

## ANGELICQUE E. WHITE

School of Ocean and Earth Science and Technology

Department of Oceanography

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

### RESEARCH FUNDING

My research program has attracted funding from diverse sources including NSF, NOAA, NASA, and private funding sources such as the Simons Foundation. I was a lead or co-principal investigator on grants totaling over \$20M to my primary university. Funding levels below indicate grant dollars to my home institutions where I served as a PI or co-PI not necessarily the total budget of the proposal. If the grant was shared between co-I's at a single institution, I cite the amount that went to my index in parentheses.

<b>Title</b>	<b>Role</b>	<b>Agency</b>	<b>Duration</b>	<b>Amount</b>
Hawaii Ocean Time-series	PI (as of Aug.1 2019)	NSF Biological Oceanography	8/2018 – 7/2023	\$9,029,111
The PACE-MAPP algorithm: Coupled aerosol and ocean products from combined polarimeter and OCI SWIR measurements	PI	Subcontract from NASA Langley Research Center	7/2020 – 6/2023	\$126,895
EarthCube RCN for Marine Ecological Time Series (METS)	Co-PI	NSF Earthcube	10/2020 – 9/2023	\$30,704
EAGER: Collaborative Research-Early Career Chief Scientist Training for Biological and Chemical Oceanographers	Co-PI	NSF Biological Oceanography	4/2019 – 4/2021	\$215,068 (\$136,157)
Simons Collaboration on Ocean Processes and Ecology (SCOPE)	PI- UH Investigator	Simons Foundation	7/2017 – 6/2024	\$2,833,200
Ecology of the NPSG Transition Zone, Gradients 3	PI – UH (subcontract from UW)	Simons Foundation	1/2018- 12/2020	\$416,415
EAGER: Collaborative Research-Detection Limit in Marine Nitrogen Fixation Measurements - Constraints of Rates from the Mesopelagic Ocean	Lead PI (OSU)	NSF Chemical Oceanography	4/2017 – 2/2020	\$53,699
Ecology of the NPSG Transition Zone, Gradients 1-2	PI- OSU (subcontract from UW)	Simons Foundation	3/2016- 2/2018	\$311,676
Simons Collaboration on Ocean Processes and Ecology (SCOPE)	PI-OSU (subcontract from UH)	Simons Foundation	10/2014 – 6/2017	\$762,131
Collaborative Research-Measurement of Ocean Productivity from the Diurnal Cycle of O <sub>2</sub> and C	Lead PI (OSU)	NSF Chemical Oceanography	9/2015 – 8/2018	\$359,108
Coastal Ocean Carbon Cycling during Wintertime Conditions	Co-PI	NSF Chemical Oceanography	6/2015- 5/2017	\$756,682 (\$235,381)
Center for Microbial Oceanography: Research and Education	Co-PI (subcontract from UH)	NSF/C-MORE	6/2010 – 6/2017	\$1,346,563 (\$660,077)

### *Research Funding continued...*

<b>Title</b>	<b>Role</b>	<b>Agency</b>	<b>Duration</b>	<b>Amount</b>
Primary Productivity as a Function of Absorption, Pigment-based Phytoplankton Diversity and Particle Size Distributions	Lead PI	NASA New Investigator Program	7/2010-1/2015	\$325,723
Sloan Research Fellowship	Lead PI	Alfred P. Sloan Research Fellowship	8/2012 – 9/2014	\$50,000
Building Effective Marine Reserve Monitoring Through Research and Education	Co-PI	State of Oregon/Support for shiptime aboard the R/V Oceanus	4/2010	\$100,000
Collaborative Research: Taxon-Specific Variability of Organic Matter Production and Remineralization Potential	Lead PI (OSU)	NSF Biological Oceanography	07/2010-08/2014	\$413,035
MERHAB 2007: Integrated HAB Monitoring and Event Response for Coastal Oregon Sponsoring Agency	Lead PI (took over from P. Strutton in 2009)	NOAA, Monitoring and Event Response for Harmful Algal Blooms	8/2007 – 7/2014	\$2,861,021
Primary Productivity in the Ross Sea	Co-PI (subcontract from Rutgers)	NSF Polar Programs	6/2010-12/2012	\$297,288

### **AWARDS**

University Hawaii Board of Regents' Medal for Excellence in Research 2021  
The Regents' Medal for Excellence in Research is awarded by the University of Hawai'i Board of Regents in recognition of scholarly contributions that expand the boundaries of knowledge and enrich the lives of students and the community.

ASLO Yentsch-Schindler Early Career Award 2016  
"The 2016 recipient is Angelicque White of Oregon State University, for her groundbreaking, multidisciplinary research to improve our understanding of biological and physical relationships in the ocean, her dedication to develop and expand experiential learning opportunities for students, and her commitment to the promotion of underrepresented groups and engagement of the public in science issues."  
<https://www.aslo.org/page/2016-award-recipients>

AGU Early Career Award 2015  
"For her contribution to the mechanistic understanding of exchanges of elements between microbial communities and surrounding seawater, Dr. Angelicque "Angel" White is the recipient of the 2015 American Geophysical Union Ocean Sciences Early Career Award."  
<https://honors.agu.org/sfg-awardees/white-receives-2015-ocean-sciences-early-career-award/>

OSU Inspirational Woman Award	2015
National Academy of Science Kavli Fellow	2010
OSU Distinguished Dissertation Award	2007
AGU Outstanding Presentation Award	2006

## FELLOWSHIPS

Alfred P. Sloan Research Fellowship	2012
NASA Earth System Science Fellowship	2005-2006
NASA Space Grant (OSU)	2001-2003
Thomas James Dimopoulos Environmental Fellowship (UAH)	2000-2001

## 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 ~90 peer-reviewed publications submitted to date, 50 of which include myself or my students/post-docs as lead author, with over 2750 citations and an overall h-index of 27 as of 5/2021.

