

# PhD. Pedro Bragança - Curriculum Vitae

---

## PERSONALIA

Name: Pedro Henrique Negreiros de Bragança

Place and date of birth : Curitiba (Brazil), 3 November 1988

Sex : male

Nationality : Brazilian



Main fields of scientific expertise and interest: Neotropical/Amazon Ichthyology, African Ichthyology, Miniaturization, Taxonomy & Systematics, Biogeography, Evolution & Speciation, Species Delimitation. Specialist in the taxonomy of the order Cyprinodontiformes.

## CURRENT POSITION

- ✓ Gerstner Scholar Postdoctoral Research and Axelrod Research Curatorship Fellowship Post-Doc position at the American Museum of Natural History (AMNH) in New York , USA (January 2024 – present).
- ✓ Accredited Professor/Researcher of the Programa de Pós Graduação em Biodiversidade e Conservação da Universidade Federal do Maranhão (Postgraduate Program in Biodiversity and Conservation of the Federal University of Maranhão, Brazil (August 2022 – present).

## UNIVERSITY EDUCATION AND MAIN SCHOLARSHIPS

- ✓ Bachelor degree in Zoology at Universidade Federal do Rio de Janeiro (UFRJ), Brazil; Dissertation entitled: “*Poecilia sarrafae*, a new poeciliid from the Parnaíba and Mearim river basins, northeastern Brazil (Cyprinodontiformes: Cyprinodontoidei)”, in December 2011, under the supervision of Wilson Costa. Bachelor funded by PIBIC-UFRJ, under the supervisor’s project “Sistemática e Biogeografia de peixes teleósteos (Sigma number 6598): R\$ 400.00 per month.

- ✓ Msc. in Biodiversity and Evolution Biology at Universidade Federal do Rio de Janeiro (UFRJ), Brazil; Dissertation entitled: “Taxonomy and phylogenetic analysis of the genus *Fluviophylax*”, in February 2014, under the supervision of Wilson Costa. Msc funded by CNPq-CAPES-PROTAX:562141/2010-3 between 2012-2014: R\$1200.00 per month.
- ✓ Ph.D. in Zoology Department of the Museu Nacional do Rio de Janeiro, Rio de Janeiro, Brazil; Dissertation entitled: “Comparative analysis of the miniaturized procatopodins from South America and Central Africa: a phylogenetic approach (Cyprinodontiformes: Poeciliidae: Procatopodinae)”, in April 2018, under the supervision of Wilson Costa. PhD funded by CNPq between 2014-2018: 141813/2014-8: R\$ 2200.00 per month.
- ✓ Sandwich Ph.D. in the Royal Museum for Central Africa, Tervuren, Belgium. During a nine months period (between 2015-2016) the project was conducted from RMCA under the supervision of Jos Snoeks. Funded by CAPES from 2015-2016: 99999.003613/2015-01: €1300.00 per month.
- ✓ Invited researcher for a short-term period (three months) at the South African Institute of Aquatic Organisms (SAIAB) in Grahamstown, South Africa, in February-May 2019.
- ✓ Post-Doc position at South African Institute of Aquatic Organisms (SAIAB) in Makhanda (former Grahamstown), South Africa (October 2019 – September 2023). ZAR 20000.00 per month.

## LANGUAGE SKILLS

- ✓ Portuguese : excellent (mother tongue)
- ✓ English : very good
- ✓ Spanish : very good
- ✓ French : understanding & reading : good; speaking & writing : moderate knowledge

## RESEARCH SKILLS

- ✓ Specialist in Neotropical and African fish taxonomy
- ✓ Morphological and osteological studies
- ✓ Molecular and phylogenetic analysis
- ✓ Planning and leading field expeditions
- ✓ Research on miniature fishes
- ✓ Biogeography
- ✓ Species Delimitation methods
- ✓ Fish photography

