloch V., Possingham H. (2017). Simple rules can guide whether land- or ocean-based conservation will best benefit marine ecosystems. *PLoS Biology* 15(9): e2001886

Giakoumi S., Scianna C., Plass-Johnson J., Micheli F., Grorud-Colvert K., Thiriet P., Claudet J., Di Carlo G., Di Franco A., Gaines S.D., Garcia-Charton J.A., Lubchenco J., Reimer J., Sala E., Guidetti P. (2017). Ecological effects of full and partial protection in the crowded Mediterranean Sea: a regional meta-analysis. *Scientific Reports* 7: 8940.

Giakoumi S., Pey A. (2017). Assessing the effects of marine protected areas on biological invasions: A global review. *Frontiers in Marine Science*, 4: 49.

- Giakoumi S., Guilhaumon F., Kark S., Terlizzi A., Claudet A., Felling S., Cerrano C., Coll M., Danovaro R., Fraschetti S., Koutsoubas D., Ledoux J.B., Mazor T., Mérigot B., Micheli F., Katsanevakis S. (2016). Space invaders; biological invasions in marine conservation. *Diversity and Distributions* 22, 1220-1231.
- Salomidi M., Giakoumi S., Gerakaris V., Issaris Y., Sini M., Tsiamis K. (2016). Setting an ecological baseline prior to the bottom-up establishment of a marine protected area in Santorini Island, Aegean Sea. *Mediterranean Marine Science* 17(3), 720-737.
- Pascual M., Rossetto M., Ojea E., Milchakova N., Giakoumi S., Kark S., Korolesova D., Melià P. (2016). Socioeconomic impacts of marine protected areas in the Mediterranean and Black Seas. *Ocean & Coastal Management* 133, 1-10.
- Giakoumi S., Brown C.J., Katsanevakis S., Saunders M.I., Possingham H.P. (2015). Using threat maps for cost-effective prioritization of actions to conserve coastal habitats. *Marine Policy* 61, 95-102.
- Giakoumi S., Halpern B.S., Michel L., Gobert S., Sini M., Boudouresque C.F., Gambi M.C., Katsanevakis S., Lejeune P., Montefalcone M., Pergent G., Pergent-Martini C., Sanchez-Jerez P., Velimirov B., Vizzini S., Abadie A., Coll M., Guidetti P., Micheli F., Possingham H.P. (2015). Towards a framework for assessment and management of cumulative human impacts on marine food webs. *Conservation Biology* 29, 1228-1234.
- Tulloch V.J.D., Tulloch A.I.T., Visconti P., Halpern B.S., Watson J., Evans M.C., Auerbach N.A., Barnes M., Beger M., Chadès I., Giakoumi S., McDonald-Madden E., Murray N.J., Ringma J., Possingham H.P. (2015). Why do we map threats? Linking threat mapping with actions to make better conservation decisions. *Frontiers in Ecology and the Environment* 13, 91-99.
- Katsanevakis S., Levin N., Coll M., Giakoumi S., Shkedi D., Mackelworth P., Levy R., Velegrakis A., Koutsoubas D., Caric H., Brokovich E., Ozturk B., Kark S. (2015). Marine conservation challenges in an era of economic crisis and geopolitical instability: The Mediterranean Sea case. *Marine Policy* 51, 31-19.
- Tallis H., Lubchenco J., Adams V., Agostini V.N., Andelman S.J., Arkema K., Balvanera P., BanN., Beger M., Benner R., Bennett E., Biggs R., Blanchette C., Boersma P.D., Botrill M.C., Brauman K.A., Bremer L.L., Brosnan D., Buchori D., Butt N., Capps K., Carrington E., Carwardine J., Chaplin-Kramer R., Coll M., Corrigan C., Cross M.S., Daily G. DeFries R., Di Fonzo M.M.I., Ehrlich A., Estrada Carmona N., Ferreira J., Foley M., Francis T., Fraschetti S., Fuentes M.M.P.B., Gaiser E.E., Garbach K., Gedan K.B., Gerber L., Gergel S.E., Giakoumi S. et al. (2014). Working together: A call for inclusive conservation. *Nature* 515, 27-28.
- Levin N., Coll M., Fraschetti S., Gal G., Giakoumi S., Goke C., Heymans J.J., Katsanevakis S., Mazor T., Ozturk B., Rilov G., Gajewski J., Steenbeek J., Kark S. (2014). Review of biodiversity data requirements for systematic conservation planning in the Mediterranean Sea. *Marine Ecology Progress Series* 508: 261-281.
- Mazor T., Giakoumi S., Kark S., Possingham H. P. (2014). Large-scale conservation planning in a multinational marine environment: cost matters. *Ecological Applications* 24, 1115–1130.

