

# Alison Jane Haupt

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## **EDUCATION:**

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- PhD Biology Stanford University  
Major Advisor: Dr. Fiorenza Micheli  
Dissertation: "Historical and oceanographic influences on phylogeography in the California Current ecosystem and application to management of marine species"
- BA Biological Sciences, University of California, Santa Barbara

## **SELECTED RESEARCH AND WORK EXPERIENCE:**

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- 2013 – Present Postdoctoral Fellow, University of Massachusetts Boston**
- Postdoctoral fellow with Dr. Jarrett Byrnes
  - My focus is on the interaction of urban centers and near-shore ecology
- 2013 NCEAS Summer Institute**
- Participant in first NCEAS Summer Institute that provided hands-on guided experience using best practices in the technical aspects that underlie successful synthesis – from data discovery and integration to analysis and visualization
  - I am currently leading a sub project within this group to examine the utility of the cumulative impact index in the South California Bight.
- 2011 – 2013 West Coast Governors Alliance Sea Grant Fellow**
- I have used the West Coast Sea Grant Marine Research and Information Needs Report to identify research and information priorities for the West Coast for the WCGA.
  - My other tasks include writing responses to the National Ocean Policy on behalf of the WCGA and helping to write and organize applications for funding WCGA priorities.
- 2005 – 2011 PhD, Advisors: Dr. Fiorenza Micheli and Dr Stephen Palumbi**
- Effects of past demographic and evolutionary history on contemporary genetic patterns of *Megastraea undosa* and applications to management of this species.
  - Oceanographic influences on larval dispersal of *Parastichopus parvimensis*.
  - The relative importance of Cape Mendocino as a barrier to dispersal as evidenced by concordant phylogeography.
- 2005 – 2011 NSF Biocomplexity Project in Baja California, Mexico**
- During my thesis I was a member of this biocomplexity project in Baja California Sur, Mexico where I worked with biologists, oceanographers, economists, anthropologists, and sociologists from the United States and Mexico to link human and biophysical processes in the coastal marine ecosystem of Baja California.
- 2005 Research Technician, Dr. Fiorenza Micheli, Hopkins Marine Station**
- I led a field and lab project to assess recovery of abalone populations in Monterey Bay.
- 2004 - 2006 Field Assistant, Dr. Danielle Zacherl, CSU Fullerton**

- I assisted with summer field studies of larval dispersal of *Kelletia kelletii*.
- 2004                      Lab Assistant II, Dr Aileen Morse, UC Santa Barbara**
- I conducted lab/field work on recruitment of corals in the Netherlands Lesser Antilles.
- 2004                      Field Assistant, Palmer Station, Antarctica**
- I studied krill densities and sexual stage of the populations in Antarctica.
- 2002 – 2003              Senior Project, Research Assistant/ Diver, Galápagos, Ecuador**
- I studied regional variation of life history traits of the white-tailed damselfish.
- 2001 – 2002              Research Technician PISCO at UCSB**
- I conducted subtidal surveys of fish, algae, and invertebrates for PISCO community sampling
- 2001                      Internship/Research Diver, Darling Marine Station, UM Orono**
- I worked with the lab of Dr. Steneck to try and re-establish green urchins in overfished areas of coastal Maine.

## **GRANTS AND AWARDS:**

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2013	NOAA ROPFP for the WCGA (Collaborative grant) <b>\$285,000</b>
2012	NOAA Regional Ocean Partnership Funding Proposal (ROPFP) for the West Coast Governors Alliance. (Collaborative grant) <b>\$850,000</b>
2011	West Coast Governors Alliance on Ocean Health Sea Grant Fellowship
2009	Best Student Paper, Western Society of Naturalists, Honorable Mention
2009	NOAA Bay Watershed Education Training Grant. A portion of this grant supported ‘Ocean Heroes’ a program started by myself and another grad student on ocean education to under-served students at the Seaside Boys & Girls club in conjunction with programs at the Hilton Bialek Habitat. <b>\$60,000</b>
2009	Hopkins Marine Station Miller Scholarship <b>\$1,000</b>
2008	Stanford K-12 Initiative for ‘Ocean Heroes’ <b>\$50,000</b>
2008	Jane Miller Scholars Award <b>\$1,000</b>
2007	Myers Oceanography and Marine Biology Trust Award <b>\$1,800</b>
2006-2008	National Science Foundation Predoctoral Fellowship
2003	UC, Santa Barbara Dean Bazzi Memmorial Award <b>\$500</b>
2002	UC, Santa Barbara Summer Undergraduate Research Fellowship <b>\$2,500</b>
2001	UC, Santa Barbara Chancellor’s Undergraduate Research Award <b>\$2,000</b>

