

Isaac Brito Morales Ph.D.

Senior Associate Scientist

Conservation International, Arlington, United States

✉ ibritomorales@gmail.com ☎ +1 (805) 350-6678 🌐 github.com/IsaakBM

Work and Research

Conservation International

Senior Associate Scientist, Moore Center for Science Jul2024-present

Associate Research Scientist, Moore Center for Science 2021-Jun2024

The University of California, Santa Barbara

Research Associate, Marine Science Institute Nov2024-present

Affiliated Researcher, Marine Science Institute 2022-Oct2024

The University of Queensland (UQ)

Postdoctoral Research Fellow, School of Mathematics and Physics Feb2021-Sep2021

Centro de Ecología Aplicada

Project Manager 2010-2016

Universidad Católica de la Santísima Concepción

Lecturer in Experimental Design 2008-2009

Education

The University of Queensland (UQ), Ph.D. Biological Sciences 2016-2021

Universidad Católica de la Santísima Concepción, Bachelor of Science (Bsc 1st Class Hons), Marine Biologist 2003-2008

Awards and Honors

Science Faculty, Universidad Católica de la Santísima Concepción, Academic Excellence 2008

Grants and Fellowships

Chilean National Research and Development Agency (ANID), Ph.D. Grant 2016

Peer-Reviewed Publications

IN PRESS AND PUBLISHED

Hannah L, Irvine A, **Brito-Morales I**, Fuller S, Davies T, Tittensor D, Reville G, Shackell N, Hennicke J, Stanley R. 2024. To save the high seas, plan for climate change. *Nature*. DOI:

<https://doi.org/10.1038/d41586-024-01720-2>.

Sanz-Martín M, Hidalgo M, Puerta P, García Molinos J, Zamanillo M, **Brito-Morales I**, González-Irusta JM, Esteban A, Punzón A, García-Rodríguez E, Vivas M, L López-López. 2024. Climate velocity drives unexpected southward patterns of species shifts in the Western Mediterranean Sea. *Ecological Indicators*. DOI: <https://doi.org/10.1016/j.ecolind.2024.111741>.

Schoeman DS, Sen Gupta A, Harrison CS, Everett J, **Brito-Morales I**, Hannah L, Bopp L, Roehrdanz P, AJ Richardson. 2023. Demystifying global climate models for use in the life sciences. *Trends in Ecology and Evolution*. DOI: <https://doi.org/10.1016/j.tree.2023.04.005>.

Buenafe KCV, Dunn D, Everett J, **Brito-Morales I**, Schoeman DS, Hanson JO, Dabalà A, Neubert S, Cannicci S, Kaschner K, AJ Richardson. 2023. A metric-based framework for climate-smart conservation planning. *Ecological Applications*. DOI: <https://doi.org/10.1002/eap.2852>.

Brito-Morales I, Schoeman DS, Everett J, Klein CJ, Dunn D, García Molinos J, Burrows MT, Buenafe KCV, Dominguez RM, Possingham HP, Richardson AJ. 2022. Towards climate-smart, three-dimensional protected areas for biodiversity conservation in the high seas. *Nature Climate Change* 12, 402–407. DOI: <https://doi.org/10.1038/s41558-022-01323-7>.

Arafeh-Dalmau N, **Brito-Morales I**, Schoeman DS, Possingham HP, Klein CJ, AJ Richardson. 2021. Incorporating climate velocity into the design of climate-smart networks of marine protected areas. *Methods in Ecology and Evolution*. DOI: <https://doi.org/10.1111/2041-210X.13675>

Brito-Morales I, Schoeman DS, García Molinos J, Burrows MT, Klein CJ, Arafeh-Dalmau N, Kaschner K, Garilao C, Kesner-Reyes K, AJ Richardson. 2020. Climate velocity reveals increasing exposure of deep-ocean biodiversity to future warming. *Nature Climate Change* 10, 576–581. DOI: <https://doi.org/10.1038/s41558-020-0773-5>

Brito-Morales I, García Molinos J, Schoeman DS, Burrows MT, Poloczanska ES, Brown CJ, Ferrier S, Harwood TD, Klein CJ, McDonald-Madden E, Moore PJ, Pandolfi JM, Watson JEM, Wenger AS, AJ Richardson. 2018. Climate Velocity Can Inform Conservation in a Warming World. *Trends in Ecology & Evolution* 33, 441–457. DOI: <https://doi.org/10.1016/j.tree.2018.03.009>

IN PREPARATION, REVIEW OR REVISION (DRAFTS AVAILABLE UPON REQUEST)

Lee Hannah, Jennifer Sunday, **Isaac Brito-Morales**, Jessica Couture, Juliano Palacios-Abrantes, Patrick Roehrdanz, Pablo Marquet, William Cheung. 30x30 for Climate Change: One if by Land, Two if by Sea. *Trends in Ecology & Evolution*. *In Review*.

