Elizabeth Eli Holmes
National Marine Fisheries Service
2725 Montlake Blvd. E., Seattle, WA 98112
phn:(206) 419-6164 email: eli.holmes@noaa.gov/eeholmes@uw.edu
web: http://faculty.washington.edu/eeholmes

EDUCATION

Doctor of Philosophy, Zoology, University of Washington, June 1995
Bachelor of Science, Biology, Stanford University, June 1988, with honors
Bachelor of Science, Mechanical Engineering, Stanford University, June 1988, cum laude

PROFESSIONAL POSITIONS

2005-present Affiliate faculty, School for Fisheries and Aquatic Sciences, Univ. of Washington
1999-present Research Scientist, Mathematical Biology Program, Conservation Biology Division, Northwest Fisheries Science Center, NOAA Fisheries, Seattle WA
1998-99 National Research Council fellow, National Marine Mammal Lab., Seattle WA
1995-97 NSF Post-doctoral fellow, Colorado State Univ., Biology Dept., Fort Collins, CO

STATISTICAL WORKSHOPS, HACKWEEKS and GRADUATE COURSES

Co-organizer and instructor at: OceanHackWeek (**2023, 2024, 2025**), NASA PACE HackWeek (**2024, 2025**), NASA EarthScience HackWeek (**2024**), NMFS HackHours (**2025**), Fish-PACE HackWeek (**2025**), ITCOOcean Hack2Week (**2023**).
2020, 2021, 2022 RWorkflow Workshops. 8-week R, Git, and GitHub summer workshop series
2013, 2015, 2017, 2019, 2023, 2025 Fish 507, Time-series analysis for environmental and fisheries data at the University of Washington with Eric Ward and Mark Scheuerell.
2018 Fish catch forecasting with R. Short course at the Indian National Ctr for Ocean Information Services.
2014 Multivariate Time-Analysis with MARSS. Weeklong workshop at Stockholm University, Sweden.

CODE PACKAGES (selected)

py-rocket Docker image A containerized environment providing Python, R, and geospatial analysis. link
MARSS Multivariate autoregressive state-space models. link
NWCTrends Trend metrics for the NW Viability Reports. link
VRData Data package for the NW Viability Reports. link
quarto_titlepages Quarto extension for customized PDF coverpages. link

TEACHING MATERIAL (selected)

RVERSE-TUTORIALS GitHub org with links to online workshops https://rverse-tutorials.github.io/
Data-Science YouTube channel https://www.youtube.com/@eeholmes-datascience4849
Applied Time-Series Analysis online book https://atsa-es.github.io/atsa-labs/
MARSS User Guide https://cran.r-project.org/web/packages/MARSS/vignettes/UserGuide.pdf

PUBLICATIONS and TALKS

Please see my webpage https://eeholmes.github.io/publications/ for my publications in the fields of time-series analysis, statistics, risk assessment, marine mammal population studies, and population modelling. Links to many of my talks on Open Science can be found on my webpage also https://eeholmes.github.io/talks/