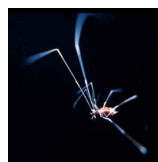


KAREN J. OSBORN
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EDUCATION

Present University of California President's Postdoctoral Fellow

- Scripps Institution of Oceanography, University of California, San Diego
- *Molecular phylogenetics of cirratuliform polychaetes: origins of pelagicism*
- Greg Rouse, mentor

2007 Doctor of Philosophy

- Department of Integrative Biology, University of California, Berkeley
- *Phylogenetics and ecology of midwater munnopsid isopods (Asellota)*
- Roy Caldwell, advisor

2002- Graduate Research Assistant

- 2007
- Monterey Bay Aquarium Research Institute, Moss Landing, California
 - *Description and relationships of an unusual pelagic polychaete Chaetopterus pugaporcinus n. sp.*
 - Examination of the meso- and epipelagic community of the Monterey Submarine Canyon using a ten-year time series of quantitative video transect data
 - Bruce Robison, advisor

1999 Master of Science

- Biology Department, Western Washington University, Bellingham, Washington
- *Effects of the invasive alga, Sargassum muticum, on native marine communities of north Puget Sound, Washington*
- Gisele Muller-Parker, advisor

1996 Bachelor of Science, Zoology, minor in Chemistry

Andrews University, Berrien Springs, Michigan, Cum Laude with Honors

RESEARCH INTERESTS

- Evolution of pelagic life; the transition from benthic to pelagic habitat
- Ecology of pelagic invertebrates
- Phylogenetics and systematics of marine invertebrates
- Mechanisms of speciation in the open ocean and the deep sea

FUNDED GRANTS

- Society for the Study of Evolution, Student Travel Award, 2007
- University of California Museum of Paleontology, Graduate Research Funds, '02, '03, '06 & '07
- SIMoN Program of the Monterey Bay National Marine Sanctuary grant, Greg Calliet, PI, 2004
- Australian Museum Visiting Researcher Fellowship, 2002
- Department of Integrative Biology, U.C., Berkeley, Research/Travel Funds, 2002 & 2003
- Dean J. Alan Ross Travel Award, Western Washington University, 1999
- Washington State Department of Ecology Research Assistantship, 1997–1999
- Graduate Student Research Fund, Western Washington University, 1997

TEACHING EXPERIENCE

- Supervised four undergraduate researchers, *Inventory of rocky intertidal meiofaunal and microbial biodiversity of San Diego: A test of barcoding techniques for ecological surveys*
- Guest Lecturer, 1999–2008
 - University of California, San Diego, Introduction to Phylogenetic Methods
 - Center for Marine Biodiversity and Conservation, SIO, MAS Forum
 - Moss Landing Marine Laboratories, CA, Invertebrate Biology
 - University of California, Berkeley, Invertebrate Biology
 - Marine Biotechnology and Bioinformatics Workshop, Moss Landing Marine Laboratory
 - Monterey Peninsula College, Environmental Science, Use of genetics
 - Monterey Academy of Ocean Sciences, Monterey High School
 - Monterey Bay Aquarium Student Oceanographers
- Women in Science Coordinator, University of California Berkeley, 2005–2007
- Mentor, Summer Intern, Stephanie Bush, 2003
- Graduate Student Instructor, University of California, Berkeley, Biology 1B Field Section 2001
- Graduate Teaching Assistant, Western Washington University: Oceanography, Zoology, & Introduction to Biology, 1996–1998
- Laboratory Instructor, Andrews University: Anatomy and Physiology, Summer 1996
- Laboratory Coordinator, Andrews University: Foundations of Biology, 1994–1996
 - Completely revised the laboratory curriculum of the year-long, majors biology course
 - Supervised 10+ undergraduate teaching assistants
 - Responsible for ordering and setting up all materials and for all laboratory grades
- Undergraduate Teaching Assistant, Andrews University: Foundations of Biology, 1993–1994
- Life Sciences Instructor, Pohnpei SDA High School, Federated States of Micronesia: Biology, Health, and Art Practicum, 1992–1993
- Website developer and writer, University of California Museum of Paleontology, 2002
- Workshop Coordinator, American Association of University Women's Science and Math Conference, California State University Monterey Bay, 2000
- National Oceans Science Bowl, University of California, Rules Judge, 2000 and 2001
- Cell and Molecular Biology Event Coordinator, Washington State Science Olympiad Finals, Western Washington University, 1998

