

Curriculum Vitae

Tom Ford

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EXPERIENCE

LOYOLA MARYMOUNT UNIVERSITY

Faculty Affiliate April 2018 - Present

Faculty Affiliate to the Seaver College of Science and Engineering Environmental Science Program. Serve with fellow affiliates to guide the program through curricula development and programmatic evaluation.

COASTAL RESEARCH INSTITUTE

Co-Executive Director November 2017 - Present

Strategic planning, development and supervision of the operations of the Coastal Research Institute at Loyola Marymount University. Jointly managed with the Dean's Office of the Frank R. Seaver College of Science and Engineering, faculty of the college, and university administration.

SANTA MONICA BAY NATIONAL ESTUARY PROGRAM

Director June 2014 - Present

Implementation and development of strategic planning, 20-30-year horizon, annual work plans and associated reporting requirements of the National Estuary Program as defined by the United States Environmental Protection Agency. Coordination and guidance of the Program's policy, management, technical, and public committees.

THE BAY FOUNDATION

Executive Director May 2014 - Present

Direction and development of strategic, operational, financial, human resources, communications, development, and reporting associated with an approximate 2.0-million-dollar budget. Accountable to The Bay Foundation Board of Directors and 15 employees.

SANTA MONICA BAY RESTORATION COMMISSION

Executive Director July 2014 – July 2017

Administration and coordination of a Governing Board, Technical Advisory Committee and Watershed Advisory Council regarding the implementation of Santa Monica Bay National Estuary Program's Bay Restoration Plan.

SANTA MONICA BAY RESTORATION AUTHORITY

Executive Officer July 2014 – July 2017

Administration, coordination and execution of contracts and services to implement aspects of the Santa Monica Bay National Estuary Program's Bay Restoration Plan. The Authority exists as a Joint Exercise of Powers Agreement between The Bay Foundation and the Flood Control District of Los Angeles County.

LOYOLA MARYMOUNT UNIVERSITY

Professor August 2011 - Present

Senior Lecturer for the Frank R. Seaver College of Science and Engineering. Course taught is Introduction to Environmental Science.

THE BAY FOUNDATION

Director of Marine Programs May 2010 – May 2014

Strategic and financial development for the implementation of marine management and restoration plans, direction and management of field teams, permits, supervision of dive operations, selection, training, and management of commercial fisherman sub-contractors, member of the TBF's internal management team.

LOS ANGELES WATERKEEPER

Executive Director December 2007 - May 2010

Diversified programs and partnerships, expanded organizational budget, led strategic planning, advocacy, managed consent decrees, management of legal teams, board relations, human resources, media relations, contracts, financial reporting, community relations, and Clean Water Act enforcement. Oversight of a 5-billion-dollar settlement with City of Los Angeles.

Associate Director January 2007 - December 2007

Implementation of strategic/annual plan, supervision of staff, diversified program specific funding, expansion of unrestricted funding.

Kelp Project Director July 2002 - May 2010

Growth of program from 50k annual to 200k, increased scope of project to include partners throughout southern California, volunteer recruitment and training, educational programs grown from 3 classrooms to include all of Los Angeles and Santa Monica Malibu Unified School Districts approximately 700,000 students.

UNIVERSITY OF CALIFORNIA LOS ANGELES

Senior Aquarist April 1998 - July 2002

Design and installation of exhibits to support the educational curriculum for the UCLA Ocean Discovery Center, now Santa Monica Pier Aquarium. Other duties included, management, development and training of staff and volunteers.

THE MARITIME AQUARIUM AT NORWALK

Aquarium Supervisor February 1994 - March 1998

Head of pathology and collections, supervision of staff and volunteers, relationship building with fishing community, working aboard fishing and scientific collection vessels, management of quarantine facilities.

OCEAN CHANNEL DREDGES

Biological Observer December 1992 - May 1993

Working off south Atlantic coast of United States on hopper dredges, coordination with aerial surveys and neighboring vessels to avoid right whales and sea turtles.

