Giancarlo Helar Morón Correa

Seattle, WA

Research interests

Fish stock assessment models, fish spatial dynamics, fisheries management, individual-based models, fish community ecology

Education

Oregon State University, United States

Ph.D. in Ocean, Earth, and Atmospheric Sciences. Minor in Statistics.

2018-2022

Thesis: Incorporating the impacts of Climate Variability on Growth in Fish Population Dynamics Models.

National University of San Marcos, Peru

M.S. (c) in Applied Mathematics.

2015-2017

Thesis: A functional approach to study cohort spatial distribution of the Peruvian anchovy (Engraulis ringens).

National University of San Marcos, Peru

B.S. in Biological Sciences. Major in Fisheries.

2009-2013

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

Professional Experience

Postdoctoral Fellow

University of Washington

2022-present

Research in state-space assessment models (Woods Hole Assessment Model)

Scientific Member

Cousteau Consultant Group

2020-present

Research projects in fisheries sciences in Latin-america. Instructor.

Graduate Research Assistant

Oregon State University

2018-2022

Population dynamics of the Pacific cod in the eastern Bering Sea.

Researcher

Marine Institute of Peru

2014-2018

Population dynamics and stock assessment of small pelagic fishes.

Oral presentations

ESSAS Annual Meeting

United States 2022

Modeling the multiple action pathways of projected climate change on the Pacific cod (Gadus macrocephalus) early life stages.

Ocean Sciences Meeting

United States 2022

Modeling the Multiple Action Pathways of the effects of climate change on the Pacific cod (Gadus macrocephalus) larval growth and survival.

World Fisheries Congress

Australia 2021

Accounting for spatial and temporal variability in somatic growth improves age composition and stock assessment estimates.

UW: Quantitative Seminar Series

United States 2020

Impacts of temporal and spatial variability in somatic growth on fish stock assessment models.

Ocean Sciences Meeting

United States 2020

Accounting for spatiotemporal variability in somatic growth in age composition data estimation for stock assessment models.

PICES International Symposium: Understanding changes in transitional areas of the Pacific

Mexico 2018

Identifying biogeographical transition zones and nekton assemblages in the northern Humboldt Current System.

ICES/PICES International Symposium: Drivers of dynamics of small pelagic fish resources

Canada 2017

Effects of ENSO phases on Peruvian anchovy aggregation patterns.

Teaching Experience

Cousteau Consultant Group, Perú

Several couses in quantitative ecology. 2020-2022

Main instructor

Oregon State University, US

OC549: Data Fisheries Oceanography 2020

Teaching Assistant

National University of San Marcos, Peru

B01316: Biomathematics 2017–2018

Guest lecturer: An introduction to species competition models.

Publications (peer-reviewed)

The influence of age and cohort on the distribution of walleye pollock (Gadus chalcogrammus) in the eastern Bering Sea

Stevenson, D., Kotwicki, S., Thorson, JT., Correa GM., Buckley TTW.

Canadian Journal of Fisheries and Aquatic Sciences

https://doi.org/10.1139/cjfas-2021-0300

Spatial and temporal variability in somatic growth in fisheries stock assessment models: evaluating the consequences of misspecification

Correa GM., McGilliard C., Ciannelli L., y Fuentes C.

ICES Journal of Marine Sciences. Volume 78. Issue 5. pp 1900-1908.

https://doi.org/10.1093/icesjms/fsab096

Improved estimation of age composition by accounting for spatiotemporal variability in somatic growth

Correa GM., Ciannelli L., Kotwicki S., Barnett L. y Fuentes C.

2020

2022

2021

Canadian Journal of Fisheries and Aquatic Sciences. Volume 77. Number 11. pp 1810-1821.

https://doi.org/10.1139/cjfas-2020-0166

Temporal changes in mesoscale aggregations and spatial distribution scenarios of the Peruvian anchovy (Engraulis ringens)

Morón G., Galloso P., Gutierrez D. y Torrejon-Magallanes J.

2019

Deep Sea Research Part II: Topical Studies in Oceanography. Volume 159. pp 75-83.

Publications (in preparation)

Intermediate: TMB, MATLAB, Microsoft Office

patial and temporal variability of food-limited growth and survival of Pacific od (Gadus macrocephalus) early life stages			
Correa GM., Hurst T., Stockhausen W., Kristiansen T., Ciannelli L., Pilcher D. Modeling the multiple action pathways of projected climate change on the Pacific cod (Gadus macrocephalus) early life stages Correa GM., Hurst T., Stockhausen W., Kristiansen T., Ciannelli L., Pilcher D. A general simulation framework to evaluate data quality collected by onboard observers: the case of the mahi-mahi (Coryphaena hippurus) fishery off Peru Correa GM., Torrejón-Magallanes J., Lau W., Ramos E. El Niño Southern Oscillation impacts on the biodiversity of pelagic fishes in the northern Humboldt Current System Galloso P., Legendre P., Correa GM.	2022 2022 2022 2022		
		DRAFT Status of Sablefish (<i>Anoplopoma fimbria</i>) along the US West coast in 2021 Kapur MS., Lee Q., Correa GM., Haltuch MA., Gertseva V. and Hamel OS. Pacific Fisheries Management Council. Portland, OR. 136 p.	2021
		Catch Only Projection for Canary Rockfish (Sebastes pinniger) in 2021 Correa GM. and Wetzel CR. Pacific Fisheries Management Council. Portland, OR.	2021
		Catch Only Projection for Arrowtooth Flounder (<i>Atheresthes stomias</i>) in 2021 <i>Correa GM., Wetzel CR. and Hamel O.</i> Pacific Fisheries Management Council. Portland, OR.	2021
		Other publications	
Incorporating the Impacts of Climate Variability on Growth in Fish Population Dynamics Models			
Correa GM. Oregon State University	2022		
nálisis espacio temporal de la biodiversidad en el ambiente epipelágico del mar eruano			
Correa GM. Universidad Nacional Mayor de San Marcos	2017		
Awards			
Butler Family Scholarship Oregon State University	2021		
Computer Skills			
Basic: Java. ADMB			

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Languages

Spanish: Native speaker

English: Advanced Italian: Intermediate