### *Submitted*

92. Ziveri, P. W.R. Gray, G. Anglada-Ortiz, C. Manno, M. Grelaud, A. Incarbona. J. W. Buchanan Rae, A. Subhas, S. Pallacks, A.E. White, J. F. Adkins, and W. Berelson (2022). Pelagic calcium carbonate production and shallow dissolution in the North Pacific Ocean. *In revision with Nature Communications*
91. Liefer, J.D.\*, A. E. White\*, Z.V. Finkel, A.J. Irwin, M. Dugenne, and M. J. Follows (2022) Macromolecules determine surface particulate C:N:P across an ocean gradient. *Submitted to Proceedings of the National Academy of Sciences* \*authors contributed equally
90. Beckett, S.J, D. Demory, A.R. Coenen, J.R. Casey, M. Dugenne, C.L.Follett, P. Connell, M.G.C. Carlson, S. Hu, S.T. Wilson, D. Muratore, R.A. Rodriguez-Gonzalez, S. Peng, K. Becker, D. R. Mende, E.V. Armbrust, D.A. Caron, D. Lindell, M.J. Follows, A.E. White, F. Ribalet, and J. Weitz. (2022) Diel population dynamics and mortality of *Prochlorococcus* in the North Pacific Subtropical Gyre. *Submitted to Nature Microbiology*
89. Dugenne, M. , M. R. Gradoville. M. J. Church, B. Barone, S. T. Wilson, U. Sheyn, M. J. Harke, K. M. Björkman, N. J. Hawco, A. M. Hynes, F. Ribalet, A.E.White, D.M. Karl, E. F. Delong, S. T. Dyrman, S. John, E. Virginia Armbrust, J. M. Eppley, K. Harding, B. Stewart, A. M. Cabello, K. A. Turk-Kubo, M. Caffin, and J. P. Zehr (2022) Nitrogen fixation in mesoscale eddies of the North Pacific Subtropical Gyre: patterns and mechanisms. *Submitted to Journal of Global Biogeochemical Dynamics*

***Published or Accepted***

88. Schvarcz, C.R., S.T. Wilson, M. Caffin, Q. Li, K. A. Turk-Kubo, A. E. White, D. M. Karl, J. P. Zehr, and G. F. Steward (2022) A novel, widespread diatom-diazotroph symbiosis in the sea. *Nature Communications* <https://doi.org/10.1038/s41467-022-28065-6>
87. Barone, B. M. Church, M. Dugenne, N. Hawco, O. Jahn, A. White, S. John, M. Follows, E. Delong, and D. Karl (2022) Biogeochemical dynamics in adjacent mesoscale eddies of opposite polarity, *Global Biogeochemical Cycles*.  
<https://doi.org/10.1029/2021GB007115>
86. Carlson, M.C.G., F. Ribalet, I. Maidanik, B.P. Durham, Y. Hulata, S. Ferron, J. Weissenbach, N. Shamir, S. Goldin, N. Baran, B. Cael, D. Karl, A.E. White, E.V. Armbrust, and D. Lindell (2022). Enhanced infection of picocyanobacteria in a virus hotspot at ocean gyre boundaries. *In press with Nature Microbiology*
85. White, A. E. J. Granger, and K. Turk-Kubo (2022) Questioning High Nitrogen Fixation Rate Measurements in the Southern Ocean. *Nature Geoscience*  
<https://doi.org/10.1038/s41561-021-00873-3>
84. Henderikx-Freitas, F., K. Bjorkman, D. Karl, and A.E. White (2021) Constraining growth rates and the ratio of living to non-living particulate carbon using beam attenuation and adenosine-5'-triphosphate at Station ALOHA. *Limnology and Oceanography Letters*,  
<https://doi.org/10.1002/lol2.10199>
83. Allen, J. G., M. Dugenne, R. M. Letelier, and A.E. White (2021) Optical determinations of photophysiology along an ecological gradient in the North Pacific Ocean. *Limnology and Oceanography*. <https://doi.org/10.1002/lno.12031>
82. Muratore, D. A. Boysen, M.J. Harke, K. Becker, J.R. Casey, S. Coesel, D. R. Mende, S.T. Wilson, F.O. Aylward, J. Eppley, A. Vislova, , S. Peng, R.A. Rodriguez-Gonzalez, S.J. Beckett, , E.V. Armbrust, E. Delong, D.M. Karl, A.E. White, J.P. Zehr, B. Van Mooy, S.T. Dyrhman, A.E. Ingalls, and J. Weitz. (2021) Community-scale Synchronization and Temporal Partitioning of Gene Expression, Metabolism, and Lipid Biosynthesis in Oligotrophic Ocean Surface Waters. *Nature Ecology and Evolution*,  
<https://doi.org/10.1038/s41559-021-01606-w>
81. Böttjer, D\*., A.E. White\*, S. Poulos, K.M. Björkman, M.J. Church, U. Riebesell, E, Shimakuburo, Y. Rii, R.M. Letelier, and D.M. Karl (2021) Effects of nutrient enrichments on oligotrophic phytoplankton communities: A mesocosm experiment near Hawai'i. *Aquatic Microbial Ecology*, <https://doi.org/10.3354/ame01977> \* both authors contributed equally
80. Wu, Z., Dutkiewicz, S., Jahn, O., Sher, D., White, A.E. and Follows, M.J., (2021) Modeling Photosynthesis and Exudation of DOM in Subtropical Oceans. *Global Biogeochemical Cycles*, <https://doi.org/10.1029/2021GB006941>

