

Educational & Training

Education

- 2013-2017. **Ph.D. Ecology.** *Universidade Federal de Santa Catarina*, Florianópolis, SC, Brazil.
- 2011-2013. **M.Sc. Ecology.** *Universidade Federal de Santa Catarina*, Florianópolis, SC, Brazil.
- 2004-2009. **B.Sc. Marine Biology.** *Universidad del Valle*, Colombia, Cali, VC, Colombia.

Training

- 2022-2024 **Researcher Scientist**, *The Ohio State University*, Columbus, OH, United States. Spatio-temporal scaling of avian diversity change.
- 2021-2022 **Postdoctoral researcher**, *Smithsonian Environmental Research Center*, Edgewater, MD, United States. Linking climate change and the past, present, and future of fish communities
- 2019-2021 **Postdoctoral researcher**, *Centro de Biologia Marinha, University de São Paulo*, São Sebastião, SP, Brazil. Climate drivers of reef fish functional diversity in the Atlantic Ocean.
- 2017-2019 **Postdoctoral researcher**, *Universidade Federal Fluminense*, Niterói, RJ, Brazil. Temporal trends fish populations in oceanic islands.

Publications

54. Gutierrez L, Polidoro B, Obura D, Cabada-Blanco F, Petterson E, Pearce-Kelly P, Kempainen K, Linardich C, Alvarado JJ, Alvarez-Filip L, Banaszak A, Casado de Maezua P, Crabbe J, Croquer A, Feingold J, Goergen E, Goffredo S, Hoeksema B, Huang D, Kennedy E, Kitahara M, Kruzic P, Miller M, Nunes F, **Quimbayo JP**, Rivera-Sousa A, Rodriguez-Marinez R, Santodomingo N, Sweet M, Vermeij M, Villamizar E, Aeby G, Alliji K, Couce E, Cowburn B, Porter S, Shlesinger T, Bayley D, Wilson B, Nuñez-Lendo CI, Samimi-Namin K. (2024). Half of Atlantic reef-building corals at elevated risk of extinction due to climate change and other threats. *PlosOne*. (Accepted).
53. **Silva FC, **Quimbayo JP**, Dencker TS, Pecuchet L, Floeter SR, Lindegren M. (2024). No sign of homogenization in reef fish communities across an ecological transition zone exposed to warming. *Diversity and Distributions*. (Accepted).
52. Luza AL, Bender MB, Ferreira CEL, Floeter SR, Francini-Filho RB, Longo GO, Pinheiro HT, **Quimbayo JP**, Bastazini VAG (2024). Coping with Collapse: Functional Robustness of Coral-Reef Fish Network. *Global Change Biology*. (Accepted).
51. Bolter JP, **Silva FC, **Quimbayo JP**, Floeter SR. (2024). Broken expectations: the population decline of a key grouper species within a 30-year-old no-take MPA in the southwestern Atlantic. *Ocean and Coastal Management*. 257:107318.
50. **Quimbayo JP**⁺, Murphy S, Jarzyna M. (2024) Functional reorganization of North American wintering avifauna. *Ecology Letters*. 27: e14430
49. **Barreto CR, **Quimbayo JP**, Mendes TC, Cordeiro CMM, Flores AAV. (2024). Spatial structure and potential processes linking pelagic and benthic communities in a protected reef ecosystem in SE Brazil. *Marine Ecology Progress Series*. (Accepted).
48. Eggertsen L, Luza A, Cordeiro CMM, Dambros C, Dias MS, Ferreira CEL, Floeter SR, Francini-Filho RB, Freire K, Gasalla M, Giarrizzo T, Giglio VJ, Hanazaki N, Lopes P, Longo GO, Luiz OJ, Magris R, Mendes TC, Pinheiro HT, **Quimbayo JP**, Reis-Filho JA, Vila-Nova D, Bender MG. (2024). Complexities of reef fisheries in Brazil: a retrospective and functional approach. *Review in Fish Biology and Fisheries*. 34: 511-538. DOI: 10.1007/s11160-023-09826-y.

