



## Fiorenza Micheli

Co-Director, Hopkins Marine Station, David and Lucile Packard Professor of Marine Science and Senior Fellow at the Woods Institute for the Environment

Biology

### Bio

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#### BIO

Fiorenza Micheli is co-director of Stanford's Center for Ocean Solutions, and a marine ecologist at the Hopkins Marine Station of Stanford University, where she is the David and Lucile Packard Professor of Marine Science. Micheli's research focuses on the processes shaping marine communities and coastal social-ecological systems, and incorporating this understanding in marine management and conservation. She investigates climatic impacts on marine ecosystems, particularly the impacts of hypoxia and ocean acidification on marine species, communities and fisheries, marine predators' ecology and trophic cascades, the dynamics and sustainability of small-scale fisheries, and the design and function of Marine Protected Areas. Her current research takes her to Mexico, Italy, and Palau, in addition to California. She is a Pew Fellow in Marine Conservation, a fellow of the California Academy of Sciences, research advisor to the Monterey Bay National Marine Sanctuary, Seafood Watch and the Benioff Ocean Initiative, and senior fellow at Stanford's Woods Institute for the Environment.

#### ACADEMIC APPOINTMENTS

- Professor, Biology
- Senior Fellow, Stanford Woods Institute for the Environment
- Senior Fellow, Stanford Woods Institute for the Environment

#### ADMINISTRATIVE APPOINTMENTS

- Co-director, Hopkins Marine Station, (2020-2022)
- Co-director, Center for Ocean Solutions, (2017- present)

#### LINKS

- Micheli Lab website: <https://michelilab.stanford.edu/>
- Center for Ocean Solutions: <https://oceansolutions.stanford.edu/>

### Research & Scholarship

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#### CURRENT RESEARCH AND SCHOLARLY INTERESTS

My research focuses on the processes and interactions shaping coastal marine communities and incorporating this understanding in the management and conservation of marine ecosystems. A primary focus of my research program has been in how disturbance and interactions between species underlie the organization, spatial variation, and temporal change in marine communities. In addition to addressing these basic ecological questions, my research seeks to apply community ecology to increase our understanding of human impacts on the marine environment and to design conservation and restoration strategies. Examples include quantifying the joint effects of fishing and climate change on marine ecosystems and incorporating our understanding of diversity patterns, species interactions, habitat-species linkages, and patterns

of human use of natural resources in the design and evaluation of marine reserve networks and marine zoning. I am currently co-directing the Stanford Center for Ocean Solutions, with Jim Leape.

To date, I have authored or co-authored over 200 peer-reviewed publications. I have advised over 20 postdocs, over 20 PhD students and nearly 100 undergraduate students at Stanford University. Currently my group includes four postdoctoral researchers and six PhD students conducting research in California, Baja California, Palau, The Chagos and Italy, and additional fellows and interns at COS. I have given over 300 presentations at conferences, symposia and at academic institutions, including ~150 invited presentations and ten lectures as the keynote speaker in international conferences. I have obtained grants from the US National Science Foundation, Environmental Protection Agency, NOAA, National Geographic Society, and private foundations, including funding for three large multi-institutional and interdisciplinary projects from the NSF – Coupled Natural-Human Systems program. I am a fellow of the California Academy of Science and the Aldo Leopold Leadership Program, past president of the Western Society of Naturalists, a Pew Fellow in Marine Conservation.

## Teaching

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### COURSES

#### 2021-22

- Managing Your PhD: BIO 305 (Aut, Spr)
- Planet Ocean: BIO 71 (Win)

#### 2020-21

- Coral Reefs of the Western Pacific: Interdisciplinary Perspectives, Emerging Crises, and Solutions: BIO 355, BIOHOPK 355, CEE 363I, ESS 355 (Aut)
- Managing Your PhD: BIO 305 (Aut, Win, Spr)
- Topics in International Justice, Rights, and the Environment: ENVRES 215A (Spr)

#### 2019-20

- Career Development for Graduate Students: BIOHOPK 315H (Aut)

#### 2018-19

- Introduction to Ecology: BIOHOPK 81 (Spr)

