

ANGELIQUE E. WHITE

School of Ocean and Earth Science and Technology

Department of Oceanography

1950 East-West Road. University of Hawaii at Manoa. Honolulu, HI 96822

Phone: (808) 956-6220, Email: aewhite@hawaii.edu

RESEARCH INTERESTS

The fundamental objective of my research is to develop an enhanced and mechanistic understanding of the chemical and biological processes that define the fluxes, standing stocks and productivity of the oceanic component of Earth's life support system. Accordingly, my research skill set and interests are broad, spanning the following topical areas: phytoplankton physiology, nitrogen fixation, phosphorus cycling, elemental stoichiometry, hyperspectral absorbance, attenuation and fluorescence, harmful algal blooms, numerical approaches to modeling phytoplankton-mediated processes, and utilization of remote sensing tools to explore habitat variability.

EDUCATION

- Ph.D., Biological Oceanography, Oregon State University 2001-2006
Advisors: Professor Ricardo Letelier and Professor Yvette Spitz
“Phosphorus physiology and environmental forcing of oceanic cyanobacteria, primarily *Trichodesmium* spp”
- M.S., Biology, University of Alabama in Huntsville 1999-2001
Advisors: Professor Ronald Ritschard and Professor Richard McNider
“A numerical model of primary productivity and dissolved oxygen dynamics in Mobile Bay”
- B.S., with highest honors, Biology, University of Alabama in Huntsville 1994-1998

ACADEMIC POSITIONS

- Professor, University of Hawaii, Honolulu, HI, USA 2021-present
Associate Professor, University of Hawaii, Honolulu, HI, USA 2018-2021
Associate Professor, Oregon State University, Corvallis, OR, USA 2015-2018
Assistant Professor, Oregon State University, Corvallis, OR, USA 2009-2015
Postdoctoral Research Associate, Oregon State University, Corvallis, OR 2006-2009

AWARDS

- University Hawaii Board of Regents' Medal for Excellence in Research 2021
ASLO Yentsch-Schindler Early Career Award 2016
AGU Early Career Award 2015
OSU Inspirational Woman Award 2015
National Academy of Science Kavli Fellow 2010
OSU Distinguished Dissertation Award 2007
AGU Outstanding Presentation Award 2006

EDITORIAL BOARD APPOINTMENTS

Editor, Journal of Geophysical Research Letters	2019-present
Associate Editor, Limnology and Oceanography Letters	2016-present

PUBLICATIONS

My work has resulted in ~95 peer-reviewed publications submitted to date, ~50 of which include myself or my students/post-docs as lead author, with over 3300 citations and an overall h-index of 30 as of 6/2022. Selected publications, led by myself or members of my lab group are listed below.

- Juranek*, L.W., White*, A.E., Dugenne, M., Henderikx Freitas, F., Dutkiewicz, S., Ribalet, F., Ferrón, S., Armbrust, E.V. and Karl, D.M., (2020) The Importance of the Phytoplankton “Middle Class” to Ocean Net Community Production. *Global Biogeochemical Cycles*, 34(12), p.e2020GB006702.* **both authors contributed equally**
- Cael, B.B. and White, A.E., (2020) Sinking versus suspended particle size distributions in the North Pacific Subtropical Gyre. *Geophysical Research Letters*, 47(15), p.e2020GL087825.
- White, A.E., J. Granger, C. Selden, M.R. Gradoville, L. Potts, A. Bourbonnais, R.W. Fulweiler, A. N. Knapp, W. Mohr, P. Moisander, C.R. Tobias, S.T. Wilson, M. Caffin, M. Benavides, S. Bonnet, B. Chang, and M. Mulholland (2020). A Review of the ¹⁵N₂ Tracer Method to Measure Diazotroph Production in Pelagic Ecosystems. *Limnology and Oceanography Methods*. doi:10.1002/lom3.10353
- White, A.E. S. J. Giovannoni, Y. Zhao, C. Carlson (2019). Elemental Content and Stoichiometry of SAR11 Chemoheterotrophic Marine Bacteria. *Limnology and Oceanography Letters*. doi: 10.1002/lol2.10103
- White, A.E. B. Barone, R.M. Letelier, and D.M. Karl (2017). Productivity diagnosed from the diurnal cycle of particulate carbon in the North Pacific Subtropical Gyre. *Geophysical Research Letters*. doi: 10.1002/2016GL071607
- White, A.E. A.L. Whitmire, B. Barone, R.M. Letelier, D.M. Karl, and M.J. Church (2015) Phenology of particle size distributions in the North Pacific gyre. *Journal of Geophysical Research-Oceans*. doi: 10.1002/2015JC010897

SELECTED SERVICE AND OUTREACH

SERVICE TO PROFESSION- PROFESSIONAL ASSOCIATIONS

American Society for Microbiology	2015-present
Association for the Sciences of Limnology and Oceanography, member	2004-present
American Geophysical Union, member	2005-present