47. Teles JN, Peres PA, Jimenez LCZ, Mantelatto FL, **Quimbayo JP**.⁺ (2024) Congruence among taxonomic, functional, and phylogenetic diversity of mangrove crabs on the Southwestern Atlantic. *Marine Biology*. 171: 25. DOI: 10.1007/s00227-023-04326-w.
46. Waechter L, Luza AI, Eggertsen L, Dambros C, Almeida-Neto M, **Quimbayo JP**, Hanazaki N, Longo GO, Giglio VJ, Cordeiro CAMM, Mendes TC, Luiz, OJ, Bender MG, Pinheiro HT (2024). The aesthetic value of Brazilian reefs: From species to seascape. *Ocean and Coastal Management*. 247: 106882.
45. Luza A, Barneche D, Cordeiro CAMM, Dambros C, Ferreira CEL, Floeter SR, Giglio V, Luiz OJ, Mendes TC, Picolotto V, **Quimbayo JP**, ^{**}Silva FC, Waechter L, Longo GO, Bender MG. (2023). Going across taxa in functional ecology: review and perspectives of an emerging field. *Functional Ecology*. 37(12): 3091-3110. DOI: 10.1111/1365-2435.14442.
44. Dubuc A, ^{*}**Quimbayo JP**⁺, Alvarado JJ, Araya-Arce T, ^{**}Arriaga A, Ayala-Bocos A, Casas-Maldonado JJ, Chasqui L, Cortés J, Cupul-Magaña AL, Olivier D, Olán-González M, González-Leiva A, Reyes-Bonilla H, Smith F, Rivera F, Rodríguez-Zaragoza F, Rodríguez-Villalobos JC, Segovia J, Zapata FA, Bejarano S. Patterns of reef fish taxonomic and functional diversity in the Eastern Tropical Pacific. *Ecography*. e06536.
43. **Quimbayo JP**⁺, Freitas R, Rocha LA, Pinheiro HT. Are cleaning interactions offered by large cleaners positive? *Journal of Natural History*. 57:1152-1156.
42. Pinheiro HT, MacDonald C, Santos RG, Bobat A, Cresswell B, Francini-Filho R, Galbraith G, Musembi P, Phelps TA, **Quimbayo JP**, Quiroz AL, Shepherd B, Stefanoudis P, Teixeira JB, Woodall L, Rocha LA. (2023). Plastic pollution peaks in the mesophotic zones of the world's coral reefs. *Nature*. 619: 311-316.
41. Joia LMG, Garcia G, Cordeiro CAMM, Gouveia N, Ferreira CEL, Bender MG, Longo GO, **Quimbayo JP**, Gherardi D. (2023). Complex phylogenetic origin and geographic isolation drive reef fishes response to environmental variability in oceanic islands of the Southwestern Atlantic. *Ecography*. ecog.06559.