79. Lambert, B.S., Groussman, R.D., Schatz, M.J., Coesel, S.N., Durham, B.P., Alverson, A.J., White, A.E. and Armbrust, E.V. (2022). The dynamic trophic architecture of open-ocean protist communities revealed through machine-guided metatranscriptomics. *Proceedings of the National Academy of Sciences*.  
<https://doi.org/10.1073/pnas.2100916119>
78. Ferrón, S., Barone, B., Church, M.J., White, A.E. and Karl, D.M., (2021). Euphotic zone metabolism in the North Pacific Subtropical Gyre based on oxygen dynamics. *Global Biogeochemical Cycles*, 35(3), <https://doi.org/10.1029/2020GB006744>.
77. Heal, K.R., Durham, B.P., Boysen, A.K., Carlson, L.T., Qin, W., Ribalet, F., White, A.E., Bundy, R.M., Armbrust, E.V. and Ingalls, A.E., 2021. Marine community metabolomes carry fingerprints of phytoplankton community composition. *Msystems*, 6(3).  
<https://doi.org/10.1128/mSystems.01334-20>
76. Karl, D.M., Letelier, R.M., Bidigare, R.R., Björkman, K.M., Church, M.J., Dore, J.E. and White, A.E., 2021. Seasonal-to-decadal scale variability in primary production and particulate matter export at Station ALOHA. *Progress in Oceanography*,  
<https://doi.org/10.1016/j.pocean.2021.102563>.
75. Boysen, A.K., Carlson, L.T., Durham, B.P., Groussman, R.D., Aylward, F.O., Ribalet, F., Heal, K.R., White, A.E., DeLong, E.F., Armbrust, E.V. and Ingalls, A.E., 2021. Particulate Metabolites and Transcripts Reflect Diel Oscillations of Microbial Activity in the Surface Ocean. *Msystems*, 6(3). doi: 10.1128/mSystems.00896-20
74. Wilson, S.T., Caffin, M., White, A.E. and Karl, D.M., (2021) Evaluation of argon induced hydrogen production as a method to measure nitrogen fixation by cyanobacteria. *Journal of Phycology*. <https://doi.org/10.1111/jpy.13129>
73. Foreman, R.K., Björkman, K.M., Funkey, C.P., Hawco, N.J., Wilson, S.T., Rohrer, T., White, A.E., John, S.G. and Karl, D.M., (2021) Phosphate scavenging during lava-seawater interaction offshore of Kīlauea volcano, Hawaii. *Geochemistry, Geophysics, Geosystems*, <https://doi.org/10.1029/2021GC009754>
72. Zhang, Y., Ryan, J.P., Hobson, B.W., Kieft, B., Romano, A., Barone, B., Preston, C.M., Roman, B., Raanan, B.Y., Pargett, D. and Dugenne, M., 2021. A system of coordinated autonomous robots for Lagrangian studies of microbes in the oceanic deep chlorophyll maximum. *Science Robotics*, 6(50). doi: 10.1126/scirobotics.abb9138
71. Foster, R. A., D. Tienken, S. Littman, M. Whitehouse, M. Kuypers, and A. E. White. (2021) The rate and fate of N<sub>2</sub> and C fixation by diatom-diazotroph symbioses. *The ISME Journal*. <https://doi.org/10.1038/s41396-021-01086-7>
70. Goñi, M.A., Welch, K.A., Alegria, E., Alleau, Y., Watkins-Brandt, K. and White, A.E., 2021. Wintertime particulate organic matter distributions in surface waters of the northern California current system. *Continental Shelf Research*, 213, p.104312.

69. Pinedo-González, P., Hawco, N.J., Bundy, R.M., Armbrust, E.V., Follows, M.J., Cael, B.B., White, A.E., Ferrón, S., Karl, D.M. and John, S.G., 2020. Anthropogenic Asian aerosols provide Fe to the North Pacific Ocean. *Proceedings of the National Academy of Sciences*, 117(45), pp.27862-27868.
68. 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**
67. Connell, P.E., Ribalet, F., Armbrust, E.V., White, A. and Caron, D.A., 2020. Diel oscillations in the feeding activity of heterotrophic and mixotrophic nanoplankton in the North Pacific Subtropical Gyre. *Aquatic Microbial Ecology*, 85, pp.167-181.
66. Palter, J.B., Ames, E.J., Benavides, M., Goncalves Neto, A., Granger, J., Moisander, P.H., Watkins-Brandt, K.S. and White, A.E., 2020. High N<sub>2</sub> Fixation in and Near the Gulf Stream Consistent with a Circulation Control on Diazotrophy. *Geophysical Research Letters*, 47(16), p.e2020GL089103.
65. Dugenne, M., Henderikx Freitas, F., Wilson, S.T., Karl, D.M. and White, A.E., 2020. Life and death of *Crocospaera* sp. in the Pacific Ocean: fine scale predator–prey dynamics. *Limnology and Oceanography*, 65(11), pp.2603-2617. doi: 10.1002/lno.11473
64. Henderikx Freitas, F., Dugenne, M., Ribalet, F., Hynes, A., Barone, B., Karl, D.M. and White, A.E., 2020. Diel variability of bulk optical properties associated with the growth and division of small phytoplankton in the North Pacific Subtropical Gyre. *Applied Optics*, 59(22), pp.6702-6716.
63. Henderikx Freitas, F., White, A.E. and Quay, P.D., 2020. Diel Measurements of Oxygen- and Carbon-Based Ocean Metabolism Across a Trophic Gradient in the North Pacific. *Global Biogeochemical Cycles*, 34(11), p.e2019GB006518
62. Hawco, N.J., Yang, S.C., Foreman, R.K., Funkey, C.P., Dugenne, M., White, A.E., Wilson, S.T., Kelly, R.L., Bian, X., Huang, K.F. and Karl, D.M., 2020. Metal isotope signatures from lava-seawater interaction during the 2018 eruption of Kīlauea. *Geochimica et Cosmochimica Acta*, 282, pp.340-356.
61. 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.
60. Gradoville, M.R., Farnelid, H., White, A.E., Turk-Kubo, K.A., Stewart, B., Ribalet, F., Ferrón, S., Pinedo-Gonzalez, P., Armbrust, E.V., Karl, D.M. and John, S., 2020. Latitudinal constraints on the abundance and activity of the cyanobacterium UCYN-A and other marine diazotrophs in the North Pacific. *Limnology and Oceanography*, 65(8), pp.1858-1875.
59. 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 <sup>15</sup>N<sub>2</sub> Tracer Method to Measure Diazotroph Production in Pelagic Ecosystems. *Limnology and Oceanography Methods*. doi:10.1002/lom3.10353

