

Jonathan P. Williams, M.S.

Vantuna Research Group
Occidental College
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Research Scientist
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CURRENT POSITIONS

Research Scientist: *Vantuna Research Group, Occidental College.* 2006-present
as Research Associate (2006-2011)

NTT Associate Professor: *Biology Department, Occidental College.*
"Ecological Enhancement and Restoration", 2013-present
"Biodiversity and Organization of Marine Ecosystems", 2015-present

RELATED PREVIOUS POSITIONS

Adjunct Instructor: *Biology Department, Occidental College.*
"Oceanology", 2007
"Biology and Environmental Policy", 2010-2013

EDUCATION

M.S. Biology, California State University, Northridge, 2006
B.S. Marine Biology, Chemistry minor, University of North Carolina at Wilmington, 2002

PROFESSIONAL EXPERIENCE (*funding sources italicized*)

Ocean-side Subtidal Marine Vertebrate and Invertebrate Inventory at Naval Base Point Loma (2018-present)

United States Navy

Fisheries Inventory and Utilization Study in San Diego Bay (2005-Present)

Unified Port of San Diego

Kelp bed restoration monitoring and assessment of urchin barrens on the Palos Verdes Peninsula (2011-present)

Montrose Settlements Restoration Program; The Bay Foundation

Bunker Point Reef Restoration Baseline Monitoring (2009-Present)

Montrose Settlements Restoration Program

Ichthyoplankton of King Harbor, Redondo Beach, California (2006-present)

Previous funding by: Water Intake Structure Environmental Research (WISER), California Energy Commission

Receiving Water Monitoring and Reporting Program (2006-present)

Chevron Products Company, El Segundo Refinery

Subsurface Geologic Mapping of Los Angeles Basin (2018)

LA Seismic

Bight '13: Regional Survey Field Sampling and Laboratory Analyses Project (2012-2017)

Southern California Coastal Water Research Project (SCCWRP)

Caulerpa Survey for Ventura Isle Marine Dock Replacement Project (2016)

Ventura Harbor

Historic Comparisons of Soft Bottom Fishes and Invertebrates from the Bight Trawling Program (2014-2015)

California Ocean Science Trust

Marine and Hydrokinetic (MHK) Environmental Effects Assessment and Monitoring (2013-2015)

Bureau of Ocean Energy Management

Assessment of the Existing Sylmar Ground Return System Marine Electrode (2015)
Los Angeles Department of Water and Power

Characterization of rocky intertidal, kelp forest and deep rocky and sandy ecosystems at San Clemente Island (2012-2015)
United States Navy

Marine Biological Survey of San Pedro Bay (2013-2014)
Ports of Long Beach and Los Angeles

Occidental College Faculty Learning Community – Using the iPad as a Teaching Resource (2012-2013)
Occidental College – Center for Teaching Excellence/Center for Digital Learning and Research

The ecosystem impacts of kelp forest habitat restoration, including important fishery species (2012-2015)
USC Sea Grant

Kelp and Shallow-Reef Ecosystems: Baseline Data and Long-Term Trends Using Historical Data for the South Coast (2011-2015)
California Sea Grant

Sea Urchin Gonad Index: A Key to Understanding Secondary Production in the Restoration of Giant Kelp Forests off Palos Verdes (2011-2013)
California Sea Grant

Green Abalone Restoration in Southern California: Developing Tools for Genetic and Disease Risk Management (2011-2013)
NOAA Species of Concern National Program

Bight '08: Regional Survey Field Sampling and Laboratory Analyses Project (2008-2013)
Southern California Coastal Water Research Project (SCCWRP)

Caulerpa Survey for Ventura Harbor Boat Launching Facility Rehabilitation Project (2012)
Ventura Harbor

Monitoring and Research of the Rocky Reef Resources in Santa Monica Bay (2008-2010)
Santa Monica Bay Restoration Commission (SMBRC)

Investigation of Life History Parameters of Common Nearshore Marine Fishes (2006-2010)
Water Intake Structure Environmental Research (WISER), California Energy Commission

Least Tern Foraging Study (2008-2009)
United States Navy

Rocky Reef Resources of the Port of Los Angeles (2008-2009)
Port of Los Angeles

Assessment of Subtidal Rocky Reef Resources in Santa Monica Bay (2007-2008)
Santa Monica Bay Restoration Commission (SMBRC)

Determination of Fish Assemblages in Morro Bay, CA (2006-2008)
San Luis Obispo Science and Ecosystem Alliance (SLOSEA)