HONORS

- University of California President's Postdoctoral Fellowship, 2008, 2009
- Postdoctoral Research Fellow, Scripps Institution of Oceanography
- Graduate Research Assistant, Monterey Bay Aquarium Research Institute, 2002–2007
- Instant Recognition Award, Monterey Bay Aquarium Research Institute, 1999, 2000, 2003
- Best Student Paper, Western Society of Naturalists, 1999
- Monterey Bay Aquarium Research Institute Internship, Summer 1998
- Charles and June Ross Graduate Fellowship, 1997
- DaHaan Work Ethic Scholarship for outstanding service, 1995 and 1996
- National Dean's List, 1995
- Andrews University Dean's List, 1992, 1994, 1995, and 1996

PUBLICATIONS

- Osborn, K.J.**, S.H.D. Haddock, F. Pleijel, L.P. Madin, & G.W. Rouse. 21Aug2009. Deep-sea, swimming worms with luminescent “bombs”. *Science*. 325(5943): 964.
- Osborn, K.J.** 2009. Relationships within the Munnopsidae (Crustacea, Isopoda, Asellota) based on three genes. *Zoologica Scripta*. 38(6): 617-635.
- Osborn, K.J.**, & G.R. Rouse. 2008. Multiple origins of pelagicism within Flabelligeridae (Annelida). *Molecular Phylogenetics and Evolution*. 49: 386-392.
- Osborn, K.J.**, G.R. Rouse, S.K. Goffredi, & B.H. Robison. 2007. Description and relationships of an unusual pelagic polychaete *Chaetopterus pugaporcinus* (Annelida, Chaetopteridae). *The Biological Bulletin*. 212: 40-54.
- Collins, A.G., B. Bentlage, G.I. Matsumoto, S.H.D. Haddock, **K.J. Osborn**, & B. Schierwater. 2006. Solution to the phylogenetic enigma of *Tetraplatia*, a worm-shaped cnidarian. *Biology Letters*. 2(1): 120-124.
- Giver, K. J.** 1999. Effects of the invasive seaweed *Sargassum muticum* on native marine communities in northern Puget Sound, Washington. Master of Science Thesis, Western Washington University, Bellingham, Washington. Padilla Bay National Estuarine Research Reserve Reprint No. 30, 93 pp.

MANUSCRIPTS

- Osborn, K.J.** S.H.D. Haddock, & G.W. Rouse. *Swima* (Annelida, Acrocirridae), holopelagic worms from the deep Pacific. In review *Zoological Journal of the Linnean Society*
- Osborn, K.J.** & B.H. Robison. Is oxygen shaping the distribution of a mesopelagic isopod? To be resubmitted to *Limnology and Oceanography* at their request
- Hull, P.M., **K.J. Osborn**, R.D. Norris, & B.H. Robison. Seasonal and depth distribution of a deep-living planktonic foraminifer, *Hastigerinella digitata*, Monterey Bay, California. To be submitted to *Limnology and Oceanography*
- A. Brandt, U. Mühlenhardt-Siegel, M. Maljutina, S. Kaiser, M. Błażewicz-Paszkowycz, C. De Broyer, C. Havermans, **K.J. Osborn**. Are there cosmopolitan peracarid species in the deep sea (Crustacea, Malacostraca)? In review *Marine Biodiversity*
- Osborn, K.J.**, L.P. Madin, & G.W. Rouse. Squidworm, a remarkable deep-sea polychaete from the Celebes Sea. To be submitted to *Biology Letters*