58. Janssen, D. J., Rickli, J., Quay, P.D., White, A.E., and Jaccard, S.L. (2020). Biological control of chromium redox and stable isotope composition in the surface ocean. *Global Biogeochemical Cycles*. <https://doi.org/10.1029/2019GB006397>
57. Kieft, B., B.C. Crump, A.E. White, M.A. Goñi, and R.S. Mueller (2020). Winter river plumes shape community composition and activity of heterotrophic microorganisms on the Oregon Coast. *Aquatic Microbial Ecology*. <https://doi.org/10.3354/ame01922>
56. Ribalet, F. C. Bertiaume, A. Hynes, J. Swalwell, M. Carlson, S. Clayton, G. Hennon, C. Poirier, E. Shimabukuro, A.E. White, E.V. Armbrust, (2019). SeaFlow data v1.0: high-resolution abundance, size and biomass of small phytoplankton in the North Pacific. *Scientific Data*. **6**, 277, doi:10.1038/s41597-019-0292-2
55. Wilson, S.T., N. J. Hawco, E. V. Armbrust, B. Barone, T. J. Burrell, A. K. Boysen, K. M. Björkman, M. Burgos, J. R. Casey, E. F. DeLong, M. Dugenne, S. Dutkiewicz, S. T. Dyrman, S. Ferrón, M. J. Follows, R. K. Foreman, C. P. Funkey, M. J. Harke, B. A. Henke, C. N. Hill, A. M. Hynes, A. E. Ingalls, O. Jahn, R. L. Kelly, A. N. Knapp, R. M. Letelier, F. Ribalet, E. M. Shimabukuro, R. Tabata, K. A. Turk-Kubo, A. E. White, J. P. Zehr, S. John, and D. M. Karl (2019). Kīlauea lava fuels phytoplankton bloom in the North Pacific Ocean. *Science*. doi: 10.1126/science.aax4767
54. Benway, H. M., L. Lorenzoni, A.E. White, B. Fiedler, N. Levine, D.P. Nicholson, M.D. DeGrandpre, H.M. Sosik, M.J. Church, T.D. O'Brien, M. Leinen, R.A. Weller, D.M. Karl, S. Henson, and R.M. Letelier (2019). Ocean Time Series Observations of Changing Marine Ecosystems: An Era of Integration, Synthesis, and Societal Applications. *Frontiers in Marine Science*. doi: 10.3389/fmars.2019.00393
53. Letelier, R.M., K. Björkman, M. Church, A.E. White, and D.M. Karl. (2019). Climate driven oscillation in nutrient limitation in the North Pacific Subtropical Gyre. *Proceedings of the National Academy of Sciences*. doi:10.1073/pnas.1900789116
52. 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
51. Becker, K.W., J. R. Collins, B. P. Durham, R. Groussman, A. E. White, H. F. Fredricks, J. E. Ossolinski, D. J. Repeta, P. Carini, S. W. Chisholm, E. V. Armbrust, and B. A. S. Van Mooy. (2018). Daily changes in phytoplankton lipidomes reveal mechanisms of energy storage in the open ocean. *Nature Communications* 9:5179, doi: 10.1038/s41467-018-07346-z
50. Lee, B.S., K. Lajtha, J. Jones, and A.E. White (2018). Fluorescent DOC characteristics are related to streamflow and pasture cover in streams of a mixed landscape. *Biogeochemistry*. doi: 10.1007/s10533-018-0494-2
49. Follett, C.L., A.E. White, S. Wilson, and M. Follows. (2018). Nitrogen Fixation Measured by Stoichiometric Fluctuations. *Limnology and Oceanography*. doi:10.1002/lno.10815
48. Gradoville, M.R., B. Crump, C. Hase, and A. E. White (2018) Environmental controls of oyster-pathogenic *Vibrio* spp. in Oregon estuaries and a shellfish hatchery. *Applied and Environmental Microbiology*. doi: 10.1128/AEM.02156-17



