

## Heather M. Coleman

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### Education

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- 2004-current University of California, Santa Barbara – Doctoral candidate in the Bren School of Environmental Science and Management
- 2005–2006 University of California, Santa Barbara – MA in Economics
- 1998–2003 University of California, Los Angeles – BS in Marine Biology and BS in Atmospheric, Oceanic and Environmental Science
- 2000–2001 Northeastern University – East/West (now Three Seas) Marine Biology Program

### Fellowships and Grants

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- 2009 UC Brython Davis Graduate Fellowship
- 2008–2009 UC Regents Intern Fellowship
- 2006–2009 NASA/UNCFSP Harriet G. Jenkins Pre-doctoral Fellowship
- 2006–2008 UC Toxic Substances Research & Teaching Program Graduate Fellowship
- 2006 Institute of Turkish Studies Summer Research Grant (\$2000)
- 2005–2006 NSF Economics and Environmental Science Training Program IGERT Fellowship
- 2005 UC Natural Reserve System Mathias Grant (\$1200)
- 2004–2005 American Meteorological Society Industry/Government Graduate Fellowship
- 2001, 2002 UCLA Undergraduate Research Center Miller Award (\$4000, \$4000)

### Research Experience

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- 2007-current Effects of hydrocarbon seeps on purple sea urchin population ecology and infaunal community composition, with Drs. Hunter Lenihan (UCSB), Amro Hamdoun (Stanford), and David Valentine (UCSB)
- 2006 Cost-benefit analysis of estuarine restoration in the Golden Horn, Istanbul, Turkey, with Dr. Gurdal Kanat (Yildiz Technical University)
- 2003–2004 Oceanic biogeochemical cycling in the Santa Monica Bay, as Staff Research Assistant with Dr. Nicolas Gruber (UCLA)
- 2002–2003 Persistence and management of rare native plant species at Stunt Ranch Reserve, CA, with Dr. Jonathan Levine (UCLA)
- 2002 Coral and sea fan response to nutrient addition as a proxy for anthropogenic pollution at the Centro Ecologico Akumal, Mexico, as Research Technician with Dr. John Bruno (UNC Chapel Hill)
- 2001–2002 Tropical lagoon species interactions and behavioral community dynamics at the Discovery Bay Marine Laboratory, Jamaica (independent undergraduate research)

## **Academic and Professional Experience**

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- 2005–2006 PhD Representative for the Dean’s Advisory Committee (Bren School, UCSB)
- 2003–2005 Grammatical Editor of journal articles for members of Dr. David Neelin’s climate dynamics research group (UCLA)
- 2003–2004 Trained and led field volunteers, educated K-12<sup>th</sup> grade students in kelp ecology as Associate Director of the Kelp Restoration Project (Santa Monica Baykeeper)
- 2001–2003 Educated K-5<sup>th</sup> grade students on oceanic processes, pollution prevention and coastal resource management as a Key to the Sea Naturalist (Heal the Bay)
- 1995–2003 Tutored middle and high school students in all subjects (Los Angeles, CA)
- 2002 Teaching Assistant for Ocean and Coastal Processes (East/West Program)
- 2001 Coastal Cleanup Coordinator of 50 beaches in Los Angeles (Heal the Bay)
- 2000 Educational biology software researcher for Dr. Steven Strand (UCLA)

## **Awards and Honors**

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- 2005, 2006 NSF Graduate Research Fellowship Honorable Mention
- 2003 UCLA Departmental honors in Marine Biology
- 2003 Presented at the Council on Undergraduate Research Conference as one of only 72 researchers selected nationally (the Capitol Building, Washington, DC)
- 2002 UCLA Dean’s Prize for research (\$500)

## **Publications**

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- 2009 Keller, A.A. & Coleman, H.M. *In prep.* Point Source Pollution: Biodegradable Organic Chemicals. In: Kennish, M. & Elliot, M. (Eds). *Treatise on Estuarine and Coastal Science*, vol. 8. Elsevier.
- 2009 Coleman, H.M., Hamdoun, A.M. & Lenihan, H.S. *In prep.* Transgenerational plasticity in multixenobiotic resistance transport function. Target journal: *Aquatic Toxicology*.
- 2009 Coleman, H.M. *In review.* Ecological Impacts of the Caribbean Phase Shift on Invertebrate Populations. *J. Exp. Mar. Biol. Ecol.*
- 2008 Coleman, H.M., Kanat, G. & Aydinol, F.I. *Accepted.* Ecological and Restoration of the Golden Horn Estuary (Halic). *Water Research*.
- 2007 Coleman, H.M. & Levine, J.M. Mechanisms Underlying the Impacts of Exotic Annual Grasses in a Coastal California Meadow. *Biol. Invasions* 9: 65-71.

## **Presentations**

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- 2009 *Invited talk:* “Monitoring and mitigating at the ends of the pollution spectrum” Coastal Issues Seminar, Atmospheric and Oceanic Sciences Dept. (UCLA)
- 2008 “Ecological consequences of exposure to natural oil contamination” Western Society of Naturalists (Vancouver, BC)

- 2007 “Ecological consequences of exposure to natural oil contamination: Population-level costs of the MDR mechanism” Western Society of Naturalists (Ventura, CA)
- 2007 “Ecological consequences of exposure to natural oil contamination: Population-level costs of the multidrug resistance (MDR) mechanism”  
ABC transport proteins in environmental health and toxicology (Siena, Italy)
- 2007 “A Case Study and Cost-Benefit Analysis of Istanbul’s Restoration of the Golden Horn Estuary” US Society for Ecological Economics (New York, NY)
- 2003 “Behavioral impact of a tropical backreef urchin on snail growth, survival and seagrass productivity” Benthic Ecology Meeting (Groton, CT)
- 2003 “Kelp community restoration along the Malibu coast”  
Western Society of Naturalists Annual Meeting (Long Beach, CA)
- 2003 “Nutrient enrichment can increase the severity of coral disease”  
Council on Undergraduate Research “Posters on the Hill” (Washington, DC)
- 2003 “Impacts of exotic grass invaders on sparse native forbs in S. California”  
UCLA Biology Research Symposium
- 2002 “Emergence of a novel interaction cascade”  
Western Society of Naturalists Annual Meeting (Monterey, CA)
- 2002 “A novel interaction between two invertebrates and their habitat”  
UCLA Biology Research Symposium

## **Outreach**

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- 2004-current Volunteer (Santa Barbara Channelkeeper & Environmental Defense Center)
- 2005 Member of the committee overseeing safe fishing practices, and drafted fishing regulations for the Rancho Goleta lake (Santa Barbara, CA)
- 2003–2004 Volunteer (Los Angeles Coast Guard Auxiliary)
- 2001–2004 Volunteer (Heal the Bay & Santa Monica Baykeeper)
- 1996–2004 Volunteer aquarist and docent (UCLA Ocean Discovery Center)
- 2001–2003 Volunteer Assistant Instructor (UCLA SCUBA Diving Program)
- 2001–2002 Educated the public regarding unhealthy fish and catch limits as a co-founder of the Fishing Pier Outreach Team in Los Angeles (Heal the Bay)
- 2001 Restored coastal resources as a Point Dume Naturalist (Heal the Bay)

## **Memberships**

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- 2008 Association for Environmental Studies and Sciences
- 2007 US Society for Ecological Economics
- 2006 Graduate Women in Science
- 2004 American Meteorological Society
- 2003 Coast Guard Auxiliary
- 2001 Western Society of Naturalists