## **PUBLICATIONS:**

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- **Haupt, AJ**, B. Woodson, SR Palumbi, and F Micheli. *In Review*. Ecological Applications. Subtle genetic translates to limited ecological connectivity in a commercially fished invertebrate species.
- Samhoury JF, **AJ Haupt**, PS Levin, JS Link, R Shuford. 2013. Lessons learned from developing integrated ecosystem assessments to inform marine ecosystem-based management in the USA. ICES Journal of Marine Science Advance Access.
- **Haupt, AJ**, F Micheli, and SR Palumbi. 2013. Dispersal at a snail’s pace: historical processes affect contemporary genetic structure in an exploited marine snail. *Journal of Heredity* 104:327-340.
- **Haupt, AJ**. 2013. Ocean acidification as a West Coast Governors Alliance priority area. WCGA Technical Memo.

- Illes, AC, TC Gouhier, BA Menge, JS Stewart, **AJ Haupt**, MC Lynch. 2011. Climate-driven trends and ecological implications of event-scale upwelling in the California Current System. *Global Change Biology* 18:783-796.
- Woodson, B, JA Barth, OM Cheriton, MA McManus, JP Ryan, L Washburn, KN Carden, BS Cheng, J. Fernandez, LE Garske, TC Gouhier, **AJ Haupt**, KT Honey, MF Hubbard, A Illes, L. Kara, MC Lynch, B Mahoney, M. Pfaff, ML Pinsky, MJ Robert, JS Stewart, SJ Teck, A True. Observations of internal wave packets propagating along-shelf in northern Monterey Bay. 2011. *Geophysical Research Letters*. 38.
- O'Connell CS, **Haupt AJ**, Palumbi SR. 2008. Molecular and morphological characterization of two species of sea cucumber, *Parastichopus parvimensis* and *Parastichopus Californicus*, in Monterey, CA. *Stanford Undergraduate Research Journal* 7 36-40.
- Logan, CA, SE Alter, **AJ Haupt**, K Tomalty and SR Palumbi. 2008. An impediment to consumer choice: overfished species are sold as Pacific red snapper. *Biological Conservation*. 141:1591-1599.
- Micheli, F, AO Shelton, SM Bushinsky, AL Chiu, **AJ Haupt**, KW Heiman, CV Kappel, MC Lynch, RG Martone, and J Watanabe. 2008. Persistence and recovery of depleted marine invertebrates in marine reserves of Central California. *Biological Conservation*. 141:1078-1090.
- Ruttenberg, BI, **AJ Haupt**, A Chiriboga, and RR Warner. 2005. Patterns, causes and consequences of regional variation in the ecology and life history of a reef fish. *Oecologia*. 145: 394-403.

## **PUBLICATIONS IN PREPARATION**

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- **Haupt, AJ**. In Prep for Marine Policy. Research priorities identified by the West Coast Governors Alliance on Ocean Health.
- **Haupt, AJ**, Baruch-Mordo S, Smith S, Bourque J. In Prep for Ecological Applications. Evaluating the utility of the Cumulative Impact Index for informing ecosystem-based management in the Southern California Bight.
- **Haupt, AJ**, F Micheli, and SR Palumbi. In Prep for *Journal for Biogeography*. Concordant phylogeographic patterns associated with the major headland of Cape Mendocino in northern California
- Martone, RG, F Micheli, L Gonzalez, S Guzmán del Prío, **AJ Haupt**, E Serviere. In Prep for *Marine Ecological Progress Series*. Regional and local variation of kelp forest communities along central Baja California, Mexico.
- Micheli F, RG Martone, B McCay, L Gonzalez, **AJ Haupt**, S Guzman del Proo, S Luch-Cota, G Ponce-Diaz, M Ramade, E Serviere-Zaragoza, G Shester, S Ramirez, C Abshire, C Costello, W Weisman, J Wilson. In Prep. *Variations in Fisheries Performance: An integrated social economic and ecological perspective from Baja California, Mexico*.

## **PRESENTATIONS/POSTERS:**

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- **Haupt, AJ**. 2014. Untangling past demography to more efficiently use population genetics to inform fisheries management and conservation.
- **Invited Seminar**. Woods Hole Oceanographic Institute.