### STANFORD ADVISEES

#### Doctoral Dissertation Reader (AC)

Hannah Blondin, Rachel Carlson, Margaret Daly, Maurice Goodman

#### Postdoctoral Faculty Sponsor

Allison Dedrick, Staci Lewis, Carolina Olguin Jacobson

#### Doctoral Dissertation Advisor (AC)

Natalie Arnoldi, Betsy Mansfield, Jamie McDevitt-Irwin, Melissa Palmisciano

#### Doctoral (Program)

Natalie Arnoldi, Betsy Mansfield, Jamie McDevitt-Irwin, Melissa Palmisciano, Ceyenna Tillman

## Publications

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### PUBLICATIONS

- **The vital roles of blue foods in the global food system** *GLOBAL FOOD SECURITY-AGRICULTURE POLICY ECONOMICS AND ENVIRONMENT*  
Tigheelaar, M., Leape, J., Micheli, F., Allison, E. H., Basurto, X., Bennett, A., Bush, S. R., Cao, L., Cheung, W. L., Crona, B., DeClerck, F., Fanzo, J., Gelcich, et al

2022; 33

- **Greater resilience of reef fish assemblages in a no-take reserve compared to multi-use areas of the Gulf of California** *PROGRESS IN OCEANOGRAPHY*  
Ramirez-Ortiz, G., Balart, E. F., Reyes-Bonilla, H., Huato-Soberanis, L., Cortes-Fuentes, C., Micheli, F.  
2022; 204
- **A Scientific Synthesis of Marine Protected Areas in the United States: Status and Recommendations** *FRONTIERS IN MARINE SCIENCE*  
Sullivan-Stack, J., Aburto-Oropeza, O., Brooks, C. M., Cabral, R. B., Caselle, J. E., Chan, F., Duffy, J., Dunn, D. C., Friedlander, A. M., Fulton-Bennett, H. K., Gaines, S. D., Gerber, L. R., Hines, et al  
2022; 9
- **Resilient consumers accelerate the plant decomposition in a naturally acidified seagrass ecosystem.** *Global change biology*  
Lee, J., Gambi, M. C., Kroeker, K. J., Munari, M., Peay, K., Micheli, F.  
2022
- **Modelling the effect of habitat and fishing heterogeneity on the performance of a Total Allowable Catch-regulated fishery** *ICES JOURNAL OF MARINE SCIENCE*  
Pourtois, J. D., Provost, M. M., Micheli, F., De Leo, G. A.  
2022
- **Life history mediates the association between parasite abundance and geographic features.** *The Journal of animal ecology*  
Williams, M. A., Faiad, S., Claar, D. C., French, B., Leslie, K. L., Oven, E., Guerra, A. S., Micheli, F., Zgliczynski, B. J., Haupt, A. J., Sandin, S. A., Wood, C. L.  
2022
- **Local practices and production confer resilience to rural Pacific food systems during the COVID-19 pandemic.** *Marine policy*  