White Seabass Gill Net Sampling Program (2003-2006)
Ocean Resource Enhancement and Hatchery Program (OREHP), California Department of Fish and Game

Study of Fish Assemblages in the Port of Los Angeles (2003-2006)
Port of Los Angeles

Coastal Impact Assistance Program (CIAP) Nearshore Survey (2004-2005)
Cooperative Research and Assessment of Nearshore Ecosystems (CRANE)

Bight '03: Regional Survey Field Sampling and Laboratory Analyses Project (2003)
Southern California Coastal Water Research Project (SCCWRP)

Intern/Aquarist, Shedd Aquarium, Chicago, IL (2001)

SCUBA TRAINING AND CERTIFICATION

1750+ logged dives with 50,000+ min of bottom time (up to 35 meters)

PADI Open Water Diver (2004)

NAUI Master Scuba Diver (2004)

American Academy of Underwater Sciences (AAUS) Scientific Diver (2004)

Caulerpa taxifolia Control Protocol Certification (2006)

PADI Enriched Air Diver (2017)

Bathymetric Survey and Field Operations Training (EdgeTech 6205, SonarWiz) (2018)

PROFESSIONAL AFFILIATIONS

Western Society of Naturalists, 2003-Present

American Society of Ichthyologists and Herpetologists, 2004-Present

American Academy of Underwater Sciences, 2004-Present

Southern California Academy of Sciences, 2006-Present

American Fisheries Society, 2007-Present

Southern California Association of Ichthyological Taxonomists and Ecologists, 2010-Present

Abalone Restoration Coalition, 2011-Present

Association for the Sciences of Limnology and Oceanography, 2017-Present

AAUS Dive Control Board Member, Occidental College, 2011-Present

SELECT PUBLICATIONS

Williams, J.P., C.M. Williams, C.A. Blanchette, J.T. Claisse, D.J. Pondella II, J.E. Caselle. 2018.

Where the weird things are: A collection of species range extensions in the Southern California Bight. *Bulletin of the Southern California Academy of Sciences*. 117(3): 189-202.

[\(link\)](#)

Pondella, D.J. II, **J.P. Williams**, C.M. Williams, J.T. Claisse, D. Witting. 2018. Restoring a nearshore rocky reef ecosystem in the challenge of an urban setting. Pages 165-186 in S. A. Bortone, editor. *Marine artificial reef research and development: integrating fisheries management objectives*. American Fisheries Society, Symposium 86, Bethesda, Maryland.

[\(link\)](#)

Obaza, A.K. and **J.P. Williams**. 2018. Spatial and temporal dynamics of the overwater structure fouling community in southern California. *Marine and Freshwater Research*. 69: 1771-1783 [\(link\)](#)

Pondella, D.J. II, M.J. Robart, J.T. Claisse, **J.P. Williams**, C.M. Williams, A.J. Zellmer and S.E. Piacenza. 2018. Spatial and temporal fishing patterns at the outer banks of the Southern California Bight. *Western North American Naturalist* 78(3): 341-357. [\(link\)](#)

Claisse, J.T., C.A. Blanchette, J.E. Dugan, **J.P. Williams**, J. Friewald, D.J. Pondella II, N.K.

Schooler, D.M. Hubbard, K. Davis, L.A. Zahn, C.M. Williams, J.E. Caselle. 2018.

Biogeographic patterns of communities across diverse marine ecosystems in southern California. *Marine Ecology*. 39: e12453. [\(link\)](#)

Ebert, T.A., L.M. Barr, J.L. Bodkin, D. Burcham, D. Bureau, H.S. Carson, N.L. Caruso, J.E. Caselle, J.T. Claisse, S. Clemente, K. Davis, P.M. Detwiler, J.D. Dixon, D. O. Duggins, J.M. Engle, J.A. Estes, S.D. Groth, B.M. Grupe, P.Halmay, K.P. Hebert, J.C. Hernández, L.J. Jurgens, P.E. Kalvass, M.C. Kenner, B. Konar, D.J. Kushner, L.C. Lee, D.L. Leighton, G. Montaña-Moctezuma, J.E. Munk, I. Olguin, J.S. Palleiro, D.O. Parker, J.S. Pearse, D.J. Pondella, L. Rogers-Bennett, S.C. Schroeter, A.O. Shelton, J.Sonnenholzner, I.K. Taniguchi, G.R. VanBlaricom, J.C. Watson, B.P. Weitzman, **J.P. Williams**, J. Yakimishyn, Z. Zhang. 2018. Size, growth, and density data for shallow-water sea urchins from Mexico to the Aleutian Islands, Alaska, 1956-2016. *Ecology*. 99(3): 761+51. [\(link\)](#)

