



Alexandre Marcel da Silva Machado

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HIGHER EDUCATION

2019-2023: PhD student at the Graduate Programme in Ecology, Universidade Federal de Santa Catarina, Brazil

PhD Thesis: The influence of individual heterogeneity in the dynamics of dolphin-fishermen foraging and the implications for the dolphin population
Supervisory committee: Prof. Dr Fábio Gonçalves Daura-Jorge; Dr. Mauricio Cantor

2016-2018: Master of Science (M.Sc.) in Ecology, Universidade Federal de Santa Catarina, Brazil

Master's Thesis: The contribution of individual traits in shaping the bottlenose dolphin society's that forages cooperatively with artisanal fishermen
Supervisory committee: Prof. Dr Fábio Gonçalves Daura-Jorge; Dr. Mauricio Cantor

2010-2015: Bachelor of Science (B.Sc.) in Biological Sciences, Universidade Federal de Santa Catarina, Brazil

Honour's Thesis: The dolphin-human cooperative fishing in Laguna, southern Brazil, under an Ecosystem Services approach
Supervisory committee: Prof. Dr. Nivaldo Peroni, M.Sc. Dannieli Firme Herbst, Prof. Dr. Fábio G. Daura-Jorge

SKILLS

Coding and reproducibility

📊 R Programming Language
📄 Markdown
🔗 Git

Abilities

🚁 UAV Pilot
📊 Statistics
🌐 Social Network Analysis

RESEARCH EXPERIENCE

2018-2019

Scholarship for Research linked to Projects: Photo-identification of cetaceans in the Santos Basin. Universidade Federal de Santa Catarina, Brazil.

2013-present

Research volunteer at the Aquatic Mammals Laboratory. Universidade Federal de Santa Catarina, Brazil.

2015-2015

Ethnoecological study of *Butia catarinensis* Noblick & Lorenzi in Laguna, Southern Brazil. Universidade Federal de Santa Catarina, Brazil.

2013-2015

Study on the Ecosystem Services from the dolphin-human cooperative fishing in Laguna, southern Brazil. Universidade Federal de Santa Catarina, Brazil.

BIBLIOGRAPHIC PRODUCTION

Articles published (2)

2. **Machado, A.M.S.**, Cantor, M., Costa, A.P.B., Righetti, B.H.P., Bezamat, C., Valle-Pereira, J.V.S., Simões-Lopes, P.C., Castilho, P.V., Daura-Jorge, F.G. 2019. Homophily around specialized foraging underlies dolphin social preferences. *Biology Letters*. 15: 20180909. <http://dx.doi.org/10.1098/rsbl.2018.0909>.
1. **Machado, A.M.S.**, Daura-Jorge, F.G., Herbst, D.F., Simões-Lopes, P.C., Ingram, S.N., Castilho, P.V. & Peroni, N. 2019. Artisanal fishers' perceptions of the ecosystem services derived from a dolphin-human cooperative fishing interaction in southern Brazil. *Ocean & Coastal Management*. 173: 148–156. <https://doi.org/10.1016/j.ocecoaman.2019.03.003>.

Book Chapters (7)

