

**Brian Zelenke**  
**Senior Research Scientist**

California Polytechnic State University  
Center for Coastal Marine Sciences  
San Luis Obispo, CA 93407-0401  
(805)-756-7060  
[bzelenke@calpoly.edu](mailto:bzelenke@calpoly.edu)

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**Relevant Experience:**

**Senior Research Scientist:** *California Polytechnic State University  
Cal Poly Corporation  
San Luis Obispo, California (11/2008 – present)*

**Senior Research Associate:** *(8/2006 – 10/2008)*

**Research Assistant:** *(1/2006 – 7/2006)*

- Responsible for the management and operation of the ocean surface current mapping network along the central California coast for the Coastal Ocean Currents Monitoring Program (COCMP)
- Coordinates support of interested federal, state, and private coastal landowners for the placement of oceanographic instrumentation
- Supervises the site selection and installation of the CODAR SeaSonde<sup>®</sup> high-frequency (HF) radar sites in the central California coast region for the COCMP
- Provides marine data to the public in real-time via a website interface designed for ease of use by both laymen and researchers
- Manages Center for Coastal Marine Sciences information technology (IT) network

**Graduate Research Assistant:** *Oregon State University with NASA Space Grant  
Corvallis, Oregon (9/2002 – 12/2005)*

- Analyzed and processed HF-radar surface current data for Ocean Currents Mapping Lab
- Automated recognition of false readings in real-time measurements of ocean surface currents
- Analyzed HF-radar response to wind forcing by transforming physical principles into MATLAB computer code
- Programmed a statistical model to predict vector surface currents from forecasts of the coastal wind field

**NSF REU Intern:** *Virginia Institute of Marine Science  
Gloucester Point, Virginia (5/2001 – 8/2001)*

- Determined residence time in Hog Island Bay, VA using a 2-D finite element model with intertidal dewatering
- Cut the error in the model by refining the Fortran and MATLAB code
- Refined model code allowing P.I. to evaluate nitrogen flow across the land into the bay

**Education:**

**M.S., College of Oceanic & Atmospheric Sciences, Corvallis, Oregon (2005)**

Major in Oceanography with a concentration in Physical Oceanography

*Relevant courses include:* Data Analysis, Fluid Dynamics, Numerical Modeling of Ocean Circulation, Satellite Oceanography, Modeling of Nearshore Processes

**B.S., Cum Laude, Humboldt State University, Arcata, California (2002)**

Major in Oceanography with minors in Applied Mathematics and Physical Science

*Relevant courses include:* Physical/Biological/Geological/Chemical Oceanography, Numerical Analysis, Ocean Remote Sensing, Marine Sampling & Field Techniques, Calculus I/II/III, Ordinary & Partial Differential Equations, Linear Algebra, Physics I/II/III

**Professional Affiliations:**

American Geophysical Union (AGU); American Society of Limnology and Oceanography (ASLO); National Association of Underwater Instructors (NAUI)