47. White, A.E., K. Watkins-Brandt, and M.J. Church (2018). Temporal variability of *Trichodesmium* and *Richelia* spp. in the North Pacific Subtropical Gyre. *Frontiers in Microbiology*, 5(27), doi: 10.3389/fmars.2018.0002
46. Henderikx-Freitas, F., G. S. Saldías, M. Goñi, R. K. Shearman, and A.E. White. (2018) Temporal and spatial dynamics of physical and biological properties along the Endurance Array of the California Current Ecosystem. *Oceanography* 31(1):80–89, doi.org/10.5670/oceanog.2018.113.
45. Moisaner, P., Benavides, S. Bonnet, I. Berman-Frank, A.E. White and L. Riemann. (2017) Chasing after non-cyanobacterial nitrogen fixation in marine pelagic environments. *Frontiers in Microbiology*. doi:10.3389/fmicb.2017.01736
44. Gradoville, M.R., B. Crump, R.M. Letelier, M. Church and A. E. White (2017) Microbiome of *Trichodesmium* colonies in the North Pacific Subtropical Gyre. *Frontiers in Microbiology*. doi: 10.3389/fmicb.2017.01122
43. 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
42. Gradoville, M.R., D. Bombar, B. Crump, R.M. Letelier, J.P. Zehr and A. E. White (2017) Diversity and activity of nitrogen-fixing communities across ocean basins. *Limnology and Oceanography*. doi: 10.1002/lno.10542
41. Letelier, R, A.E. White, R. Bidigare, B. Barone, M.J. Church, and D.M. Karl (2017). Light absorption by phytoplankton in the North Pacific subtropical gyre. *Limnology and Oceanography*. doi: 10.1002/lno.10515
40. McKibben, S.M., W. T. Peterson, A. M. Wood, V. Trainer, M. Hunter, and A.E. White (2017). Climatic regulation of the neurotoxin domoic acid. *Proceedings of the National Academy of Sciences*. 10.1073/pnas.1606798114
39. Kohut, J. T., A.B. Kustka, M. Hiscock, P. Lam, C. Measures, A. Milligan, A.E. White, F. Carvalho, M. Hatta, B. Jones, D. Ohnemus and J. Schwartz. (2016) Mesoscale variability of the summer bloom over the Northern Ross Sea Shelf: A Tale of two banks. *Journal of Marine Systems*. doi:10.1016/j.jmarsys.2016.06.009
38. Bryant, T. Clemente, D. Viviani, A. Fong, P. Kemp, D.M. Karl, A. E. White and E.F. Delong. (2016) Diversity and activity of communities inhabiting plastic debris in the North Pacific Gyre. *mSystems*. 1(3):e00024-16. doi:10.1128/mSystems.00024-16.
37. Kustka, A, J. Kohut, A.E. White, P. Lam, A. Milligan, M. Dinniman, M. S. Mack, E. Hunter, M. Hiscock, W. O. Smith, and C. Measures (2015) The role of Modified Circumpolar Deep Water as an iron source to productive mid-summer phytoplankton in the Ross Sea. *Deep Sea Research Part I*. **105**: 171-185, doi:10.1016/j.dsr.2015.08.012
36. 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

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22. White, A.E. and S. Dyhrman (2013) The marine phosphorus cycle. *Frontiers in Microbiology*, **4** doi: 10.3389/fmicb.2013.00105
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19. White, A.E. (2012) The trouble with the bubble. *Nature*, **488**, 291.
18. White, A. E., K. Watkins-Brandt, M. A. Engle, B. Burkhardt, and A. Paytan (2012) Characterization of the rate and temperature sensitivities of bacterial remineralization of dissolved organic phosphorus by natural populations. *Frontiers in Microbiology*, **3** doi: 10.3389/fmicb.2012.00276
17. Luo, Y., et al. (2012). Database of Diazotrophic Abundance, Biomass and Nitrogen Fixation Rates in Global Ocean. *Earth System Science Data*, **5**, 47-106.
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12. Beversdorf, L. J., A. E. White, K. Björkman, R. M. Letelier, and D. M. Karl (2010) Phosphonate metabolism by *Trichodesmium* IMS101 and the production of greenhouse gases. *Limnology and Oceanography*. **55**: 1768-1778.

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10. White, A. E., K. Björkman, E. Grabowski, R. M. Letelier, S. Poulos, B. Watkins, and D. M. Karl (2010) An Open Ocean Trial of Controlled Upwelling Using Wave Pump Technology. *Journal of Oceanic and Atmospheric Technology*. **27**: 385-396.
9. White, A. E. (2009) New Insights into bacterial acquisition of phosphorus in the surface ocean. *Proceedings of the National Academy of Sciences*. **106**: 21013–21014.
8. Hewson, I., R. S. Poretsky, S. T. Dyhrman, B. Zielinski, A. E. White, H. J. Tripp, J. P. Montoya, and J. P. Zehr (2009) Microbial community gene expression within colonies of the diazotroph, *Trichodesmium*, from the Southwest Pacific Ocean. *The International Society for Microbial Ecology Journal*, **3**: 1286–1300.
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6. White, A. E., Y. H. Spitz, and R. M. Letelier (2007) What factors are driving summer phytoplankton blooms in the North Pacific Subtropical Gyre? *Journal of Geophysical Research-Oceans*, **112**: C12006, doi: 10.1029/2007JC004129.
5. White, A. E., F. G. Prahl, R. M. Letelier, and B. N. Popp (2007) Summer in the Gulf of California: prime habitat for biological N<sub>2</sub> fixation. *Global Biogeochemical Cycles*, **21**: 10.1029/2006GB002779.
4. White, A. E., Y. H. Spitz, and R. M. Letelier (2006) A numerical model of carbohydrate ballasting for *Trichodesmium* spp. at Station ALOHA. *Marine Ecology Progress Series*, **323**: 35-45.
3. White, A. E., Y. H. Spitz, D. M. Karl, and R. M. Letelier (2006) Flexible elemental stoichiometry in *Trichodesmium* spp. and its ecological implications. *Limnology and Oceanography*, **51**: 1777-1790.
2. White, A. E. (2006) Phosphorus physiology and environmental forcing of oceanic cyanobacteria, primarily *Trichodesmium* spp., Oregon State University, Ph.D. Dissertation.
1. White, A. E. (2001) A numerical model of primary productivity and dissolved oxygen dynamics in Mobile Bay. University of Alabama in Huntsville, Master's Thesis.

## PRESENTATIONS

### *SELECT INVITED PROFESSIONAL PRESENTATIONS (LEAD AUTHOR ONLY)*

White, A. E. et al. (2022) Closing Plenary. Ocean Sciences Meeting, Honolulu, Hawaii February 2022.

White, A. E. et al. (2019) The importance of the middle-class to oceanic net community production Ocean Sciences Meeting, San Diego, CA, February 2019 (poster presentation).

White, A. E. (2018) Quantification of N<sub>2</sub> Fixation: Current Challenges and Opportunities. Ocean Sciences Meeting, Portland, Oregon, February 2018 (Town Hall).