Buenafe KCV, Dunn DC, Metaxas A, Schoeman DS, Everett JD, Pidd A, Hanson JO, Bentley, LK, Kim SW, Neubert S, Scales, KL, Dabalà A, **Brito-Morales I**, Richardson AJ. Current approaches and future opportunities in designing climate-smart protected areas. *Nature Reviews Biodiversity*. *In Review*.

Isaac Brito-Morales, Floriane Sudre, Sophie Laran, Christoph Rohner, Matthieu Le Corre, Audrey Jaeger, Olivier Bousquet, Salvatore Cerchio, Boris Dewitte, Daniel Dunn, Elliott Hazen, Ronel Nel, Kylie Scales, Ana Sequeira, Tammy Davies, Lee Hannah, Vincent Rossi. Ocean fronts aggregate marine megafauna in the southwest Indian Ocean. *Nat. Commun.* *In Prep*.

Teaching

INSTRUCTION

- Instructor, *The University of California, Santa Barbara*, ESM240 Climate Change Biology (graduate course) 2023
- Teaching assistant, *The University of Queensland (UQ)*, Advanced Analysis of Scientific Data 2019-2020
- Teaching assistant, *The University of Queensland (UQ)*, Analysis of Scientific Data 2019-2020
- Teaching assistant, *The University of Queensland (UQ)*, Pharmacy - Data Analysis & Professional Practice 2019-2020
- Teaching assistant, *The University of Queensland (UQ)*, Probability & Statistics in Engineering 2019
- Teaching assistant, *The University of Queensland (UQ)*, Environmental Data Analysis 2018
- Teaching assistant, *The University of Queensland (UQ)*, Biostatistics & Experimental Design 2018

WORKSHOPS

- Ocean Front, Megafauna and Climate Change, *Acadia University*, 2024
- Ocean Front and Climate Change, *Nelson Mandela University* 2023

Invited Talks

- Encuentro del Pacífico Sudeste, Ciudad de Panamá, Panamá*, Cambio climático en el océano: la dimensión ignorada en conservación 2024
- Association for the Sciences of Limnology and Oceanography, Palma de Mallorca, Spain*, Climate velocity in the ocean and its implications for conservation, S-69: Promoting Resilience Through Climate-Smart Fisheries and Conservation Management 2023

Contributed Presentations

- Sustainability, Research & Innovation Congress, Helsinki, Finland*, Ocean Front Change, Belmont Forum Session: Oceans 2018 End-term 2024
- Species on the Move, Bonita Springs, Florida, US*, Managing dynamic ocean front ecosystems for species on the move 2023
- IMPAC5, Vancouver, Canada*, Climate velocity in the ocean and its implications for conservation 2023
- Ocean Science meeting*, Challenges and opportunities for managing ocean front ecosystems in a warming world 2022
- Species on the Move, Kruger National Park, South Africa*, Life below the ocean surface increasingly threatened by climate change 2019

Mentoring

Mundus Masters Degree in Tropical Biodiversity and Ecosystems, Kristine Camille Buenafe, “Benefits and costs to pelagic fisheries of conservation-sensitive, climate-smart closures in the Pacific Ocean” 2021

Mundus Masters Degree in Tropical Biodiversity and Ecosystems, Rosa Mar Dominguez, “Conservation of the high seas: designing climate-smart reserves in the Indian Ocean” 2020

Mundus Masters Degree in Tropical Biodiversity and Ecosystems, Rafaela de Albuquerque Ribeiro, “Designing climate-proof marine protected areas: a case study in South America” 2019

References

Prof Anthony Richardson (anthony.richardson@csiro.au)

Prof David Schoeman (dschoema@usc.edu.au)

A/Prof Jorge Garcia Molinos (garciamj@tcd.ie)

Languages Spoken

Fluent Spanish; Fluent English