

Osanna Drake

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EDUCATION

Expected

2027 **Duke University**, Durham, NC (Aug. 2022 – Present)

PhD Student Marine Science and Conservation – advised by **Dr. Xavier Basurto**

2021 **Stanford University**, Stanford, CA (coterminal degrees Sept. 2016 – Mar. 2021)

MS Earth Systems – focus on Marine Social-Ecological Systems, **GPA: 4.12/4.0**

BS with Honors Earth Systems – Biosphere track, **Minor Spanish**, **GPA: 3.99/4.0**

SELECTED AWARDS AND FELLOWSHIPS

2021 Illegal Fishing & Transparency Fellowship, \$55,000, Oceana (2021-2022)

2021 Earth Systems Award for Outstanding Contributions as a **Teaching Assistant**, Stanford University
Notation in **Science Communication** (view my portfolio at osannadrake.com), Stanford University

2020 **Dean's Award** for Outstanding Undergraduate Academic Achievement, Stanford University

2018 Ernest F. Hollings Undergraduate Scholarship, \$26,000, NOAA (2018-2020)

PUBLICATIONS

2022 Valentine, M., Gee, E., **Drake, O.**, O'Donnell, K. "A Survey of Fishing Activity in 19 Marine Protected Areas." Externally reviewed Oceana report (October 2022) DOI: 10.5281/zenodo.7401261

2021 Valentine, M., Gee, E., **Drake, O.** "Now You See Me, Now You Don't: Vanishing Vessels Along Argentina's Waters." Oceana report. (June 2021) DOI:10.5281/zenodo.4893397.

2019 **Drake, OV.** "Light and Temperature on Reef Herbivory: Effects of algal growth conditions on grazing intensity by juvenile and adult sea hares." SURJ: The Stanford Undergraduate Research Journal 18.1 (2019): 69-76.

ACADEMIC RESEARCH

2018 Student Researcher, **Heron Island Research Station**, Queensland, AU (Sept. – Dec)

- Conducted experiments with Station director Dr. Ward on coral reef herbivory change
- Published findings and presented at Stanford in Australia Research Symposium

Student Researcher, **Hopkins Marine Station**, Pacific Grove, CA (Apr. – June)

- Conducted independent field research with Station director Dr. Denny on the rocky intertidal
- Described novel behavior in iconic gastropod species, completed extensive literature review

PROFESSIONAL ENVIRONMENTAL WORK

2021-22 Illegal Fishing & Transparency Fellow, **Oceana**, Washington, D.C. (Mar. 2021 – Apr. 2022)

- Bolstered Oceana's campaign to end illegal fishing by conducting research, analyzing big data, presenting findings, writing reports, and creating interactive maps and visualizations
- A lead author on a report garnering 63 media stories and covered by 320 news organizations including the Guardian and CNN, bringing Oceana ~\$9 million in ad value
- Developed automated alerts using R and SQL to notify 3 foreign governments (Chile, Mexico, and Belize) of illegal activity to aid in monitoring and enforcement
- First author on a policy brief used by U.S. senators to inform voting on H.R. 3075

2020 Sustainability Analyst, **First Community Housing**, San Jose, CA (Sept. – Nov.)

- Evaluated 12 years of water and energy usage data for affordable housing developer
- Conserved cost and resource use for over 3,300 low-income residents across 20 properties
- Analyzed utility data using R and Tableau, presented findings weekly to program director

Lead Researcher, **Logbook**, Newark, CA (June – Sept.)

- Developed methodology for a social enterprise empowering communities to study coral reefs
- Oversaw all matters of scientific rigor, monitoring protocol, justice, and data management
- Built relationships with over 50 diverse stakeholders to gain insight and product-market fit

2019 Phenological Species Monitoring Intern, **NOAA**, Huron, OH (June – Sept.)

- Monitored keystone species in a Great Lakes research reserve to track ecosystem changes
- Raised scientific rigor of 8 citizen science programs through interdisciplinary problem-solving
- Established resilient, powerful databases with quality assurance to address "dark data"

TEACHING ASSISTANTSHIPS

2021 Adaptation, **Stanford University School of Earth**, Stanford, CA (Jan. – Apr.)

- 3 units, graduate and undergraduate level, 29 students. Prof. Jones

2020 The Global Warming Paradox, **Stanford University School of Earth**, Stanford, CA (Sept. – Dec.)

- 3 units, undergraduate level, 18 students. Prof. Diffenbaugh

SELECTED PRESENTATIONS AND POSTERS

2021 **Drake, O.**, Valentine, M., Gee, E. "Leveraging Big Data to Analyze Illegal Vessel Activity in Marine Protected Areas." Sustainable Ocean Conference 2021, Sobey Fund for Oceans, September 23 – 25, Virtual. **Oral presentation. Received second place, cash prize**

Drake, O., Anderson, L. "A Patchwork of Ocean Experiences: Co-Creating a Digital Quilt" V.ECOP Day, UN Decade of Ocean Science for Sustainable Development, June 1, Virtual. **Oral presentation.**

Drake, O., 2021. "Fisheries Management on the High Seas." In Esri User Conference 2021 Virtual Map Gallery, July 12 – 15, Virtual. **Map presentation**

2020 **Drake, O.**, 2020. "Data Management and Outreach Strategies for a Sustainable Phenological Species Monitoring Program in a Great Lakes Research Reserve." In Ocean Sciences Meeting 2020, AGU, February 16 – 21, San Diego. **Poster presentation.**