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EDUCATION

Ph.D in botany, GPA 4.0, marine track, University of Hawai'i at Mānoa	2015
M.S. in botany, GPA 4.0, marine track, University of Hawai'i at Mānoa	2009
B.S. in biology, GPA 3.6, chemistry minor, University of Vermont	2004
Courses in marine science, University of Otago, New Zealand	2003
Courses in marine science, University of Sydney, Australia	2002

EXPERIENCE

Project Leader, Water Resources Research Center, University of Hawai'i at Mānoa. 6/15 – present
Project title: Identifying future hotspots for algal blooms: A multi-dimensional analysis evaluating impacts of potential land-based sources of pollution on the health of American Samoa's coasts. Responsible for the design and implementation of an interdisciplinary study on Tutuila, American Samoa. This 3-year study relies on measurements of water quality, algal tissue chemistry, land use, and DNA-based analyses of coral, biofilm, and water microbes to compare the health of nearshore reefs relative to adjacent land use. Duties include field-team management, data collection, analysis, publication of results, and communication of management recommendations to the American Samoa Environmental Protection Agency.

Research Assistant, Sea Grant College Program, University of Hawai'i at Mānoa. 3/12 – 5/15
Project title: Connecting Land Use to Submarine Discharge Loads and Coral Reef Health within the Coastal Zones of Maui. Developed a method to identify potential sources of nitrogen to Hawaii's coastal waters using algae. Responsible for the design, execution, analysis, and publication of biological and geochemical experiments on Maui that examined the connectivity between watersheds and nearshore reefs.

US EPA STAR Research Fellow, United States Environmental Protection Agency. 8/11 – 12/14
Project title: Effects of Submarine Groundwater Discharge as a Vector for Sewage Effluent on Hawaiian Coral Reefs. Responsibilities included all aspects of self-directed, doctoral research.

PUBLICATIONS

Amato DW, Bishop JM, Glenn CR, Dulai H, and CM Smith (2016). Impact of Submarine Groundwater Discharge on Marine Water Quality and Reef Biota of Maui. PLoS ONE 11(11): e0165825. doi:10.1371/journal.pone.0165825

Bishop JM, Glenn CR, Amato DW, and H Dulai (2016). Effect of land use and groundwater flow path on submarine groundwater discharge nutrient flux. Journal of Hydrology: Regional Studies

Amato DW (2015). Ecophysiological responses of macroalgae to submarine groundwater discharge in Hawai'i. PhD dissertation. University of Hawai'i at Mānoa, Honolulu, Hawai'i

Duarte TK, Pongkijvorasin S, Roumasset J, Amato DW, and K Burnett (2010). Optimal management of a Hawaiian coastal aquifer with nearshore marine ecological interactions. Water Resources Research 46, W11545

Amato DW (2009). Physiological effects of simulated submarine groundwater discharge on the Hawaiian endemic edible alga *Gracilaria coronopifolia*. MS thesis. University of Hawai'i at Mānoa

TECHNICAL QUALIFICATIONS

Scientific SCUBA diver, rescue diver, master diver, nitrox certified diver, and current first aid/CPR. Proficient in R, ArcGIS, GPS, PAM-fluorometry, SuperSting resistivity imaging, underwater photography, benthic community analyses, pigment spectrometry, radon and radium measurement, water sampling, multi-meter measurements, microbial community assessments of water and biofilm, coral sampling, statistical analysis, and small watercraft operation.