NARRAGANSETT BAY

Commercial Shell Fisherman May 1989 - May 1991

Harvest of hard clams for live market, contributed to community based resource management.

EDUCATION

UNIVERSITY OF CALIFORNIA LOS ANGELES

Master of Arts, Marine Ecology May 2005

Research focused on macroalgal community dynamics

UNIVERSITY OF RHODE ISLAND

Bachelor of Arts, Biology May 1994

Research focused on loggerhead sea turtles

MEMBERSHIP

GWAIL HAANAS KELP RESTORATION PROGRAM STEERING COMMITTEE, 2018

Member

Advise and Support Canadian National Parks and the Haida Nation in the restoration of kelp forests and related ecosystem services in British Columbia

GULF OF FARALLONES NATIONAL MARINE SANCTUARY KELP RECOVERY MANAGEMENT GROUP, 2018

Member

Advise the development of the Kelp Recovery Management Plan for the National Marine Sanctuary off the coast of northern California including Mendocino and Sonoma Counties

SOUTHERN CALIFORNIA COASTAL OCEAN OBSERVING SYSTEM - CENTRAL AND NORTHERN CALIFORNIA OCEAN OBSERVING SYSTEM JOINT STRATEGIC ADVISORY COMMITTEE, 2016 – Present

Member

Guide and comment on existing operations, and participate in strategic planning efforts

SOUTHERN CALIFORNIA MARINE INSTITUTE, 2015 - Present

Vice President Board Member

Strategic planning and operational oversight of SCMI. Membership includes UCLA, USC, Occidental College, and eight California State Universities

THE OCEAN SCHOOL, 2015 - 2017

Advisory Board Member

Technical advice regarding applied research issues of importance to a project based curriculum for middle and high school students

ASSOCIATION OF NATIONAL ESTUARY PROGRAMS, 2014 - Present

Board Member

Coordination and direction of the nonprofit organization; Association of National Estuary Programs, member of the finance committee

CITY OF SANTA MONICA CLEAN BEACHES CLEAN OCEANS COMMITTEE, 2010 - 2018

Chair

Oversight of stormwater infiltration and water quality projects and 15 million dollar budget related to City of Santa Monica Measure V bond initiative

SOUTHERN CALIFORNIA ACADEMY OF SCIENCES, 2014 - 2017

Board Member

Oversight of the activities of SCAS, annual meeting, publications, and award of grants

ECOSYSTEM BASED MANAGEMENT NETWORK, 2012 - 2013

Organizational Member

Collaboration with fishing groups, resource managers and local agencies, to define metrics associated with the term "ecosystem based management"

CALIFORNIA DF&W OIL SPILL PREVENTION AND RESPONSE TECHNICAL ADVISORY COMMITTEE, 2008 - 2017

Committee Member

Oversight of operations and policy development for 50 million dollar budget related to state agency, responses to Deep Water Horizon, Cosco Busan oil spills in Gulf of Mexico and San Francisco

SOUTHERN CALIFORNIA OCEAN RESTORATION DIVERS, 2006 - Present

Founder and Board Member

Oversight of adherence to American Academy of Underwater Sciences protocols for all SCUBA divers involved in scientific diving, supervision of Dive Safety Officer

WATERKEEPER ALLIANCE INTERNATIONAL PROGRAM SUPPORT COMMITTEE, 2008 - 2010

Committee Member

Develop policies and strategies for fundraising, and small grant program.

