Casey O’Hara

## Curriculum Vitae

### Education

**PhD Environmental Science and Management (2022 expected)** Bren School of Environmental Science & Management, University of California, Santa Barbara

* Advisor: Dr. Benjamin Halpern

**Master of Environmental Science and Management (2014)** Bren School of Environmental Science & Management, University of California, Santa Barbara *UCSB University Award of Distinction; Bren School Academic Achievement Award*

**Single Subject Teaching Credential in Science, Physics (2004)** Graduate School of Education, San Francisco State University

**Master of Science in Mechanical Engineering Design (1994)** Department of Mechanical Engineering, Design Division, Stanford University

**Bachelor of Science in Mechanical Engineering (1993)** Department of Mechanical Engineering, Stanford University

### Experience

* Project scientist, Ocean Health Index (January 2015 – present) NCEAS - Santa Barbara, CA
* AAAS Mass Media Science Fellowship (June 2014 - August 2014) The Oregonian - Portland, OR
* Program Consultant (June 2013 - August 2013) The School for Examining Essential Questions of Sustainability (SEEQS) Charter School - Honolulu, HI
* Masters Thesis Group Project (April 2013 - June 2014) Bren School - Santa Barbara, CA “Offshore wind energy in the context of multiple ocean uses on the Bermuda platform” Client: Department of Environmental Protection, Bermuda
* See also Science Education, Engineering sections

### Publications

* Burgass, M. J., Milner-Gulland, E. J., Stewart Lowndes, J. S., **O’Hara, C.**, Afflerbach, J. C., & Halpern, B. S. (2018). A pan-Arctic assessment of the status of marine social-ecological systems. Regional Environmental Change. <https://doi.org/10.1007/s10113-018-1395-6>
* Halpern, B. S., Frazier, M., Afflerbach, J., **O’Hara, C.**, Katona, S., … & Polsenberg, J. (2017). Drivers and implications of change in global ocean health over the past five years. PloS one, 12(7), e0178267. <http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0178267>
* Lowndes, J. S. S., Best, B. D., Scarborough, C., Afflerbach, J. C., Frazier, M. R., **O’Hara, C. C.**, Ning Jiang, & Halpern, B. S. (2017). Our path to better science in less time using open data science tools. Nature ecology & evolution, 1(6), 0160. <https://www.nature.com/articles/s41559-017-0160>
* **O’Hara, C. C.**, Afflerbach, J. C., Scarborough, C., Kaschner, K., & Halpern, B. S. (2017). Aligning marine species range data to better serve science and conservation. PloS one, 12(5), e0175739. <http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0175739>

### Relevant Technical Skills

* R/R Studio including spatial analysis, data visualization, package development, ShinyApps
* Git/GitHub
* MATLAB, Stata, C/C++, HTML, JavaScript, LaTeX
* ArcGIS, QGIS

### Science Education

* Program Consultant (June 2013 - August 2013) The School for Examining Essential Questions of Sustainability (SEEQS) Charter School - Honolulu, HI
* Science Teacher: Physics, Integrated Science, Engineering & Green Tech (August 2004 - June 2012) Carlmont High School - Belmont, CA
* Education Liaison (November 2009 - December 2009) Amundsen-Scott South Pole Station, Antarctica

#### Science Education Leadership and Honors

* “Where the Wonder Went” documentary short film, Santa Barbara International Film Festival (January 2014) Santa Barbara, CA
* Senior Fellow, Knowles Science Teaching Foundation (2009 - present) - Moorestown, NJ
* Teaching Fellow, Knowles Science Teaching Foundation (2004 - 2009) - Moorestown, NJ
* Exploratorium Teacher Institute (2004 - 2013) - San Francisco, CA
* Innovative Teacher of the Year (2011) Carlmont High School - Belmont, CA
* Amgen Award for Science Teaching Excellence (2011) Amgen Corporation
* National Board Certification (Science - Adolescent/Young Adult) (2009) National Board for Professional Teaching Standards

### Engineering

* Mechanical Engineer (May 2000 - December 2003) St. Jude Medical, Inc. - Sunnyvale, CA
* Mechanical Engineer (May 1997 - May 2000) Asyst Technologies (Hine Design) - Sunnyvale, CA
* Mechanical Engineer (August 1995 - April 1997) Applied Materials, Inc. - Santa Clara, CA
* Maintenance Engineer (August 1994 - August 1995) ATMEL Inc. - San Jose, CA