

## ALEXANDRIA M. WARNEKE, M.Sc.

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### EDUCATION

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- 2014**      **M.Sc. Ecology, San Diego State University (SDSU), San Diego, CA**  
Program Specialty: Chemical Ecology, Advisor: Dr. Jeremy Long
- 2012**      **B.S. Marine Biology, San Diego State University (SDSU), San Diego, CA**  
*Cum Laude* with Distinction and Honors in the Biological Sciences
- 2011**      **CSU Marine Biology Semester, Santa Catalina Island, CA**

### PROFESSIONAL EXPERIENCE

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- 2016- present**   **Innovative Community Engagement Program Lead**, Climate Science Alliance - (formerly San Diego Climate Science Alliance)
- 2015- present**   **Science Education and Evaluation Consultant**, Department of Fish and Wildlife
- 2014- present**   **Scientific Programs Coordinator/Marine Biologist (GS-9)**, Cabrillo National Monument-National Park Service
- 2014-2016**      **Centennial Volunteer Ambassador**, Student Conservation Association/Americorps
- 2012-2014**      **Assistant Marine Collector**, San Diego State University
- 2011-2012**      **Scientific Aide**, California Department of Fish and Wildlife
- 2011**            **Research Technician**, Georgia Institute of Technology
- 2008-2011**      **Research Assistant**, SDSU Coastal and Marine Institute Laboratory
- 2008-2011**      **Scientific Scuba Diver**, SDSU Coastal and Marine Institute Laboratory

### PUBLICATIONS

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- **Warneke, A.M.** and Ready, M.J. 2018. *Niche: The Natural Art of Form and Function*. ISBN: 978-0-9998580-0-4
- **Warneke, A.M.** 2016. *Cabrillo National Monument – Tidepool Sticker Book*. ISBN: 978-0-941032-10-0
- **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.

## AWARDS AND DISTINCTIONS

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2018	Climate Adaptation Leadership Award, Climate Science Alliance Cognizant Grant for Women in Science Program (\$20,000) National Environmental Education Foundation (\$9,740) NPS- Research Learning Center Grant (\$45,000)
2017	National Park Foundation Citizen Science 2.0 Grant (\$100,000) Doyle Foundation Grant – Cabrillo Outreach Initiative (\$100,000) NPS- Research Learning Center Grant (\$75,000) Every Kid in a Park Grant (\$10,000)
2016	San Diego Unified School District Distinguished Mentor Every Kid in a Park Grant (\$10,000)
2014	SDSU Student Research Symposium Provost Award Every Kid in a Park Grant (\$10,000)
2013	CSU COAST Student Fellowship Maritime Alliance Environmental Leadership Award
2012	Inamori Fellowship San Diego Oceans Foundation Ocean Leadership Award SDSU Most Outstanding Biology Student

## SELECT PROFESSIONAL PRESENTATIONS

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- Ecological Society of America (2018): Invited Panelist *“The Use of Digital Media to Connect Visitors to the Science of National Parks”*
- San Diego Zoo Global- Conservation Institute (2018): Invited Speaker *“Connecting the Public to the Science of the Parks”*
- Aquarium of the Pacific Citizen Science Symposium (2018): Invited Speaker *“Our Urban Watershed: Fostering Connections Through Exploration and Citizen Science”*
- San Diego Climate Summit (2018): Session facilitator *“Class on the Grass: Connecting our Communities to Regional Climate Science”*
- Role of Art in Ocean Advocacy Event, University of California-San Diego (2018): Invited Speaker *“The Art of Change”*
- Western Society of Naturalist (2017): Ignite Talk *“Lessons from Building a 21<sup>st</sup> Century Rocky Intertidal”*
- Naturally Speaking Science Education Series 2016-2018 Cabrillo National Monument – National Park Service
- San Diego Zoo Global-Conservation Institute (2016, 2017): Lecturer, Advanced Inquiry Masters Program
- SciCommCamp (2017): Workshop organizer *“DIY SciComm: Using Maker Tools to Communicate Your Science”*
- Tribal Climate Summit, University of San Diego (2017): *“A Case Study: Climate Kids Tribes”*
- Climate Educators Training, San Diego Gas and Electric (2017): *“Shifting Our Climate Culture”*
- Benthic Ecology Meeting (2014): *“A Disturbance in the Force: Copper Impairs Herbivore Response to Seaweed Inducible Defenses”*
- Skype in the Classroom –Exploring Oceans (2013): *“The Impact of Human Chemicals on Ecological Interactions”*
- Science Online Oceans (2013): Session moderator *“Social Media as a Tool for Marine Education and Outreach”*

