

Elizabeth Eli Holmes

National Marine Fisheries Service

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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**),

ITCOcean 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

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.