Ferguson, C. E., Tuxson, T., Mangubhai, S., Jupiter, S., Govan, H., Bonito, V., Alefaio, S., Anjiga, M., Booth, J., Boslogo, T., Boso, D., Brenier, A., Caginitoba, et al  
1800; 137: 104954
- **Rapid recovery of depleted abalone in Isla Natividad, Baja California, Mexico** *ECOSPHERE*  
Smith, A., Aguilar, J., Boch, C., De Leo, G., Hernandez-Velasco, A., Houck, S., Martinez, R., Monismith, S., Torre, J., Woodson, C., Micheli, F.  
2022; 13 (3)
- **Data about marine area-based management tools to assess their contribution to the UN sustainable development goals.** *Data in brief*  
Gissi, E., Maes, F., Kyriazi, Z., Ruiz-Frau, A., Santos, C. F., Neumann, B., Quintela, A., Alves, F. L., Borg, S., Chen, W., Fernandes, M. d., Hadjimichael, M., Manea, et al  
1800; 40: 107704
- **Contributions of marine area-based management tools to the UN sustainable development goals** *JOURNAL OF CLEANER PRODUCTION*  
Gissi, E., Maes, F., Kyriazi, Z., Ruiz-Frau, A., Santos, C., Neumann, B., Quintela, A., Alves, F. L., Borg, S., Chen, W., Fernandes, M., Hadjimichael, M., Manea, et al  
2022; 330
- **Emergent research and priorities for shark and ray conservation** *ENDANGERED SPECIES RESEARCH*  
Jorgensen, S. J., Micheli, F., White, T. D., Van Houtan, K. S., Alfaro-Shigueto, J., Andrzejaczek, S., Arnoldi, N. S., Baum, J. K., Block, B., Britten, G. L., Butner, C., Caballero, S., Cardenosa, et al  
2022; 47: 171-203
- **An integrated assessment of the Good Environmental Status of Mediterranean Marine Protected Areas.** *Journal of environmental management*  
Fraschetti, S., Fabbri, E., Tamburello, L., Uyarra, M. C., Micheli, F., Sala, E., Pipitone, C., Badalamenti, F., Bevilacqua, S., Boada, J., Cebrian, E., Ceccherelli, G., Chiantore, et al  
1800; 305: 114370
- **Ecological dependencies make remote reef fish communities most vulnerable to coral loss.** *Nature communications*  
Strona, G., Beck, P. S., Cabeza, M., Fattorini, S., Guilhaumon, F., Micheli, F., Montano, S., Ovaskainen, O., Planes, S., Veech, J. A., Parravicini, V.  
1800; 12 (1): 7282
- **Integrating Biophysical, Socio-Economic and Governance Principles Into Marine Reserve Design and Management in Mexico: From Theory to Practice** *FRONTIERS IN MARINE SCIENCE*  
de la Mora, M., Bennett, N. J., Fulton, S., Munguia-Vega, A., Lasch-Thaler, C., Walther-Mendoza, M., Zepeda-Dominguez, J., Finkbeiner, E., Green, A. L., Suarez, A., Weaver, A., Figueroa Carranza, A. R., Vega Velazquez, et al