Winston, M.S., J.T. Claisse, C.M. Williams, **J.P. Williams**, D.J. Pondella II. 2018. Age and growth of the Giant Kelpfish, *Heterostichus rostratus* Girard 1854, in Southern California, USA. *Journal of Applied Ichthyology*. 34: 91-96. [\(link\)](#)

- Zahn, L.A., J.T. Claisse, **J.P. Williams**, C.M. Williams, D.J. Pondella II. 2016. The biogeography and community structure of kelp forest macroinvertebrates. *Marine Ecology*. 37: 770-785. ([link](#))
- Pondella, D.J., II, **J.P. Williams**, J.T. Claisse, R. Schaffner, K. Ritter, K. Schiff. 2015. The physical characteristics of nearshore rocky reefs in the Southern California Bight. *Bulletin of the Southern California Academy of Sciences* 114(3): 105-122. ([link](#))
- Mikovari, A., **J.P. Williams**, F. Oakes, R.B. Lincicum, A.J. Zellmer, G.G. Martin. 2015. Radula development in the giant key-hole limpet, *Megathura crenulata*. *Journal of Shellfish Research* 34(3): 893-902. ([link](#))
- Marks, L.M., P. Salinas-Ruiz, D.C. Reed, S.J. Holbrook, C.S. Culver, J.M. Engle, D.J. Kushner, J.E. Caselle, J. Freiwald, **J.P. Williams**, J.R. Smith, L.E. Aguilar-Rosas and N.J. Kaplanis. 2015. Range expansion of a non-native, invasive macroalga *Sargassum horneri* (Turner) C. Agardh, 1820 in the eastern Pacific. *BioInvasions Records* 4(4): 243-248. ([link](#))
- Claisse, J.T., D.J. Pondella II, M. Love, L.A. Zahn, C.M. Williams, J.P. Williams, A.S. Bull. 2014. Oil platforms off California are among the most productive marine fish habitats globally. *Proceedings of the National Academy of Sciences* 111(43): 15462-15467. ([link](#))
- Gruenthal, K.M., D.A. Witting, T. Ford, M.J. Neuman, **J.P. Williams**, D.J. Pondella II, A. Bird, N. Caruso, J.R. Hyde, L.W. Seeb, W. A. Larson. 2014. Development and application of genomic tools to the restoration of green abalone in southern California. *Conservation Genetics* 15(1): 109-121. ([link](#))
- Williams, C.M., **J.P. Williams**, J.T. Claisse, D.J. Pondella II, M.L. Domeier, L.A. Zahn. 2013. Morphometric relationships of marine fishes common to central California and the Southern California Bight. *Bulletin of the Southern California Academy of Sciences* 112(3): 217-227. ([link](#))
- Claisse, J.T., **J.P. Williams**, T. Ford, D.J. Pondella II, B. Meux, L. Protopapadakis. 2013. Kelp forest habitat restoration has the potential to increase sea urchin gonad biomass. *Ecosphere* 4(3): 38. ([link](#))
- Pondella, D.J., II, **J.P. Williams**, J.T. Claisse, E.F. Miller. 2012. The ichthyoplankton of King Harbor, Redondo Beach, California 1974-2009. California Cooperative Oceanic Fisheries Investigations Report 53: 95-106. ([link](#))
- Williams, J.P.**, J.T. Claisse, D.J. Pondella II, L. Medeiros, C.F. Valle, M.A. Shane. 2012. Patterns of Life History and Habitat Use of an Important Recreational Fishery Species, Spotfin Croaker, and Their Potential Fishery Implications. *Marine and Coastal Fisheries: Dynamics, Management, and Ecosystem Science* 4(1): 71-84. ([link](#))
- Claisse, J.T., D.J. Pondella II, **J.P. Williams**, J. Sadd. 2012. Using GIS mapping of the extent of nearshore rocky reefs to estimate the abundance and reproductive output of important fishery species. *PLoS ONE* 7(1): e30290. ([link](#))
- Miller, E.F., **J.P. Williams**, D.J. Pondella II. 2011. Queenfish (*Seriphus politus*) and white croaker (*Genyonemus lineatus*) larval growth parameters. California Cooperative Oceanic Fisheries Investigations Report 52: 75-79. ([link](#))
- Williams, J.P.**, D.J. Pondella II, B.M. Haggin, L.G. Allen. 2011. New record of Pacific sierra (*Scomberomorus sierra*) with notes on previous California records. *California Fish and Game* 97(1): 44-47. ([link](#))
- Miller, E.F., **J.P. Williams**, D.J. Pondella II, K.T. Herbinson. 2009. Life history, ecology and long-term demographics of queenfish (*Seriphus politus*). *Marine and Coastal Fisheries: Dynamics, Management, and Ecosystem Science* 1: 187-199. ([link](#))
- Williams J.P.**, L.G. Allen, M.A. Steele, D.J. Pondella II. 2007. El Niño periods increase growth of juvenile white seabass (*Atractoscion nobilis*) in the Southern California Bight. *Marine Biology* 152(1): 193-200. ([link](#))

