Curriculum Vitae

Name: Corey Garza, Ph.D.
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Employment

2020-current Professor, Department of Marine Science, California State University, Monterey Bay.
2015-2016 Visiting Scientist, Moss Landing Marine Labs (Sabbatical Year Employment)
2014-2020 Associate Professor, Department of Marine Science, California State University, Monterey Bay
2008-2014 Assistant Professor**,** Division of Science and Environmental Policy*, California State University, Monterey Bay. (*Name changed to College of Science in 2015)
2006-2007 Research Ecologist, National Oceanic and Atmospheric Administration, Northeast Fisheries Science Center
2004-2006 Postdoctoral Researcher, Center for Environmental Analysis, California State University, Los Angeles.
2001-2003 Postdoctoral Researcher, United States Environmental Protection Agency, Environmental Monitoring and Assessment Program (EMAP), joint appointment Western Ecology Division and Gulf Ecology Division.

Education

California State University, Los Angeles, Biology B.Sc., Cum Laude 1995
University of California, Santa Barbara, Ecology, Evolution and Marine Biology, Ph.D. 2001

Research Experience

My research interests sit at the interface of marine and landscape ecology. My research group examines spatial variation in the relationship between species distribution and habitat complexity in the marine environment. Our group uses GIS modeling and spatial statistics to visualize and quantify these relationships. In recent years, my research group has employed autonomous aerial drones to improve the way in which we gather data in the marine environment. As part of our work with drones, we are also employing machine learning as a method for automating the classification of habitat types as captured in drone-based imagery. We work across a variety of habitats ranging from the rocky intertidal to estuaries to kelp forests. Our work spans the interface between basic and applied science with an eye towards address emerging environmental issues in the coastal zone. Our group is also active in using our work to develop approaches for engaging populations that have historically been underrepresented in the ocean sciences. As part of our work, we develop and participate in many outreach and student training activities intended to diversify those who participate in ocean science. Our goal is to support the development of a work force that can bring new perspectives and research approaches to the needs of 21st century ocean science.

Academic Honors

2020 Elected Fellow, California Academy of Sciences
2017 INSIGHT Into Diversity Magazine, Inspiring Leader in STEM.

Representative Publications

Sloan, V., Haacker, R., Batchelor, R. and **Garza, C. 2020**. How COVID-19 is affecting undergraduate research experiences, Eos, 101: https://doi.org/10.1029/2020EO145667

Dundas, S.J., Levine, A.S., Lewison, R.L., Doerr, A.N., White, C., Galloway, A.W., **Garza, C.,** Hazen, E.L., Padilla-Gamiño, J., Samhouri, J.F. and Spalding, A., **2020**. Integrating oceans into climate policy: Any green new deal needs a splash of blue. Conservation Letters, p.e12716.

Garza, C. 2019. Landscape ecology in the rocky intertidal: Opportunities for advancing discovery and innovation in intertidal research. Current Landscape Ecology Reports, 4 (3): 83-90.

Flanagan, A., Flood, R.D., Frisk, M.G., **Garza, C**., Lopez, G.R., Maher, N.P., and Cerrato, R.M. **2018**. The relationship between observational scale and observed variance in biological communities. PLOS-One, 13(1), e0189313.

Bassett, M., Lindholm, J., **Garza, C**., Kvitek, R., and Wilson-Vandenberg, D. **2017**. Lingcod (*Ophiodon elongates*) habitat associations in California: implications for conservation and management. Environmental Biology of Fishes, 1-11.

Garza, C. 2016. Landscape structure effects on fisheries and fisheries management. Current Landscape Ecology Reports. Special Issue, Interaction of landscape structure and natural resource management, 1 (1): 1-9.

Garza, C. 2015. Reaching out to underserved communities. Marine Technology Society Journal. Special Issue, Blue Futures: Educating the Next Generation, 49 (4): 8-12.

Young, M. Kvitek, R., Iampietro, P, and **Garza, C. 2010**. Multivariate bathymetry derived landscape ecology model accurately predicts rockfish distribution in Cordell Bank National Marine Sanctuary, CA, USA. Marine Ecology Progress Series, 415: 247-261

Robles, C., **Garza, C.**, Desharnais, D, Donahue M. **2010.** Landscape patterns in boundary intensity: A case study of mussel beds. Landscape Ecology, 25 (5): 745-759.

Garza, C. 2008. Relating spatial scale to patterns of polychaete species diversity in coastal estuaries of the Western United States. Special Issue: Marine and Coastal Applications in Landscape Ecology. Landscape Ecology, 23 (Supplement 1), pp. 107-121.

Society Memberships

2015-current Marine Technology Society
2014-current American Geophysical Union
2012-current Association for the Sciences of Limnology and Oceanography
2004-current SACNAS (Advancing Chicanos/Hispanics and Native Americans in Science)