White, A. E. (2017) Seasonality of the ‘elephantine’ diazotrophs of the North Pacific subtropical gyre. Ocean Sciences Meeting, Honolulu, Hawaii, February 2017 (oral presentation).

White, A. E. (2016) Diagnosis of community productivity via the diurnal cycle of optically derived carbon. Ocean Sciences, New Orleans, LA, February 2016 (oral presentation).

White, A. E.; Milligan, A.; Kustka, A. (2014) Primary Productivity in the Ross Sea: Results from <sup>14</sup>C tracer measurements and models based on continuous flow thru data. Ocean Sciences Meeting, Honolulu, Hawaii, February, 2014

White, A.E., J.P. Zehr, D. Bombar, and D.M. Karl. (2013) Diazotrophy in the South Pacific: Reconciling Habitat, Nitrogen Fixation Rates and Metrics of Diazotrophic Abundance and Diversity. Ocean Sciences Meeting, New Orleans, LA, February 2013 (oral presentation).

White, A.E., A.L. Whitmire, R.M. Letelier, M. T. Kavanaugh, and M.J. Church. (2012) Time-series analyses of primary productivity as a function of absorption, pigment-based phytoplankton diversity and particle size distributions. Ocean Sciences Meeting, Salt Lake City, UT, February 2012 (oral presentation).

White, A.E. et al. (2011) The rise of *Pseudo-nitzschia* concentrations in the coastal Oregon surfzone and the role of coastal upwelling as a control on the severity and extent of domoic acid events. U.S. Harmful Algal Bloom Symposium, Austin, TX, Nov. 2011.

White, A.E. et al. (2011) Primary Productivity as a Function of Absorption, Pigment Based Phytoplankton Diversity and Particle Size Distributions. NASA Carbon Cycle & Ecosystems Workshop. Washington D.C. (October 2011)

White, A.E. et al. (2010) Elemental Stoichiometry of Organic Matter Production by *Trichodesmium* IMS101 as a Function of Phosphorus Source with Emphasis on Phosphonate Utilization and the Production of Greenhouse Gases. Ocean Sciences Meeting, Portland, OR, February 2010 (oral presentation).

White, A.E. et al. (2010) *Invited*: Nitrogen Fixation in the Gulf of California and the Eastern Tropical North Pacific: Interannual Variability of Diazotrophic Productivity, Community Composition and Potentially Limiting Factors. Ocean Sciences Meeting, Portland, OR, February 2010 (oral presentation).

White, A.E. (2009) Invited Speaker, Salem Progressive Film Series showing of Addicted to Plastic. Salem, Oregon, March 2009.

White, A. E., K. Björkman, E. Grabowski, R. M. Letelier, S. Poulos, B. Watkins, and D. M. Karl (2008) Assessing the Feasibility and Risks of Using Wave-Driven Upwelling to Enhance the Biological Sequestration of Carbon in Open Oceans. American Geophysical Union Fall Meeting, San Francisco, CA, December 2008 (oral presentation).

White, A., Y. Spitz, J. Zehr, K. Björkman, D. Karl, and R. Letelier (2008) Physical and Chemical Forcing of Diazotrophic Biomass along a transect from 23°S to 24.75°N, ASLO Annual Meeting, Orlando, FL, Mar 2008 (oral presentation).

#### *INVITED SEMINARS*

Cornell Microbiology seminar series	(2021)
Oregon State University, CEOAS Alumni Colloquium	(2021)
MIT Colloquium	(2020)
Hanauma Bay Education Program, Hosted by Hawai'i Sea Grant and the City and County of Honolulu	(Feb 2019)
Ocean Carbon and Biogeochemistry Summer Workshop	(2015)
CEOAS All College Meeting	(2014)
Pacific Rim Shellfish Sanitation Conference	(2014)
Coastal Marine Resource Committee (OR-WA Joint meeting)	(2013)
University of Oregon. Department of Ecology and Evolution	(2013)
University of Hawaii, SOEST	(2011-2012)
Oregon Institute of Marine Biology	(2010)
Ecology and Evolution Seminar (OSU)	(2012)
Lamont Doherty Ocean Observatory	(2009)
Hatfield Marine Science Center	(2008)
University of California Santa Cruz, Ocean Sciences Dept.	(2007)

#### **TEACHING EXPERIENCE (excluding guest lectures)**

##### *CREDIT COURSES*

OCN 401 Biogeochemical Systems	(Spring 2019-2021, UH)
OCN 621 Biological Oceanography	(Fall 2019-2021, UH)
OCN 780 Oceanography Seminar	(Fall 2019,2020, UH)
OC521 Applications in Ocean Ecology and Biogeochemistry	(Spring 2012-2018, OSU)
OC407H Oceans, Coasts, and People	(Winter 2013-2016, OSU)
OC333 Oceans, Coasts, and People	(Spring 2015, OSU)

*NON-CREDIT COURSES AND WORKSHOPS*

International Course in Ecology and Diversity of Marine Microorganisms (ECODIM XI)  
 at the Marine Biological Station of the University of Concepcion (Jan 2020)  
 Agouron Course in Microbiology (May 2012, University of Hawaii)  
 Saturday Academy Summer Workshop (2011 – 2017, Oregon State University)  
 COSEE Summer Workshop for Community College Instructors (2010)  
 Oregon Coast Aquatic and Marine Science Partnership Teachers Workshop (2010)

**MENTORING/ADVISING**

*Postdoctoral Researchers*

Name	Degree	Duration	Location
James Allen	PhD	2020-present	UH
Mathieu Caffin	PhD	2019-2021	UH
Macarena Burgos	PhD	2019-2020	UH
Brendan Barry Cael	PhD	2019-2020	UH
Fernanda Hendrikx Freitas	PhD	2017-present	OSU/UH
Mathilde Dugenne	PhD	2017-present	OSU/UH
Amanda Whitmire (co-advised)	PhD	2001	OSU

