

Curriculum Vitae

Name: Corey Garza, Ph.D.

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California State University, Monterey Bay
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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

Professional Appointments

2015-2016 Visiting Scientist, Moss Landing Marine Labs (Sabbatical Appointment)

2014-current Associate Professor, Division of Science and Environmental Policy,
California State University, Monterey Bay.

2014-current Director, Monterey Bay Regional Ocean Science Research Experiences for
Undergraduates

2013-current Co-director, Ocean Opportunities

2012-2014 Secretariat, Western Society of Naturalists

2010-current Director CSU COAST, Geospatial Research, Education and Technology
Network.

2008-2014 Assistant Professor, Division of Science and Environmental Policy, California
State University, Monterey Bay.

2006-2007 Research Ecologist, National Oceanic and Atmospheric Administration,
Northeast Fisheries Science Center

2006-2007 NOAA liaison and science lead for USEPA Long Island Sound Study

2006-2007 Adjunct Assistant Professor, Department of Marine Science, University of
Connecticut.

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.

Teaching Appointments

2014-current Instructor, MSCI 350, Quantitative Marine Science

2013 Instructor, GEO 365, Marine GIS, Oregon State University, Hatfield Marine
Science Center, Summer Session.

2013-current Instructor, ENVS 545, Marine Ecological Systems, California State
University, Monterey Bay, Division of Science and Environmental Policy

2008-current Instructor, ENVS 332, Introduction to GIS/GPS, California State University,
Monterey Bay, Division of Science and Environmental Policy

2008-2011 Instructor, ENVS 300, Reading, Writing and Critical Thinking in Environmental Science Technology and Policy, California State University, Monterey Bay, Division of Science and Environmental Policy

2008 Instructor, STAT 250, Applied Statistics for Science and Technology, California State University, Monterey Bay, Division of Science and Environmental Policy

2007 Instructor, MARN 410, Statistical Methods for Research in the Marine Environment, University of Connecticut, Department of Marine Science.

2007 Instructor, Biology of Marine Birds, Summer Field Course, Bamfield Marine Sciences Centre, British Columbia, Canada

2006 Lecturer, Marine-Terrestrial Interactions, Summer Field Course, Bamfield Marine Sciences Centre, British Columbia, Canada

2005 Instructor, Biology 472, Marine Ecology, California State University, Los Angeles, Department of Biological Sciences

2003 Instructor, Statistics for the Environmental Sciences, USEPA, Gulf Ecology Division Continuing Education Series

Publications

Garza, C. 2015. Landscape structure effects on fisheries and fisheries management. Current Landscape Ecology Reports. Special Issue, Interaction of landscape structure and natural resource management. Accepted, In Revision.

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

Kowalski, B., Watson, F., **Garza, C.** and Delgado, B. **2015.** Effect of landscape covariates on the distribution and detection probabilities of mammalian carnivores. Journal of Mammalogy, 96 (3): 511-521.

Brousseau, D. J., Goldberg, R. and **Garza, C. 2014.** Impact of predation by the invasive crab *Hemigrapsus sanguineus* on juvenile blue mussel survival in western Long Island Sound, USA. Northeastern Naturalist, 21 (1): 119-133.

Yarish, C., Swanson, L., Tedesco, M., Latimer, J. Stacey, P. and **Garza, C.** Eds. **2014.** Long Island Sound: Prospects for an Urban Sea, XXII, 899 pp. Springer, New York, New York.

Tedesco, M., Swanson, L., Stacey, P., Latimer, J., Yarish, C., and **Garza, C. 2014.** Synthesis for Management. In: Long Island Sound: Prospects for an Urban Sea, XXII, Yarish, C., Swanson, L., Tedesco, M., Latimer, J. Stacey, P. and **Garza, C.** Eds. pp:481-539. Springer, New York, New York.

Rosevelt, C, Los Huertos, M., **Garza, C.**, Nevins, H.M. **2013.** Marine debris in central California: Quantifying type and abundance of beach litter in Monterey Bay, CA. Marine Pollution Bulletin, 71: 299-306.

Young, M.A., Kvitek, R.G., Iampietro, P.J., **Garza, C.D.**, Maillet, R. and Hanlon R.T. **2011.** Seafloor mapping and landscape analyses used to monitor variations in spawning

site preference and benthic egg mop abundance for the California market squid (*Doryteuthis opalescens*). *Journal of Experimental Marine Biology and Ecology*, 407 (2): 226-233.

Young, M. Kvittek, 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. and Robles, C. **2010**. Effect of brackish water incursions on vertical foraging excursions of the keystone predator *Pisaster ochraceus*. *Marine Biology*, 157: 673-682.

