

# Fernanda Carolina da Silva

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## PROFESSIONAL INTERESTS & SKILLS

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Currently working with Dr. Sergio Floeter at the Marine Macroecology and Biogeography Lab, Universidade Federal de Santa Catarina, Brazil, and with Dr. Juan Pablo Quimbayo. My main interest is understanding how global changes impact functional diversity in coral reef fishes. I use multivariate statistical analysis including trait measures as indicators for the status of the communities on a temporal scale. Overall, the focus of my work is to explore potential drivers of the temporal trend communities by using linear and non-linear models combined with satellite data such as sea surface temperature, decadal oscillations, and temperature anomalies.

## EDUCATION

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2019 – present PhD student in Ecology, UFSC, Brazil.

2016 – 2018 Master in Evolutionary Biology, UEPG, Brazil.

2012 – 2015 Bachelor in Biological Sciences, UEPG, Brazil.

## COMPLEMENTARY EDUCATION

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2021 – 2022 PhD guest student at the Technical University of Denmark DTU supervised by Dr. Martin Lindegren

2019 Functional Diversity Course. Universidade Federal de Goiás (UFG). Goiânia, Brazil.

2019 Reef fish Ecology and Evolution. Universidade Federal Fluminense. Arraial do Cabo, Brazil.

## SCHOLARSHIPS & FUNDING

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2021 – Present Federal University of Santa Catarina (UFSC). PhD Scholarship - Mission Atlantic Project (grant agreement No. 862428)

2022 Technical University of Denmark (DTU). Mobility Program - Mission Atlantic Project (grant agreement No. 862428)

2021 – 2022 Technical University of Denmark (DTU). Guest PhD Scholarship - Coordination of Superior Level Staff Improvement (CAPES-Print).

2019 – 2021 Federal University of Santa Catarina (UFSC). PhD Scholarship - Coordination of Superior Level Staff Improvement (CAPES).

2016 – 2018 State University of Ponta Grossa (UEPG). Master Scholarship - Coordination of Superior Level Staff Improvement (CAPES).

2012 – 2015 State University of Ponta Grossa (UEPG). Scientific Initiation Program – Araucária Foundation.

## PUBLICATIONS

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### *Published*

Quimbayo JP, **Silva FC**, Barreto CR, Pavone CB, Lefcheck JS, Leite K, Figueiroa AC, Correia EC, Flores AAV. (2022). The COVID-19 pandemic alters illegal fishing activities inside and outside a marine protected area. *Current Biology*.

Quimbayo JP, **Silva FC**, Mendes TC, Ferrari DS, Danielski SL, Bender MG, Parravicini V, Kulbicki M. & Floeter SR. (2021). Life-history traits, geographical range and conservation aspects of reef fishes from the Atlantic and Eastern Pacific. *Ecology (Data Papers)*. DOI: 10.1002/ecy.3298.

**Silva FC**, Ferreira Jr A, Artoni R, Bessa E. (2020). Impact of feeding fish as a tourist attraction on a coral reef invertivorous fish's diet and growth. *Aquatic Conservation: Marine and Freshwater*

Ecosystems, 30 (12), 2327-2335. DOI: 10.1002/aqc.3398.

**Silva FC**, Moleta M, Anjos CA, Shade GM, Staichak G, Tozetto L, Farion I, Costa DA, Castilho L, Bessa E. (2020). Testing traditional hypotheses about prey capture efficiency in orb-web spiders. *Journal of Ethology*, 1-6. DOI: 10.1007/s10164-020-00663-1.

Bessa E, **Silva FC**, Sabino J. Impacts of fish tourism. In: *Ecotourism's promise and peril*. Springer, Cham, 2017. p. 59-72. DOI: 10.1007/978-3-319-58331-0\_5.

#### *In Review*

**Silva FC**, Floeter SR, Lindegren M, Quimbayo JP. Warming induced changes in reef fish community traits in the Southwestern Atlantic transition zone. *Ecography*, Invited resubmission.

Quimbayo JP, Nunes LT, **Silva FC**, Anderson AB, Barneche DR, Canterle AM, Cord I, Dalben A, Ferrari DS, Fontoura L, Fiuza TMJ, Liedke AMR, Longo GO, Morais RA, Siqueira AS Floeter SR. TimeFISH: Long-term assessment of reef fish assemblages in a transition zone in the Southwestern Atlantic. Submitted to *Ecology*.

Scherer MEG, Sardinha GD, Souza V, Gandra TBR, Floeter SR, Liedke AMR, Ricci AR, Bonetti J, Gomes V, Fernandes L, Ferrari DS, **Silva F**, Conti LA, Gasalla MA. Under Pressure: an integrated assessment of human activities and their potential impact on the ecosystem components of the Southern Brazilian continental shelf. *Frontiers in Marine Science*. Invited resubmission.

Rodrigues AR, Floeter SR, Gomes V, Ferrari DS, Giglio VJ, **Silva F**, Liedke A, Ferreira CEL, Howell K, Gasalla MA. Integrated Ecosystem Assessment around islands of the tropical South Mid-Atlantic Ridge. Submitted to *Frontiers in Marine Science*. Invited resubmission.

Luza A, Cordeiro C, Barneche D, Quimbayo J, **Silva F**, Giglio V, Mendes T, Waechter L, Picolotto, Floeter S, Ferreira CE, Dambros C, Luiz O, Longo G, Bender M. Going cross-taxa in functional ecology: a conceptual framework. Submitted to *Functional Ecology*.

## **TEACHING EXPERIENCE**

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### *Mini-courses*

2018 Neotropical Fishes – XXIX SAEB by UEPG.

2018 Ecology and Evolution of Fish – CESB by UNESPAR.

2017 Ecology and Evolution of Neotropical Fishes: theoretical and practical aspects - I Winter Course in Evolutionary Biology by PPG BioEvol/UEPG.

### *Lectures*

Undergraduate Classes:

2020 Teaching Assistant in Vertebrate Zoology UFSC under supervision by Dr. Sergio Floeter

2019 Macroecology and diversity indexes - IX Winter Course in Ecology by PPGECO/UFSC.

2018 Anthropogenic influence on richness and extinction patterns of species – General Ecology in Biological Sciences Undergraduate Degree at UEPG.

2018 Threats to Biodiversity – General Ecology in Biological Sciences Undergraduate Degree at UEPG.

## **ADVISING**

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### *Scientific Initiation*

2017 Erick Parize. Biochemistry characterization and molecular identification of Plant Growth-

Promoting Bacteria. Universidade Estadual de Ponta Grossa. Supervisor: Dra. Carolina Weigert Galvão.

2017 Nathaly Cristine Telles. Isolation and biochemistry analysis of Plant Growth-Promoting

Bacteria. Supervisor: Dra. Carolina Weigert Galvão.

## **LANGUAGES**

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Portuguese	Mother tongue
English	Fluent speaking, reading, writing and listening
Spanish	Basic speaking, reading and listening