

# Pamela E. Michael

Address:  
4035 Indian Summer Dr. SE  
Olympia, WA 98513

pamela.e.michael@gmail.com  
Mobile: (360) 789-1745

## Education

### **Master of Science in Marine Science: 2011**

Hawaii Pacific University (HPU), Honolulu, HI, GPA 3.92

Courses: Geological and physical marine systems, Biological and chemical marine systems, ArcGIS, ArcGIS desktop extensions, Spatial ecology, Marine conservation, Fisheries and fisheries oceanography, Marine protected areas, Stable isotope ecology

### **Bachelor's of Science in Biology: 2007**

University of Puget Sound (UPS), Tacoma WA, GPA 3.67, with honors  
(including converted grades from semester abroad); 3.56 in major

Courses: Organic chemistry, Cellular biology, Genetics, Geology, Oceanography, Ecology, Animal physiology, Animal behavior, Evolution, Marine biology, Water policy, Senior thesis, Consciousness and the bourgeoisie, Bio-ethics

### **Semester Abroad: Boreal Fall, 2005**

University of Adelaide, Adelaide South Australia, GPA (US system) 3.9

Courses: Biogeography and biodiversity conservation, Indigenous linguistics, Australian film and culture

## Research Interests

Biogeography, Fisheries interactions, Marine spatial planning, Ecosystem-based management, Population demography and stability, Procellariiformes, Marine ecology, Oceanography, Conservation, Multilateral management, Marine policy

## Future Plans

Submit two thesis research chapters for publication (Marine Ecology Progress Series and Fisheries Oceanography)

Augment temporal scale of analysis of black-footed albatross overlap with California longline and trawl fisheries. Final analysis will be submitted to the National Marine Sanctuaries Conservation Series

Dean John A. Knauss Marine Policy Fellowship in Washington DC (2012 – 2013)

## Research Experience

**Summer 2010** Analysis of the overlap of black-footed albatross telemetry locations with California **Cordell Bank** longline and trawl landing data. Project leads: Pamela E. Michael, Kaitlin Graiff, Dr. K. David Hyrenbach *Ongoing to augment temporal scale*

**Summer 2008** Deployment of satellite transmitters to black-footed albatross in **Cordell Bank** National Marine Sanctuary (CBNMS), CA. Project leads: Dr. K. David Hyrenbach, Michelle Hester

**Spring 2008** Seabird intern on Southeast Farallon Island (SEFI) for PRBO Conservation Science. **SEFI** Duties included banding, reading bands (metal and color) in the field, netting, burrow camera, data entry and proofing. Project leads: Russ Bradley, Pete Warzybok

- Winter 2007 JFI** Used infrared camera probe to monitor burrow occupancy and breeding success of pink footed shearwaters (*Puffinus creatopus*) on Robinson Crusoe and Santa Clara Islands respectively, Juan Fernández Islands (JFI), Chile. Project lead: Dr. Peter Hodum
- Winter 2007 JFI** Removed invasive vegetation in breeding habitat of the critically endangered Juan Fernández firecrown (*Sephanoides fernandensis*) in Plazoleta del Yunque, Robinson Crusoe Island, JFI, Chile. Project lead: Dr. Peter Hodum
- Summer 2007 Isla Isabel** Monitored breeding success of blue-footed boobies (*Sula nebouxii*) on Isla Isabel, Nayarit, México. Work included banding, sex and individual identification, measuring morphometrics and mapping nest locations. Project lead: Dra. Roxana Torres
- Fall 2006 UPS** Identified water quality characteristics associated with bacterial mats in Hood Canal (HC) and Quartermaster Harbor (QH), WA. Extent of mats determined by georeferenced video transects. Available HC water quality data were compared to QH data collected using a DataSond. Marine Biology group project
- Summer 2006 SWRS** Evaluated the chemosensory and activity level response of male, vitellogenic and gravid female striped plateau lizards (*Sceloporus virgatus*) to pungent novel and predatory snake chemosensory cues. Designed, performed, and analyzed behaviors from videotaped trials. Southwest Research Station (SWRS), Portal, AZ. Independent Senior Thesis research project
- Summer 2002 UPS** Used mtDNA microsatellites to differentiate between *Mytilus galloprovincialis* and *M. trossilus* mussels in Puget Sound, WA. Project lead: Dr. Peter Wimberger
- Winter 2001 UPS** Evaluated oxygen consumption rates to determine basal metabolic rates of *Abronia* sp. with and without a familiar object. Project lead: Dr. Ed DeGrauw

## Related Work Experience

- 2011** Spatial analysis and bathymetric associations of black-footed albatross using telemetry data. Project leads: Michelle Hester, Dr. K. David Hyrenbach
- Assisted in the preparation of a report on the governance of bycatch and discards by the Northwest Atlantic Fisheries Organization as a portion of a larger report by the International Union for the Conservation of Nature. Project leads: Eric Gilman, Kevin Passfield
- 2007** Teaching Assistant in a Genetics Course at UPS, care and necropsy data collection with WDFW and Wildlife Marine Mammals Investigations, Creel surveys for the Washington State Department of Fish and Wildlife (WDFW)

