



Carolina Olguin Jacobson

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BIO

My research focuses on socio-ecological systems within fishery cooperatives in Baja California, Mexico, exploring their resilience and adaptation strategies to climate change and COVID-19 impacts through oceanographic and ecological monitoring. Working with marine protected areas and climate refugia areas.

Publications

PUBLICATIONS

- **Identifying marine climate refugia to advance climate-smart conservation.** *Trends in ecology & evolution*
Sanz-Martín, M., Olguín-Jacobson, C., Bolin, J. A., Quiles-Pons, C., Brito-Morales, I., García Molinos, J., Hidalgo, M., Alabía, I. D., Gissi, E., Provost, M. M., Micheli, F., Arafeh-Dalmau, N.
2026
- **Climate-resilient fisheries are more resilient in general** *NPJ OCEAN SUSTAINABILITY*
Villasenor-Derbez, J., Lynham, J., Garibay-Toussaint, I., Narchi, N. E., O'connor, R., Olguin-Jacobson, C., DeLeo, G. A., Torre, J., Arafeh-Dalmau, N., Fulton, S., Woodson, C., Micheli, F.
2025; 4 (1)
- **Recovery mode: Marine protected areas enhance climate resilience of invertebrate species to marine heatwaves** *FUNCTIONAL ECOLOGY*
Olguin-Jacobson, C., Arafeh-Dalmau, N., Early-Capistran, M., Kumagai, J. A., Schoeman, D. S., Espinoza Montes, J., Hernandez-Velasco, A., Martinez, R., Romero, A., Torre, J., Woodson, C., De Leo, G., Micheli, et al
2025
- **COVID-19 highlights the need to improve resilience and equity in managing small-scale fisheries.** *npj ocean sustainability*
Mangubhai, S., Olguin-Jacobson, C., Charles, A., Cinner, J., de Vos, A., Graham, R. T., Ishimura, G., Mills, K. E., Naggea, J., Okamoto, D. K., O'Leary, J. K., Salomon, A. K., Rashid Sumaila, et al
2024; 3 (1): 61
- **Protect kelp forests.** *Science (New York, N.Y.)*
Arafeh-Dalmau, N., Olguín-Jacobson, C., Earle, S., Bello, M., Lagger, C., Mora-Soto, A., Pantano, C., Palacios, M., Barbosa, R. V., Fica-Rojas, E., Guajardo, E., Aburto-Oropeza, O., Eger, et al
2024; 386 (6722): 629
- **Combining the uncombinable: corporate memories, ethnobiological observations, oceanographic and ecological data to enhance climatic resilience in small-scale fisheries** *FRONTIERS IN MARINE SCIENCE*
Garibay-Toussaint, I., Olguin-Jacobson, C., Woodson, C., Arafeh-Dalmau, N., Torre, J., Fulton, S., Micheli, F., O'Connor, R., Precoma-de la Mora, M., Hernandez-Velasco, A., Narchi, N. E.
2024; 11
- **Sex-specific variation in species interactions matters in ecological communities.** *Trends in ecology & evolution*

Gissi, E., Goodman, M. C., Elahi, R., McDevitt-Irwin, J. M., Arnoldi, N. S., Arafeh-Dalmau, N., Knight, C. J., Olguin-Jacobson, C., Palmisciano, M., Tillman, C. M., De Leo, G. A., Micheli, F.
2024

- **Integrating climate adaptation and transboundary management: Guidelines for designing climate-smart marine protected areas** *ONE EARTH*
Arafeh-Dalmau, N., Munguia-Vega, A., Micheli, F., Vilalta-Navas, A., Villasenor-Derbez, J., Precoma-de la Mora, M., Schoeman, D. S., Medellin-Ortiz, A., Cavanaugh, K. C., Sosa-Nishizaki, O., Burnham, T. L. U., Knight, C. J., Woodson, et al
2023; 6 (11): 1523-1541
- **Assemblages of pelagic thaliaceans in oceanographic features at the tropical-temperate transition zone of a western boundary current.** *Journal of plankton research*
Pitt, K. A., Lawley, J. W., Hinchliffe, C., Matis, P. A., Olguin-Jacobson, C., Arafeh-Dalmau, N., Lindholm, P., Arnold, J., Suthers, I. M.
2023; 45 (4): 677-692
- **Shortfalls in the protection of persistent bull kelp forests in the USA** *BIOLOGICAL CONSERVATION*
Arafeh-Dalmau, N., Olguin-Jacobson, C., Bell, T. W., Micheli, F., Cavanaugh, K. C.
2023; 283
- **Spatial distribution of medusae (Cnidaria) assemblages in the southern Gulf of Mexico (dry season)** *COMMUNITY ECOLOGY*
Alejandro Puente-Tapia, F., De la Luz Espinosa-Fuentes, M., Zavala-Garcia, F., Olguin-Jacobson, C., Flores-Coto, C.
2022; 23 (1): 137-162
- **Symbiotic microalgae do not increase susceptibility of zooxanthellate medusae (*Cassiopea xamachana*) to herbicides** *AQUATIC TOXICOLOGY*
Olguin-Jacobson, C., Pitt, K. A.
2021; 236: 105866
- **Chronic pesticide exposure elicits a subtle carry-over effect on the metabolome of *Aurelia coerulea* ephyrae** *ENVIRONMENTAL POLLUTION*
Olguin-Jacobson, C., Pitt, K. A., Carroll, A. R., Melvin, S. D.
2021; 275: 116641
- **Polyps of the Jellyfish *Aurelia aurita* Are Unaffected by Chronic Exposure to a Combination of Pesticides** *ENVIRONMENTAL TOXICOLOGY AND CHEMISTRY*
Olguin-Jacobson, C., Pitt, K. A., Carroll, A. R., Melvin, S. D.
2020; 39 (9): 1685-1692
- **Marine heat waves threaten kelp forests.** *Science (New York, N.Y.)*
Arafeh-Dalmau, N., Schoeman, D. S., Montano-Moctezuma, G., Micheli, F., Rogers-Bennett, L., Olguin-Jacobson, C., Possingham, H. P.
2020; 367 (6478): 635
- **Review of the Phylloporidae family (Holothuroidea: Dendrochirotida) in Mexican waters** *REVISTA DE BIOLOGIA TROPICAL*
Olguin Jacobson, C., Solis Marin, F., Laguarda-Figureas, A.
2015; 63: 77-85