

Alexandria M. Warneke

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Research Interests

My research interests are primarily in the field of Aquatic Chemical Ecology, specifically looking at the consequences of chemical contaminants on the chemically-mediated behavior of marine organisms within a community system.

Education

B.S. Marine Biology, San Diego State University (SDSU) Honors Program, GPA: 3.69	May 2012
CSU Marine Biology Semester, Santa Catalina Island, CA Specialty Courses: Marine Ichthyology, Aquatic Toxicology Marine Ecological Processes, Independent Research	Fall 2011
PSG Institute of Management, Coimbatore, India SDSU India Study Abroad Program	Winter 2011

Research Experience

Scientific Aide, California Department of Fish and Game 2011- Present

- Supervisor: Doug Neilson
- Study: Stock assessment of the California Spiny Lobster, *Panulirus interruptus*
- Location: San Diego, CA

Research Technician, Georgia Institute of Technology Summer 2011

- Supervisor: Dr. Mark Hay
- Study: Chemical ecology of coral-algal interactions in the South Pacific
- Location: Atlanta, GA; Key Largo, FL; Votua Village, Fiji
- Proficiencies Achieved: Behavioral choice assays, Indo-Pacific coral and alga identification, extraction and bioassay-guided fractionation, use of Rotovap, Savant, and Pulse-amplitude-modulated fluorometer (PAM)

Research Assistant, SDSU Coastal and Marine Laboratory 2009-2011

- Supervisor: Dr. Kevin Hovel
- Study: Effects of seagrass habitat structure on predator-prey interactions
- Location: San Diego Bay, CA
- Proficiencies Achieved: Experiments conducted in laboratory and in situ using SCUBA, maintenance of aquaria, epifaunal samples sorted to species, collected using otter trawling, dip net, seine net and coring techniques

Research Assistant, SDSU Coastal and Marine Laboratory

2008-2009

- Supervisor: Dr. Brian Hentschel
- Study: Behavioral responses of marine invertebrate larvae to halocline thin layers; Effects of toxic metals on an estuarine polychaete
- Location: San Diego, CA; Tijuana Estuary, CA
- Proficiencies Achieved: Hired on to paid position following assistantship, use of digital photography and image analysis software (Image J), organism and sediment collection within an estuarine setting, cultured and reared marine larval invertebrate and algal species

Scientific Scuba Diver, SDSU Coastal and Marine Laboratory

2008-2011

- Supervisor: Dr. Kevin Hovel
- Study: Spatial distribution, reproductive behavior and dispersal processes of Pink Abalone, *Haliotis Corrugata*; Movement and habitat use of the California Spiny Lobster, *Panulirus interruptis*
- Location: Point Loma, CA; San Diego Bay, CA
- Proficiencies Achieved: Conducted transect surveys, underwater sampling, obtained extensive boating experience, recovered and replaced data logging devices, deployed and maintained underwater anchoring systems

Professional Presentations

Warneke, A. *Consequences of the plastic leachate, Bisphenol-A, on the palatability of a primary producer*

- Student Symposium, Wrigley Institute for Marine Science, Catalina Island, CA, 2011

Warneke, A., Virtue, S., Sanchez, A., & Hovel, K. *Seagrass nursery habitat function: Relative effects of habitat structure and prey density on mesopredator foraging efficiency*

- SDSU Student Symposium. San Diego, CA, 2011
<http://www.youtube.com/watch?v=yNASxZLctMY>
- Western Society of Naturalists Meeting. San Diego, CA, 2010

Warneke, A., James, V., Kiel, C., Miller, W., & Hentschel, B.T. *The response of Echinopluteus larvae of Dendraster excentricus to haloclines varies with larval age and maternal effects*

- SDSU Student Symposium. San Diego, CA, 2010
- ASLO Ocean Sciences Meeting. Portland, OR, 2010
- Western Society of Naturalists Meeting. Monterey Bay, CA, 2009

Educational Outreach**"Under the Boat"**

Warneke, A., Virtue, S., Kozma, K. *Chemical Ecology: Defenses*

<http://www.youtube.com/watch?v=4uBYSx01z8g>

- Best Student Film- 2011 Beneath the Waves Film Festival, 40th Annual Benthic Ecology Meeting, Mobile, Alabama

"Tales from the Tikina"

Warneke, A., *Documentary on Locally-Managed Marine Areas in Fiji*

<http://www.youtube.com/watch?v=WzI0-AqeIug>

"DJ's Locker"

Science Blog, Editor

<http://djslocker.org/>

Aquarium Crew Member, Chula Vista Nature Center, Chula Vista, CA, 2010

Professional Organizations

International Society of Chemical Ecology

Western Society of Naturalists (WSN)

American Society of Limnology and Oceanography (ASLO)

American Geophysical Union (AGU)

National Association of Underwater Instructors (NAUI)

Phi Eta Sigma Honors Society

SDSU Scholars Without Borders

Golden Key International Honors Society

- President (2011-2012)

Mortar Board International Honors Society

- Active/Alumni Liaison (2011-2012)

Phi Kappa Phi Honors Society

SDSU Marine Ecology and Biology Student Association

- Undergraduate Representative (Spring 2012)

Awards and Distinctions

Harry E. Hamber Memorial Scholarship (2011)

Robert Harwood Memorial Scholarship (2010)

PSG Institute-India Study Abroad Scholarship (2010)

SDSU Associated Students Study Abroad Scholarship (2010)

Scholars without Borders Study Abroad Scholarship (2010)

Louise and Raymond Clark Endowed Scholarship (2009)

Mabel Myers Memorial Scholarship (2009-present)

Certifications

National Association of Underwater Instructors (NAUI)

- Assistant Instructor, Training Assistant, Advanced Scuba Diver, Recue Diver, Nitrox Diver, Field Neuro & Oxygen Administration, CPR/First Aid

American Academy of Underwater Sciences (AAUS)

- Scientific Diver

Professional Association of Diving Instructors (PADI)

- Open Water

California Department of Boating and Waterways

- Boating Safety Certification

Technological Proficiencies

- Microsoft : Word, Excel, Powerpoint
- Macintosh: Imovie, Garageband
- Statistical software: Systat, Minitab, Image J

References

Mark E. Hay, Ph.D.

Professor and Linda and Harry Teasely Chair in Environmental Biology,
School of Biology, Georgia Institute of Technology
(404) 894-8429, mark.hay@biology.gatech.edu

Kevin A. Hovel, Ph.D.

Associate Professor, Department of Biology, San Diego State University
(619) 594-6322, hovel@sciences.sdsu.edu

Jeremy D. Long, Ph.D.

Assistant Professor, Department of Biology, San Diego State University
(619) 594-3598, jlong@sciences.sdsu.edu

Brian T. Hentschel, Ph.D.

Associate Professor and Coordinator of the Ecology Program Area Department of Biology,
San Diego State University
(619) 594-0358, hentsche@sciences.sdsu.edu

Bengt J. Allen, Ph.D.

Assistant Professor, Department of Biological Sciences, California State University, Long Beach
(563) 985-7553, bjallen@csulb.edu

Mark Flahan

Diving and Boating Safety Officer Emeritus, San Diego State University
(619) 977-6275, firemark@san.rr.com

Karey Sabol

International Coordinator, Division of Undergraduate Studies, San Diego State University
(619) 594-2200, ksabol@mail.sdsu.edu

Additional references available upon request

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