

# Beatriz S. Dias

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## EDUCATION

- Ph.D. in Environmental Conservation, *UMass Amherst, US* 2019  
Concentration: Wildlife, Fish and Conservation Biology  
Dissertation title: Analysis spatio-temporal of marine ecosystems
- M.S. in Marine and Coastal Sciences, *Autonomous University of Baja California Sur, Mexico* 2011  
Thesis title: Black Sea Turtle *Chelonia mydas*(Linnaeus 1758) abundance through mark-recapture at forage areas of BCS, Mexico.
- B.S. in Oceanography, *Federal University of Para, Brazil* 2008

## SKILLS

- Programming and software: R, LaTeX, ArcGIS, Excel, Ecopath with Ecosim, Program MARK, Adobe Illustrator, Python/Anaconda, MATLAB
- Proficiency using GitHub
- Experience with long-term data set management
- Experience operating small vessels
- Experience with passive and active fishing gears
- English, Spanish and Portuguese fluency

## EMPLOYMENT

- Postdoctoral Scholar *College of Fisheries and Ocean Sciences, University of Alaska Fairbanks* 2021-present
- Postdoctoral Scholar *School of Aquatic and Fishery Sciences, University of Washington* 2020-2021
- Assistant Researcher Scientist *Monterey Bay Aquarium* 2019-2020
- Temporary - Outreach Assistant *Extractive Marine Reserve (RESEX) of Soure, ICMBio, Brazil* 2013
- Researcher Collaborator *Federal University of Para/NAEA, Brazil* 2011-2014
- Temporary - Operation Coordinator *TOMAGE - Sea Turtles of Equatorial Guinea* 2011-2012
- Temporary - Field Researcher *RED Sustainable Tourism, Mexico* 2010-2011
- Intern *Southwest Fisheries Science Center, NOAA, San Diego, US* 2010
- In-water Data Base Manager *Grupo Tortuguero de las Californias A.C., Mexico* 2009-2011
- Full time - Field Biologist *ASVO- Matapalo Sea Turtle Project, Costa Rica* 2009-2010

## PUBLICATIONS

### *Journal Articles*

**Dias, B.S.**, Frisk, M.G. and Jordaan, A. 2021 “Evaluating fishing effort reduction and habitat restoration as management strategies to promote alewife (*Alosa pseudoharengus*) recovery using an ecosystem model.” *Limnol. Oceanogr.* <https://doi.org/10.1002/lno.11871>

Tanaka, K.R., Van Houtan, K., Mailander, E., **Dias, B.S.**, *et al.* 2021 “North Pacific warming shifts the juvenile range of a marine apex predator” *Sci Rep* <https://doi.org/10.1038/s41598-021-82424-9>

**Dias, B.S.**, Martins, B.M.L., Sousa, M.E.M., Cardoso, A.T.C., Jordaan, A. 2020 “Prioritizing species of concern monitoring using GIS-based fuzzy models.” *Ocean & Coastal Mngt* <https://doi.org/10.1016/j.ocecoaman.2019.105073>

**Dias, B.S.**, Frisk, M.G. and Jordaan, A. 2019 “Opening the tap: Increased riverine connectivity strength-ens marine food web pathways.” *PLOS ONE* <https://doi.org/10.1371/journal.pone.0217008>

**Dias, B.S.**, Barbosa, J. F., Jordaan, A. 2019 “Sea turtle records at the Environmental Protection Area of Algodual-Maiandeuá, Para State, Brazil.”

