

James Fox
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EDUCATION

PhD. 2018 Marine Biology. University of Essex, UK
B.Sc. 2013 Marine Biology and Oceanography. University of Plymouth, UK. Grade: First Class

PROFESSIONAL APPOINTMENTS

2022-present: Research Associate. Department of Microbiology, Oregon State University, USA
2018-2022: Postdoctoral Scholar. Department of Microbiology, Oregon State University, USA
2014-2017: Graduate Teaching Assistant. Department of Biology, University of Essex, UK
2013: Research Assistant. Ecotoxicology Research and Innovation Centre, University of Plymouth, UK
2011-2012: Research Assistant. Department of Aquaculture and Fisheries, ÇOMU, Turkey

SYNERGISTIC ACTIVITIES

Workshop/Working Group Member

2022: Marine Carbon Dioxide Removal: Essential Science and Problem Solving for Measurement, Reporting, and Verification Workshop (participant)
2022: 5th workshop on Trait-Based Approaches to Ocean Life, Knoxville, USA (steering committee member)
2019: Bridging International Activity and Related Research into the Twilight Zone Workshop, Southampton, UK (presenter, title: “Optically-Derived Estimates of Phytoplankton Growth and Production”)
2018-present: NASA EXport Processes in the Ocean from Remote Sensing project (science team, working group co-lead investigating (i) Food web ecology, and (ii) Optical proxies of biogeochemical parameters)
2018-2020: NASA North Atlantic Aerosols and Marine Ecosystems Study (science team member)
2018-2020: Youth Climate Action Now Corvallis program (facilitator and scientific advisor)
2017: AQUAFLUO II: Chlorophyll Fluorescence in the Aquatic Sciences Workshop, Sydney, Australia (presenter, title: “Utilising Chlorophyll Fluorescence to Assess Variability in Phytoplankton Distribution and Physiology in the North-West European Shelf Seas”)
2017: European Space Agency Satellite Validation International Workshop, Plymouth, UK (participant)
2013-2017: NERC Shelf Sea Biogeochemistry program (science team member)

Education and Outreach

- 2021:** Earth Day Celebration, NPS International School, Singapore. (Invited Speaker, remote)
- 2021:** Career Day, NPS International School, Singapore. (Invited Speaker, remote)
- 2021:** Voice of the Sea TV Series, Episode 2, Season 8, EXPORTS 4: The Colors of Plankton. (Featured Scientist)
- 2020:** NASA Earth Day Celebration (Invited Speaker, remote)
- 2019-present:** Oregon Museum of Science and Industry Meet a Scientist, Portland OR

Journal Referee (ad hoc)

Scientific Reports, Global Change Biology, Geophysical Research Letters, Deep Sea Research Part I: Oceanographic Research Papers, Global Biogeochemical Cycles, Progress in Oceanography

FUNDING HISTORY (\$496,149 total, \$421,149 as PI)

See current and pending support

PUBLICATIONS (past 3 years)

Amaral, V.J., Lam, P.J., Marchal, O., Roca-Marti, M., **Fox, J.** and Nelson, N.B. 2022. Particle cycling rates near Station P as estimated from the inversion of POC concentration data.

Elementa: Science of the Anthropocene

Fox, J., Kramer, S.J., Graff, J. R., Behrenfeld, M.J., Boss, E., Tilstone, G. and Halsey, K.H. 2022. An absorption-based approach to improved estimates of phytoplankton biomass and net primary production. *Limnology and Oceanography: Letters*

Baetge, N., Behrenfeld, M.J., **Fox, J.**, Halsey, K.H., Mojica, D.A., Novoa, A., Stephens, B. and Carlson, C.A. 2021. The Seasonal Flux and Fate of Dissolved Organic Carbon through the Food Web in the Western North Atlantic. *Frontiers in Microbiology*.

<https://dx.doi.org/10.3389/fmicb.2021.669883>

Siegel *et al.* 2021. Overview of the EXport Processes in the Ocean from RemoTe Sensing (EXPORTS) Northeast Pacific Field Deployment. *Elementa: Science of the Anthropocene*.

<https://doi.org/10.1525/elementa.2020.00107>

Penta, W.B., **Fox, J.** and Halsey, K.H. 2021. Rapid photoacclimation during episodic deep mixing augments the biological carbon pump. *Limnology and Oceanography*.

<https://doi.org/10.1002/lno.11728>

Yang, B., **Fox, J.**, Behrenfeld, M.J., Boss, E., Haëntjens, N., Halsey, K.H., Emerson, S. and Doney, S. 2021. In-situ estimates of net primary production and the ratio of net community production to net primary production in the North Atlantic Ocean with Argo profiling floats. *Biogeosciences*. <https://doi.org/10.1029/2020JG006116>

Biogeosciences. <https://doi.org/10.1029/2020JG006116>

Fox, J., Behrenfeld, M.J., Haëntjens, N., Chase, A., Kramer, S.J., Boss, E., Karp-Boss, L., Fisher, N.L., Penta, W.B., Westberry, T.K. and Halsey, K.H. (2020). Phytoplankton Growth and Productivity in the Western North Atlantic: Observations of Regional Variability from the NAAMES Field Campaigns. *Frontiers in Marine Science* 7:24. doi: 10.3389/fmars.2020.00024