

**Brent Hughes**  
8272 Moss Landing Road  
Moss Landing, CA 95039  
Day: (831) 566-5609  
bhughes@mlml.calstate.edu

---

## **EDUCATION**

- 1997 - 2001 BA Biology  
Truman State University, Kirksville, MO  
Advisor: Dr. Lisa Hooper
- 2002 - present MS Marine Science  
Moss Landing Marine Laboratories, Moss Landing, CA  
Research in phycology and community ecology  
Advisor: Dr. Mike Graham

## **OTHER RELEVANT COURSEWORK**

- 2001 Oregon Institute of Marine Biology, Charleston, OR  
Graduate coursework in Marine Ecology and Animal Behavior

## **RESEARCH EXPERIENCE**

- 2002 - present MS Thesis, Moss Landing Marine Labs, Moss Landing, CA  
"Effects of *Egrecia menziesii* on intertidal algal assemblages"
- 2002 - present Research Assistant, Moss Landing Marine Labs, Moss Landing, CA  
Sorting invertebrates from benthic samples (Dr. Stacy Kim PI), Start up and design of new Phycology Lab, assisted in design and building of algal culture room, started herbarium database for museum (Dr. Mike Graham PI), Collected and analyzed fisheries data for Catch per Unit Effort project (Dr. Rick Starr PI), Search for invasive algal and invertebrate species in SF Bay/Delta (Rusty Fairey PI), Collected and analyzed current data to monitor Mercury input to the SF Bay/Delta for CALFED (Mark Stephenson PI)
- 2003 – present Researcher, Moss Landing Marine Labs, Moss Landing, CA  
"Reproductive potential of drifting kelp (*Macrocystis pyrifera*)" (Dr. Gustavo Hernandez PI)
- 2001 - 2002 Research Assistant, XenoTech, LLC, Kansas City, KS  
Cell culture media preparation, maintained lab inventory by ordering and checking in chemicals and supplies, maintained cell culture lab and equipment, cell culture of primate liver cells, human liver cut-up from organ donors, part of moving committee that coordinated move of laboratory and office facilities
- 2000 - 2001 Independent Research, Truman State University, Kirksville, MO  
"Light induced inhibition of *Myxococcus xanthus* development"
- 2000 Lab Assistant, Microbiology Lab, Truman State University, Kirksville, MO  
Preparation and inoculation of media, day to day lab maintenance
- 1999 Research Assistant, Truman State University  
"Genetic variation of *Echinacea pallida*" (Dr. Lisa Hooper PI)  
Prepared genetic samples and filed native plant species for herbarium

## **SKILLS**

Field Skills: California boater certified, Master and Scientific diver certified, CPR and First Aid certified, California defensive driver certified, algal and invertebrate and vertebrate identification, ecological sampling techniques, acoustic tracking, GPS, ADP, YSI, Water Quality.

Laboratory Skills: Sterile technique, GLP, Microscopy, Fluorometry, Genetic Analysis techniques, Cell culture, image analysis, media preparation.

Computer Skills: Proficient with PC and Macintosh Operating Systems, Microsoft Access/Word/Excel/Power Point, Adobe Photoshop, Canvas, Image J, Systat, SPSS, Endnote, RiverSurveyor, View Argonaut, and website design and maintenance.

## **TEACHING EXPERIENCE**

2002 Designing lectures for Marine Botany class

2004 - present Teaching Assistant, Moss Landing Marine Labs, Kelp Ecology and Marine Ecology Courses

2005 Teacher Enhancement Program, teaching high school students marine biology

## **PUBLICATIONS**

Hernandez, G.C., B. Hughes and M. Graham. 2006. Reproductive longevity of drifting kelp *Macrocystis pyrifera* (Phaeophyceae) in Monterey Bay, USA. *In review*: J. Phycology.

## **PRESENTATIONS**

Truman State University Tri Beta meeting April 2001

Truman State University Undergraduate Research Symposium April 2002, poster

Missouri Academy of Sciences April 2002, poster

Northwest Algal Symposium April 2005, poster

Western Society of Naturalists November 2005, presentation

## **HONORS & AWARDS**

Americorps Academic Scholarship, August 2001

David and Lucile Packard Foundation Grant for research, 2005

PADI Foundation Grant for research, 2005

Earl and Ethel Meyers Foundation Grant for research, 2005

2<sup>nd</sup> place Student Poster Award, Northwest Algal Symposium 2005

## **PROFESSIONAL SERVICE**

Student Body Vice President, Moss Landing Marine Labs, 2002 - 2003.

## **COMMUNITY & VOLUNTEER SERVICE**

Special Olympics basketball league coordinator, October 1996 to March 1997

American Heart Association volunteer, 1994 to 1997

Pre-Physicians Organization, August 1997 to September 1998

Americorps volunteer, May 2000 to August 2000

Teacher Enhancement Program, 2005-06

## **ACTIVITIES**

Varsity Tennis, Truman State University, Kirksville, MO, August 1997 to September 1998

**REFERENCES**

Mike Graham, Assistant Professor of Biology, Moss Landing Marine Laboratories, (831) 771-4481, [mgraham@mlml.calstate.edu](mailto:mgraham@mlml.calstate.edu)

Mike Foster, Professor Emeritus, Moss Landing Marine Laboratories, (831) 771-4435, [foster@mlml.calstate.edu](mailto:foster@mlml.calstate.edu)

Elisabeth Hooper, Assistant Professor of Biology, Truman State University, (660) 785-4623, [lhooper@truman.edu](mailto:lhooper@truman.edu)