Cohen, M.C.L., Lara, R.J., Smith, C.B., Angelica, R.S., **Dias, B.S.**, & Pequeno, T. (2008). “Wetland dynamics of Marajo Island, northern Brazil, during the last 1000 years.” *Catena* 76(1): 70-77. <https://doi.org/10.1016/j.catena.2008.09.009>

### *In review work*

**Dias, B.S.**, McGowan, D.W. , Campbell, R., Branch, T.A. “Influence of environmental and population factors on Prince William Sound herring.” *In review*

### *Outreach*

**Dias, B.S.** “About time” Herring Research & Monitoring, Prince William Sound Science Center. 2021-2022 *Delta Sound Connections*

## PRESENTATIONS

**Dias, B.S.** (2021) “From river dolphins to herring: Developing research for coastal ecosystems”. School for Aquatic and Fishery Sciences, University of Washington departmental seminar. <https://www.youtube.com/watch?v=IvK4zqgU19M&t=1s>

**Dias, B.S.**, McGowan, D.W. , Campbell, R., Branch, T.A. (2021) “Influence of environmental and population factors on herring spawn timing in Prince William Sound”. School for Aquatic and Fishery Sciences, University of Washington quantitative seminar. [https://www.youtube.com/watch?v=ugsTOx\\_bJg](https://www.youtube.com/watch?v=ugsTOx_bJg)

**Dias, B.S.**, McGowan, D.W. , Campbell, R., Branch, T.A. “What affects spawning phenology of herring (*Clupea pallasii*) in Prince William Sound?”. Alaska Marine Science Symposium, virtual (Oral Presentation).

**Dias, B.S.**, McGowan, D.W. Branch, T.A. (2020) Influence of environmental and population factors on herring spawn timing in Prince William Sound. PICES conference, virtual (Oral Presentation).

- Dias, B.S.**, Frisk, M., Jordaan, A. (2020) Using Historical Productivity Data to Inform Management Strategies for Anadromous Forage Fish. AFS 150, virtual (Oral/Recorded Presentation)
- Dias, B.S.**, Martins, B.M.L., Sousa, M.E.M., Cardoso, A.T.C. and Jordaan, A. (2019). Identification of monitoring priority areas for species of concern using GIS-based fuzzy models: The case of Soure Marine Extractive Reserve on the Amazon Coast. ISTS, Charleston, US (Oral Presentation).
- Dias, B.S.** and Jordaan A. (2018). Incorporating historical baselines to test management strategies for anadromous forage fish. ICES Working Group on the History of Fish and Fisheries Meeting, Brest, France (Oral Presentation)
- Dias, B.S.** and Jordaan, A. (2018). Testing Management Strategies to Promote Alosine Recovery in the Gulf of Maine Marine Ecosystem. AFS 148, Atlantic City, US (Oral Presentation).
- Dias, B.S.** (2018). Temporal and spatial management tools for marine ecosystems: Case studies from the Northeastern United States and Northern Brazil. IMBeR ClimEco6 Summer School. Yogyakarta, Indonesia (Poster presentation).
- Dias, B.S.** and Jordaan, A. (2017). A marine ecosystem perspective of anadromous forage fish. ICES ASC Fort Lauderdale, US (Oral Presentation).
- Dias, B.S.**, Martins, B.M.L., Sousa, M.E.M., Cardoso, A.T.C. and Jordaan, A. (2017). First steps towards including sea turtle research in Extractive Marine Reserve of Soure management plan. ISTS, Las Vegas, US (Oral Presentation).
- Dias, B. S.**, A Jordaan. (2016). Going with the flow: Employing network analysis to explore Northeast US shelf ecosystem consequences of alternative anadromous forage biomass scenarios. ICES ASC, Riga, Latvia (Oral Presentation).
- Jordaan, A., Klein, E.S., Alexander, K., Leavenworth, W.B., Mattocks, S., **Dias, B.S.**, and Frisk, M.G. (2016). What four years of ecosystem modeling using historical data has told us about changes to the Northeast Atlantic ecosystem. ICES ASC, Riga, Latvia.
- Dias, B.S.**, Mattocks, S., Jordaan, A. (2016). The effects of anadromous forage fish biomass restoration on NE US marine ecosystem. ISEM, Townson, Maryland, US (Poster presentation).
- Dias, B.S.**, Jordaan, A., Mattocks, S. (2016). What if? The effects of anadromous forage fish biomass restoration. CCFRR/SCL, St. John's, Newfoundland, Canada (Oral presentation).
- Dias, B.S.** and Jordaan A. (2014). Sea turtles of the Amazon: First steps towards a conservation network. 34th International Sea Turtle Symposium. New Orleans, LA, US (Poster Presentation).
- Dias, B.**, Rodriguez-Baron, J., Koch, V. (2012). Then years of black sea turtle research and conservation at two coastal lagoons in Northwest Mexico. What do we know? 32nd International Sea Turtle Symposium. Huatulco, Oaxaca, Mexico (Oral Presentation).
- Najera-Hillman, E., **Dias,B.**, Koch, V., Hinojosa,G. (2011). Survival and abundance estimates for green turtles (*Chelonia mydas*) in Estero Banderitas, Baja California Sur, Mexico. 31st International Sea Turtle Symposium. San Diego, California, USA.
- Dias, B.**, Koch, V., Najera-Hillman,E., Hinojosa,G., Wang,J. H., Fisler, S., Swimmer,Y. (2011). Growth rates and body condition index of East Pacific green turtle (*Chelonia mydas*) at four monitoring sites in Baja California Sur. 31st International Sea Turtle Symposium. San Diego, California, USA (Oral Presentation).