- **Haupt, AJ.** 2013. Connecting science to policy from population genetics to integrative ecosystem assessments.  
**Invited Seminar.** University of Massachusetts Boston.
- **Haupt, AJ.** 2013. Biology and Policy of the California Current Large Marine Ecosystem.  
**Invited Seminar.** Earlham College. Richmond, Indiana.
- **Haupt, AJ,** B Woodson, F Micheli, S Palumbi. 2012. Subtle genetic structure in the commercially fished warty sea cucumber. Oral Presentation. Western Society of Naturalists. Monterey, California
- **Haupt AJ,** B Bailey, B Baird, J Barminski, J Borberg, L DeBruyckere, T Hallenbeck, J Hennessey, T Hom, MA Lovewell, B Lynne, J Stein, S. Stoike, A Strauss, and A Vierra. 2012. Connecting science to policy to better manage the California Current Large Marine Ecosystem.  
**Invited Speaker.** Ocean Sciences. Salt Lake City, Utah.
- **Haupt AJ,** F Micheli, SR Palumbi 2011. Concordant phylogeographic patterns associated with the major headland of Cape Mendocino in northern California. Oral Presentation. Western Society of Naturalists. Vancouver, Washington.
- Stoike, SL, **AJ Haupt,** MA Lovewell, T Hallenbeck. 2011. West Coast Governors' Agreement on Ocean Health. Western Society of Naturalists. Poster. Vancouver, Washington.
- **Haupt AJ,** WT Moller, F Micheli, SR Palumbi 2010. Assessing connectivity of a commercially important marine invertebrate with molecular markers. Poster. Ocean Sciences. Portland, Oregon.
- Moller WT, **Haupt AJ,** Micheli R, Palumbi SR 2009. Population genetic structure of *Parastichopus parvimensis* at five microsatellite loci. Poster. Western Society of Naturalists. Seaside, California.
- **Haupt, AJ,** F Micheli, SR Palumbi 2009. Dispersal at a snail's pace: Strong genetic structure in the fisheries gastropod *Megastrea undosa*. Oral Presentation. Western Society of Naturalists. Seaside, California. Best Student Paper, Honorable Mention
- **Haupt, AJ,** F Micheli, SR Palumbi. 2009. Historical and modern demography of a commercially fished marine gastropod. Oral Presentation. Evolution. Moscow, Idaho.
- **Haupt, AJ,** F Micheli, SR Palumbi. 2008. Connectivity of *Megastrea undosa* and applications to management. Oral Presentation. Western Society of Naturalists. Vancouver BC, Canada.
- **Haupt, AJ,** SR Palumbi, and F Micheli. 2007. Assessing connectivity of a commercially important marine invertebrate. Oral Presentation. Western Society of Naturalists. Ventura, CA.
- Martone R.G., **A.J. Haupt,** F. Micheli. 2007. Spatial scales of variability in temperate reef communities across gradients of upwelling intensity. Oral Presentation. Ecological Society of American. San Jose, CA.
- Micheli F, L Gonzalez, S Guzmán del Próo, **AJ Haupt,** RG Martone, E Serviere, and G Shester. 2007. Spatial variation in biological productivity and connectivity: implications for scales of management. Oral Presentation. American Fisheries Society. San Francisco, CA.
- Logan C.A, **A.J. Haupt** and S.R. Palumbi. 2006. When you buy "Pacific Red Snapper" what are you getting? Molecular Forensics and conservation implications. Oral Presentation. Western Society of Naturalists. Redmond, WA.

- Ruttenberg B.I. and **A.J. Haupt**, 2003. Causes and consequences of regional ecological variation of a reef fish in the Galápagos Islands. Poster. Western Society of Naturalists. Long Beach, CA.
- Ruttenberg B.I. and **A.J. Haupt**, 2002. Regional variation in the ecology of a reef fish in the Galápagos Islands. Oral presentation. Western Society of Naturalists. Seaside, CA.