*Graduate Students*

**Student Thesis/Dissertation Advisor (*AW served as major professor*)**

Name	Degree	Date Entered Program	Graduation Date
Reece James	PhD	Fall 2021	Enrolled (UH)
James Ash	MS	Spring 2020	Enrolled (UH)
Eric Shimabukuro	PhD	Spring 19	Enrolled (UH)
Mary-Rose Gradoville	PhD	Spring 13	2018 (OSU)
Selena M. McKibben	PhD	Fall 11	2017 (OSU)
Brian Burkhardt	MS	Fall 10	2013 (OSU)
Selena M. Mckibben	MS	Fall 09	2011 (OSU)

**Student Thesis/Dissertation Advisor (*AW served as co-advisor*)**

Name	Degree	Date Entered Program	Graduation Date
Mary-Rose Gradoville	MS	Fall 10	Spring 13
Katie Watkins-Brandt	MS	Fall 08	Fall 10

**Student Advisory Committee**

Name	Major	Degree	Joined Committee	Graduation
Kirsten Poff	UH Marine Biology	PhD	Spring 19	enrolled
Lucie Knor	UH Oceanography	PhD	Spring 19	enrolled
Morgan Linney	UH Oceanography	PhD	Summer 19	enrolled
Zach Wallace	OSU Oceanography	MS	Fall 16	Fall 19
Kelsey McBeain	OSU Microbiology	MS	Spring 14	Fall 16
Nerissa Fisher	OSU Microbiology	MS	Spring 14	Fall 15
Matthew Wolhowe	OSU Oceanography	PhD	Spring 09	Fall 14
Matthew Wolhowe	OSU Oceanography	MS	Spring 06	Spring 09

*Undergraduate Students*

Name	Institution/Program	Degree	Joined Committee	Graduation
Larkin Loewenherz	OSU Honors College	BS	Fall 14	Fall 15
Elisabeth Sherry	OSU Honors College	BS	Fall 14	Fall 15
Sage Losh	OSU Honors College	BS	Fall 13	Summer 14

## SERVICE AND OUTREACH

### *UNIVERSITY SERVICE - COMMITTEES*

UH MGG Faculty Search Committee	(2022)
UH JEDI Committee	(2020-present)
UH Climate Science Faculty Search Committee	(2019)
UH Award Committee Chair	(2018- present)
OSU Ship Operations Chair	(2017-2018)
OSU Radiation Safety Committee	(2009-2018)
OSU Peer Review of Teaching	(2012, 2014-16)
OSU Marine Studies Initiative: Research	(2014/2015)
OSU Geospatial Intelligence) Search Committee	(2014/2015)
OSU Safety Committee	(2011-2013)
OSU Institutional Postdoctoral Search Committee	(2013)
OSU Instructional Programs Committee	(2005-2006)

### *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

### *SERVICE TO PROFESSION- PROFESSIONAL ACTIVITIES*

NAS Committee member, Ocean CDR	2021-2022
<a href="https://www.nationalacademies.org/our-work/a-research-strategy-for-ocean-carbon-dioxide-removal-and-sequestration">https://www.nationalacademies.org/our-work/a-research-strategy-for-ocean-carbon-dioxide-removal-and-sequestration</a>	
NSF - Earth Cube Workshop for Ocean Time Series Data, organizing committee	2019
Selection Committee for ASLO Yentsch-Schindler Early Career Award	2018-2020
Ocean Carbon and Biogeochemistry Ocean Time-Series Committee chair	2017
National HAB Committee – Elected Member	2014-2016
Interagency Carbon Cycle Scientific Steering Group – Member	2014-2016
Ocean Carbon and Biogeochemistry Steering Committee- Member	2015-2018
<b>Session convener</b> , Quantification of N <sub>2</sub> Fixation: Current Challenges and Opportunities. Ocean Sciences Meeting, Portland, Oregon	(Feb. 2018)
<b>Session chair</b> , Nitrogen Cycling Near Oxygen Minima Zones: Linking Observations to Global Models of Nitrogen Fixation in the Anthropocene, Ocean Sciences, Portland, Oregon	(Feb. 2010)
<b>Session convener</b> , Phosphorus Cycling in Marine Systems: Biochemical, Genomic and Model Studies, Aquatic Sciences Meeting, San Juan, Puerto Rico	(Feb. 2009)



## SERVICE TO PROFESSION- PEER REVIEW

Reviewer for the following journals:

*Science, Nature, Proceedings of the National Academy of Science USA, Aquatic Microbial Ecology, Marine Chemistry, Ecosystems, Deep Sea Research, Phycology, Limnology and Oceanography, ICES Journal of Marine Science, Limnology and Oceanography: Methods, Marine Ecology Progress Series, Progress in Oceanography, Global Biogeochemical Cycles, Biogeochemistry, Frontiers, Scientific Reports*

Reviewer of proposals for the following agencies:

*The National Science Foundation, NOAA, NASA, the Long-term Estuary Assessment Group, and Seagrant*