Robles, C. Desharnais, R., **Garza, C.**, Donahue, M. and Martinez, A. **2009**. Complex equilibria in the maintenance of boundaries: Experiments with mussel beds. *Ecology* 90(4), pp. 985-995.

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.

Hanrahan, G.S., **Garza, C.**, Garcia, E. and Miller, K. **2007**. Experimental design and response surface modeling: method development tools for the determination of reduced inorganic species in environmental samples. *Journal of Environmental Informatics*, 9 (2), pp. 71-79.

Garza, C. 2005. Prey productivity effects on the impact of predators of the mussel, *Mytilus californianus* (Conrad), *Journal of Experimental Marine Biology and Ecology*, 324 (1), pp. 71-79.

Summers, K., Pesch, G., Walker, H., Kiddon, J., Harvey, J., **Garza, C.**, Engle, V., Smith, L., Harwell, L., Nelson, W., Lee, H., Lambertson, J., Burgan, B., and Bigler, J. **2005**. National Coastal Condition Report II. EPA/620/R-03/002. US Environmental Protection Agency, Office of Research and Development, Office of Water. Washington, DC 20460 pp. 285.

Articles in Review or Preparation

McCormick, M., **Garza, C.**, Kvittek, R. and Hovel, K. **2015**. Variation in spiny lobster (*Panulirus interruptus*) prey selectivity across complex intertidal landscapes. Submitted to *Marine Ecology Progress Series*.

Windell, S. **Garza, C.**, Lindholm, J. and Hamilton, S. **2015**. The value of habitat diversity in marine reserve design: A case study of the spiny lobster, *Panulius interruptus*. Submitted to Marine Ecology Progress Series.

Orr, D., Garza, C., Robles, C. and Kvitek, R. **2015**. Multiscale predictive modeling of wave velocity and its distribution across an intertidal landscape. **2015**. Submitted to Marine Ecology Progress Series.

Toews, S. and **Garza C.** **2015**. Linking habitat heterogeneity to genetic partitioning in the rocky subtidal using black surfperch (*Embiotoca jacksoni*). (In preparation for submittal to Marine Ecology Progress Series.

Garza, C., and Aiello, I. **2015**. Geomorphic controls on intertidal community composition. (In preparation for submittal to Landscape Ecology)

Books in Preparation

Garza, C. and Young, M., eds. **2015**. Marine Landscape Ecology. Academic textbook in preparation for Springer Publications.

Grant Awards

Schofield, O., Kohut, J., **Garza, C.** and McDonnell, J. **2015**. Improved Polar Data Access and Communication. National Science Foundation Division of Polar Programs. **Project Funded: \$1,100,000 for three years.**

Garza, C. **2014**. From the Intertidal to the Deep Ocean: Monterey Bay Regional Ocean Science Research Experiences for Undergraduates Program. National Science Foundation Biological Oceanography Division. **Project Funded: \$505,000 for three years.**

Navarro, M. **2014**. Seasonal Dynamics of Sandy Habitat Geomorphology and Epifaunal Associations on the Continental Shelf of Monterey Bay, California. NSF Postdoctoral Fellow Award to M. Navarro with **C. Garza** as faculty sponsor. **Project Funded: \$150,000 for two years.**

Narayanan, S, Byun, Y, and **Garza, C.** **2013**. ARRA: California Wireless Broadband. California Public Utilities Commission (ARRA Funding). **Project Funded: \$749, 950 for three years.**

Yoder, J. and **Garza, C.** **2013**. Ocean Opportunities - A Partnership Approach to Increase Diversity in Ocean Science Graduate Programs. Deerbrook Charitable Trust. **Project Funded: \$70,831 for two years.**

Garza, C. **2013**. CSU COAST Marine Geospatial Data Collection, Analysis and Application Workshop. California Sea Grant Program Development Award W13-59PD. **Project Funded: \$5,000 for one year.**

Garza, C. and Aiello, I. 2012. Multi-scale geomorphic controls over littoral communities in Central California. California State University Council on Ocean Affairs, Science and Technology Collaborative Incentive Award. **Project Funded: \$10,000 for one year.**

Garza, C. 2011. The Value of Habitat Diversity in Marine Reserves: Spiny Lobster and Sheephead Use of the Intertidal Zone at the Santa Catalina Island MPA. University of Southern California Sea Grant Program and California Ocean Protection Council. **Project Funded: \$88,000 for two years (total includes \$50,000 Sea Grant Trainee Support).**

