

# HALEY (EPPERLY) FOX

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As a data scientist, I am passionate about unraveling complex patterns to answer big questions. I am interested in joining a collaborative team of scientists and engineers to leverage my expertise in programming in R: extracting data from myriad sources, wrangling and tidying data, analyzing data with a variety of statistical techniques, visualizing data in a manner that clearly conveys results, and disseminating findings via written and verbal communication to both technical and non-technical audiences.

## EDUCATION

2019 | M.Sc. University of Florida | Interdisciplinary Ecology  
2015 | B.Sc. Oregon State University | Biology

## EXPERIENCE

- 2022 – *present* Data Scientist | National Center for Ecological Analysis & Synthesis  
Santa Barbara, CA
- Lead analyst on an interdisciplinary team assessing the environmental justice of global food trade.
  - Developed R data analysis pipeline involving wrangling, tidying, analyzing, and visualizing spatial and non-spatial data primarily with tidyverse packages.
  - Documented code and metadata using RMarkdown.
  - Implemented GitHub for collaboration, version control, and reproducible workflows.
  - Published [tutorials](#) for web scraping and data visualization using R and Quarto.
- 2017 – 2022 Human Dimensions Research Assistant | Oregon Department of Fish & Wildlife  
2015 – 2017 Newport, OR
- Lead analyst investigating how marine reserves have impacted tourists, residents, businesses, and fishers.
  - Collaborated with data analysts, economists, fisheries scientists, social scientists, and policy analysts.
  - Identified data required to address research questions, developed research designs, and collected primary data or compiled existing data.
  - Tidied and analyzed data in R using statistical methods (e.g., linear regression, logistic regression, time series analyses, random forest, K-means, PCA, NMDS).
  - Created and shared data visualizations (ggplot2 package) in reports and presentations to technical and non-technical audiences.
  - Authored three [peer-reviewed articles](#) and four [blog posts](#), and co-authored 11 [agency reports](#).
  - Trained intern cohorts in research design, coding in R, and analytical methods.
- 2017 – 2019 Graduate Student Researcher | University of Florida  
Gainesville, FL
- Lead researcher investigating the influence of vegetation on animal behavior.
  - Collected ecological data via fieldwork in southern Africa and collaborated with management to obtain maps and high-resolution spatial data.
  - Analyzed data using linear regression, logistic regression, and PCA in R and classification techniques in ArcMap.
  - Created video tutorial on classifying vegetation with satellite images in ArcMap.
  - Wrote and received two research grants, one from National Geographic.
  - Published [results](#) in peer-reviewed journal and presented at three conferences.
  - Trained an intern in field methods, scoring animal behavior, and coding in R.

- 2015 – 2017      **Research & Scholars Program Assistant | Oregon Sea Grant  
Corvallis, OR**
- Managed fellowship programs for graduate and undergraduate students.
  - Supervised a team for fellowship application review and interviews.
  - Communicated with interns and government agencies hosting interns to ensure research and professional development objectives were achieved.
  - Coordinated events including research conferences and workshops.
  - Facilitated the proposal review of a research grant including organizing three teams of internal and external reviewers.
  - Filmed and edited an informational [video](#) on the internship program.

## SERVICE

- 2022 – *present*      **NCEAS Diversity, Equity, Inclusion, & Justice Committee Member**  
This committee strives to actively redress inequities in data science by fostering an inclusive culture, supporting diverse researchers, and providing training opportunities to underrepresented groups.
- 2018 – 2019      **Center for African Studies Communications Assistant**  
Compiled weekly newsletters, managed social media, composed summaries of presentations, and facilitated events for an interdisciplinary program which seeks to enrich understanding of the interactions that shape African societies.
- 2017 – 2019      **Natural Resource Management in Africa Working Group Member**  
Organized research presentations for a working group interested in the consequences of rapid change to ecosystems and human institutions in Africa.
- 2015 – 2017      **OSG Diversity, Equity & Inclusion (DEI) Committee Member**  
Led the effort to increase DEI in the internship program including attending DEI workshops, advertising positions to underrepresented groups, updating the application and interview scoring rubrics to favor underrepresented applicants, providing DEI resources to interns, organizing presentations from DEI focused faculty, and collecting demographic data on applicants.
- 2013 – 2015      **Minorities in Agriculture, Natural Resources, & Related Sciences (MANRRS) Public Relations Chair**  
Organized fundraisers and participated in outreach events for MANRRS, an organization that promotes academic and professional advancement for minorities.

## SELECT PUBLICATIONS

**Fox, H.K.**, Swearingen, T.C., Molina, A.C., 2022. An interrupted time series approach to assess Marine Protected Area impacts on recreational fishing license sales. *Aquatic Conservation Marine and Freshwater Ecosystems*. (Accepted)

**Fox, H.K.**, Swearingen, T.C., Molina, A.C., Kennedy, C.M. 2022. Oregon recreational fishers' knowledge, support, and perceived impacts of marine reserves. *Ocean and Coastal Management* 225:106241. ([link](#))

ODFW 2022. *Marine Reserves Program Synthesis Report: 2009-2021*. Oregon Department of Fish and Wildlife. Newport, Oregon. ([link](#))

**Fox, H.K.**, Swearingen, T.C., 2021. Using a difference-in-differences and synthetic control approach to investigate the socioeconomic impacts of Oregon's marine reserves. *Ocean and Coastal Management* 215:105965. ([link](#))

**Epperly, H.K.**, Clinchy, M., Zanette, Y.L., McCleery R.A. 2021. Fear of large carnivores is tied to ungulate habitat use: evidence from a bifactorial experiment. *Scientific Reports* 11:12979. ([link](#))