

# Giancarlo Helar **Morón Correa**

FISHERIES SCIENTIST

*Biscay, Spain*

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## Education

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### Ph.D. in Ocean Ecology and Biogeochemistry

*Corvallis, U.S.A.*

Oregon State University

*2018-2022*

- Thesis: Incorporating the impacts of Climate Variability on Growth in Fish Population Dynamics Models
- Minor in Statistics

### Master of Science (c)

*Lima, Peru*

National University of San Marcos

*2015-2017*

- Coursework completed

### Bachelor of Science

*Lima, Peru*

National University of San Marcos

*2009-2013*

- Thesis: Spatio-temporal analysis of the epipelagic biodiversity in the Peruvian sea

## Work Experience

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### Researcher

*Biscay, Spain*

AZTI

*2023-present*

- Implementation of quantitative analyses (indices of abundance, stock assessments, management strategy evaluation) for the sustainable management of tunas in the Atlantic and Indian Oceans

### Postdoctoral Researcher

*Seattle, U.S.A.*

University of Washington

*2022-2023*

- Incorporation of age-length dynamics and growth modelling in age-structured state-space assessment platforms

### Graduate Research Assistant

*Corvallis, U.S.A.*

Oregon State University

*2018-2022*

- Modelling of the dynamics of adult and early life stages of Pacific cod in the eastern Bering Sea

### Junior Researcher

*Lima, Peru*

Marine Institute of Peru

*2014-2018*

- Implementation of quantitative analyses to investigate the spatial ecology and population dynamics of small pelagic fishes off Peru

## Teaching Experience

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### Quantitative ecology and fisheries

*Lima, Peru*

Cousteau Consultant Group

*2020-2024*

- Main instructor in several courses in statistical modeling applied to marine ecology and fisheries

### Data Fisheries Oceanography

*Corvallis, U.S.A.*

Oregon State University

*2020*

- Teaching Assistant. Statistical methods using oceanographic data

### Biomathematics

*Lima, Peru*

National University of San Marcos

*2017-2018*

- Lectures on species competition and predator-prey dynamics

## Skills

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### Programming

R, TMB, ADMB

### Languages

Spanish (Native), English (Fluent), Italian (Basic)

### Tools

Quarto, Rmarkdown, Shiny, LaTeX

## Awards

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### Butler Family Scholarship

Oregon State University

Corvallis, U.S.A.

2020

## Selected Peer-Reviewed Publications

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1. Correa et al. (2026). How observation coverage shapes bycatch estimates in a tropical tuna purse seine fishery. *Fisheries Research*. doi: 10.1016/j.fishres.2026.107754.
2. Berger et al. (2025). 'Building the (Im)perfect Beast': Strategies for Identifying Appropriate Spatial Stock Assessment Model Complexity From an International, Blinded High-Resolution Simulation Experiment. *Fish and Fisheries*. doi: 10.1111/faf.70048.
3. Correa et al. (2025). Performance of age-only state-space assessment models under diverse somatic growth scenarios. *Canadian Journal of Fisheries and Aquatic Sciences*. doi: 10.1139/cjfas-2025-0164.
4. Galloso et al. (2025). The impacts of El Niño Southern Oscillation on the pelagic fish community structure of the northern Humboldt Current system. *Deep Sea Research Part II: Topical Studies in Oceanography*. doi: 10.1016/j.dsr2.2025.105553.
5. Correa et al. (2024). Modeling the larval growth and survival of Pacific cod (*Gadus macrocephalus*) in the eastern Bering Sea. *Progress in Oceanography*. doi: 10.1016/j.pocean.2024.103282.
6. Goethel et al. (2024). 'Drivin' with your eyes closed': Results from an international, blinded simulation experiment to evaluate spatial stock assessments. *Fish and Fisheries*. doi: 10.1111/faf.12819.
7. Correa et al. (2023). Modelling time-varying growth in state-space stock assessments. *ICES Journal of Marine Science*. doi: 10.1093/icesjms/fsad133.
8. Correa et al. (2021). Spatial and temporal variability in somatic growth in fisheries stock assessment models: evaluating the consequences of misspecification. *ICES Journal of Marine Science*. doi: 10.1093/icesjms/fsab096.
9. Correa et al. (2020). Improved estimation of age composition by accounting for spatiotemporal variability in somatic growth. *Canadian Journal of Fisheries and Aquatic Sciences*. doi: 10.1139/cjfas-2020-0166.
10. Correa et al. (2019). Temporal changes in mesoscale aggregations and spatial distribution scenarios of the Peruvian anchovy (*Engraulis ringens*). *Deep Sea Research Part II: Topical Studies in Oceanography*. doi: 10.1016/j.dsr2.2018.11.009.

## Selected Technical Reports

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1. Correa et al. (2025). Advances in the use of state-space assessment models for tuna stocks: application to the Indian Ocean bigeye tuna. *Indian Ocean Tuna Commission (IOTC)*. Seychelles. Report No. IOTC-2025-WPTT27-23.
2. Correa et al. (2025). Standardized catch per unit effort of bigeye tuna in the Indian Ocean for the European purse seine fleet operating on floating objects. *Indian Ocean Tuna Commission (IOTC)*. Seychelles. Report No. IOTC-2025-WPTT27(DP)-14.

3. Phillips et al. (2025). Preliminary stock assessment of Indian Ocean Bigeye tuna (*Thunnus obsesus*) using Stock Synthesis. *Indian Ocean Tuna Commission (IOTC)*. Seychelles. Report No. IOTC-2025-WPTT27-15.
4. Monnahan et al. (2022). Assessment of the walleye pollock in the Gulf of Alaska. *NOAA Fisheries*. Seattle, WA, U.S.A.
5. Kapur et al. (2021). Draft: Status of sablefish (*Anoplopoma fimbria*) along the U.S. West coast in 2021. *Pacific Fisheries Management Council*. Portland, OR, U.S.A.

## Selected Oral Presentations

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1. Best practices for modelling time-varying growth in state-space stock assessments (2023). *ICES Annual Science Conference*.
2. Responding to climate-driven changes in growth in the modern stock assessment models (2022). *Think Tank Conference Series, University of Washington*.
3. Accounting for temporal variability in somatic growth improves state-space assessment model for walleye pollock in the Gulf of Alaska (2022). *Good Practices in Stock Assessment Modeling - CAPAM*.
4. Modeling the multiple action pathways of projected climate change on the Pacific cod (*Gadus macrocephalus*) early life stages (2022). *5th International Symposium on the Ocean in a High CO2 World*.
5. Accounting for spatial and temporal variability in somatic growth improves age composition and stock assessment estimates (2021). *8th World Fisheries Congress*.