## OUTREACH AND PUBLIC RELATIONS (SELECTED)

- Thinktech, Interview on SPIRALING CRISIS: THE ALARMING CONVERGENCE OF CLIMATE CHANGE AND PANDEMICS" (2021)  
<https://thinktechhawaii.com/press-release/>
- Hawaii Sea Grant, Interview on Climate Change Impacts  
<https://seagrant.soest.hawaii.edu/the-ocean-is-feeling-the-heat/> (2021)
- National Academy of Science TED Talk, <https://go.ted.com/angelicquewhite> (2020)
- Think Tech Hawaii Interview; “It's HOT” (2019)  
<http://hahana.soest.hawaii.edu/hot/>
- Hanauma Bay Education Program, Hosted by Hawai'i Sea Grant and the City and County of Honolulu (Feb 2019)
- Cover art for EOS, Volume 96. No. 22 (2015)
- Terra magazine, interview for ‘Oceanography boot camp’: (2014)  
<http://oregonstate.edu/terra/2014/08/oceanography-boot-camp/>
- Da Vinci Days Festival, Plankton in Art exhibit (2012)
- Research highlights covered in Terra and Science360 (2011)
- Press for marine plastics research (<http://tinyurl.com/2byu667>) covered by Earthsky.org, Coast to Coast AM, the Oregonian, Maclean’s magazine (Canada), San Jose Mercury News, thebenshi.com, Willamette Week (newspaper, Portland, Oregon), KVAL (television interview with CBS affiliate), Discovery news, Oregon Business magazine, Hawaii Public Radio, Oregon Public Radio and numerous other blogs, print, web and radio picked up this press release (2011)
- Saturday Academy Mentor (2010, 2011)
- Saturday Academy Summer Workshops (2011, 2012)
- SMILE Program High School Challenge Event, Speaker (2011, 2012)
- Participation in Oregon State University Discovery Days (2008, 2009)
- Generation of a web-based image gallery for the C-MORE ,  
[http://cmore.soest.hawaii.edu/microscopy/cmore\\_microscopy.html](http://cmore.soest.hawaii.edu/microscopy/cmore_microscopy.html) (2009)

## MAJOR SEAGOING EXPEDITIONS

A critical component of my oceanographic research program is observational and experimental approaches in the field. I personally have logged ~500 days at sea since 2001.

<i>Cruise</i>	<i>Vessel</i>	<i>Role</i>	<i>YR</i>	<i>#</i>
Simons Foundation, Gradients 4.0	R/V Thompson	Scientist	2021	30
SCOPE PARAGON	R/V Kilo Moana	Chief	2021	15
HOT 320 & HOT 321	R/V Kilo Moana	PI	2020	10
NSF Microbial Oceanography Chief Scientist Training	R/V Kilo Moana	Co-PI	2019	9
Simons Foundation, NPSG Gradients 3.0	R/V Kilo Moana	PI	2019	20
Hawaii Ocean Time-series 305	R/V Kilo Moana	Scientist	2019	5
HOT-LAVA, Simons Foundation Supported	R/V KOK	Scientist	2018	7
Simons Foundation, Mesoscale Cruise	R/V Falkor	PI	2018	13
Hawaii Ocean Time-series 300	R/V Kilo Moana	Scientist	2018	4
NSF Diel Oxygen and Carbon Cycling, KM1713	R/V Kilo Moana	Co-Chief	2017	25
Hawaii Ocean Time-series 294	R/V Kilo Moana	Scientist	2017	5
Simons Foundation, NPSG Gradients 2.0	R/V M. Langseth	PI	2017	21
Winter carbon cycling, OC1701	R/V Oceanus	PI	2017	5
Hawaii Ocean Time-series 288	R/V Sikuliaq	Scientist	2016	4
Oceanography Boot Camp, Student Training Cruise	R/V Oceanus	Chief	2016	6
Simons Foundation, NPSG Gradient/Transition Zone	R/V KOK	PI	2016	16
C-MORE HOE Legacy	R/V Kilo Moana	Scientist	2016	10
Winter carbon cycling, OC1601-03	R/V Oceanus	Co-Chief	2016	15
OC1505 Ocean Observing Initiative	R/V Oceanus	Scientist	2015	3
SCOPE I: Ocean Productivity	R/V Kilo Moana	Chief	2015	10
State of Oregon RFP: Graduate Student Training	R/V Oceanus	Chief	2014	4
C-MORE PhOR-II	R/V Kilo Moana	Scientist	2013	12
C-MORE HOE DYLAN VII	R/V Kilo Moana	Scientist	2012	9
Mesocosm deployment off Hawaii, C-MORE	R/V KOK	Scientist	2011	13
Hawaii Ocean Time-series 234	R/V Kilo Moana	Scientist	2011	3
CO <sub>2</sub> control of N <sub>2</sub> fixation in the NPSG	R/V Kilo Moana	Scientist	2011	6
MCDW and Iron in the Ross Sea	R/V NB Palmer	Scientist	2011	31
BIG-RAPA, C-MORE	R/V Melville	Scientist	2010	28
Harmful Algal Bloom Monitoring, Oregon Coast	R/V Elakha	PI	2010	2
Hawaii Ocean Time-series 216	R/V KOK	Scientist	2009	5
C-MORE ST-15B (NPSG)	R/V Kilo Moana	Scientist	2009	2
Survey of Underwater Plastic and Ecosystem	R/V Kilo Moana	Scientist	2008	12
Ocean Productivity Perturbation EXperiment (OPPEX)	R/V Kilo Moana	Scientist	2008	5
GoCAL-4, Nitrogen fixation in the Gulf of California	R/V New Horizon	Co-Chief	2008	29
BLOOMER, C-MORE, NPSG	R/V Kilo Moana	Scientist	2007	12
Biogeochemistry of the Upper ocean (BULA, C-MORE)	R/V Kilo Moana	Scientist	2007	11
Nitrogen fixation in the South Pacific, NSF	R/V Kilo Moana	Scientist	2007	17
GoCAL-3, Alkenone production in the Gulf of Cali.	R/V New Horizon	Scientist	2005	21
NSF Biocomplexity, Pacific Cruise MP09	R/V Revelle	Scientist	2003	22

**MAJOR SEAGOING EXPEDITIONS (Continued)**

NSF Biocomplexity, NW Atlantic MP04	R/V Seward Johnson	Scientist	2002	26
Photoheterotrophy at Station ALOHA, P-3	R/V Kilo Moana	Scientist	2002	4
Coastal Ocean Advances in Shelf Transport, OR	R/V Thompson	Scientist	2001	23
			<b>Total</b>	<b>530</b>