2021; 8

- **Who wins or loses matters: Strongly interacting consumers drive seagrass resistance under ocean acidification.** *The Science of the total environment*  
Lee, J., Hughes, B. B., Kroeker, K. J., Owens, A., Wong, C., Micheli, F.  
2021: 151594
- **Harnessing the diversity of small-scale actors is key to the future of aquatic food systems (vol 2, pg 733, 2021) NATURE FOOD**  
Short, R. E., Gelcich, S., Little, D. C., Micheli, F., Allison, E. H., Basurto, X., Belton, B., Brugere, C., Bush, S. R., Cao, L., Crona, B., Cohen, P. J., Defeo, et al  
2021
- **Harnessing the diversity of small-scale actors is key to the future of aquatic food systems NATURE FOOD**  
Short, R. E., Gelcich, S., Little, D. C., Micheli, F., Allison, E. H., Basurto, X., Belton, B., Brugere, C., Bush, S. R., Cao, L., Crona, B., Cohen, P. J., Defeo, et al  
2021
- **Compound climate risks threaten aquatic food system benefits NATURE FOOD**  
Tigchelaar, M., Cheung, W. L., Mohammed, E., Phillips, M. J., Payne, H. J., Selig, E. R., Wabnitz, C. C., Oyinlola, M. A., Frolicher, T. L., Gephart, J. A., Golden, C. D., Allison, E. H., Bennett, et al  
2021
- **Southward decrease in the protection of persistent giant kelp forests in the northeast Pacific COMMUNICATIONS EARTH & ENVIRONMENT**  
Arafah-Dalmau, N., Cavanaugh, K. C., Possingham, H. P., Munguia-Vega, A., Montano-Moctezuma, G., Bell, T. W., Cavanaugh, K., Micheli, F.  
2021; 2 (1)
- **Variable coastal hypoxia exposure and drivers across the southern California Current. Scientific reports**  
Low, N. H., Micheli, F., Aguilar, J. D., Arce, D. R., Boch, C. A., Bonilla, J. C., Bracamontes, M. A., De Leo, G., Diaz, E., Enriquez, E., Hernandez, A., Martinez, R., Mendoza, et al  
2021; 11 (1): 10929
- **Redefining risk in data-poor fisheries FISH AND FISHERIES**  
Grewelle, R. E., Mansfield, E., Micheli, F., De Leo, G.  
2021
- **Persistent gender bias in marine science and conservation calls for action to achieve equity BIOLOGICAL CONSERVATION**  
Giakoumi, S., Pita, C., Coll, M., Frascchetti, S., Gissi, E., Katara, I., Lloret-Lloret, E., Rossi, F., Portman, M., Stelzenmueller, V., Micheli, F.  
2021; 257
- **In Memoriam Charles Henry Peterson MARINE ECOLOGY PROGRESS SERIES**  
Lenihan, H. S., Grabowski, J., Micheli, F.  
2021; 659: 2
- **Correction to: Coupled beta diversity patterns among coral reef benthic taxa. Oecologia**  
McDevitt-Irwin, J. M., Kappel, C. n., Harborne, A. R., Mumby, P. J., Brumbaugh, D. R., Micheli, F. n.  
2021
- **WTO must ban harmful fisheries subsidies. Science (New York, N.Y.)**  
Sumaila, U. R., Skerritt, D. J., Schuhbauer, A., Villasante, S., Cisneros-Montemayor, A. M., Sinan, H., Burnside, D., Abdallah, P. R., Abe, K., Addo, K. A., Adelsheim, J., Adewumi, I. J., Adeyemo, et al  
2021; 374 (6567): 544
- **Mediterranean rocky reefs in the Anthropocene: Present status and future concerns. Advances in marine biology**  
Bevilacqua, S., Airoldi, L., Ballesteros, E., Benedetti-Cecchi, L., Boero, F., Bulleri, F., Cebrian, E., Cerrano, C., Claudet, J., Colloca, F., Coppari, M., Di Franco, A., Frascchetti, et al  
2021; 89: 1-51
- **Derivation of Red Tide Index and Density Using Geostationary Ocean Color Imager (GOCI) Data REMOTE SENSING**  
Lee, M., Park, K., Micheli, F.  
2021; 13 (2)
- **Coupled beta diversity patterns among coral reef benthic taxa. Oecologia**  
McDevitt-Irwin, J. M., Kappel, C. n., Harborne, A. R., Mumby, P. J., Brumbaugh, D. R., Micheli, F. n.  
2021