COASTKEEPER ALLIANCE BOARD OF DIRECTORS, 2006 - 2010

Treasurer and President

Led five year strategic planning for the Alliance and 12 sister organizations, development of policies/bylaws related to board function, oversight and development of financial resources

SANTA MONICA BAY RESTORATION COMMISSION GOVERNING BOARD, 2006 - 2010

Vice Chair Executive Committee

Policy development for marine and watershed issues, compromise forged through diverse interests, technical input on 10 million dollars of grants for water quality and habitat restoration projects

SANTA MONICA BAY RESTORATION FOUNDATION BOARD OF DIRECTORS, 2006 - 2010

Finance Committee

Oversight of financial health, assistance in audit and financial reviews, amendment of bylaws and policies related to human resources, general accounting principals

LOS ANGELES LONG BEACH HARBOR SAFETY COMMITTEE, 2004 - 2008

Environmental Representative

Review and revision of annual harbor safety plan, address vessel traffic patterns related to cetaceans and port activities

GRANTS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY, 2015-2019

\$600,000 annual budget

Develop Annual Work Plan for the Santa Monica Bay National Estuary Program. Focus on regional coordination and program to promote water quality, protect and restore natural resources, and adapt to climate change stressors, applied to the coastline of Los Angeles County.

CALIFORNIA STATE COASTAL CONSERVANCY, 2018

\$484,000

Living shoreline program at Dockweiler beach, Los Angeles; supported by carbon mitigation funding. Includes; foredune, backdune and offshore eelgrass restoration on a beach recognized as serving a disadvantaged community.

AGRICULTURAL RESEARCH INSTITUTE, California Polytechnic University Pomona, 2016

\$61,000

Research targeting green abalone to assist the abalone aquaculture industry in climate change sustainability/resiliency.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY, 2016

\$65,000

Deployment and operation of pH, dissolved oxygen, dissolved carbon dioxide, and temperature array in Santa Monica Bay to track ocean acidification in the near shore pelagic environment.

NATIONAL FISH AND WILDLIFE FOUNDATION, 2016

\$20,000

Development of restoration methods for the endangered white abalone.

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION-NATIONAL MARINE FISHERIES SERVICE, 2015

\$360,000

Funding to conduct abalone spawning, maintenance and construction of an abalone mariculture center for red and green abalone.

CALIFORNIA STATE COASTAL CONSERVANCY, 2015

\$68,000

Hydrodynamic research to determine physical oceanographic changes resulting from giant kelp restoration.

CALIFORNIA STATE COASTAL CONSERVANCY, 2015

\$17,000

Research supporting method development and trials for green abalone spawning methods.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY, 2015

\$20,000

Broad Scale Climate Change Vulnerability support grant for Santa Monica Bay National Estuary Program.

MONTROSE SETTLEMENTS RESTORATION PROGRAMS, 2010

\$3,300,000

Restoration of 61.5 hectares of rocky reef off of Palos Verdes; direction of diverse coalition involved in ecological restoration, monitoring and research.

THE NATURE CONSERVANCY/NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, 2012

\$84,000

Method development and experimentation with multiple life stages of green abalone to determine efficacy for large scale restoration of the green abalone and congeners to southern California coastal waters.

USC SEA GRANT, 2012

\$62,350

The ecosystem impacts of kelp forest habitat restoration, including production of important fishery species.

MPA MONITORING ENTERPRISE - CALIFORNIA OCEAN SCIENCE TRUST, 2011

\$234,852

MPA South Coast Baseline Program: baseline data collection and long-term trends using historical data to describe the extant condition and biological resources associated with shallow rocky reefs and kelp forests in southern California.

CALIFORNIA SEA GRANT, 2011

\$9,760

Collection and dissection of sea urchins to measure secondary production in giant kelp forests off of Palos Verdes, these data will be used to track secondary production relative to kelp restoration on Palos Verdes.

CAMPBELL FOUNDATION, 2011

\$180,000

Aerial Surveys conducted from small aircraft to describe type, location and disposition of boats operating in state waters off the coast of southern California.

NOAA SPECIES OF CONCERN [Internal], 2011

\$37,000

Green abalone population structure research: top rated proposal from a national pool of 35 proposals.

