








Luiza Waechter Severo

Waechter, L.S.
Ph. D. Student

SHORT CURRICULUM VITAE

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1. EDUCATION

- 2020 - present Ph. D. candidate in Animal Biodiversity at Universidade Federal de Santa Maria, Brazil.
- 2018 - 2020 MSc in Animal Biodiversity at Universidade Federal de Santa Maria, Brazil.
- 2013 - 2017 Bachelor in Biological Sciences at Universidade Federal de Santa Maria, Brazil.

2. PROFILE

During my first years of graduation, I studied the macroinvertebrates of Rio Grande do Sul region, focusing in larvae identification, taxonomy and the environmental conditions required by the organisms for its development. In the last years, I studied the effectiveness of Conchostráceos as bioindicators in the Upper Triassic at Santa Maria, Rio Grande do Sul. In my master degree, I have shifted by research interests to marine ecosystems, and I investigated the ecosystem functions delivered by Atlantic Ocean reef marine vertebrate species and mapped the patterns of functional redundancy and identified functional hotspots. Currently in my thesis project, I will investigate the aesthetic value of Brazilian reef fish and underwater and out-of-the-water seascape. I also have interests in analyzing how much reef fish contribute economically to both provisioning (i.e., fishing) and cultural (i.e., diving) ecosystem services. Finally, I also aim to investigate what are the ecosystem services of fish in the Amazon rainforest, making a parallel with the services produced by reef fish.

3. MAIN AIMS

My main aim is to investigate which are the most aesthetically valued Brazilian reefs, to analyze the economic values of fish species killed as fish or alive in diving, and finally to understand what are the ecosystem services produced by Amazonian fish, in addition to assessing their main threats.

4. CONGRESS PRESENTATIONS

WAECHTER, LUIZA S.; DAROSA, A. A. S.. Conchostráceos como possíveis paleoindicadores ambientais do Triássico Superior, Santa Maria, RS, Brasil. In: Paleo RS, 2016, Santa Maria. Paleo RS 2016, 2016. Poster presentation.

WAECHTER, LUIZA S.; DAROSA, A. A. S. . ESTUDO PRELIMINAR DE CONCHOSTRÁCEOS FÓSSEIS DO AFLORAMENTO PASSO DAS TROPAS, TRIÁSSICO SUPERIOR, SANTA MARIA, RS, BRASIL. In: 32º Jornada Acadêmica Integrada, 2017, Santa Maria. 32º Jornada Acadêmica Integrada, 2017. Poster presentation.

WAECHTER, LUIZA S.; DAROSA, A. A. S. . Conchostráceos fósseis do afloramento Passo das Tropas, Triássico Superior, Santa Maria, RS, Brasil. In: Reunião Anual da Sociedade Brasileira de Paleontologia-Núcleo Rio Grande do Sul (PALEO RS 2017), 2017, Rio Grande. Reunião Anual da Sociedade Brasileira de Paleontologia-Núcleo Rio Grande do Sul (PALEO RS 2017), 2017. Poster presentation.

WAECHTER, LUIZA S.; MAXWELL, MELINA F. ; BENDER, MARIANA G. . Além da extinção: perda de funções ecossistêmicas associadas ao declínio populacional de tartarugas marinhas. In: VI Simpósio Acadêmico de Biologia Marinha, 2018, Osório. VI Simpósio Acadêmico de Biologia Marinha, 2018. Poster presentation.

WAECHTER, LUIZA S.; BENDER, MARIANA G. . 'Hotpots funcionais' e redundância de vertebrados marinhos no Oceano Atlântico. In: 1º Simpósio de Biologia e Conservação Marinha, 2019, Niterói. 1º Simpósio de Biologia e Conservação Marinha, 2019. Oral presentation.

WAECHTER, LUIZA S.; BENDER, MARIANA G. . Redundância de vertebrados marinhos no Oceano Atlântico: a importância das espécies ameaçadas no funcionamento dos recifes. In: VII Simpósio de Biodiversidade, 2019, Santa Maria. VII Simpósio de Biodiversidade, 2019. Oral presentation.

5. MANUSCRIPTS

WAECHTER, L. S., LUIZ, O. J., LEPRIEUR, F., & BENDER, M. G. (2021). Functional biogeography of marine vertebrates in Atlantic Ocean reefs. *Diversity and Distributions*, 28(8), 1680-1693.

CERETTA, B. F., FOGLIARINI, C. O., GIGLIO, V. J., MAXWELL, M. F., **WAECHTER, L. S.,** & BENDER, M. G. (2020). Testing the accuracy of biological attributes in predicting extinction risk. *Perspectives in Ecology and Conservation*, 18(1), 12-18.

In prep.

Waechter, Luiza S., André Luza, Cristian Dambros, Mário Almeida-Neto and Mariana Bender. “The aesthetic value of Brazilian reefs: from underwater wildlife to reef seascape components?” (in prep.).

Waechter, Luiza S., Mário Almeida-Neto, Linda Eggertsen, André Luza and Mariana Bender. “The economic value of fish in and out of water on Brazilian refs.” (in prep.).

6. OTHER RELEVANT INFORMATION

• Languages

Portuguese (native language)

English (advanced reading, speaking and writing)

Spanish (basic reading, speaking and writing)

Certified by the author on 5th Jan 2023