- **A review of a decade of lessons from one of the world's largest MPAs: conservation gains and key challenges** *MARINE BIOLOGY*  
Hays, G. C., Koldewey, H. J., Andrzejaczek, S., Attrill, M. J., Barley, S., Bayley, D. I., Benkwitt, C. E., Block, B., Schallert, R. J., Carlisle, A. B., Carr, P., Chapple, T. K., Collins, et al  
2020; 167 (11)
- **Effects of marine noise pollution on Mediterranean fishes and invertebrates: A review.** *Marine pollution bulletin*  
Di Franco, E., Pierson, P., Di Iorio, L., Calo, A., Cottalorda, J. M., Derijard, B., Di Franco, A., Galve, A., Guibbolini, M., Lebrun, J., Micheli, F., Priouzeau, F., Risso-de Faverney, et al  
2020; 159: 111450
- **Comparison of Cloud-Filling Algorithms for Marine Satellite Data** *REMOTE SENSING*  
Stock, A., Subramaniam, A., Van Dijken, G. L., Wedding, L. M., Arrigo, K. R., Mills, M. M., Cameron, M. A., Micheli, F.  
2020; 12 (20)
- **Geographic variation in responses of kelp forest communities of the California Current to recent climatic changes.** *Global change biology*  
Beas-Luna, R., Micheli, F., Woodson, C. B., Carr, M., Malone, D., Torre, J., Boch, C., Caselle, J. E., Edwards, M., Freiwald, J., Hamilton, S. L., Hernandez, A., Konar, et al  
2020
- **A low-cost modular control system for multistressor experiments** *LIMNOLOGY AND OCEANOGRAPHY-METHODS*  
Low, N. N., Ng, C. A., Micheli, F.  
2020
- **Downscaling global ocean climate models improves estimates of exposure regimes in coastal environments.** *Scientific reports*  
Fagundes, M., Litvin, S. Y., Micheli, F., De Leo, G., Boch, C. A., Barry, J. P., Omidvar, S., Woodson, C. B.  
2020; 10 (1): 14227
- **Field stations as sentinels of change** *FRONTIERS IN ECOLOGY AND THE ENVIRONMENT*  
Micheli, F., Carlton, J., Pearse, J., Selgrath, J., Elahi, R., Watanabe, J., Mach, M., McDevitt-Irwin, J., Pearse, V., Burnett, N., Baxter, C.  
2020; 18 (6): 320–21
- **Modelled effects of prawn aquaculture on poverty alleviation and schistosomiasis control.** *Nature sustainability*  
Hoover, C. M., Sokolow, S. H., Kemp, J., Sanchirico, J. N., Lund, A. J., Jones, I. J., Higginson, T., Riveau, G., Savaya, A., Coyle, S., Wood, C. L., Micheli, F., Casagrandi, et al  
2020; 2 (7): 611-620
- **The Status of Coastal Benthic Ecosystems in the Mediterranean Sea: Evidence From Ecological Indicators** *FRONTIERS IN MARINE SCIENCE*  
Bevilacqua, S., Katsanevakis, S., Micheli, F., Sala, E., Rilov, G., Sara, G., Malak, D., Abdulla, A., Gerovasileiou, V., Gissi, E., Mazaris, A. D., Pipitone, C., Sini, et al  
2020; 7
- **Abalone populations are most sensitive to environmental stress effects on adult individuals** *MARINE ECOLOGY PROGRESS SERIES*  
Aalto, E. A., Barry, J. P., Boch, C. A., Litvin, S. Y., Micheli, F., Woodson, C. B., De Leo, G. A.  
2020; 643: 75–85
- **Models with environmental drivers offer a plausible mechanism for the rapid spread of infectious disease outbreaks in marine organisms.** *Scientific reports*  
Aalto, E. A., Lafferty, K. D., Sokolow, S. H., Grewelle, R. E., Ben-Horin, T., Boch, C. A., Raimondi, P. T., Bograd, S. J., Hazen, E. L., Jacox, M. G., Micheli, F., De Leo, G. A.  
2020; 10 (1): 5975
- **Shark fin trade bans and sustainable shark fisheries** *CONSERVATION LETTERS*  
Ferretti, F., Jacoby, D. P., Pflieger, M. O., White, T. D., Dent, F., Micheli, F., Rosenberg, A. A., Crowder, L. B., Block, B. A.  
2020
- **Mediterranean marine protected areas have higher biodiversity via increased evenness, not abundance** *JOURNAL OF APPLIED ECOLOGY*  
Blowes, S. A., Chase, J. M., Di Franco, A., Frid, O., Gotelli, N. J., Guidetti, P., Knight, T. M., May, F., McGlenn, D. J., Micheli, F., Sala, E., Belmaker, J.  
2020
- **Synergistic interactions among growing stressors increase risk to an Arctic ecosystem.** *Nature communications*  
Arrigo, K. R., van Dijken, G. L., Cameron, M. A., van der Grient, J., Wedding, L. M., Hazen, L., Leape, J., Leonard, G., Merkl, A., Micheli, F., Mills, M. M., Monismith, S., Ouellette, et al