Robles, C., Halpin, P. and **Garza, C. 2011.** Spatial realism in the mussel bed disturbance paradigm. National Science Foundation Biological Oceanography Division. **Project Funded: \$778,000 for five years.**

Garza, C. 2010. COAST Geospatial Analysis Center Development Award. California State University Council on Ocean Affairs, Science and Technology. **Project Funded: \$9,936 for one year.**

Aiello I, **Garza, C.** and Robles, C. **2009.** Multi-scale geomorphic controls over littoral communities in California. California State University Council on Ocean Affairs, Science and Technology. Release time provided for developing NSF Proposal. **Project Funded: \$26,496 for one semester.**

Garza, C. 2008. Development of scale sensitive methods for measuring patterns of species distribution and abundance in Carmel Bay. Foundation of CSUMB Incentive Scholars Award Mini-Grant. **Project Funded: \$5,000 for one year.**

Garza, C. and Deguise, S. **2007.** Long Island Sound Environmental Data Synthesis, Connecticut Sea Grant, USEPA-LI-978-183601. **Project Funded: \$39,783 for two years.**

Postdoctoral Scholars Supervised

2014-current Dr. Michael Navarro, NSF Postdoctoral Fellow

Graduate Students Supervised

2008-2009 Shinobu Okano, MS, CSUMB (Committee Member)

2008-2012 Scott Toews, MS, CSUMB (Primary Advisor)

2009-2011 Clover Lee, PSM, CSUMB (Primary Advisor)

2009-2011 Shae Mitchell, MS, CSUMB (Co-Supervisor)

2009-2011 Carolyn Rosevelt, MS, CSUMB (Committee Member)

2009-2013 Sean Castorani, MS, CSUMB (Committee Member)

2010-2013 Bart Kowalski, MS, CSUMB (Committee Member)

2010-2012 Elizabeth Pardieck, PSM, CSUMB (Primary Advisor)

2010-current Megan Bassett, MS, CSUMB (Committee Member)

2010-2013 Justin Peglow, MS, Moss Landing Marine Lab (Committee Member)

2011-2013 Tamsen Byfield, Ph.D., Victoria University of Wellington (Committee Member)
2012-2014 Ben Walker, PSM, CSUMB (Primary Advisor)
2012-2015 Mary McCormick, MS, CSUMB (Primary Advisor)
2012-2015 Daniel Orr, MS, CSUMB (Primary Advisor)
2012-2015 Sean Windell, MS, CSUMB (Primary Advisor)
2013-current Alison Flanagan, Ph.D., Stony Brook University (Committee Member)
2013-2015 Winn McEnery, PSM, CSUMB (Primary Advisor)
2013-2015 Patrick Mulcahy, PSM, CSUMB (Primary Advisor)
2013-2015 Ashley Quackenbush, PSM, CSUMB (Primary Advisor)
2015-current, Jordan Maeding, PSM, CSUMB (Primary Advisor)

Undergraduate Students Supervised

2008-2010 Xeronimo Castaneda, CSUMB, McNair Program Scholar (Research Mentor)
2008-2010 Alexis Hall, CSUMB, McNair Program Scholar (Research Mentor)
2008-2010 Alison Jones, CSUMB McNair Program Scholar (Research Mentor)
2009-2011 Maren Mitch, CSUMB McNair Program Scholar (Research Mentor)
2009-2010 Krystal Schneider, CSUMB UROC Intern (Research Mentor)
2009-current Timothy Fuller, CSUMB, UROC Intern (Research Mentor)
2010-2013 Lauren Tobosa, CSUMB UROC Intern (Research Mentor)
2011-2013 Amber Reichert, CSUMB, NSF Undergraduate Research Trainee (Research Mentor)
2013 Katie Sowul, CSUMB, USC Sea Grant Undergraduate Research Trainee (Research Mentor)
2013-2014 Griffin Srednick, CSUMB UROC Intern (Research Mentor)
2013-2014 Patrick Sabordo, CSUMB, NSF Undergraduate Research Trainee (Research Mentor)
2013-2014 Christopher Vargas, San Jose State University, NIH MARC Intern (Research Mentor)
2012-2014 Mitchell Takata, CSUMB, USC Sea Grant Undergraduate Research Trainee (Research Mentor)
2012-2015 Cristina Villalobos, CSUMB McNair Program Scholar (Research Mentor)
2014-current Alison Aceves, CSUMB McNair Program Scholar (Research Mentor)
2015 Chelsea Burgess, Haskell Indian Nations University, CSUMB Ocean Science REU Participant.