SERVICE

- Women and Minorities in Science, Scripps Institution of Oceanography, founder, 2009
- Grassroots Diversity Action Working Group, member, UCSD-SIO 2008–2009
- Reviewer: *Zoologica Scripta*, *Journal of Marine Biology*, *Biological Bulletin*, *Journal of the Marine Biological Association of the United Kingdom*, *Scientia Marina*, *Cahiers de Biologie Marine*, *Zoological Studies*, *Zootaxa*, *Proceedings of the Academy of Natural Sciences, Philadelphia*
- Women in Science, Coordinator, University of California Berkeley, 2005–2007
- Integrative Biology Faculty/Graduate Student Committee, Representative, 2005–2006
- MBARI Computer Equipment Donation Program, Lead Volunteer, 2004 & 2005
- MBARI Bike-to-Work Initiative, Coordinator, 2002 & 2003
- National Underwater Research Center, Key Largo, Day ship operations with R. Caldwell

ADDITIONAL EXPERIENCE

San Diego Lab Management Symposium 2009, University of California, San Diego

Molecular Evolution Workshop 2006, Marine Biological Laboratory, Woods Hole, MA

Extensive field experience on oceanic research expeditions totaling over one year at sea:

- Locations: West Coast of North America, Gulf of California, Gulf of Mexico, Gulf of Maine
- With Principal Investigators: Bruce Robison, Steve Haddock, Erik Thuesen, Tammy Frank, Edie Widder, Brad Seibel, Jim Barry, Dave Clague, Francisco Chavez, and Peter Brewer
- Research vessels: *Point Lobos*, *Western Flyer*, *New Horizon*, *Point Sur*, *Cape Hatteras*, and *Seward Johnson*
- Dives with remotely operated vehicles *Ventana*, *Tiburón*, and *Doc Ricketts* and the manned submersible *Johnson SeaLink*
- Blue-water Research Diver, AAUS certified, University of California, Berkeley and MBARI

Iceberg I Expedition, Weddell Sea, Antarctica, 2005

- RV *Laurence M. Gould*, Ken Smith Principal Investigator
- Investigation of the community associated with large free-floating icebergs and the increasing impact of ice shelf breakup
- Maintained and operated a Phantom ROV and 10 and 1 m² MOCNESS trawl nets

National Museum of Natural History, Smithsonian Institution, Visiting Scientist, 2005

Australian Museums, Sydney and Melbourne, Visiting Scientist, 2002

Taxonomist, Monterey Bay Aquarium Research Institute, 1999-2001

- Atmospheric variability and ecosystem response in the Ross Sea, Antarctica
- Biology of deep-sea carbon dioxide disposal

SELECTED PRESENTATIONS

- 2009 Society of Integrative and Comparative Biology, Boston – Fantastic pelagic diversity discovered within the Cirratuliformia (Annelida)
- 2008 CeDAMar Workshop on Cosmopolitanism in the Deep Sea, Wilhelmshaven, Germany – Is there a relationship between cosmopolitanism and dispersal potential?
- 2007 Evolution, Christchurch, N. Z. - Evolution of pelagic isopods (Asellota, Munnopsidae): phylogenetics, natural history, and adaptation
- 2006 Deep-sea Biology Symposium, Southampton, U.K. – Towards a phylogeny for the Munnopsidae (Isopoda, Asellota)
- 2006 Invited Seminar, Loma Linda University, CA – Exploration of deep pelagic habitats: the molecular systematics and ecology of extraordinary animals
- 2005 International Crustacean Conference, Glasgow, Scotland – Pelagic boundaries: a case study examining the vertical and horizontal distribution of the free-living, holopelagic isopod, *Acanthamunnopsis milleri*
- 2004 American Society of Limnology and Oceanography, Honolulu, HI – Distribution of a holopelagic isopod in the California Current System: Is dissolved oxygen controlling their distribution?