Short Curriculum Vitae

Isadora Cord

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EDUCATION

2021 – present Ph.D. student in Ecology at UFSC, Brazil

- ➔ February to August 2023 – Visiting student at James Cook University, Townville, QL, Australia
- ➔ June to July 2022 – Mission Atlantic academic mobility at the University of the Azores, Horta, Faial, Portugal

2019 – 2021 Master's degree in Ecology at UFSC, Brazil

2014 – 2018 Bachelor's student in Biological Sciences at UFSC, Brazil.

PROFILE

I grew up in Florianópolis, an island in the south of Brazil, which greatly contributed to the early development of my passion for the sea. During my undergrad, I took part in a wide range of ocean-related studies (such as benthic organism taxonomy, mangrove ecosystem ecology, ocean water chemistry, and ecotoxicology) before joining the Marine Macroecology and Bioeography Lab under Dr. Sergio Floeter's supervision. My bachelor thesis focused on the trophic ecology of a butterflyfish at Rocas Atoll (foraging behavior, gut content analysis, and nutrient assimilation). For my Master's, I used a multi-taxa approach to divide the Brazilian coast into Sub-Provinces and analyzed how reef organisms' distributions relate to biogeographical barriers. During this period, in 2019, I participated in a PELD-ILOC expedition to Rocas Atoll Biological Reserve where I honed my sampling and data collection skills. My Ph.D. thesis focuses on macroecology, connectivity, and evolution of Atlantic reef fish, and during this period I also worked at the University of the Azores, Portugal, under the supervision of Dr. Pedro Afonso. We used video plots in several Azorean locations to assess the effect of invasive algae on the fish assembly. In 2023 I was hosted by Dr. Peter Cowman and Dr. Alexandre Siqueira at James Cook University, Australia, where we investigated Atlantic fish phylogeography. I am most interested in marine biogeography and macroecology, specifically how a better understanding of biodiversity patterns and processes can help us protect the oceans through conservation measures.

Figure 1 – From left to right: Sampling benthic organisms in Arraial do Cabo (RJ); Dissecting a fish while acting as class assistant in Vertebrate Zoology; Working with muscle tissue for isotopic analysis; Analyzing reef fish stomach contents.

OTHER RELEVANT INFORMATION

Languages:
Portuguese: native language.
English: fluent reading, speaking, and writing.
Spanish: fluent reading, advanced speaking, and writing.
French: intermediate reading, speaking, and writing.

Diving qualifications:
PADI Rescue Diver.

Seafarers' formation:
Assistant Ordinary Deck Seaman, in accordance with STWC 78/95 Convention.

Working experience:
Laboratorial: dissecting and analyzing the stomach content of reef fishes, fixating stomachs in formalin, and procedures involved in isotopic analyses.

Fieldwork and Diving: I have experience sampling fish with visual census, benthos with photo quadrats, underwater photography, and using focal animal sampling with both scuba diving and freediving.

Management: During my bachelor studies I was part of a Junior Enterprise focused on conservation, environmental education, and faunal/floral assessments. Being a part of this project for two years gave me experience in teamwork, management, and project development skills.

PUBLICATIONS

PAPERS IN SCIENTIFIC JOURNALS

Quimbayo JP, Nunes LT, Silva FC, Anderson AB, Barneche DR, Canterle AM, **Cord I**, et al. (2023) TimeFISH: Long-term assessment of reef fish assemblages in a transition zone in the Southwestern Atlantic. *Ecology*, e3966.

Cord I, Nunes LT, Lindner A, Targino A, Freire AS, Barroso CX, Mantelatto F, Gurgel F, Gadig O, Gomes P, Floeter SR. (2022). Brazilian marine biogeography: A multi-taxa approach for outlining sectorization. *Marine Biology*, v. 169, n. 5, p. 61.

Nunes LT, Siqueira AC, **Cord I**, Ford BM, Liedke AMR, Ferreira CEL, Floeter SR. (2020). The

influence of species abundance, diet and phylogenetic affinity on the co-occurrence of butterflyfishes. *Marine Biology*, 167:107-118.

Nunes LT, **Cord I**, Francini-Filho RB, Stampar SN, Pinheiro HT, Rocha LA, Floeter SR, Ferreira CEL. Ecology of *Prognathodes obliquus*, a butterflyfish endemic to mesophotic ecosystems of St. Peter and St. Paul's Archipelago. (2019). *Coral Reefs*, 38:955-960.

Cord I, Nunes LT, Floeter SR. (2023). Habitat driving feeding preferences of a poorly known butterflyfish at the only atoll in the South Atlantic Ocean. *In prep.*

Cord I, Floeter SR. (2023). Biogeography, connectivity, and evolution of the Mid-Atlantic Ridge tropical islands. *In prep.*

BOOK CHAPTERS

Cord I, Silva BS, Valle-Pereira JVS, Picolotto V, Brito GRR. Bicar ou não bicar, eis a questão: a relação entre alimentação e vigilância no forrageamento da batuíra-de-bando. In: Ecologia de Campo: Estudos Ecológicos na Baía da Babitonga, 12 ed, 2021, p. 434 – 447.