✓ Mitogenomics

## PUBLICATIONS

### PEER-REVIEWED

46. Mutizwa, T., Kadye, W., **Bragança, P.H.N.**, Bere, T., Chakona, A. Hidden in the riffles: a new suckermouth catfish (Mochokidae, *Chiloglanis*) from the middle Zambezi River system, Zimbabwe. Submitted to Zookeys. Accepted.
45. Campos, D.S., Oliveira, R.F., Vieira, L. O., **Bragança, P. H.N.**, Nunes, J. L.S., Guimarães, E.C., Ottoni, F.P. 2023. Revisiting the debate: documenting biodiversity in the age of digital and artificially-generated images. *Web Ecology* 23(2): 135-144.
44. **Bragança, P. H. N.**, Jouke, Van der Zee., Lobel, P. S., Schliewen, U. 2023. Osteology and redescription of the miniature lampeye species of *Congopanchax* Poll, 1971 (Cyprinodontiformes: Procatopodidae) with an updated list and overview of the African freshwater miniature fishes. *Spixiana* 46(1): 91-118.
43. Schmidt, R.C., **Bragança, P.H.N.**, Friel, J.P., Pezold, F., Tweddle, D., Henry, L.B.Jr. 2023. Two New Species of Suckermouth Catfishes(Mochokidae: *Chiloglanis*) from Upper Guinean Forest Streams in West Africa. *Ichthyology & Herpetology*, 111(3) : 376-389. <https://doi.org/10.1643/i2022067>.
42. Ottoni, F.P., South, J., Azevedo-Santos, V.M., Henschel, E., **Bragança, P.H.N.** 2023. Editorial: Freshwater biodiversity crisis: Multidisciplinary approaches as tools for conservation. *Frontiers in Environmental Sciences*, 11:1155608.doi: 10.3389/fenvs.2023.1155608
41. Emmanuel Abwe, E., Snoeks, J., Manda, B. K., Pacifique, K. M., Lewis, N. K., Kipanga, K., Christian, M. M., Kayaba, M. K. I., **Bragança, P. H. N.**, Manda, A. C., Vreven, E. J. W. M. N. 2023. Checklist of the fishes of the Kundelungu National Park (upper Congo Basin, DR Congo): species diversity and endemism of a poorly known ichthyofauna. *Diversity* 15(2): 259-296.
40. Vieira, L.O., Campos, D.S., Oliveira, R.F., South, J., Coelho, M.S.P., Paiva, M.J.S., **Bragança, P.H.N.**, Guimarães, E.C., Katz, A.M., Brito, P.S., Santos, J.P., Ottoni, F.P. 2023. Checklist of the fish fauna of the Munim River Basin, Maranhão, north-eastern Brazil. *Biodiversity Data Journal* 11: e98632.
39. Swartz, E.R., **Bragança, P.H.N.**, Rall, J.L., Kubheka, S.P., Bloomer, P., Skelton, P.H., Chakona, A. 2022. Conservation of evolutionary patterns and processes in the Maloti minnow, (*Pseudobarbus quathlambae*, Cyprinidae, Smiliogastrini) a narrow-range stream fish imperilled by water transfer scheme developments in the Lesotho Highlands. *Hydrobiologia* 850(2): 1-13. <https://doi.org/10.1007/s10750-022-05069-3>