## Grants and Awards Offered

<b>Winter 2012 – Winter 2013</b>	Dean John A. Knauss Marine Policy Fellowship	\$49,000
<b>Fall 2009 – Spring 2011</b>	Dr. Nancy Foster Scholarship, NOAA	\$84,000
<b>Spring 2009 – Spring 2011</b>	50% Graduate Marine Science Scholarship from HPU	\$15,285
<b>Fall 2008</b>	Trustee's Graduate Scholarship from HPU	\$4,675
<b>Spring 2007</b>	Honorable Mention in Student Presentation Competition, WAGIS Conference	\$0
<b>Winter 2007</b>	Outstanding Student Poster Presentation, PERS	\$100
<b>Summer 2006</b>	University of Puget Sound Summer Research Stipend	\$3,000
<b>Summer 2006</b>	University Enrichment Committee Travel Grant, UPS	\$450
<b>Summer 2006</b>	UEC Grant, UPS	\$450

## Conferences and Presentations

- Spring 2011** Oral Presentation: Oceanography on the wing: black-footed albatross dispersion and habitat use off central California, P.E. Michael, K.D. Hyrenbach, J. Jahncke. Masters thesis seminar Kaneohe, HI  
**HPU**
- Fall 2010** Poster Presentation: Modeling the dispersion and habitat associations of black-footed albatross in central California National Marine Sanctuaries, P.E. Michael, K.D. Hyrenbach, J. Jahncke, L.L. Etherington, World Seabird Conference (WSC), Victoria, BC  
**WSC**
- Summer 2010** Oral Presentation: Oceanography on the wing: how black-footed albatross use central California marine sanctuaries, P.E. Michael, K.D. Hyrenbach, J. Jahncke, L.L. Etherington, Point Reyes National Seashore Lunch Seminar Series, Point Reyes Station, CA  
**CBNMS**
- Spring 2007** Oral Presentation: Factors affecting the distribution of *Beggiatoa* spp. mats in HC, M. Lonsdale, P.E. Michael, J. Brown, S. Korosec, Dr. J. K. Elliott, Washington GIS (WAGIS) Conference, Lynnwood, WA  
**WAGIS**
- Winter 2007** Poster Presentation: Factors affecting the distribution of *Beggiatoa* spp. mats in HC and QH, M. Lonsdale, P.E. Michael, J. Brown, S. Korosec, Dr. J. K. Elliott, Pacific Estuarine Research Society (PERS), Victoria, BC  
**PERS**
- Summer 2006** Poster Presentation: Chemosensory detection of novel and predator cues by the striped plateau lizard, *Sceloporus virgatus*, P. Michael and Dr. S. Weiss, Animal Behavior Society (ABS), Snowbird, Utah 2006  
**ABS**

## Skills

ArcMAP (incl. Spatial Analyst extension), RookCase, PCOrd, R (beginner), Microsoft Word, PowerPoint, Excel, American Sailing Association Basic Keelboat Sailing 101 Certification (2007), PADI Open Water Certification (2001)

## Volunteer Activities

- 2011** Habitat restoration at Freeman Seabird Preserve
- 2010** Judged 8<sup>th</sup> grade science fair projects
- 2009** Assisted in invasive plant species removal and planting native vegetation on Hawaiian islets, participated in June (2009, 2010) and July (2010) Applied California Current Ecosystem Studies surveys off north central California
- 2008** Assisted with wedge-tailed shearwater (*Puffinus pacificus*) counts on O'ahu's islets (to 2010)
- 2007** -officio honorary student member of the Board of Directors for South Puget Sound Salmon Enhancement Group, marine mammal care and necropsy data collection with WDFW and Wildlife Marine Mammals Investigations, assist in Spanish classes at my local high school (to 2008)
- 2005** Assisted organizing children's fishing events with WDFW (to 2008)

## Other Interests

Spanish, travel, Ashtanga yoga, photography, hiking, sailing, soccer, scuba diving

## References

- Dr. K. David Hyrenbach, Assistant Professor of Oceanography, Hawaii Pacific University,  
Kaneohe, HI, 808-259-3112 [khyrenbach@hpu.edu](mailto:khyrenbach@hpu.edu)
- Dr. Peter Hodum, Visiting Assistant Professor University of Puget Sound,  
Tacoma, WA, 253-879-2789 [phodum@pugetsound.edu](mailto:phodum@pugetsound.edu)
- Dr. Jaime Jahncke, California Current Group Director, PRBO Conservation Science,  
Petaluma, CA 707-781-2555 x 335 [jjahncke@prbo.org](mailto:jjahncke@prbo.org)