REPRESENTATIVE TECHNICAL REPORTS

- Walther, S.M., **J.P. Williams**, A. Latker, D.B. Cadien, D.W. Diehl, K. Wisenbaker, E. Miller, R. Gartman, C. Stransky and K. Schiff. 2017. Southern California Bight 2013 Regional Monitoring Program: Volume VII. Demersal Fishes and Megabenthic Invertebrates. Southern California Coastal Water Research Project. Costa Mesa, CA. ([link](#))
- Pondella, D.J., II, M.J. Robart, **J.P. Williams**. 2017. Annual Receiving Water Monitoring Report. Chevron Products Company, El Segundo Refinery (NPDES permit No. CA000337).
- Williams, J.P.**, D.J. Pondella II, K.C. Schiff. 2015. Analysis of Soft-Bottom Fish and Invertebrate Communities from the Southern California Bight, 1994-2013. California Ocean Science Trust, Sacramento, CA. ([link](#))
- Williams, J.P.**, D.J. Pondella II, C.M. Williams, M.J. Robart. 2016. Fisheries Inventory and Utilization Study to Determine Impacts from El Niño in San Diego Bay, San Diego, California for Surveys conducted in April and July 2016. Unified Port of San Diego, San Diego, CA.
- Pondella, D.J., II, **J.P. Williams**, Jeremy T. Claisse, Ph.D. 2012. Biology and Physical Characteristics of the Nearshore Environment of the Bunker Point Restoration Area and the Palos Verdes Peninsula II. NOAA Restoration Center/Montrose Settlement Program. ([link](#))
- Pondella, D.J., II, **J.P. Williams**. 2009. The Rocky Reef Resources of the Port of Los Angeles: A Progress Report on Research Activities in Conjunction with SCCWRP's Bight '08 Rocky Reef Program.

SELECT PROFESSIONAL PRESENTATIONS

- Williams, J.**, D. Pondella II, J. Claisse, C. Williams, and M. Robart. Long-term monitoring of kelp forest and tidepool communities: before, during, and after sea star wasting in southern California. Western Society of Naturalists - Monterey, CA, 2016
- Williams, J.**, J. Claisse, D. Pondella II, and C. Williams. Characterization of kelp forest fish populations at San Clemente Island, California. American Society of Ichthyologists and Herpetologists - Reno, NV, 2015
- Williams, J.**, and D. Pondella II. The Underwater 18th Hole: Assessing the restoration potential of a buried reef at Bunker Point, Palos Verdes Peninsula. Western Society of Naturalists - Oxnard, CA, 2013
- Williams, J.**, J. Claisse, T. Ford, D. Pondella II, L. Fink. Declining kelp forest ecosystem health and potential fisheries losses due to destructive urchin grazing at Palos Verdes Peninsula. Southern California Academy of Sciences - Los Angeles, CA, 2012
- Williams, J.**, T. Ford, and D. Witting. Input and extraction: Using indices of benthic cover, algal and invertebrate density, and indicator species to determine anthropogenic influences on rocky reefs. Southern California Academy of Sciences - Pomona, CA, 2011.
- Williams, J.**, D. Pondella II, and E. Miller. Life history of the Spotfin Croaker (*Roncador stearnsii*): an otolith based update to a 47-year-old study. International Otolith Symposium - Monterey, CA, 2009.
- Williams, J.** The relationship between El Niño/Southern Oscillation events and growth of juvenile White Seabass (*Atractoscion nobilis*). American Society of Ichthyologists and Herpetologists - New Orleans, LA, 2006.