Zamoner JB, Gaspar TL, **Cord I**, Vanin AS, Omena MTRN, Pinheiro-Silva L, Macedo-Soares LCP, Freire AS. Camarão que dorme a maré leva: influência das marés e da setorização do estuário na composição da comunidade zooplanctônica na Baía Babitonga. In: Ecologia de Campo: Estudos Ecológicos na Baía da Babitonga, 12 ed, 2021, p. 206 – 237.

Gaspar TL, **Cord I**, Zamoner JB, Omena MTRN, Vanin AS, Weidlich EWA, Dechoum M. Estimativa de sequestro de carbono por árvores de manguezal na Baía Babitonga. In: Ecologia de Campo: Estudos Ecológicos na Baía da Babitonga, 12 ed, 2021, p. 345 – 365.

Vanin A, Gaspar TL, **Cord I**, Zamoner JB, Omena MTRN, Silveira TCL, Figueiredo BRS. Padrão de uso de habitat por girinos de *Leptodactylus sp*. sob diferentes estímulos de riscos de predação. In: Ecologia de Campo: Estudos Ecológicos na Baía da Babitonga, 12 ed, 2021, p. 135 – 156.

Cord I, Zamoner JB, Vanin AS, Gaspar TL, Omena MTRN, Hernandez MIM. Riqueza, abundância e biomassa de besouros escarabeíneos em ambientes com diferentes graus de conservação. In: Ecologia de Campo: Estudos Ecológicos na Baía da Babitonga, 12 ed, 2021, p. 291 – 309.

CONGRESS PARTICIPATIONS

Cord I, Floeter SR. (2022). Biogeografia, conectividade e Evolução de peixes recifais nas ilhas de Ascensão e Santa Helena, dorsal mesoatlântica. XXIII Encontro Brasileiro de Ictiologia, Gramado, Brazil.

Cord I, Floeter SR. (2022). Biogeography, connectivity and evolution of the Atlantic oceanic islands. 15th international coral reef symposium (ICRS), Bremen, Germany.

Cord I, Nunes LT, Lindner A, Targino A, Freire AS, Barroso CX, Mantelatto F, Gurgel F, Gadig O, Gomes P, Floeter SR. (2022). Biogeografia marinha brasileira: uma abordagem multi-táxon para delinear a setorização de sub-províncias. (Oral presentation). II Encontro Recifal Brasileiro, virtual.

Cord I, Teixeira LN, Floeter SR. (2019). Ecologia Trófica do Peixe-borboleta *Chaetodon ocellatus* no Atol das Rocas, NE, Brasil. (Oral presentation). XXIII Encontro Brasileiro de Ictiologia, Belém do Pará, Brazil.

Xavier MFB, Soares CH, Brauko KM, Baptista, I, Weis WA, **Cord I**. (2017). Evaluation of water quality in rivers on the Santa Catarina Island, Brazil, using benthic organisms. SETAC Brussels, Belgium.

Winter BB, Brauko KM, Pagliosa PR, **Cord I**, Weis WA. (2016). Urbanização e respostas de *Laeonereis culveri* (ANNELIDA:POLYCHAETA). In: XIII Congresso Brasileiro de Zoologia, Cuiabá, BR.

OTHER EVENTS

Volunteer at the All-Atlantic Sampling Day with Horizon 2020 project AtlantECO. 2022.

Volunteer at the Itajaí Port Call for the Tara schooner (Fondation Tara Océan). 2021.

OUTREACH, MEDIA PRODUCTIONS, AND AWARDS

Honorable Mention – oral presentation at II Encontro Recifal Brasileiro (Brazilian Reef Meet). 2021.

Outreach video created to present Floeter's lab to the general public (YouTube link). 2020.

Photography contest (XXIII Brazilian Meeting of Ichthyology), category: underwater photography. First place. 2019.

Workshop offered at the academic week of biology (UFSC): "Identification of Marine Organisms from Santa Catarina". 2018.

TEACHING EXPERIENCE

Lectures in Undergraduate Classes:

- Marine Biogeography – "Vertebrates I", in Biological Sciences Undergraduate Degree at UFSC
- Feeding Ecomorphology – "Vertebrates I", in Biological Sciences Undergraduate Degree at UFSC
- Feeding Ecomorphology – "Nekton", in Oceanography Undergraduate Degree at UFSC

Lecturers in Postgraduate Classes:

- Brazilian Marine Biogeography – "Evolution, Ecology, and Conservation of Reef Fishes" Ecology Program/UFSC.

Certified by the author on **May 2023**