

# 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
- Committee:

**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
- Science Teacher: Physics, Integrated Science, Engineering & Green Tech (August 2004 - June 2012) Carlmont High School - Belmont, CA

### Publications

- Halpern, B. S., Frazier, M., Afflerbach, J., *O'Hara, C.*, Katona, S., Lowndes, J. S. 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.*, ... & 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>

### Honors

#### Science Communications Honors

- "Where the Wonder Went," Santa Barbara International Film Festival (January 2014) Santa Barbara, CA
- Education Liaison (November 2009 - December 2009) Amundsen-Scott South Pole Station, Antarctica

### **Science Education Leadership and Honors**

- Knowles Science Teaching Foundation (2004 - present) - 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 Experience**

- 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

### **Relevant Technical Skills**

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