Invited Talks

2015 Invited Speaker, UC Davis Bodega Marine Lab, From the intertidal to the deep ocean: A landscape of possibilities in marine ecology.
2015 Invited Speaker, Victoria University of Wellington, From the intertidal to the deep ocean: A landscape of possibilities in marine ecology.
2015 Invited Speaker, Canterbury University, From the intertidal to the deep ocean: A landscape of possibilities in marine ecology.
2014 Keynote Speaker, Consortium for Ocean Leadership Ocean Science Educators Retreat: Enhancing Diversity in the Ocean Sciences: Challenges and Opportunities.

2014 Invited Speaker, Moss Landing Marine Lab: An isoscape approach for assessing energetic performance of MPA networks.

2014 Invited Speaker, Cal-GIS Annual Users Group Meeting: From the intertidal to the ocean deep: A landscape of possibilities in marine ecology.

2013 Invited Speaker, Oregon State University, Hatfield Marine Science Center, From the intertidal to the ocean deep: A landscape of possibilities in marine ecology.

2013 Invited Speaker, California State University, Los Angeles, Department of Biology, From the intertidal to the ocean deep: A landscape of possibilities in marine ecology.

2012 Invited Speaker, San Jose State University, Department of Biology, From the intertidal to the ocean deep: A landscape of possibilities in marine ecology.

2012 Invited Speaker, San Francisco State University, Department of Biology, From the intertidal to the ocean deep: A landscape of possibilities in marine ecology.

2009 Guest Lecturer, Stanford University, Hopkins Marine Station, Intertidal Biomechanics Summer Course.

2009 Invited Speaker, Oregon State University, Hatfield Marine Science Center, A landscape based approach to testing dynamic models of benthic marine communities.

2009 Invited Speaker, Environmental Systems Seminar Series, University of California, Merced. A landscape based approach to testing dynamic models of benthic marine communities.

2008 Invited Speaker, Moss Landing Marine Lab. A landscape based approach to testing dynamic models of benthic marine communities.

2008 Invited Speaker, Center for Environmental Analysis, California State University Los Angeles. An ecosystem based approach to coastal resource management: Lessons from Long Island Sound.

Educational Outreach

2013 Guest Speaker, California Forum for Diversity in Graduate Education

2013 Guest Speaker, CSUMB Migrant Youth Days

2010 Guest Speaker, RISE high school education program

2009 and 2010 Guide, Coastwalk Intertidal Educational Program

2008 and 2009 Guest Speaker, Career Day, Salinas High School

2007-current, Educational Mentor, Society for the Advancement of Chicanos and Native Americans in Science

2004-current, Organizer, Professional Development and Scientific Sessions in Marine Science at the annual meeting of the Society for the Advancement of Chicanos and Native Americans in Science.

External Committees

2013 Invited Participant, NSF and NOAA annual program review for National COSEE Program.

2010 Invited participant, NSF and NOAA 10 year program review for National COSEE Program

2009 Member of the CSU Council on Ocean Affairs Science and Technology

2008-2010, Member of external advisory committee for the Center for Environmental Analysis at CSU Los Angeles.

Editorial Duties

2015 Manuscript reviewer for Ecology

2012-current Manuscript reviewer for Journal of Plankton Research

2011-current Manuscript reviewer for Journal of Animal Ecology

2011-current Manuscript reviewer for the Journal of Biogeography

2010-current Manuscript reviewer for Oecologia

2009-current Manuscript reviewer for Ecological Monographs

2008-current, Manuscript reviewer for Marine Ecology Progress Series

2006-current, Manuscript reviewer for the Journal Marine Biology

Society Memberships

2015 Marine Technology Society

2012-current Association for the Sciences of Limnology and Oceanography

2005-current Society for the Advancement of Chicanos and Native Americans in Science

2004-current United States Chapter of the International Association for Landscape Ecology

1996-current Western Society of Naturalists

University Wide Service

2013-current Member, Inclusive Excellence Advisory Team

2012-2015 Chair, Faculty Affairs Committee

2010-current Faculty representative, Student Fee Advisory Committee

2009-2013 CSUMB Senate Liaison to Associated Students and Internal Affairs

2009-2013 Marine Science Graduate Program representative to CSUMB Academic Senate.

Department Committee Work

2013 Member Faculty Search Committee for Marine Conservation Biology Faculty Position

2012 Member Faculty Search Committee for Genomics Faculty Position

2012-current Member of Marine Science Program faculty committee

2011 Member Faculty Search Committee for Marine Physiology Faculty Position

2011-current Member of Biology Program faculty committee

2010 Co-Chair Faculty Search Committee for Marine Biology Faculty Position.

2008-current Member of CWSP graduate committee