

Hayley Carter, M.S.

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EDUCATION

San Francisco State University, M.S., Marine Biology, 2009-2012

University of California, Davis, B.S., Biological Science, 2004-2008

PROFESSIONAL EXPERIENCE

Program Scientist, California Ocean Science Trust Oakland, CA

January 2014 - Present

Ocean Science Trust is an independent non-profit established by the California Ocean Resources Stewardship Act. We work across traditional boundaries, bringing together governments, scientists, and citizens to support managers and policymakers with sound science.

- Directed the work of the bi-national West Coast Ocean Acidification and Hypoxia Science Panel, an effort that informed legislation, management/policy responses, and funding decisions; leading a working group to explore the use of aquatic vegetation as an ocean acidification management tool
- Manage the work of the Ocean Protection Council Science Advisory Team, California's network of interdisciplinary marine and coastal scientists; provide support to the Ocean Protection Council Science Advisor
- Lead and support a range of fisheries projects to provide guidance to marine fishery managers
- Oversee Ocean Science Trust's peer review program
- Execute all areas of project management: convene diverse partners; review and synthesize scientific information; develop and supervise grants; expert workshop planning; technical writing
- Develop and execute strategic science communication strategies to meet project goals; extensive graphic and web design

California Sea Grant State Fellow, California Ocean Science Trust Oakland, CA

January 2013 - January 2014

California Sea Grant's State Fellowship Program matches highly qualified graduate students interested in marine resources and the policy decisions affecting those resources with hosts in California state agencies.

- Conducted rapid assessments of 11 fisheries in support of the California Sustainable Seafood Initiative to identify knowledge gaps, fishery improvement projects, and critical research needs
- Convened the West Coast Ocean Acidification and Hypoxia Science Panel; cultivated management and policy interest in ocean acidification at multiple levels of government; developed and managed Panel communications and branding, including designing the Panel's online presence and collateral
- Hired for a full time appointment at Ocean Science Trust following the end of my fellowship

Graduate Research Assistant, Romberg Tiburon Center Tiburon, CA

August 2009 - May 2012

The Romberg Tiburon Center is a marine and estuarine research facility focusing on understanding the natural forces at work in the San Francisco Bay, its surrounding wetland environments, and in the open ocean.

- Explored the impacts of climate change and ocean acidification on the development of intertidal crustaceans through the use of molecular and physiological assay techniques
- Developed teaching material for introductory marine science courses; mentored undergraduate and graduate students, training them on the use of lab equipment and the scientific method
- Fostered strong technical writing abilities and developed extensive public speaking skills by presenting my research at meetings and conference around the nation

Naturalist, San Francisco Whale Tours San Francisco, CA

January 2010 - December 2011

- Served as naturalist on whale watching expeditions to the Gulf of the Farallones National Marine Sanctuary
- Developed outreach materials and educated the public about the natural history of marine flora and fauna, including cetaceans, seabirds, pinnipeds, white sharks, and pelagic invertebrates
- Established strong interpersonal skills and developed knowledge of the North Central coast marine ecosystem

TECHNICAL SKILLS

Computer: Microsoft Office Suite (Mac and PC), Adobe Creative Suite (including Illustrator, InDesign, and Photoshop), R Statistical Computing, Asana project management, SmartSheets, WordPress, Final Cut Pro, MaxQDA

Field and Laboratory: Molecular and physiological laboratory assays, water chemistry monitoring and measurement techniques (field and lab), invertebrate larval culturing

Digital Media: Facebook, Twitter, Instagram, HootSuite, MailChimp, TweetDeck, blog writing

PROFESSIONAL AFFILIATIONS

Marketing Team and Social Media Coordinator, volunteer, San Francisco International Ocean Film Festival (2012-2017)

Solar Energy Consultant, LGCY Power Bay Area, a certified Sunrun partner (2016)

Surfrider Foundation, volunteer, 2013-present

SCUBA Open Water Diver Certified, PADI

Western Society of Naturalists, Member at Large and Local Host of WSN 2015 in Sacramento, CA (2015)

Coastal and Estuarine Research Federation (CERF), Member (2012 – present)

Romberg Tiburon Center Graduate Student Organization, Officer (2011 – 2012)

Oregon Department of Fish and Wildlife, Indian Creek Chinook Salmon Hatchery Program, 2014

SELECT AWARDS AND GRANTS

Distinguished Alumni Award, San Francisco State University, 2017

Volunteer of the Year Award, San Francisco International Ocean Film Festival, 2015

Outstanding Research Award, College of Science and Engineering Poster Showcase, 2012

Graduate Student Award for Marine Science Research, CSU COAST, 2012

James C. Kelley Scholarship, 2012

RECENT PUBLICATIONS AND PRESENTATIONS

Publications

(in prep, 2017) Scientific Peer Review, Guidance and Recommendations for the California Department of Fish and Wildlife. California Ocean Science Trust, Oakland, California, USA, 2017.

(in prep, 2017) Assessing the relationship between eelgrass and oysters: Case studies and recommendations for California aquaculture and natural resource managers in the context of ocean acidification.

Carter, H. A., Knight, E., Meyer, R., and Whiteman, E. Peer Review: Developing Successful Scientific and Technical Review Processes to Advance Science in Marine and Coastal Decision-making. California Ocean Science Trust, Oakland, California, USA. May 2016. [\[link\]](#)

Carter, H. A., Ceballos-Osuna, L., Miller, N. A., & Stillman, J. H. (2013). Impact of ocean acidification on metabolism and energetics during early life stages of the intertidal porcelain crab *Petrolisthes cinctipes*. *The Journal of Experimental Biology*, 216(8), 1412-1422. [\[link\]](#)

Ceballos-Osuna, L., **Carter, H. A.**, Miller, N. A., & Stillman, J. H. (2013). Effects of ocean acidification on early life-history stages of the intertidal porcelain crab *Petrolisthes cinctipes*. *The Journal of Experimental Biology*, 216(8), 1405-1411. [\[link\]](#)

Calosi, P., Rastrick, S. P. S., Graziano, M., Thomas, S. C., Baggini, C., **Carter, H. A.**, & Spicer, J. I. (2013). Distribution of sea urchins living near shallow water CO₂ vents is dependent upon species acid-base and ion-regulatory abilities. *Marine pollution bulletin*, 73(2), 470-484. [\[link\]](#)

Presentations

Ocean Acidification and Hypoxia: Mechanisms for Linking Science to Management and Policy (session organizer and moderator). Coastal and Estuarine Research Federation Annual Meeting. 2015. Portland, OR.

Tracking ocean acidification and hypoxia to inform decisions: The value of a Coast-wide perspective. Western Society of Naturalists Annual Meeting. 2015. Sacramento, CA.

Connecting science to ocean policy and management: The California Ocean Science Trust. Ecological Society of America, Ignite Session: Boundary Organizations: Bridging the Gap Between Science and Policy. August 13, 2014. Sacramento, CA.

REFERENCES

Emily Knight, Senior Program Manager, Ocean Science Trust, emily.knight@calost.org, (831) 521-9305

Tom Maloney, Executive Director, Ocean Science Trust, tom.maloney@oceansciencetrust.org, (805) 602-2294

Skyli McAfee, Director, North America Oceans and Coasts, The Nature Conservancy, skyli.mcafee@tnc.org, (707) 529-7984

Jonathon Stillman, Professor, San Francisco State University, Romberg Tiburon Center, stillmaj@sfsu.edu, (415) 338-3790