40. ^{**}Silva FC, Floeter SR, Lindegren M, **Quimbayo JP**.⁺ (2023). Warming induced changes in reef fish community traits in the Southwestern Atlantic transition zone. *Marine Ecology Progress Series*. 710:107-123.
39. Luza A, Aued AW, Barneche DR, Dias MS, Floeter SR, Ferreira CEL, Francini-Filho RB, Longo GO, **Quimbayo JP**, Bender MG. (2023). Functional diversity patterns of fish, corals, and algae in the Brazilian biogeographic provinces. *Journal of Biogeography*. 50(6): 1163-1176.
38. Pinheiro HT, MacDonald C, **Quimbayo JP**, Shepherd B, Phelps TA, Loss AC, Teixeira JB, Rocha LA. (2023). Assembly rules of coral reef fish communities along the depth gradient. *Current Biology*. 33(8): 1421-1430.
37. **Quimbayo JP**⁺, Nunes LT, ^{**}Silva FC, Anderson AB, Barneche DR, Liedke AMR, Canterle AM, Cord I, Dalben A, Ferrari DS, Fontoura L, Fiuza TMJ, Longo GO, Morais RA, Siqueira AC, Floeter SR. (2023). TimeFISH: Long-term assessment of reef fish assemblages in a transition zone in the Southwestern Atlantic. *Ecology*. e3966.
36. Ferrari DS^{**}, Floeter SR, Leprieur F, **Quimbayo JP**.⁺ (2023). A trait-based approach to marine island biogeography. *Journal of Biogeography*. 50(3): 528-538.
35. Cordeiro CAMM, Aued AW, Barros F, Bastos AC, Bender MG, Mendes TC, Creed J, Cruz ICS, Dias MS, Esteves FA, Fernandes LDA, Countinho R, Gonçalves JEA, Floeter SR, Mello-Fonseca J, Freire AS, Gherardi DFM, Gomes LEO, Lacerda F, Martins RL, Longo GO, Mazzuco ACA, Menezes R, Muelbert JH, Paranhos R, **Quimbayo JP**, Valentin JL, Ferreira CEL. (2022). Long-term monitoring projects of Brazilian marine and coastal ecosystems. *PeerJ*. 10:e14313.
34. Luza A, **Quimbayo JP**, Ferreira CEL, Francini-Filho RB, Bender MG, Longo GO. (2022). Low functional vulnerability to fish assemblages to coral loss in Southwestern Atlantic marginal reefs. *Scientific reports*. 12:17164
33. **Quimbayo JP**⁺, ^{**}Silva FC, ^{**}Barreto CR, Pavone CB, Lefcheck JS, Leite K, Figueiroa AC, Correia E, Flores AAV. (2022). The COVID-19 pandemic has altered illegal fishing activities inside and outside a marine protected area. *Current Biology* 32(14): R765-R766.

