

ALEXANDRIA M. WARNEKE

DEPARTMENT OF BIOLOGY
SAN DIEGO STATE UNIVERSITY
5500 CAMPANILE DRIVE
SAN DIEGO, CA 92182

W: [HTTPS://SITES.GOOGLE.COM/SITE/AMWARNEKE/](https://sites.google.com/site/amwarneke/)
T: 858-602-7097 E: A.WARNEKE@YAHOO.COM
B: WWW.DEEPSEANEWS.COM

EDUCATION

- M.S. Biology, San Diego State University (SDSU), San Diego, CA 2012- 2015
Program Specialty: Chemical Ecology, GPA: 3.82, Advisor: Dr. Jeremy Long
Specialty Courses: Design and Analysis of Ecological Experiments,
Instructors: Dr. Tony Underwood and Dr. Gee Chapman
- B.S. Marine Biology, San Diego State University (SDSU), San Diego, CA 2008- 2012
Cum Laude, GPA: 3.63, GRE: Verbal (154) Quantitative (150) Analytical (4.5)
- CSU Marine Biology Semester, Santa Catalina Island, CA Fall 2011
Specialty Courses: Marine Ichthyology, Aquatic Toxicology
Marine Ecological Processes, Independent Research
- PSG Institute of Management, Coimbatore, India Winter 2011
SDSU India Study Abroad Program

RESEARCH INTERESTS

Current Institution: San Diego State University, Department of Biology, Ecology Program Area
Research Mentor: Dr. Jeremy Long

My research interests are primarily in the field of Aquatic Chemical Ecology. Specifically, I seek to explore the consequences of contaminants on the chemically-mediated behavior of marine organisms in a community-level context. This research will further our currently limited knowledge on info-disrupting pollutants and provide a more ecologically realistic approach for contaminant regulation in aquatic ecosystems.

PROFESSIONAL EXPERIENCE

- Graduate Assistant, San Diego State University** 2012-Present
Supervisor: Constance Gramlich
Responsibilities: Assistance in marine collections, extensive knowledge of invertebrate taxa and natural history within the Southern California Bight, and regular maintenance of boat and classroom aquaria
- Research Technician, SDSU Coastal and Marine Institute Laboratory** Summer 2012
Supervisor: Dr. Jeremy Long
Study: Effects of the scale insect, *Haliaspis spartina*, on the marsh cordgrass *Spartina foliosa*

- Scientific Aide, California Department of Fish and Game** 2011- 2012
Supervisor: Doug Neilson
Study: Stock assessment of the California Spiny Lobster, *Panulirus interruptus*
Proficiencies Achieved: Tag and recapture methods and knowledge of fisheries management, experience with MatLab statistical software and Geographic Information Systems (ARCGIS)
- 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; National Undersea Research Center, Key Largo, FL; Viti Levu, 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 Institute Laboratory** 2009-2011
Supervisor: Dr. Kevin Hovel
Study: Effects of seagrass habitat structure on predator-prey interactions
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 Institute 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
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 Institute 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*
Proficiencies Achieved: Conducted transect surveys, underwater sampling, obtained extensive boating experience, recovered and replaced data logging devices, deployed and maintained underwater anchoring systems

MANUSCRIPTS IN PREPARATION

Warneke, A., Virtue, S., Sanchez, A., & Hovel, K. *Mesopredator foraging success in eelgrass (Zostera marina): relative effects of epiphytes, shoot density, and prey abundance*. Submitted: Marine Ecology Progress Series.

PROFESSIONAL PRESENTATIONS

A Disturbance in the Force: The Impact of Human Chemicals on Ecological Interactions

- Invited Talk, Skype in the Classroom “Exploring Oceans,” 2013

Social media as a tool for marine education and outreach.

- Session Moderator, ScienceOnline Oceans, Miami, FL, 2013

Info-disruption: Examining contaminants through an ecological lens.