- Giakoumi S. (2014). Distribution patterns of the invasive *Siganus luridus* (Rüppell, 1829) and its relation to native benthic communities in the central Aegean Sea, North-eastern Mediterranean. *Marine Ecology* 35, 96-105.
- Giakoumi S., Sini M., Gerovasileiou V., Mazor T., Beher J., Possingham H. P., Abdulla A., Cinar M.E., Dendrinou P., Gucu A.C., Karamanlidis A.A., Rodic P., Panayotidis P., Taskin E., Jaklin A., Vouliadou E., Webster C., Zenetos A., Katsanevakis S. (2013). Ecoregion-based conservation planning in the Mediterranean: Dealing with large-scale heterogeneity. *PLoS ONE* 8 (10): e76449.
- Micheli F., Levin N., Giakoumi S., Katsanevakis S., Abdulla A., Coll M., Fraschetti S., Kark S., Koutsoubas D., Mackelworth P., Maiorano L., Possingham H. P. (2013). Setting priorities for regional conservation planning in the Mediterranean Sea. *PLoS ONE* 8 (4): e59038.
- Giakoumi S. and Kokkoris G. (2013). Effects of habitat and substrate complexity on shallow sublittoral fish assemblages in the Cyclades Archipelago, North-eastern Mediterranean Sea. *Mediterranean Marine Science* 14 (1), 58-68.
- Stelzenmüller V., Breen P., Stamford T., Thomsen F., Badalamenti F., Borja Á., Buhl-Mortensen L., Carlström J., D'Anna G., Dankers N., Degraer S., Dujin M., Fiorentino F., Galparsoro I., Giakoumi S. et al. (2013). Monitoring and evaluation of spatially managed areas: A generic framework for implementation of ecosystem based marine management and its application. *Marine Policy* 37, 149-164.
- Giakoumi S., Katsanevakis S., Vassilopoulou V., Panayotidis P., Kavadas S., Issaris Y., Kokkali A., Frantzis A., Panou A., Mavromati G. (2012). Could European conservation policy benefit from systematic conservation planning? *Aquatic Conservation: Marine and Freshwater Ecosystems* 22, 762-775.
- Issaris Y., Katsanevakis S., Pantazi M., Vassilopoulou V., Panayotidis P., Kavadas S., Kokkali A., Salomidi M., Frantzis A., Panou A., Damalas D., Klaoudatos D., Sakellariou D., Drakopoulou V., Kyriakidou C., Maina I., Fric J., Smith C., Giakoumi S., Karris G. (2012). Ecological mapping and data quality assessment for the needs of ecosystem-based marine spatial management: case study Greek Ionian Sea and the adjacent gulfs. *Mediterranean Marine Science* 13 (2), 297-311.
- Giakoumi S., Mazor T., Fraschetti S., Kark S., Portman M., Coll M., Steenbeek J., Possingham H. and Workshop participants (2012). Advancing marine conservation planning in the Mediterranean Sea. *Reviews in Fish Biology and Fisheries* 22 (4), 943- 949.
- Giakoumi S., Cebrian E., Kokkoris G., Ballesteros E., Sala E. (2012). Relationships between fish, sea urchin and macroalgae: The structure of shallow rocky sublittoral communities in the Cyclades, Eastern Mediterranean. *Estuarine, Coastal and Shelf Science* 109, 1-10.
- Nicolaidou A., Alongi G., Aydogan O., Catra M., Cavas L., Cevik C., Dosi A., Circosta V., Giakoumi S. et al. (2012). New Mediterranean Biodiversity Records (June 2012). *Mediterranean Marine Science* 13(1), 162-174.
- Giakoumi S., Grantham H., Kokkoris G. and Possingham H. P. (2011). Designing a network of marine reserves in the Mediterranean Sea with limited socio-economic data. *Biological Conservation* 144, 753-763.

Book Chapters:

M. Skourtos, A. Kontogianni, S. Giakoumi (2005). Scenarios for environmental change for the management of river basins: The case of Axios catchment. Honorary volume for Prof. Konsolas, Panteion University, Athens