

# Stanford

---



## William Oestreich

Ph.D. Student in Biology, admitted Autumn 2017

### Bio

---

#### HONORS AND AWARDS

- Stanford Graduate Fellowship (SGF), Stanford University (2017)
- NSF GRFP, National Science Foundation (2018)

#### EDUCATION AND CERTIFICATIONS

- MS, Northwestern University , Environmental Engineering & Science (2015)
- BS, Northwestern University , Environmental Engineering (2015)

#### STANFORD ADVISORS

- Larry Crowder, Doctoral (Program)
- Larry Crowder, Doctoral Dissertation Advisor (AC)

### Research & Scholarship

---

#### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Will's research focuses on the behavior of highly-mobile (and often marine) species. This work includes study of animal behavior on individual and population scales, the environmental (often oceanographic) drivers of these behaviors, and the human-wildlife interactions resulting from such behaviors. With previous work and research experience in both oceanography (WHOI) and conservation (NRDC), his current research folds these disciplines in with novel methods for studying animal behaviors across scales. Will's current research in this area includes contributions to a study on oceanographic drivers of sailfish and blue marlin in the Eastern Tropical Pacific, computational work to investigate the ephemeral environmental and anthropogenic drivers of elephant movements, and exploration of blue whale behavior in Monterey Bay, CA. This research on blue whales is Will's current primary focus, and includes integration of tagging, acoustic, and satellite remote sensing data to explore the behavior of these animals at multiple scales alongside their environmental drivers.

### Publications

---

#### PUBLICATIONS

- **Geostatistical Analysis of Mesoscale Spatial Variability and Error in SeaWiFS and MODIS/Aqua Global Ocean Color Data** *JOURNAL OF GEOPHYSICAL RESEARCH-OCEANS*  
Glover, D. M., Doney, S. C., Oestreich, W. K., Tullo, A. W.  
2018; 123 (1): 22–39
- **Coral bleaching response index: a new tool to standardize and compare susceptibility to thermal bleaching** *GLOBAL CHANGE BIOLOGY*  
Swain, T. D., Vega-Perkins, J. B., Oestreich, W. K., Triebold, C., DuBois, E., Henss, J., Baird, A., Siple, M., Backman, V., Marcelino, L.  
2016; 22 (7): 2475–88

- **Colored dissolved organic matter in shallow estuaries: relationships between carbon sources and light attenuation** *BIOGEOSCIENCES*  
Oestreich, W. K., Ganju, N. K., Pohlman, J. W., Suttles, S. E.  
2016; 13 (2): 583–95