- 38. Bragança, P.H.N.**, Bellstedt, D.U., van der Merwe, P. De Wet., Cotterill, F.P.D., Watters, B.R., Chakona, A. 2022 *Nothobranchius balamaensis* (Cyprinodontiformes: Nothobranchiidae), a new species of annual killifish from northern Mozambique. *Zootaxa*.5174(5): 508-524.
- 37.** Amorim, P. F., Katz, A. M., Ottoni, F. P., **Bragança, P. H. N.** 2022. Genetic structure of the mangrove killifish *Kryptolebias hermaphroditus* Costa, 2011 (Cyprinodontiformes: Aplocheiloidei) supports a widely connection among its populations. *Zoological Studies* 61: 4 doi:10.6620/ZS.2022.61-04
- 36.** Walsh, G., **Bragança, P. H. N.**, Van der Zee, J. 2021. *Plataplochilus eliasi* (Cyprinodontiformes: Procatopodidae) a new species from the upper Nounbi River in the Republic of the Congo. *Journal of Natural History*, 55:45-46, 2849-2867, DOI: 10.1080/00222933.2022.2027035.
- 35.** Ottoni, F. P., Guimaraes, E. C., Santos, J., Brito, P. S., South, J., **Bragança, P. H. N.** 2021. First record of non-native *Xiphophorus maculatus* (Günther, 1866) (Cyprinodontiformes, Poeciliidae) for the State of Maranhão, northeastern Brazil. *Checklist* 17(6):1615-1622.
- 34. Bragança, P. H. N.**, Ottoni, F. P., Gama, C. S., Henschel, E. L. 2021. Distribution extension of the Small Livebearer Fish, *Poecilia scalpridens* (Garman, 1895) (Cyprinodontiformes, Poeciliidae): a new record for the Jari River drainage, Amapá, Brazilian Amazon. *Checklist* 17(4):1081-1087. DOI: 10.15560/17.4.1081
- 33.** Ottoni, F.P., Hughes, R.M., Katz, A.M., Rangel-Pereira, F.S., **Bragança, P.H.N.**, Fernandes, R., Palmeira-Nunes, A.R.O., Nunes, J.L.S., Santos, R.R., Piorski, N.M., Rodrigues-Filho, J.L. 2021. Brazilian mangroves at risk. *Biota Neotropica* 21(2): e20201172.
- 32. Bragança, P. H. N.**, Skelton, P. H., Bills, R., Tweddle, D. & Chakona, A. 2021. Revalidation and Redescription of "*Lacustricola*" *chobensis* (Fowler, 1935) and Description of a New Miniature "*Lacustricola*" Species from Southern Africa (Cyprinodontiformes: Procatopodidae). *Copeia* 109(1):123-137 DOI: 10.1643/i2020046
- 31. Bragança, P.H.N.**, Van der Zee, J., Chakona, A., Schidmit, R. C., Stiassny, M. L.J. 2021. Following the Mangroves: diversification in the banded lampeye *Aplocheilichthys spilauchen* (Duméril, 1861) (Cyprinodontiformes: Procatopodidae) along the Atlantic coast of Africa. *Hydrobiologia*, 848(1):1-21. DOI: 10.1007/s10750-020-04497-3.
- 30. Bragança, P. H. N.**, Ottoni, F. P. 2021. On the availability of the name *Poecilia kempkesi* Poeser 2013 (Cyprinodontiformes: Poeciliidae). *Zootaxa* 4927(2):294–296.DOI: 10.11646/zootaxa.4927.2.10
- 29.** Ottoni, F.P., **Bragança, P. H. N.**, Brito, P.S. 2021. Taxonomic problems with the type material of *Heros autochthon* Gunther, 1862 (Teleostei: Cichlidae). *Peces Criollos* 74: 1-7 (2021)
- 28. Bragança, P.H.N.**, Van der Zee, J., Sonnenberg, R., Vreven, E. 2020. Description of two new miniature species of *Hylopanchax* Poll & Lambert, 1965 (Cyprinodontiformes: Cyprinodontoidae) from northeastern Gabon, with a redefinition of the genus. *Journal of Fish Biology* 98(3):655-667. <https://doi.org/10.1111/jfb.14606>.
- 27. Bragança, P. H. N.**, Guimaraes, E. C., Brito, P. S., Ottoni, F. P. 2020. On the natural occurrence of *Poecilia reticulata* Peters, 1859 (Cyprinodontiformes: Poeciliidae). *Cybiurn* 44(4): 309-316.