32. Maxwell MF, Leprieur F, **Quimbayo JP**, Floeter SR, Bender MG. (2022). Global patterns and drivers of multiple components of beta diversity in reef fish faunas. *Journal of Biogeography* 49: 954–967.
31. **Quimbayo JP**⁺, Mendes TC, Barneche DR, Dias MS, Grutter A, Furtado M, Leprieur F, Pellissier L, Mazzei R, Narvaez P, Sasal P, Soares MC, Parravicini V, Sazima I, Kulbicki M. (2021). Patterns of taxonomic and functional diversity of cleaner reef fish fauna. *Journal of Biogeography* 48(10): 2469-2485.
30. Mazzei EF, Pinheiro HT, Simon T, Moura RL, Macieira RM, Pimentel CR, Batista JT, Floeter SR, Ferreira CEL, Ghisolfi RD, Francini-Filho RB, **Quimbayo JP**, Rocha LA, Gasparini JL, Joyeux JC. (2021). Mechanisms of dispersal and establishment drive a stepping stone community assembly on seamounts and oceanic islands. *Marine Biology* 168: 109.
29. Lima LS, Gherardi DFM, Pezzi LP, Passos LG, Endo CAK, **Quimbayo JP**. (2021). Potential changes in the connectivity of marine protected areas driven by extreme ocean warming. *Scientific reports* 11: 10339.
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27. **Quimbayo JP**⁺, ^{**}Silva FC, Mendes TC, ^{**}Ferrari DS, Danielski S, 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* e03298.
26. Cordeiro CAMM, **Quimbayo JP**, Nunes JACC, Nunes LT, Sissini M, Sampaio CLS, Morais RA, Horta PH, Aued AW, Carraro JL, Hajdu E, Rocha LA, Segal B, Floeter SR. (2021). Conservation status of the southernmost reef of the Amazon Reef System: the Parcel do Manuel Luis. *Coral Reefs* 40: 165-185.
25. Dias MS, Fernades de Faria I, Guarido PCP, Teresa FB, Uchoa de Aquino, PP, **Quimbayo JP**. ⁺ (2020). Direct introductions by humans explain guppy occurrence in Brazil. *Journal of Fish Biology* 96(4): 877-885.
24. Giglio VJ, Suhett AC, Zapelini C, Ramiro AS, **Quimbayo JP**. ⁺ (2020). Assessing capture of recreational spearfishing in the largest reef complex of South Atlantic through social media posts. *Regional Studies in Marine Science* 34: 100995.
23. **Quimbayo JP**⁺, Giglio VJ, Ferreira CEL, Fraga A, Nunes JACC, Mendes TC. (2019). Contrasting feeding and agonistic behaviour of two blenny species on a small and remote island, Equatorial Atlantic. *Journal of Fish Biology* 96(1):74-82.
22. Inagaki KY^{**}, Mendes TC, **Quimbayo JP**, Cantor M, Sazima I. (2019). The structure of fish follower-feeding associations at three oceanic islands in southwestern Atlantic. *Environmental Biology of fishes* 103(1):1-11.
21. **Quimbayo JP**⁺, Dias MS, Kulbicki M, Mendes TC, Lamb RW, Johnson AF, Aburto-Oropeza O, Alvarado JJ, Bocos AA, Ferreira CEL, Garcia E, Luiz OJ, Mascareñas-Osorio I, Pinheiro HT, Rodriguez-Zaragoza F, Sala E, Zapata FA, Floeter SR. (2019). Determinants of Fish Assemblages in Tropical Oceanic Islands. *Ecography* 42(1): 77-87.
20. Nunes JACC, Blumstein DT, Giglio VJ, Barros F, **Quimbayo JP**. ⁺ (2019). Reef fish antipredator behavior in remote islands does not reflect patterns seen in coastal areas. *Ethology Ecology & Evolution* 31(6): 557-567.
19. Mendes TC, **Quimbayo JP**, Bouth H, Silva L, Ferreira CEL. (2019). The omnivorous triggerfish *Melichthys niger* (Bloch, 1786) is a functional herbivore on an isolated Atlantic oceanic island. *Journal of Fish Biology* 95(3): 812-819.
18. Garcia E, Rice, CA, Eernisse DJ, Forgren KL, **Quimbayo JP**, Rouse GW. (2019). Systematic relationships of sympatric pipefishes (*Syngnathus* spp.): A mismatch between morphological and molecular variation. *Journal of Fish Biology* 95(4): 999-1012.
17. **Quimbayo JP**⁺, Cantor M, Dias MS, Grutter AS, Gingins S, Becker JHA, Floeter S.R. (2018). The Global Structure of Marine Cleaning Mutualism Networks. *Global Ecology and Biogeography* 27(10): 1230-1250.

