

ALEXANDRIA M. WARNEKE

EMAIL: A.WARNEKE@YAHOO.COM
TWITTER: @ALEX_WARNEKE

WEBSITE: ALEXWARNEKE.COM
PHONE: 858-602-7097

EDUCATION

M.S. Biology, San Diego State University (SDSU), San Diego, CA 2012- 2014
Program Specialty: Chemical Ecology, 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 with Distinction and Honors in the Biological Sciences

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 Study Abroad Program

PROFESSIONAL EXPERIENCE

Scientific Programs Coordinator, Cabrillo National Monument 2015-Present
Responsible for creating and managing K-12 grade science-based programming focused on intertidal and community ecology for the National Park Service.

Masters Candidate, San Diego State University 2012-2014
Research Focus: Behavioral and ecological consequences of pollutants on ecological processes
Managed and garnered full funding for laboratory experiments, knowledge of techniques in ecotoxicology, mentored 10 undergraduate and high school students

Assistant Marine Collector, San Diego State University 2012-2014
Marine collections and maintenance of university invertebrates collection, extensive knowledge of taxa and natural history within the Southern California Bight, regular maintenance of boat and classroom aquaria.

Scientific Aide, California Department of Fish and Game 2011- 2012
*Research Focus: Stock assessment of the California Spiny Lobster, *Panulirus interruptus**
Broad understanding of fisheries management, experience with MatLab statistical software and Geographic Information Systems (ARCGIS)

Research Technician, Georgia Institute of Technology Summer 2011
Research focus: Chemical ecology of coral-algal interactions in the South Pacific
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 2008-2011
Research Focus: Effects of seagrass habitat structure on predator-prey interactions; Behavioral responses of marine invertebrate larvae to halocline thin layers; Effects of toxic metals on an estuarine polychaete
Experiments conducted in laboratory and *in situ* using SCUBA, aquaria maintenance, epifaunal identification to species level, organismal collection utilizing otter trawling, dip net, seine net and coring techniques, use of image analysis software (Image J), cultured and reared marine larval invertebrate and algal species

Scientific Scuba Diver, SDSU Coastal and Marine Institute Laboratory 2008-2011
Research Focus: Spatial distribution, reproductive behavior and dispersal processes of Pink Abalone, Haliotis Corrugata; Movement and habitat use of the California Spiny Lobster, Panulirus interruptis
Conducted transect surveys, underwater sampling, obtained extensive boating experience, deployed and maintained underwater acoustics system

PUBLICATIONS

Warneke, A.M. and Long, J.D. 2015. *Copper contamination impairs herbivore initiation of seaweed inducible defenses and decreases their effectiveness.* PLoS One. 10(8): e0135395. doi: 10.1371/journal.pone.0135395

Hovel, K.A., **Warneke, A.M.**, Virtue, S., & Sanchez, A. 2016. *Mesopredator foraging success in eelgrass (Zostera marina): relative effects of epiphytes, shoot density, and prey abundance.* JEMBE. 474: 142-147. Doi: 10.1016/j.jembe.2015.10.014

Bik H.H., Dove A.D.M., Goldstein M.C., Helm R., MacPherson R., Martini K., **Warneke A.M.**, & McClain C. 2015. *Ten Simple Rules for Effective Online Outreach.* PLoS Comput Biol. 11(4): e1003906. doi: 10.1371/journal.pcbi.1003906

Staaterman, E.R., Gallagher A.J., Reichenbach Z.C., Bhandiwad A.A., Gravinese P.M., Moeller P.M., Shantz A.A., Shiffman D.S., Toth L.T., & **Warneke A.M.** 2014. *Lights, camera, science: The utility and growing popularity of film festivals at scientific meetings.* Ideas in Ecology and Evolution 7: 11-16.