AMERICAN RECOVERY AND REINVESTMENT ACT, 2009

\$2,100,000

Design and construction of native vegetation rain garden to collect stormwater runoff from 14 acre industrial complex

NOAA NATIONAL ESTUARIES PROGRAM COMMUNITY RESTORATION PROJECTS, 2009
\$30,000

Volunteer development and restoration of kelp forests off Palos Verdes.

SANTA MONICA BAY RESTORATION COMMISSION SEP, 2009
\$60,000

Two acre giant kelp restoration effort off Palos Verdes Peninsula.

WALLACE GLOBAL FUND, 2009
\$50,000

Support for advocacy work related to stormwater, wastewater and once through cooling.

MARISLA FOUNDATION, 2008
\$210,000

Support for Advocacy work related to stormwater, wastewater, once through cooling and the Marine Life Protection Act Initiative.

RESOURCES LEGACY FUND FOUNDATION, 2008
\$100,000

Aerial surveys from small aircraft to document type and location of vessels operating in California State Waters, Pt. Conception to US-Mexican Border.

CALIFORNIA STATE COASTAL CONSERVANCY - SANTA MONICA BAY RESTORATION
COMMISSION, 2004

\$687,000

Funding to expand kelp restoration and education efforts throughout southern California.

NOAA COMMUNITY RESTORATION PROGRAMS, 2001
\$1,294,000

Regional kelp restoration grant incorporating Santa Barbara, Los Angeles, Orange and San Diego Counties.

PRESENTATIONS

RESTORE AMERICA'S ESTUARIES, 2018

The Growth of a Kelp Restoration Project: Informing the Characteristics of Coastal Management

UNIVERSITY OF CALIFORNIA LOS ANGELES, Senior Practicum, 2016-2018

Research of spatial heterogeneity of Ocean Acidification-Hypoxia in surface waters of Santa Monica Bay.

UNIVERSITY OF CALIFORNIA LOS ANGELES, Restoration Ecology Course, 2018

Guest Lecture on kelp forest dynamics, restoration and related research

SOCIETY OF ENVIRONMENTAL TOXICOLOGY AND CHEMISTRY SOUTHERN CALIFORNIA
CHAPTER, 2018

Giant kelp restoration and sieve tube sap analysis for metals

UNIVERSITY OF SOUTHERN CALIFORNIA, 2018

Seminar on kelp forest dynamics, restoration and related research

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY, 2018

Presentation on polices, programs and regulations related to marine debris and trash in fresh water systems

SOUTHERN CALIFORNIA COASTAL OCEAN OBSERVING SYSTEM, Board of Governors, 2017
Research regarding coastal ocean processes, macroalgal communities and climate change stressors.

NORWEGIAN EMBASSY, Tokyo Japan, 2016
Presentation to Norwegian Ambassador to Japan regarding coastal management practices and fishery benefits associated with kelp forest restoration.

SOUTHERN CALIFORNIA ACADEMY OF SCIENCES, 2004 - 2007, 2010 - 2013, 2015 - 2018
Aerial mapping of ocean going vessels for resource management, and progress and results of giant kelp restoration project and affiliated work.

WESTERN SOCIETY OF NATURALISTS, 2004, 2013, 2015
Progress and results of Malibu and Palos Verdes Kelp Forest Restoration.

LOYOLA MARYMOUNT UNIVERSITY, Environmental Sciences and Faculty Pub Night, 2016
Giant kelp community ecology, human interactions, aquaculture.

UNIVERSITY OF CALIFORNIA LOS ANGELES, Seminar Applied Ecology, 2005, 2010
Giant kelp community dynamics, urbanized coastal processes, Marine Life Protection Act Initiative, marine spatial planning.