## **TEACHING EXPERIENCE:**

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2013	<b>Guest Lecturer</b> , Marine life in the city: Urbanization of our Shores, University of Massachusetts Boston (UMB)
2013	<b>Guest Lecturer</b> , Carbon Pumps and Detritus, UMB
2013	<b>Guest Lecturer</b> , Conservation Biology, Earlham College Indiana
2012	<b>Guest Lecturer</b> , Developmental Biology Clearwater College Florida
2011	<b>Guest Lecturer</b> , Marine Ecology, Hopkins Marine Station (HMS)
2010	<b>Guest Lecturer</b> , Biomechanics, Ecological Physiology & Genetics of Intertidal Communities, HMS
2010	<b>Teaching Assistant</b> , Marine Ecology (Lecture and Labs), HMS
2009	<b>Research Mentor</b> , W. Moller Stanford University Undergraduate
2009	<b>Teaching Assistant</b> , Marine Ecology (Lecture and Labs), HMS
2008	<b>Research Mentor</b> , J. Davids Santa Catalina High School Student
2008	<b>Co-Teaching Assistant</b> Invertebrate Zoology, HMS
2008	<b>Guest Lecturer and Lab Leader</b> Ecology Stanford University
2008	<b>Teaching Assistant</b> , Experimental Design and Probability, HMS
2007-2008	<b>Research Mentor</b> , C. O'Connell Stanford University Undergraduate
2007	<b>Teaching Assistant</b> , Plant Biology, Evolution, & Ecology, HMS
2007	<b>Teaching Assistant</b> , Core Lab for Plant Biology, Evolution, & Ecology, HMS

## **SELECTED OUTREACH EXPERIENCE**

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- 2013**                      **Guest lecturer Encina High School Sacramento, CA**  
 I gave lectures on abiotic and biotic structuring of intertidal communities to 6 different biology classes at Encina High School a Title I school in Sacramento, CA that primarily serves a diverse and underserved student body.
- 2007 – 2011**              **Ocean Heroes with Seaside Boys and Girls Club**  
 I collaborated with another graduate student and the Hilton Bialek Habitat (affiliated with Carmel Unified School District) to create a program called “Ocean Heroes”. Through this program, I developed curricula for middle school students from underserved communities at the Seaside Boys and Girls Club about marine ecology and conservation using place-based outdoor learning experiences. The learning objectives included demonstrated student understanding of the marine ecology principles, how the oceans relate to all forms of life in the watershed, as well as an increased sense of environmental stewardship as indicated by demonstrated changes in attitudes and behavior. These classes were one after-school class per week for three three-month-long series.
- 2005 – 2011**              **Educational tours of Hopkins Marine Stations (HMS)**  
 These tours were given to visit groups of students from Stanford’s main campus and other schools and groups. These tours introduced the basic research conducted at HMS. Some specific examples are listed below. I gave approximately one tour per month during my tenure at HMS.

**2006 – 2009 Sacramento River Discovery Charter School**  
I participated in the annual trip of Sacramento River Discovery Charter School to HMS. This visit included lessons and activities at various stations around HMS for these students.

**2006 – 2007 Upward Bound Program**  
I participated in and helped organize annual visits from an upward bound program that sought to give experiences and opportunities to students who will be the first in their families to attend college.

**2006 East Palo Alto Boys and Girls Club**  
I was a primary organizer and participant in a day-long visit from the East Palo Alto Boys and Girls club to HMS. This visit included lessons and activities at various stations around HMS for these students.

**2000 – 2003 Volunteer Teacher, Marine Science Education Center (MSEC), UCSB**  
I participated in and helped develop curricula for the UCSB Marine Science Institute's Oceans to Classrooms, an outreach program for at-risk middle school students. Apart from this program, I also worked as a docent at the science center and gave educational tours to visiting classes.

**2000 – 2002 Volunteer Teacher, Sea Center Santa Barbara, CA**  
I taught classes in Marine Biology, Ecology, and Physical Oceanography to students from grades first through sixth twice a week. I also worked at the Sea Center as a collector and we would present these newly collected animals to Sea Center patrons.

### **PROFESSIONAL SERVICE ROLES:**

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**2013 – present Peer Reviewer:** Monterey Bay Aquarium Sea Food Watch Program

**2013 – present Peer Reviewer:** Aquatic Conservation

**2013 Representative** for California on the West Coast Regional Data Framework steering committee

**2012 – 2013 Point of Contact:** West Coast Governors Alliance (WCGA) Ocean Awareness and Literacy Action Coordination Team (ACT)

**2011 – 2013 Point of Contact:** WCGA *Spartina* Eradication ACT

**2008 – 2009 Member:** Western Society of Naturalists Student Committee

**2007 – 2009 President:** Hopkins Marine Station Graduate Student Organization

**2006, 2008 Organizer:** Graduate student seminar series

**2008 Coordinator:** Stanford University Prospective Student Interviews

### **DIVING QUALIFICATIONS:**

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American Association of Underwater Scientists (AAUS) Certified:

Dry suit, Rescue, Nitrox, Dive Computer, Depth of 100ft

~1200 logged research dives

CPR, First Aid, and O2 Provider

Massachusetts State, California State, Stanford University, and University of Maine Small Boats Operator

**LANGUAGES:** Fluent in Spanish