

Marguerite Blum

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sea1nymph@yahoo.com
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OBJECTIVE

Assist in the gathering of knowledge within ocean systems by means of deck hand assistance

EDUCATION

Bachelor of Science, Aquatic Biology University of California, Santa Barbara
Bachelor of Arts, Dance Santa Barbara, CA

EMPLOYMENT

*Research Technician, Monterey Bay Aquarium Research Institute Moss Landing, CA,
May 2014 – current*

- Cruise Leader for several oceanographic day cruises at MBARI
- Managed the nutrient laboratory at MBARI: Duties included running Nutrient Analyzer, Oxygen Titrations in the Winkler Method, Salinometer, TCO₂ Analysis, and processing all the analyzed data.
- Assisted manager of the Radioactive Laboratory using 14C isotope on cruises and in the laboratory.

*Staff Research Assistant III, Long Marine Laboratories University of California, Santa Cruz.
Oct. 2003 – April 2014*

- Participated twice a year in oceanographic cruises with NOAA for the California Cooperative Oceanic Fisheries Investigation (CalCOFI)

*Collaborator, Monterey Bay Aquarium Research Institute Moss Landing, CA,
Oct. 2003 – April 2014*

- Cruise Leader for several oceanographic day cruises at MBARI
- Managed the nutrient laboratory at MBARI: Duties included running Nutrient Analyzer, Oxygen Titrations in the Winkler Method, Salinometer, TCO₂ Analysis, and processing all the analyzed data.
- Assisted manager of the Radioactive Laboratory using 14C isotope on cruises and in the laboratory.

Intern, MBARI Moss Landing, CA. June-Aug. 2003

- Internship at MBARI, performed a ground-truth for the LISST 100

Research Assistant, Marine Science Institute UCSB Santa Barbara, CA. April-June 2003

- Sorted California grasses using the genus and species

Teaching Assistant, Research Mentorship Program UCSB Santa Barbara, CA. Jan.-March 2003

Research Assistant, Marine Science Institute UCSB Santa Barbara, CA. May 2001-Dec. 2002

- Assisted in live fish experiment, collection and analysis both in the field and laboratory
- Identified marine invertebrates from terracotta tiles and fish guts
- Used the Anderson Process to measure particulate phosphate and the Valderrana Method to determine total dissolved nitrogen and total dissolved phosphorus
- Surveyed the Mission Creek River for the Long Term Ecological Research Project

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SKILLS

- Nutrient Analysis on Rapid Flow Analyzer using NAP 4.2
- Oxygen Titrations using the Winkler Method
- Salinity analysis using an Autosal Salinometer
- TCO₂ Analysis
- Ammonia Analysis using OPA method on hand held analyzer, Aquafluor
- Basic SCUBA certified
- Capable in all Microsoft Office programs

PUBLISHED PAPERS

- Pennington, J.T., M. Blum, F.P. Chavez (2015) Seawater sampling by an autonomous underwater vehicle: “Gulper” sample validation for nitrate, chlorophyll, phytoplankton, and primary production, *Limnology and Oceanography: Methods*, (<http://onlinelibrary.wiley.com/doi/10.1002/lom3.10065/pdf>)
- Rago, T., Catro-Valdez, R., Margonlina, T., Blum, M., Wheeler, A., Collins, C. (2013) Physical Measurements of Water Properties Across the Mouth of the Gulf of California During April 2013 (PESCAR24 Cruise). *Naval Postgraduate School Technical Reports*, NPS-OC-13-001.
- Chavez, F. Viveros, A., Messié, M., Michisaki, R., Blum, M., Gaxiola-Castro, G., Friederich, G. (2013) A Synthesis of seawater pCO₂ along the western coast of the Americas. *Global Biogeochemical Cycles*, doi: 2013-12-02/ 2013GB004785.
- Rago, T., Michisaki, R., Marinovic, B., Blum, M. (2012) Physical, Nutrient, and Biological Measurements of Coastal Waters off Central California in March 2012. *Naval Postgraduate School Technical Reports*, NPS-OC-12-007.
- Rago, T., Michisaki, R., Marinovic, B., Blum, M., Whitaker, K. (2011) Physical, Nutrient, and Biological Measurements of Coastal Waters off Central California in July 2010. *Naval Postgraduate School Technical Reports*, NPS-OC-11-003.
- Rago, T., Michisaki, R., Marinovic, B., Blum, M., Whitaker, K. (2011) Physical, Nutrient, and Biological Measurements of Coastal Waters off Central California in November 2010. *Naval Postgraduate School Technical Reports*, NPS-OC-11-008.
- Aoyama, M., et al. (2008) 2006 Inter-laboratory Comparison Study for Reference Material for Nutrients in Seawater. *Technical Reports of The Meteorological Research Institute*, No. 58.
- Rago, T., Michisaki, R., Marinovic, B., Blum, M., Whitaker, K. (2008) Physical, Nutrient, and Biological Measurements of Coastal Waters off Central California in November 2007. *Naval Postgraduate School Technical Reports*, NPS-OC-08-004.
- Rienecker E., Ryan J., Blum M., Dietz C., Coletti L., Marin R., Bissett W.P. (2008) Mapping phytoplankton in-situ using a laser-scattering sensor. *Limnology and Oceanography-Methods*, **6**, 153-161.