

Ingrid Vasconcellos Bunholi

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EDUCATION

Sep 2022-present	Ph.D. Fellow Student, Marine Sciences Marine Science Institute, University of Texas at Austin, USA GPA: 3.89
2022	M.S. Biology (Ecology) Indiana State University, USA GPA: 3.87
2020	M.S. Biology (Zoology) Universidade Estadual Paulista, Brazil GPA: 3.90
2019	B.Sc., Environmental Engineering Universidade Federal de São Paulo, Brazil GPA: 3.17
2016	B.Sc., Marine Sciences Universidade Federal de São Paulo, Brazil GPA: 3.20

COMPLEMENTARY EDUCATION

2023	Marine Invasive Species Detection: Utilizing Molecular Tools (eDNA) (36h) The OceanTeacher Global Academy
2020	Manipulation and visualization of ecological data in R (40h) Universidade Estadual de Maringá – UEM, Brazil
2020	Summer course in Bioinformatics (30h) Universidade de São Paulo – USP, Brazil
2019	Introduction to Bioinformatics: R Language for RNA-Seq (8h) Brazilian Society of Genetics – SBG, Brazil
2016	Introduction to Molecular Evolution (30h) Universidade Estadual Paulista – UNESP, Brazil

LANGUAGE AND COMPUTER SKILLS

English: Advanced

Spanish: Basic

Portuguese: Native

R Language: Advanced

Python: Intermediate

PROFESSIONAL EXPERIENCES

Teaching

Graduate Teaching Assistant in Biology - Department of Biology
Indiana State University (2021-2022), with Dr. Rusty Gonser

Volunteer Teaching in Biology, Preparatory Course – CPVAM
Universidade de São Paulo (2016-2017)

Graduate Teaching Assistant in Molecular Biology – Marine Science Institute
Universidade Federal de São Paulo (2015-2016), with Dr. Igor Medeiros

Graduate Teaching Assistant in Genetics – Marine Science Institute
Universidade Federal de São Paulo (2015-2016), with Dr. Fernando Mendonça

Research

Research Assistant, Casey Lab – Molecular Trophic Ecology
University of Texas At Austin, Marine Science Institute (Sep 2022 – present)

Research Assistant, Gante Lab – Eco-Evo-Devo of fishes
Indiana State University – Department of Biology (Jan 2021 – May 2022)

Research Assistant, Laboratório de Genética Pesqueira e Conservação
Universidade Federal de São Paulo (2015 – 2020)

HONORS AND AWARDS

2021 Young Professional Recruitment Fund – American Elasmobranch Society

2021 Graduate Student Research Grant, CGPS – Indiana State University –
Summer Research funding

2021 Graduate Student Research Grant, CGPS – Indiana State University. Body size
across macropredators – ecological and evolutionary implications.

SCHOLARSHIPS

2022 Doctoral Discovery Fellowship (USA) – University of Texas Marine Science Institute

2020 Master's degree Scholarship (USA) – Indiana State University

2018 CAPES Scholarship (BR) – Master's degree scholarship, Universidade Estadual Paulista

2017 CNPq Scholarship (BR) - Undergraduate research, Universidade Federal de São Paulo

2016 FAPESP Scholarship (BR) – Undergraduate research, Universidade Federal de São Paulo

PUBLICATIONS

(In prep). Alvarenga, M, **Bunholi, IV**, Brito, GR, Charvet, P, Domingues, RR, Siqueira, MVBM, Cruz, VP. Years of extensive and inadvertent consumption of endangered sharks and rays in Brazil unraveled through DNA analysis: How can we do better? In preparation for submission to *Conservation Biology*

(In Prep). **Bunholi, IV**, Mondal, N, Gante, H. Variation in genome size and body size across teleosts. In preparation for submission to *Evolution*

(Under review). **Bunholi, IV**, Foster, N, Casey, JM. Environmental DNA and RNA in aquatic community ecology: toward methodological standardization. *Environmental DNA*

2023. Chini, DS, Mondal, N, Kar, A, **Bunholi, IV**, Singh, S, Ghosh, P, ... & Patra, BC. (2023). Seasonal Variability of Marine Fish Diversity in Relation to Water Quality of East Midnapore Coast of West Bengal, India. *Ocean Science Journal*, 58(2), 13.