2020; 11 (1): 6255

- **Size-dependent vulnerability to herbivory in a coastal foundation species.** *Oecologia*  
Ng, C. A., Micheli, F. n.  
2020
- **Marine heat waves threaten kelp forests.** *Science (New York, N.Y.)*  
Arafah-Dalmau, N., Schoeman, D. S., Montano-Moctezuma, G., Micheli, F., Rogers-Bennett, L., Olguin-Jacobson, C., Possingham, H. P.  
2020; 367 (6478): 635
- **The effects of depth and diet on red abalone growth and survival in cage mariculture at San Jeronimo Island, Baja California, Mexico**  
Bauer, J., Lorda, J., Beas-Luna, R., Malpica-Cruz, L., Lafarga-De la Cruz, F., Micheli, F., Searcy-Bernal, R., Rogers-Bennett, L., Bracamontes-Peralta, M.  
INST INVESTIGACIONES OCEANOLOGICAS, U A B C.2020: 343–57
- **Reduced fish diversity despite increased fish biomass in a Gulf of California Marine Protected Area.** *PeerJ*  
Ramírez-Ortiz, G. n., Reyes-Bonilla, H. n., Balart, E. F., Olivier, D. n., Huato-Soberanis, L. n., Micheli, F. n., Edgar, G. J.  
2020; 8: e8885
- **Short- and long-term impacts of variable hypoxia exposures on kelp forest sea urchins.** *Scientific reports*  
Low, N. H., Micheli, F. n.  
2020; 10 (1): 2632
- **Tracking the response of industrial fishing fleets to large marine protected areas in the Pacific Ocean.** *Conservation biology : the journal of the Society for Conservation Biology*  
White, T. D., Ong, T. n., Ferretti, F. n., Block, B. A., McCauley, D. J., Micheli, F. n., De Leo, G. A.  
2020
- **COVID-19 reveals vulnerability of small-scale fisheries to global market systems.** *The Lancet. Planetary health*  
Knight, C. J., Burnham, T. L., Mansfield, E. J., Crowder, L. B., Micheli, F. n.  
2020; 4 (6): e219
- **Short-term effects of hypoxia are more important than effects of ocean acidification on grazing interactions with juvenile giant kelp (*Macrocystis pyrifera*).** *Scientific reports*  
Ng, C. A., Micheli, F. n.  
2020; 10 (1): 5403
- **Ocean acidification causes variable trait shifts in a coral species.** *Global change biology*  
Teixidó, N. n., Caroselli, E. n., Alliouane, S. n., Ceccarelli, C. n., Comeau, S. n., Gattuso, J. P., Fici, P. n., Micheli, F. n., Mirasole, A. n., Monismith, S. G., Munari, M. n., Palumbi, S. R., Sheets, et al  
2020
- **Abundance and distribution of the white shark in the Mediterranean Sea** *FISH AND FISHERIES*  
Moro, S., Jona-Lasinio, G., Block, B., Micheli, F., De Leo, G., Serena, F., Bottaro, M., Scacco, U., Ferretti, F.  
2019
- **Recent pace of change in human impact on the world's ocean.** *Scientific reports*  
Halpern, B. S., Frazier, M., Afflerbach, J., Lowndes, J. S., Micheli, F., O'Hara, C., Scarborough, C., Selkoe, K. A.  
2019; 9 (1): 11609
- **Modelled effects of prawn aquaculture on poverty alleviation and schistosomiasis control** *NATURE SUSTAINABILITY*  
Hoover, C. M., Sokolow, S. H., Kemp, J., Sanchirico, J. N., Lund, A. J., Jones, I. J., Higginson, T., Riveau, G., Savaya, A., Coyle, S., Wood, C. L., Micheli, F., Casagrandi, et al  
2019; 2 (7): 611–20
- **Chemistry of the consumption and excretion of the bumphead parrotfish (*Bolbometopon muricatum*), a coral reef mega-consumer** *CORAL REEFS*  
Goldberg, E., Raab, T. K., Desalles, P., Briggs, A. A., Dunbar, R. B., Millero, F. J., Woosley, R. J., Young, H. S., Micheli, F., Mccauley, D. J.  
2019; 38 (2): 347–57
- **Quantifying coconut palm extent on Pacific islands using spectral and textural analysis of very high resolution imagery** *INTERNATIONAL JOURNAL OF REMOTE SENSING*  
Burnett, M. W., White, T. D., McCauley, D. J., De Leo, G. A., Micheli, F.