16. Giglio VJ, Pinheiro HT, Bender MG, Bonaldo RM, Costa-Lotufo L, Ferreira CEL, Floeter SR, Freire AS, Gasparini JL, Joyeux JC, Krajewski JP, Lidner A, Longo GO, Lotufo T, Loyola R, Luiz OJ, Macieira RM, Magris RA, Mello TJ, **Quimbayo JP**, Rocha LA, Segal BR, Teixeira JB, Vila-Nova DA, Vilar CC, Zilberberg C, Francini-Filho RB. (2018). Large and remote marine protected areas in the South Atlantic Ocean are flawed and raise concerns: Comments on Soares and Lucas (2018). *Marine Policy* 96: 13-17.
15. Maia HA, Morais RA, **Quimbayo JP**^{*}, Dias SM, Sampaio CLS, Horta PA, Ferreira CEL, Floeter SR. (2018). Spatial patterns and drivers of fish and benthic reef communities at São Tomé Island (Tropical Eastern Atlantic). *Marine Ecology* 36(6): e12520.
14. Aued AW, Smith F, **Quimbayo JP**, Cândido DV, Longo GO, Ferreira CEL, Witman JD, Floeter SR, Segal B. (2018) Large-scale patterns of benthic communities of shallow reef habitats along the Southwestern Atlantic. *PlosOne* 13(6): e0198452.
13. **Quimbayo JP**⁺ and Zapata FA. (2018). Cleaning interactions by gobies on a Tropical Eastern Pacific coral reef. *Journal of Fish Biology* 92(4): 1110-1125.
12. Pinheiro HT, Rocha LA, Macieira RM, Carvalho-Filho A, Anderson AB, Bender MG, Di Dário F, Ferreira CEL, Figueiredo J, Francini-Filho R, Gasparini JL, Joyeux JC, Luiz OJ, Mincarone M, Moura RL, Nunes JACC, **Quimbayo JP**, Rosa R, Sampaio CLS, Sazima I, Simon T, Vila-Nova D, Floeter SR. (2018). Southwestern Atlantic reef fishes: zoogeographic patterns and ecological drivers reveal a secondary biodiversity center in the Atlantic Ocean. *Diversity and Distributions* 24: 951-965.
11. **Quimbayo JP**⁺, ^{**}Schlickmann ORC, Floeter SR, Sazima I. (2018). Cleaning interactions at the southern limit of tropical reef fishes in the West Atlantic. *Environmental Biology of Fishes* 93(4) 1110-1125.
10. Siqueira AC^{**}, **Quimbayo JP**⁺, Cantor M, Silveira RB, Daura-Jorge FD. (2017). Estimating population parameters of longsnout seahorses (*Hippocampus reidi*, Teleostei: Syngnathidae) through mark-recapture. *Neotropical Ichthyology*. 15 (4) e170067.
9. **Quimbayo JP**⁺, Mendes TC, Kulbicki M, Floeter SR, Zapata FA. (2017). Unusual reef fish biomass and functional richness in a remote island in the Tropical Eastern Pacific. *Environmental Biology of Fishes* 100: 149-162.
8. **Quimbayo JP**⁺, Nunes LT, Ozekoski R, Floeter SR, Morais RA, Fontoura L, Bonaldo RM, Ferreira CEL, Sazima I. (2017). Cleaning interactions at the only Atoll in the South Atlantic. *Environmental Biology of Fishes* 100: 865-875.
7. Sampaio CLS, Loiola M, Colman L, **Quimbayo JP**, Miranda R, Reis-Filho A, Nunes JCC. (2017). Cryptobenthic fish as clients of French angelfish *Pomacanthus paru* (Pomacanthidae) during cleaning behavior. *Marine Biodiversity Records* 10:8.
6. Morais RA, Brown J, Bedard S, Ferreira CEL, Floeter SR, **Quimbayo JP**, Rocha LA, Sazima I. (2017). Mob rulers and part-time cleaners: two reef fish associations at the isolated Ascension Island. *Journal of the Marine Biological Association of the United Kingdom* 94(4): 799-811.
5. **Quimbayo JP**⁺, Dias MS, Schlickmann ORC, Mendes TC. (2017). Fish cleaning interactions on a remote island in the Tropical Eastern Pacific. *Marine Biodiversity* 43: 603-608.
4. Anderson AB, Carvalho-Filho A, Morais RA, Nunes LT, **Quimbayo JP**, Floeter SR. (2015). Brazilian tropical fishes in their southern limit of distribution: checklist of Santa Catarina's rocky reef ichthyofauna, remarks and new records. *Check List* 11(4): 1688.
3. **Quimbayo JP**⁺, Zapata FA, Floeter SR, Bessudo S, Sazima I. (2014). Reef fish foraging associations at Malpelo Island, Colombia (Tropical Eastern Pacific). *Boletín de Investigaciones Marinas y Costeras* 43: 183-193.
2. **Quimbayo JP**⁺, Floeter SR, Noguchi R, Rangel CA, Gasparini JL, Sampaio CLS, Ferreira CEL, Rocha LA. (2012) Cleaning mutualism in Santa Luzia (Cape Verde Archipelago) and São Tomé Islands, Tropical Eastern Atlantic. *Marine Biodiversity Records* 5: e118.
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Related Links

Personal website (<https://quimbayojp.weebly.com>)