

# Isaac Brito Morales Ph.D.

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Associate Research Scientist

Conservation International, Arlington, United States

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## Work and Research

*Conservation International*

Associate Research Scientist, Betty and Gordon Moore Center for Science 2021-present

*The University of California, Santa Barbara*

Affiliated Researcher, Marine Science Institute 2022-present

*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

Schoeman DS, Sen Gupta A, Harrison CS, Everett J, **Bruto-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)

Sanz-Martín M, Hidalgo M, **Brito-Morales I**, Puerta P, Zamanillo M, García Molinos J, González-Irusta JM, Esteban A, Punzón A, García-Rodríguez E, Vivas M, L López-López. Climate velocity drives unexpected southward patterns of species in the Mediterranean Sea. *In Review: Global Change Biology*.

## Teaching

### INSTRUCTION

<i>The University of Queensland (UQ), Advanced Analysis of Scientific Data</i>	2019-2020
<i>The University of Queensland (UQ), Analysis of Scientific Data</i>	2019-2020
<i>The University of Queensland (UQ), Pharmacy - Data Analysis &amp; Professional Practice</i>	2019-2020
<i>The University of Queensland (UQ), Probability &amp; Statistics in Engineering</i>	2019
<i>The University of Queensland (UQ), Environmental Data Analysis</i>	2018
<i>The University of Queensland (UQ), Biostatistics &amp; Experimental Design</i>	2018

## Invited Talks

*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

*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](mailto:anthony.richardson@csiro.au))

Prof David Schoeman ([dschoema@usc.edu.au](mailto:dschoema@usc.edu.au))

A/Prof Jorge Garcia Molinos ([garciamj@tcd.ie](mailto:garciamj@tcd.ie))

## Languages Spoken

Fluent Spanish; Fluent English