Tyler J. O'Keefe

Ph.D. Student — Fodrie Lab Email: okeefet@unc.edu; Cell: (715)-781-9697

Education

2021 –	University of North Carolina at Chapel Hill, Chapel Hill, NC
	Ph.D. Student in Marine Sciences

Advisor: F. Joel Fodrie

2014 – 2018 Carleton College, Northfield, MN

B.A Biology (Honors), GPA: 3.50

Senior Thesis: Effects of Fe-P co-limitation of N₂-fixation on *Trichodesmium* physiology and implications of global change phenomena on this biochemical balance

Grants and Fellowships

2021 Robert and Ardis James Foundation Graduate Research Award (\$175,000)

Research Experience

2018 - 2021	Research Support Associate - Chisholm Laboratory, Massachusetts Institute
	of Technology, Cambridge, MA
2018	Lab Assistant, Woodwell Climate Research Center, Falmouth, MA
2017	Ecology, Evolution and Conservation Research Extern, University of
	Minnesota Monarch Lab, St. Paul, MN
2017	Ecology in Australia - Off Campus Study Program, Queensland and New
	South Wales, Australia
2016	Aquatic Invasive Species (AIS) Intern, Washburn County Land and Water
	Conservation, Shell Lake, WI

Publications

https://scholar.google.com/citations?view_op=list_works&hl=en&user=l2RppyQAAAAJ

Berube, P., **O'Keefe T.J.**, Rasmussen A.N., and Chisholm, S.W. Production and cross-feeding of nitrite within *Prochlorococcus* populations. (Submitted). https://doi.org/10.1101/2021.12.31.474641

Coe, A., Biller, S.J., Thomas, E., Boulias, K., Bliem, C., Arellano, A., Dooley, K., Rasmussen, A.N., LeGault, K., **O'Keefe, T.J.**, Stover, S., Greer, E.L. and Chisholm, S.W. (2021), Coping with darkness: The adaptive response of marine picocyanobacteria to repeated light energy deprivation. Limnol Oceanogr. https://doi.org/10.1002/lno.11880

In preparation/submitted

Braakman, R., Satinsky B., Longnecker K., Becker J.W., **O'Keefe T.J.**, Dooley K., Hogle S., Arellano A., Kido Soule M.C., Kujawinski E.B., and Chisholm S.W. Niche partitioning of nucleotide cross-feeding among ocean microbes. (In preparation).

Braakman, R., **O'Keefe T.J.**, Longnecker K., Berube P., Kido Soule M.C., Kujawinski E.B., and Chisholm S.W. Metabolic dynamics of nitrogen stress in *Prochlorococcus* and *Synechococcus*. (In preparation).

Teaching Experience

2021 - 2022	Fundamentals in Ecology, University of North Carolina Chapel Hill, Teaching
	Assistant (Fall 2021, Spring 2022)
2018	Behavioral Ecology, Carleton College, Course Prefect (Winter 2018)
2017	Global Change Biology, Carleton College, Course Prefect (Fall 2017)

Awards, Distinctions, and Professional Societies

2020 –	Association for the Sciences of Limnology and Oceanography
2020	NSF GRFP Honorable Mention
2018	Distinction – Senior Thesis in Biology
2018	National Football Foundation (NFF) Hampshire Honor Society

Science Outreach and Volunteer Efforts

2019, 2020	Science Judge, National Ocean Sciences Bowl (NOSB) – Blue Lobster Bowl
2019	Volunteer, MIT Civil and Environmental Engineering Kids Camp
2019	Science Judge, National Ocean Sciences Bowl (NOSB) – Blue Lobster Bowl
2017	Volunteer, University of Minnesota Monarch Lab Ecology Fair
2015, 2016	Volunteer, Greenvale Elementary School Science Night