2021. **Bunholi, IV**, Ferrette, BLS, Domingues, RR, Rotundo, MM, Cuevas, JM, García, M, Gómez, S, Freitas, RHA, Oliveira, C, Foresti, F, Mendonça, FF. Multilocus phylogeography of the endemic and endangered angular angelshark (*Squatina guggenheim*) in the Southwest Atlantic Ocean. *Hydrobiologia*. 849(9), 2177-2192

2021. Banerjee, P, Stewart, K, Antognazza, C, **Bunholi, IV**, Deiner, K, Barne, M, Saha, S, Verdier, H, Doi, H, Maity, JP, Chan, W, Chen, CY. Plant-animal interactions in the era of environmental DNA (eDNA) – a review. *Environmental DNA*, 4(5), 987-999

2021. Domingues RR, **Bunholi, IV**, Pinhal, D, Antunes, A, Mendonça, FF. From molecule to conservation: DNA-based methods to overcome frontiers in the shark and ray fin trade. *Conservation Genetic Resources*. 1-17.

2019. Ferrette, BLS, Domingues, RR, Rotundo, MM, Miranda, MP, **Bunholi, IV**, Biasi, JB, Oliveira, C, Foresti, F, Mendonça, FF. 2019. DNA Barcode reveals the bycatch of endangered Batoids Species in the Southwest Atlantic: implications for sustainable fisheries management and conservation efforts. *GENES*. 10(4), 304.

2018. **Bunholi, IV**, Ferrette, BLS, Biasi, JB, Magalhães, CO, Rotundo, MM, Oliveira, C, Foresti, F, Mendonça, FF. The fishing and illegal trade of the angelshark: DNA barcoding against misleading identifications. *Fisheries Research*. 206, 193-197.

Book Chapter

2021. **Bunholi, IV**. Cação-anjo – Tubarões ou realmente anjos? In book: Encontros e Desencontros com Tubarões e Raias: Uma História (Não) contada por Pesquisadores Brasileiros. Associação MarBrasil. ISBN 978-65-00-157642

CONFERENCE RESEARCH PRESENTATIONS

2023 **Bunholi, IV**. Environmental DNA and RNA in community ecology across the tree of life: a methodological review - 6th Annual Environmental DNA Technical Exchange Workshop – Oral presentation

2022 **Bunholi, IV**. Machine learning e conservação: previsão de categorias de ameaça em elasmobrânquios com dados deficientes – III ELASMulheres – Oral presentation

2021 **Bunholi, IV**. Genetic population structure of the angular angelshark, *Squatina guggenheim*, an endangered endemic species from Southwest of the Atlantic Ocean. Virtual Evolution – Society for the Study of Evolution – Oral presentation.

2021 **Bunholi, IV**. Genetic population structure of the angular angelshark, *Squatina guggenheim*, an endangered endemic species from Southwest of the Atlantic Ocean. II Virtual Meeting of Systematics, Biogeography and Evolution – Oral presentation.

2019 **Bunholi, IV**. Genetic population structure of the angular angelshark, *Squatina guggenheim*, an endangered endemic species from Southwest of the Atlantic Ocean. Brazilian-International Congress of Genetics, BR – Poster presentation.

2018 **Bunholi, IV**. DNA Barcode Reveals the Bycatch of Endangered Batoids Species in the Southwest Atlantic: Implications for Sustainable Fisheries Management and Conservation Effort. XVIII Symposium on Cytogenetics and Fish Genetics – Poster presentation.

2018 **Bunholi, IV**. The fishing and illegal trade of the angelshark: DNA barcoding against misleading identification. Sharks International Conference, BR – Poster presentation.

2016 **Bunholi, IV**. The fishing and illegal trade of the angelshark: DNA barcoding against misleading identification. Brazilian-International Congress of Genetics, BR – Poster presentation.

INVITED TALKS

2022 **Bunholi, IV** & Alvarenga, M. Cruzando o Oceano para descomplicar os desafios de fazer pesquisa no exterior – III Simpósio de Biotecnologia da Unifesp Baixada Santista

2021 **Bunholi, IV**. Podcast episode about how to get opportunities to study abroad – Canoa Unifesp.

2021 **Bunholi, IV**. From molecule to conservation: DNA-based methods to overcome frontiers in the shark and ray fin trade. Universidade Estadual Paulista, Brazil.

2020 **Bunholi, IV**. Genetic markers and biotechnological development aiding species conservation. Universidade Federal de São Paulo, Brazil.

FIELD EXPERIENCE

- 2023 American Academy of Underwater Sciences (AAUS) Scientific Diver
- 2023 Certified in CPR, First Aid, and Oxygen Administration – Divers Alert Network
- 2023 SSI Rescue and Stress Diver
- 2022 SSI Open Water Diver

SERVICE ACTIVITIES

Volunteer work

2019 – Instituto Mar Azul. Cleaning up beaches and environmental education for the community.

2018 – Projeto Condomínio Sustentável. Environmental education for the community.

Thesis Defense Committee

2021 Member, bachelor's degree in marine science – Federal University of São Paulo

Peer Reviewing for Scientific Journals

Neotropical Ichthyology

Review in Fish Biology and Fisheries

Oecologia Australis

Conservation Genetics Resources