## OUTREACH AND SYNERGISTIC ACTIVITIES

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- **OceanDotComm** *Science Communication Specialist* (2018) A special taskforce of forty science communicators that tackle issues confronting the coastal regions of the United States. Utilizing varying means of communication, this group brings critical ocean conservation issues to light for the public.
- **Conservation + Canvas** *Coordinator* (2018-Present) A summer exploration program that connects high school students from extremely underserved populations across San Diego to art, nature, and science.
- **The EcoLogik Project** *Coordinator* (2017-Present) A unique fusion of ecology, nature, and technology, EcoLogik connects the next generation of stewards to the natural resources and science of Cabrillo National Monument. In collaboration with the Downtown Library's Innovation Lab and the non-profit Treobytes, this multidisciplinary approach fosters a platform to make technology more accessible to students and inspire them to careers in STEM fields. The ultimate goal of the EcoLogik Project is to provide the tools and context to empower the 21st century of park stewards in meaningful and relevant ways. [www.cabrilloeducation.org/ecologik](http://www.cabrilloeducation.org/ecologik)
- **The Escondido Creek Conservancy** *Ed. Advisory Board- Informal Education Chair* (2017-Present) [www.escondidocreek.org](http://www.escondidocreek.org)
- **Climate Science Alliance** *Innovative Community Engagement – Team Lead* (2016-Present) Partnership between the California Department of Fish and Wildlife and the California Landscape Conservation Cooperative to promote and support climate smart conservation in the south coast region. [www.climatesciencealliance.org](http://www.climatesciencealliance.org)
- **Climate Kids** *Team Lead* (2016-Present) Collaborative partnerships on climate change and youth engagement with a focus on art, storytelling, and science. Projects in: Sacramento, CA (summer 2014), San Diego, CA (current), St. Louis, MO (May 2015), Climate Kids Mexico (current) and Climate Kids for Tribes (current). Partners include public libraries, schools, art museums, science centers, foundations, tribes, government, businesses, and NGOs. [www.climatekids.org](http://www.climatekids.org)
- **PangeaSeed Foundation** *Board of Directors-Vice President* (2015-Present) A global non-profit organization that uses street art and artists as a vector to connect the public with ocean issues across 30 different countries. [www.pangeaseed.foundation.org](http://www.pangeaseed.foundation.org)
- **Deep Sea News** *Ocean Science Blog, Writer* (2014-Present) [www.deepseanews.com](http://www.deepseanews.com)
- **Beneath the Waves, Inc.** *Director of Social Media and Marketing* (2011-2016) A non-profit organization that assists scientists in using film festivals to communicate their research. [www.beneaththewaves.org](http://www.beneaththewaves.org)
- **SDSU Marine Ecology and Biology Student Association** [www.mebsa.wordpress.org](http://www.mebsa.wordpress.org)
  - *Seminar Series Co-Coordinator* (2013-2014)
  - *Outreach and Education Coordinator* (2012-2013)
  - *Organization Co-founder & 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* (2012, 2013, 2014)

## RELEVANT CERTIFICATIONS

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- **National Park Service (NPS):** Fundamentals of Interpretation, History of the NPS, Media Fundamentals for Interpretation, Interpretive Writing, Scientific Integrity, How to Prepare an Interpretive Program, Communicating with Tact, Interpreting Climate Change, Civil Treatment, Operational Leadership
- **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
- **University of California:** Certified California Naturalist
- **Other:** Scientific Illustration, GIS for Biologists, Data Science Certificate

## TECHNOLOGICAL PROFICIENCIES

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- **Adobe:** InDesign, Illustrator, Photoshop
- **Microsoft:** Word, Excel, Powerpoint, Outlook
- **Macintosh:** Final Cut Pro, Imovie, Garageband
- **Statistical Software:** Prism, Systat, Minitab, Image J, R Studio
- **Social Networking:** Wordpress, Squarespace, Pictochart, Snapchat, YouTube, Twitter, Facebook, Hootsuite, TweetDeck, Google+, Instagram, Buffer, MailChimp
- **Other:** 123D Catch, Autodesk, Meshmixer, 3D Printing, Arduino, ArcGIS

## REFERENCES

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**Keith J. Lombardo, Ph.D.**

Resource Learning Center Manager – Mediterranean Network, National Park Service  
(619) 557-5450 ext. 4582, keith\_lombardo@nps.gov

**Amber Pairis, Ph.D.**

Director, Climate Science Alliance, Center for Climate Change Impacts and Adaptation  
(916) 205-9478, apairis@ucsd.edu

**Jeremy D. Long, Ph.D.**

Assistant Professor, Department of Biology, San Diego State University  
(619) 888-5294, jlong@mail.sdsu.edu

**Craig R. McClain, Ph.D.**

Chief Editor, Deep Sea News  
Executive Director, Louisiana University Marine Consortium (LUMCON)  
(985) 851-2801, cmclain@lumcon.edu, www.deepseanews.com

Additional References Available Upon Request.