26. **Bragança, P. H. N.**, Smith, T. G., Vreven, E. J. W. M. N. & Chakona, A. 2020. Integrative taxonomy reveals hidden diversity in the southern African distichodontid genus *Nannocharax* Günther 1867 (Teleostei: Characiformes). *Journal of Fish Biology*. 97(6):1713-1723. doi: 10.1111/jfb.14535.
25. Guimarães, E. C., Brito, P. S., **Bragança, P. H. N.**, Santos, J. P., Katz, A. M., Costa, L. F. C., Ottoni, F. P. 2020. Integrative taxonomy reveals two new cryptic species of *Hyphessobrycon* Durbin, 1908 (Teleostei: Characidae) from the Maracaçumé and middle Tocantins River basins, Eastern Amazon region. *European Journal of Taxonomy*, 723: 77–107. <https://doi.org/10.5852/ejt.2020.723.1145>.
24. Ottoni, F.P., Katz, A. M., **Bragança, P. H. N.** 2020. Correction of the type locality of *Australoheros ipatinguensis* Ottoni & Costa, 2008 (Teleostei: Cichlidae). *Ichthyological Exploration of Freshwaters*, 30(1): 17-19.
23. Henschel, E., **Bragança, P. H. N.**, Rangel-Pereira, F., Costa, W. J. E. M. 2020. A new psammophilic species of the catfish genus *Ammoglanis* (Siluriformes, Trichomycteridae) from the Amazon River basin, northern Brazil. *Zoosystematics and Evolution*, 96(1): 67-72.
22. **Bragança, P. H. N.**, van Zeeventer, R. M., Bills, R., Tweddle, D., Chakona, A. 2020. Diversity of the southern Africa *Lacustricola* Myers, 1924 and redescription of *Lacustricola johnstoni* (Günther, 1894) and *Lacustricola myaposae* (Boulenger, 1908) (Cyprinodontiformes, Procatopodidae). *Zookeys*, 923: 91-113.
21. **Bragança, P. H. N.**, Ramos Júnior, C., Guimarães, E. & Ottoni, F.P. 2019. First record and identification of the Mexican Molly, *Poecilia mexicana* (Cyprinodontiformes: Poeciliidae) in Maranhão, Northeastern Brazil, through DNA barcoding. *Cybium*, 43(4) : 331-340.
20. Van Der Zee, J., Bernotas, K., **Bragança, P. H. N.**, Stiassny, M. L. J. 2019. An Unexpected New *Poropanchax* (Cyprinodontiformes, Procatopodidae) from the Kongo Central Province, Democratic Republic of Congo. *American Museum Novitates*, 2019(3941), (10 October 2019).
19. Decru, E., Vranken, N., **Bragança, P. H. N.**, Snoeks, J., Van Steenberge, M. 2019. Where ichthyofaunal provinces meet: the fish fauna of the Lake Edward system. *Journal of Fish Biology* 96(5): 1186-1201. <https://doi.org/10.1111/jfb.13992>
18. **Bragança, P. H. N.** & Costa, W. J. E. M. 2019. Multigene fossil calibrated analysis of the African lampeyes (Cyprinodontiformes: Procatopodidae) reveals an early Oligocene origin and Neogene diversification driven by palaeogeographic and palaeoclimatic events. *Organism Diversity and Evolution*, 19: 303-320.
17. Ottoni, F. P., Mattos, J. L. O., Katz, A. M., **Bragança, P. H. N.** 2019. Phylogeny and species delimitation based on molecular approaches on the species of the *Australoheros autrani* group (Teleostei, Cichlidae), with biogeographic comments. *Zoosystematics and Evolution*, 95(1): 49-64.
16. **Bragança, P. H. N.** 2018. *Fluviphylax gouldingi* and *F. wallacei*, two new miniature killifishes from the middle and upper Rio Negro drainage, Brazilian Amazon (Cyprinodontiformes, Cyprinodontiformes). *Spixiana* 41(1): 133-146.
15. **Bragança, P. H. N.**, Amorim, P. F. & Costa, W. J. E. M. 2018. Pantanodontidae (Teleostei, Cyprinodontiformes), the sister group to all other cyprinodontoid killifishes as inferred by molecular data. *Zoosystematics and Evolution*, 94(1): 137-145.

