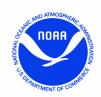
### Elizabeth Eli Holmes

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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), 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. <a href="link"><u>link</u></a> **MARSS** Multivariate autoregressive state-space models. <a href="link"><u>link</u></a> **NWCTrends** Trend metrics for the NW Viability Reports. <a href="link"><u>link</u></a> **VRData** Data package for the NW Viability Reports. <a href="link"><u>link</u></a> **quarto\_titlepages** Quarto extension for customized PDF coverpages. <a href="link"><u>link</u></a>

# **TEACHING MATERIAL (selected)**

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

#### **PUBLICATIONS and TALKS**

Please see my webpage <a href="https://eeholmes.github.io/publications/">https://eeholmes.github.io/publications/</a> 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 <a href="https://eeholmes.github.io/talks/">https://eeholmes.github.io/talks/</a>