- Invited Talk, San Diego State University, Chemical Ecology Class, San Diego, CA, 2013

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 Dendroaster 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

AWARDS AND DISTINCTIONS

Dave Ferris Travel Fund (2013)

Women’s Environmental Council Scholarship (2013)

Harold and June Grant Memorial Scholarship (2012-2014)

COAST Student Fellowship (2013)

Inamori Fellowship (2012)

ScienceOnline Student Travel Grant (2012)

#SciFund Challenge (2012)

SDSU Most Outstanding Biology Student (2012)

Association of Environmental Professionals Student Scholarship (2012)

Phi Kappa Phi Love of Learning Award (2012)

Common Experience International Photo Contest 1st Place Winner (2012)

Graduate Equity Grant (2012-2014)

State University Grant (2012-2014)

Henry L. Janssen Mortar Board Alumni Scholarship (2012)

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)

PROFESSIONAL MEMBERSHIPS

American Academy of Underwater Sciences (AAUS)
American Geophysical Union (AGU)
American Society of Limnology and Oceanography (ASLO)
Association of Environmental Professionals-San Diego Chapter (AEP)
Association of Women in Science (AWIS)
Golden Key International Honors Society

- President (2011-2012)

Graduate Women in Science (GWIS)
International Society of Chemical Ecology
Mortar Board International Honors Society

- Active/Alumni Liaison (2011-2012)
- Ruth Weimer Mount Chapter Excellence and Golden Torch Award Winner (2012)

National Association of Underwater Instructors (NAUI)
Phi Eta Sigma Honors Society
Phi Kappa Phi Honors Society
SDSU Scholars Without Borders
Society of Environmental Toxicology and Chemistry (SETAC)
Western Society of Naturalists (WSN)
Women's Environmental Council (WEC)

OUTREACH AND SYNERGISTIC ACTIVITIES

“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
- Invited presentation: Port of San Diego Maritime Alliance Annual Gala (2013)

“Tales from the Tikina”

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

<http://www.youtube.com/watch?v=WzJ0-AqeJug>

“The Coastal and Marine Institute Laboratory”

Warneke, A., *Screen Writer, An Introduction to SDSU's Coastal and Marine Institute*

<http://www.youtube.com/watch?v=ElQZ3ncRkuQ>

Deep Sea News

Science Blog, Writer

<http://deepseanews.org/>

Beneath the Waves Film Festival

West Coast Representative (2011-Present)

<http://beneaththewavesfilmfestival.org>

Managed Festivals: PangeaSeed's Great West Coast Migration (2012)

Western Society of Naturalist Annual Meeting (2013)

SDSU Marine Ecology and Biology Student Association

Seminar Series Co-Coordinator (2013-2014)

Outreach and Education Coordinator (2012-2013)

Undergraduate Representative (2011-2012)

Coastal and Marine Institute Laboratory Annual Open House (2012, 2013)

"So You Think You Can Be a Marine Biologist?" Undergraduate Seminar Coordinator

Making Waves Classroom Outreach Initiative Co-Coordinator

Caffeinated Communication Coordinator

Julian Charter High School, Science Fair Judge

High Tech Fair, San Diego Science Alliance Volunteer

Awards Received: San Diego Oceans Foundation Ocean Leadership Award (2012)

Maritime Alliance Environmental Leadership Award (2013)

Social Media for Social Change eCourse (*Ripples Edge Media*)

External Course Reviewer

<http://ripplesedgemediacom>

ScienceOnline San Diego

Board of Directors

<http://sandiego.scienceonline.com>

RELEVANT 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: Final Cut Pro, Imovie, Garageband

Statistical Software: Prism, Systat, Minitab, Image J

Social Networking: Wordpress, YouTube, Twitter, Facebook

REFERENCES

Jeremy D. Long, Ph.D.

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

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@mail.sdsu.edu

Douglas J. Neilson, Ph.D.

California Department of Fish and Game
858-467-4229, dneilson@dfg.ca.gov

Bengt J. Allen, Ph.D.

Assistant Professor, Department of Biology, 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

W: <https://sites.google.com/site/amwarneke/>

E: a.warneke@yahoo.com

B: www.deepseanews.com

P: 858-602-7097