OCCIDENTAL COLLEGE, Marine Biology 2008 - 2009, 2015
Giant kelp community dynamics, ecological restoration and urbanized coastal processes

SANTA MONICA COLLEGE, 2010 – 2013, 2019
Giant kelp community dynamics, ecological restoration and urbanized coastal processes

SOUTHERN CALIFORNIA WETLANDS RECOVERY PROJECT, 2007
Giant kelp community dynamics, ecological restoration and urbanized coastal processes

CALIFORNIA STATE UNIVERSITY FULLERTON, 2006
Giant kelp community dynamics, ecological restoration and urbanized coastal processes

CALIFORNIA STATE UNIVERSITY LONG BEACH, 2006
Giant kelp community dynamics, ecological restoration and urbanized coastal processes

RESTORE AMERICA'S ESTUARIES, 2004
Giant kelp community dynamics, ecological restoration and urbanized coastal processes

PUBLICATIONS

Zellmer, A., H. Burdick, I. Medel, D. Pondella, T. Ford. 2018. *Aerial surveys and distribution models enable monitoring of fishing in Marine Protected Areas for Ocean and Coastal Management*. Ocean and Coastal Management.

Grubbs, M.W., K.K. Johnston, G. Wang, and T. Ford. 2016. *Climate Change Vulnerability Assessment of the Santa Monica Bay National Estuary Program's Bay Restoration Plan*. Final Report prepared by the Santa Monica Bay National Estuary Program for the United States Environmental Protection Agency. 30 September, 2016. 184 pages.

Ford, T., Opinion *Our coastal waters are in trouble. Here's how we can help save them and fight the drought*. LA Times, March 2016

Claisse, J.T., J.P. Williams, T.K. Ford, D.J. Pondella, B. Meux, L. Protopapadakis. 2013.
Kelp Forest Habitat Restoration has the Potential to Increase Sea Urchin Gonad Biomass. Ecosphere,
Volume 4(3), Article 38, March 2013.

Gruenthal, K.M., D.A. Witting, T. Ford, M.J. Neuman, W.A. Larson, J.P. Williams, D.J. Pondella II, A. Bird,
N. Caruso, J.R. Hyde, L.W. Seeb, W.A. Larson. 2013.
Development and application of genomic tools to the restoration of green abalone in southern California.
Conservation Genetics, DOI 10.1007/s10592-013-0524-5, August 2013

Ford, T., B. Meux. *Giant Kelp Community Restoration in Santa Monica Bay.* 2010.
Urban Coast. Volume 2, Number 1, November 2010

Meux, B., T. Ford, H. Wilson. *Kelp Restoration and the Santa Monica Baykeeper.* 2010.
The Journal of Global Underwater Explorers Quest. Vol. 11, No. 2 Spring 2010

Fleischli, S., R. Super, T. Ford. *Power Plants Don't Have to Suck (Literally)*
Huffington Post. Sept. 12, 2009.

Ford, T. *River Run Dry.*
Waterkeeper Magazine. Fall 2008.

Ford, T. 1997. *Capture and Acclimation of Menhaden (Brevortia tyrannus and Brevortia brevicaudata),
reduction of stress and capture related mortality.*
Drum and Croaker, Vol. 28.

CONTRIBUTIONS

Bay Foundation Successfully Addressing Troubled Coastal Waters.
The Planning Report, April 14, 2016

A NEW LEAF Seaweed could be a miracle food-if we can figure out how to make it taste good,
The New Yorker, November 2, 2015. Dana Goodyear

Kelp Forest Restoration Project Benefits Underwater Life.
ECO Magazine, January February 2014. Pgs. 26-31

From Coast to Toast
Vanity Fair, August 2013. Vanessa Grigoriadis

Helping kelp now an urchin matter.
Los Angeles Times, August 12, 2013. Tony Barbosa

Science-Based Restoration Monitoring of Coastal Habitats,
NOAA Coastal Ocean Program, Decision Analysis Series No. 23, Volume 2. April 2005.

Bringing Kelp Forests Back to Life.
California Coast and Ocean, Vol. 21. Canwright, A. 2005.