**Dias, B.,** Koch, V., Lucero, J. (2011). Mark-recapture for evaluating the status of green sea turtle *Chelonia mydas* (Linnaeus 1758) in Baja California Sur, Mexico feeding grounds . I Conservation Science Symposium. Loreto, Baja California Sur. Mexico (Oral presentation).

## **AWARDS**

**2019** *John Boreman Fisheries Award*, ECo Department, University of Massachusetts Amherst, US.

**2019** International Sea Turtle Symposium 2019 Travel Grant

**2018** Recipient of OCB Travel Grant to attend ClimEco6 summer school University Gadjah Mada, Yogyakarta, Indonesia.

**2018-2019** Recipient of ECo Department Fellowship University of Massachusetts Amherst, US.

**2017** IMBIZO5 OCB Workshop registration grant

**2017** ICES Annual Science Conference 2017 Travel Grant

**2017** International Sea Turtle Symposium 2017 Travel Grant

**2016** ICES Annual Science Conference 2016 Travel Grant

**2013-2017** Recipient, *Science without Borders Scholarship- CAPES*

**2011** Graduated *Magna Cum Laude* Autonomous University of Baja California Sur (UABCS), Mexico.

**2009-2011** Recipient, *CONACyT scholarship* Autonomous University of Baja California Sur (UABCS), Mexico.

**2010** Recipient, *CONACyT Mixed scholarship* UABCS-SFSC NOAA, San Diego, US.

**2006-2017** Recipient, *CAPES/CNPq Scholarship* UFPA-Federal University of Para, Brazil.

## **CONFERENCES (Organization)**

- AFS 2020 Symposium Forage Fish and Climate Adaptation: Updates on Science and Management Co-chair (<https://afs.confex.com/afs/2020/webprogrampreliminary/Session9449.html>)
- International Sea Turtle Symposium 2021, Workshops and Regional Meetings Co-chair
- Organizer Environmental Conservation Department Graduate Student Symposium (ECoGSS) 2018

## **COMMUNITY INVOLVEMENT**

- IMECaN- Interdisciplinary Marine Early Career Network organizing committee
- International Council for the Exploration of the Sea (ICES) Working Group on the History of Fish and Fisheries (WGHIST) member
- Reviewer for Journal of Marine Systems ([journals.elsevier.com/journal-of-marine-systems](https://journals.elsevier.com/journal-of-marine-systems))
- Reviewer for Fisheries Research ([journals.elsevier.com/fisheries-research](https://journals.elsevier.com/fisheries-research))
- Reviewer for Frontiers in Marine Sciences (<https://www.frontiersin.org/journals/marine-science>)
- Reviewer for WETLANDS (<https://www.springer.com/journal/13157>)
- Reviewer for PLOS ONE (<https://journals.plos.org/plosone/>)
- International Sea Turtle Society and American Fisheries Society
- Workshop on Management Strategy Evaluation IMBIZO5, WHOI, Woods Hole, MA.