7. Peres, L.M., Gouvêa, L., Teixeira, C.R., **Machado, A.M.S.**, & Freitas, R.H.A. Comportamento agonístico em crustáceos do gênero *Aegla*. In: Hayata et al. (eds) *Ecologia de campo: Ambientes costeiros e montanos*. 1. ed. Florianópolis, Editora da UFSC. 2018. p. 300-311.
6. **Machado, A.M.S.**, Decarli, C.J. & Giehl, E.L.H. "O que não mata, fortalece": Resposta à herbivoria em *Guapira opposita* em restinga e Floresta Ombrófila Densa. In: Freitas et al. (eds) *Ecologia de campo: Serra e Litoral Catarinense*. 1. ed. Florianópolis, Editora da UFSC. 2016. p. 271-284 (portuguese).
5. Cruz, A.P., Decarli, C.J., Klug, J.E., **Machado, A.M.S.**, Segal, B. & Freitas, R.H.A. Diferentes condições de hidrodinamismo afetam a abundância de caranguejos ermitões e o tipo de concha utilizada? In: Freitas et al. (eds) *Ecologia de campo: Serra e Litoral Catarinense*. 1. ed. Florianópolis, Editora da UFSC. 2016. p. 219-235 (portuguese).
4. **Machado, A.M.S.**, Cruz, A.P., Decarli, C.J., Klug, J.E., Silva, A.L.L. & Tonetta, D. Variação espacial da produção primária e respiração em um sistema lacustre. In: Freitas et al. (eds) *Ecologia de campo: Serra e Litoral Catarinense*. 1. ed. Florianópolis, Editora da UFSC. 2016. p. 207-218 (portuguese).
3. Klug, J.E., Cruz, A.P., **Machado, A.M.S.**, Decarli, C.J., Silva, A.L.L. & Silveira, T.C.L. Continue a nadar, continue a nadar: padrões ecomorfológicos de peixes de riacho em diferentes ambientais. In: Freitas et al. (eds) *Ecologia de campo: Serra e Litoral Catarinense*. 1. ed. Florianópolis, Editora da UFSC. 2016. p. 99-119 (portuguese).
2. Decarli, C.J., Klug, J.E., Cruz, A.P., **Machado, A.M.S.** & Hernández, M.I.M. Distribuição espacial de coleópteros em um mosaico de floresta e campo: particionando a diversidade beta. In: Freitas et al. (eds) *Ecologia de campo: Serra e Litoral Catarinense*. 1. ed. Florianópolis, Editora da UFSC. 2016. p. 89-98 (portuguese).
1. Decarli, C.J., **Machado, A.M.S.**, Cruz, A.P., Klug, J.E. & Hanazaki, N. Efeitos da presença do gado sobre o estrato herbáceo em um mosaico de paisagens culturais. In: Freitas et al. (eds) *Ecologia de campo: Serra e Litoral Catarinense*. 1. ed. Florianópolis, Editora da UFSC. 2016. p. 27-38 (portuguese).

Book Organized (1)

1. Freitas, R.F., **Machado, A.M.S.**, Silva, A.L.L., Silveira, T.C.L. & Giehl, E.L.H. (Organizers) . *Ecologia de campo: Serra e Litoral Catarinense*. 1. ed. Florianópolis: PPG Ecologia UFSC, 2017. 363p. Florianópolis, Editora da UFSC, ISBN: 978-85-64093-61-4

ACADEMIC EXPERIENCE

Supervision of undergraduate students (1)

2019 | Aline Giovanella | Co-supervisor, Honors thesis in Oceanography

Spatio-temporal variation of artisanal mullet (*Mugil liza*) fishery by beach seine in Santa Catarina.
Supervisor: Prof. Dr. Fábio Gonçalves Daura Jorge
Universidade Federal de Santa Catarina, Brazil.

TEACHING EXPERIENCE

2017 | Teaching assistance | Nov. 20-22th

Giehl, E.L.H. & Machado, A.M.S. Tools and solutions for preparing manuscripts (15h).
Course at the Graduate Program in Ecology, Universidade Federal de Santa Catarina,
Florianópolis, Brazil.

2017 | Workshop | Sep. 9th

An introduction to R programming language (4h).
2ª Semana Científica da UDESC Laguna, Laguna, Brazil.

2017 | Workshop | Jun. 24-25th

Giehl, E. L. H. & Machado, A. M. S. Tools and solutions for preparing manuscripts (15h).
Universidade Federal de Santa Catarina, Florianópolis, Brazil.

2016 | Talk | Jul. 27th

Fisheries Ecology (2h).
VI Curso de Inverno em Ecologia, Universidade Federal de Santa Catarina, Florianópolis, Brazil.

TALKS & POSTERS

2020 | Talk | Feb. 19th

Homophily around specialized foraging underlies dolphin social preferences.
15th Annual Meeting of the Ethological Society, Tübingen, Germany.

2019 | Talk | Apr. 18th

Behavioral specialization and the complexity of animal societies: what social network analyzes reveal
Symposium on Complexity of Biological Systems, Universidade Federal de Santa Catarina,
Florianópolis, Brazil.

2017 | Talk | Apr. 7th

Fishermen's perceptions of ecosystem services towards a dolphin-human cooperative artisanal fishing in Southern Brazil.
II Encontro Internacional para a pesquisa e conservação de *Tursiops* spp. no Atlântico Sul Ocidental.

2015 | Poster | Oct. 21st

Ethnoecological study of *Butia catarinensis* Noblick & Lorenzi in Laguna, Southern Brazil.
25º Seminário de Iniciação Científica, Universidade Federal de Santa Catarina, Florianópolis, Brazil.

FUNDING AWARDS

2019: Animal Behaviour Society Developing Nations Award.

2017: Animal Behaviour Society Student Research Grant.

2016: Grants in aid of research, The Society for Marine Mammalogy.