PROFESSIONAL PRESENTATIONS

A Disturbance in the Force: Copper impairs herbivore response to seaweed inducible defenses

- SoCal Society of Ecotoxicology and Chemistry. San Diego, CA, 2014
- Benthic Ecology Meeting. Jacksonville, FL, 2014
- SDSU Student Symposium. San Diego, CA, 2014

The impact of human chemicals on ecological interactions

- Invited Talk, CMIL Open House, 2014
- 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

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

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

AWARDS AND DISTINCTIONS

2014 - SDSU Student Research Symposium Provost Award • Phi Kappa Phi Love of Learning Award • CSU COAST Student Travel Award • Harold and June Grant Memorial Scholarship • State University Grant • Common Experience International Photo Contest Honorable Mention • Neel Endowed Scholarship

2013 - Dave Ferris Travel Fund • Women’s Environmental Council Scholarship • Harold and June Grant Memorial Scholarship • CSU COAST Student Fellowship • Graduate Equity Grant • State University Grant

2012 - Inamori Fellowship • #SciFund Challenge • ScienceOnline Student Travel Grant • SDSU Most Outstanding Biology Student • Harold and June Grant Memorial Scholarship • Association of Environmental Professionals Student Scholarship • Phi Kappa Phi Love of Learning Award • Common Experience International Photo Contest 1st Place Winner • Graduate Equity Grant • State University Grant • Henry L. Janssen Mortar Board Alumni Scholarship • Mabel Myers Memorial Scholarship

2011- Harry E. Hamber Memorial Scholarship (2011) • Mabel Myers Memorial Scholarship

2010- Robert Harwood Memorial Scholarship • PSG Institute-India Study Abroad Scholarship • SDSU Associated Students Study Abroad Scholarship • Scholars without Borders Study Abroad Scholarship • Mabel Myers Memorial Scholarship

2009- Louise and Raymond Clark Endowed Scholarship • Mabel Myers Memorial Scholarship

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 Science Writers (NASW)
National Association of Underwater Instructors (NAUI)
Phi Eta Sigma Honors Society
The Honors Society of Phi Kappa Phi
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

Deep Sea News

Ocean Science Blog, Writer (2014-Present)
<http://deepseanews.org/>

Beneath the Waves, Inc.

Director of Social Media and Marketing (2011-Present)
<http://beneaththewavesfilmfestival.org>
Managed Festivals: Living Coast Discovery Center (2014)
Benthic Ecology Meeting (2014)
Western Society of Naturalist Annual Meeting (2013)
PangeaSeed's Great West Coast Migration (2012)

PangeaSeed Foundation

Board of Directors (2015-Present)
<http://pangeaseed.foundation.org/>

The Bio Logik Project

Co-coordinator, Student Mentor
Bio Logik is the deeper understanding of Biology and Ecology that is achieved when science, hip hop, and videos merge. Our collaboration emphasizes the production of scientifically

accurate music videos that 1) create a more personal connection between students and science and 2) make science accessible to a broader audience.

<http://longlab.weebly.com/bio-logik.html>

“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>

“#SciFund Remix”

Warneke, A., *Director, #SciFund Challenge Crowdfunding Video*

<https://www.youtube.com/watch?v=N5hiuow2uC4>

“Wood: It’s What’s for Dinner”

McClain, C., Keartes, S., **Warneke, A.**, *Creative Consultant, #SciFund Challenge*

<http://vimeo.com/85623778>

“Seaweed Shop”

Payne, E., Leon, B., Trujillo, A., **Warneke, A.**, *Mentor/Creative Consultant, The Bio Logik Project*

<https://www.youtube.com/watch?v=Ixp7zTQnIE>

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, 2014)

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

Caffeinated Communication Coordinator

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>

RELEVANT CERTIFICATIONS

National Association of Underwater Instructors (NAUI): Assistant Instructor, Training Assistant, Advanced Scuba Diver, Rescue 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, Outlook
Macintosh: Final Cut Pro, IMovie, Garageband
Statistical Software: Prism, Systat, Minitab, Image J
Social Networking: Wordpress, Squarespace, YouTube, Twitter, Facebook, Hootsuite, TweetDeck, Google+, Instagram, Buffer, MailChimp

ACTIVITIES & HOBBIES

Advanced Yoga (Yoga Alliance: 200 hr. Vinyasa Instructor Certification)
Proficient in Saxophone, Flute, Cello, & Piano
Recreational Scuba Diving

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

Craig R. McClain, Ph.D.

Chief Editor, Deep Sea News
Assistant Director of Science, National Evolutionary Synthesis Center
(919) 668-4590, cmcclain@nescent.org, www.deepseanews.com

Austin J. Gallagher

Director, Beneath the Waves, Inc.
(617) 633-0207, austin@beneaththewaves.org, www.beneaththewaves.org

Additional references available upon request

E: a.warneke@yahoo.com

W: www.alexwarneke.com

B: www.deepseanews.com

P: 858-602-7097