2019

- **Harnessing marine microclimates for climate change adaptation and marine conservation** *CONSERVATION LETTERS*  
Woodson, C., Micheli, F., Boch, C., Al-Najjar, M., Espinoza, A., Hernandez, A., Vazquez-Vera, L., Saenz-Arroyo, A., Monismith, S. G., Torre, J.  
2019; 12 (2)
- **Catastrophic Mortality, Allee Effects, and Marine Protected Areas** *AMERICAN NATURALIST*  
Aalto, E. A., Micheli, F., Boch, C. A., Montes, J., Woodson, C., De Leo, G. A.  
2019; 193 (3): 391–408
- **Incorporating change in marine spatial planning: A review** *ENVIRONMENTAL SCIENCE & POLICY*  
Gissi, E., Frascchetti, S., Micheli, F.  
2019; 92: 191–200
- **From Fishing Fish to Fishing Data: The Role of Artisanal Fishers in Conservation and Resource Management in Mexico** *VIABILITY AND SUSTAINABILITY OF SMALL-SCALE FISHERIES IN LATIN AMERICA AND THE CARIBBEAN*  
Fulton, S., Hernandez-Velasco, A., Suarez-Castillo, A., Fernandez-Rivera Melo, F., Rojo, M., Saenz-Arroyo, A., Hudson Weaver, A., Cudney-Bueno, R., Micheli, F., Torre, J., Salas, S., BarraganPaladines, M. J., Chuenpagdee, et al  
2019; 19: 151–75
- **An interdisciplinary evaluation of community-based TURF-reserves.** *PloS one*  
Villaseñor-Derbez, J. C., Aceves-Bueno, E. n., Fulton, S. n., Suarez, A. n., Hernández-Velasco, A. n., Torre, J. n., Micheli, F. n.  
2019; 14 (8): e0221660
- **Functional biodiversity loss along natural CO2 gradients** *NATURE COMMUNICATIONS*  
Teixido, N., Gambi, M., Parravacini, V., Kroeker, K., Micheli, F., Villeger, S., Ballesteros, E.  
2018; 9
- **The effects of intensive aquaculture on nutrient residence time and transport in a coastal embayment** *ENVIRONMENTAL FLUID MECHANICS*  
Wang, B., Cao, L., Micheli, F., Naylor, R. L., Fringer, O. B.  
2018; 18 (6): 1321–49
- **Author Correction: Ecological effects of full and partial protection in the crowded Mediterranean Sea: a regional meta-analysis.** *Scientific reports*  
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, et al  
2018; 8 (1): 17644
- **Sea pens in the Mediterranean Sea: habitat suitability and opportunities for ecosystem recovery (vol 75, pg 1722, 2018)** *ICES JOURNAL OF MARINE SCIENCE*  
Bastari, A., Pica, D., Ferretti, F., Micheli, F., Cerrano, C.  
2018; 75 (6): 2289–91
- **Mapping ecological indicators of human impact with statistical and machine learning methods: Tests on the California coast** *ECOLOGICAL INFORMATICS*  
Stock, A., Haupt, A. J., Mach, M. E., Micheli, F.  
2018; 48: 37–47
- **Ocean Solutions to Address Climate Change and Its Effects on Marine Ecosystems** *FRONTIERS IN MARINE SCIENCE*  
Gattuso, J., Magnan, A. K., Bopp, L., Cheung, W. L., Duarte, C. M., Hinkel, J., Mcleod, E., Micheli, F., Oschlies, A., Williamson, P., Bille, R., Chalastani, V. I., Gates, et al  
2018; 5
- **Leveraging vessel traffic data and a temporary fishing closure to inform marine management** *FRONTIERS IN ECOLOGY AND THE ENVIRONMENT*  
Elahi, R., Ferretti, F., Bastari, A., Cerrano, C., Colloca, F., Kowalik, J., Ruckelshaus, M., Struck, A., Micheli, F.  
2018; 16 (8): 440–45
- **Harnessing cross-border resources to confront climate change** *ENVIRONMENTAL SCIENCE & POLICY*  
Aburto-Oropeza, O., Johnson, A. F., Agha, M., Allen, E. B., Allen, M. F., Gonzalez, J., Arenas Moreno, D. M., Beas-Luna, R., Butterfield, S., Caetano, G., Caselle, J. E., Castaneda Gaytan, G., Castorani, et al  
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