14. **Bragança, P. H. N.** & Costa, W. J. E. M. 2018. Time-calibrated molecular phylogeny reveals a Miocene-Pliocene diversification in the Amazon miniature killifish genus *Fluviphylax* (Cyprinodontiformes: Cyprinodontoidei). *Organism Diversity and Evolution*, 18(3): 345-353.
13. **Bragança, P. H. N.**, Ottoni, F. P. & Rangel-Pereira, F. S. 2016. *Hyphessobrycon sergipanus*, a new substitute name for *H. ellisae* Bragança, Ottoni & Rangel-Pereira, 2015 (Teleostei: Characidae). *Ichthyological Exploration of Freshwaters*, v. 27, p. 373-373.
12. **Bragança, P. H. N.**, Ottoni, F. P. & Rangel-Pereira, F. S. 2015. *Hyphessobrycon ellisae*, a new species from northeastern Brazil (Teleostei: Characidae). *Ichthyological Exploration of Freshwaters* 26: 255-262.
11. Costa, W. J. E. M., **Bragança, P. H. N.** & Ottoni, F. P. 2015. A new miniature killifish of the genus *Melanorivulus* (Cyprinodontiformes: Rivulidae) from the coastal plains of northeastern Brazil. *Vertebrate Zoology* , 65(1): 31-35.
10. Costa, W. J. E. M., Amorim, P. F. & **Bragança, P. H. N.** 2014. A new miniature killifish of the genus *Melanorivulus* (Cyprinodontiformes: Rivulidae), from the Xingu river drainage, Brazilian Amazon. *Vertebrate Zoology* 64(2): 193-197.
9. **Bragança, P. H. N.**, Ottoni, F. P. & Henschel, E. 2014. Distribution extension of *Krobia guianensis* (Regan, 1905) (Teleostei: Cichlidae) to the Araguari river basin, Amapá state, northern Brazil. *Check List* 10(3): 632-634.
8. **Bragança, P. H. N.**, Barbosa, M. A. & Mattos, J. L. 2013. A new *Nematocharax* species from the Middle Contas river basin, Northeastern Brazil (Characiformes: Characidae). *Vertebrate Zoology* 63(1): 3-8.
7. Costa, W. J. E. M., Amorim, P. F. & **Bragança, P. H. N.** 2013. Species limits and phylogenetic relationships of red-finned cryptic species of the seasonal killifish genus *Hypsolebias* from the Brazilian semi-arid Caatinga (Teleostei: Cyprinodontiformes: Rivulidae). *Journal of Zoological Systematics and Evolutionary Research* 51: 1-7.
6. Costa, W. J. E. M., **Bragança, P. H. N.** & Amorim, P. F. 2013. Five new species of the killifish genus *Anablepsoides* from the Brazilian Amazon (Cyprinodontiformes: Rivulidae). *Vertebrate Zoology* 63(3): 283-293.
5. Costa, W. J. E. M. & **Bragança, P. H. N.** 2013. A new miniature killifish of the genus *Laimosemion*, subgenus *Owiye*, from the Negro river drainage, Brazilian Amazon (Cyprinodontiformes: Rivulidae). *Ichthyological Exploration of Freshwaters* 24(1): 93-96.
4. **Bragança, P. H. N.**, Costa, W. J. E. M. & Gama, C. S. 2012. *Poecilia waiapi*, a new poeciliid from the Jari river drainage, northern Brazil (Cyprinodontiformes: Cyprinodontoidei). *Ichthyological Exploration of Freshwaters* 22(4): 337-343.
3. Ottoni, F. P., **Bragança, P. H. N.**, Amorim, P. F. & Gama, C. S. 2012. A new species of *Laetacara* from the northern Brazil coastal floodplains (Teleostei: Cichlidae). *Vertebrate Zoology* 62(2): 181-188.
2. **Bragança, P. H. N.**, Amorim, P. F. & Costa, W. J. E. M. 2012. Geographic distribution, habitat, colour pattern variability and synonymy of the Amazon killifish *Melanorivulus schuncki* (Cyprinodontiformes: Rivulidae). *Ichthyological Exploration of Freshwaters* 23(1): 51-55.

**1. Bragança, P. H. N.** & Costa, W. J. E. M. 2011. *Poecilia sarrafae*, a new poeciliid species from Parnaíba and Mearim river basins, northeastern Brazil (Cyprinodontiformes: Cyprinodontoidei). *Ichthyological Exploration of Freshwaters* 21(4): 369-376.

## NON PEER-REVIEWED

- 9.** Koerber, S., Guimarães, E.C., Brito, P.S., **Bragança, P.H.N.**, Ottoni, F.P. 2022. Checklist of the freshwater fishes of Maranhão, Brazil (CLOFFBR-MA). *Ichthyological Contributions of PecesCriollos* 79: 1-94 .
- 8.** Ottoni, F.P., **Bragança, P. H. N.**, Brito, P.S. 2021. Taxonomic problems with the type material of *Heros autochthon* Gunther, 1862 (Teleostei: Cichlidae). *Peces Criollos* 74: 1-7 (2021)
- 7.** **Bragança, P. H. N.**, van Zeeventer, R. M., Bills, R., Tweddle, D., Chakona, A. 2021. Die Diversität der sudafrikanischen *Lacustricola* Myers, 1924 sowie eine Wiedebeschreibung von *Lacustricola johnstoni* (Gunther, 1894) und *Lacustricola myaposae* (Boulenger, 1908) (Cyprinodontiformes, Procatopodidae). *Deutsche Killifisch Gemeinschaft*, 53 (5-6): 188-207.
- 6.** **Bragança, P. H. N.** 2020. *Fluviphylax gouldingi* und *F. wallacei*, zwei neue winzige Killifische aus dem mittleren und oberen Einzugsgebiet des Rio Negro, Brasilianischer Amazonas (Teleostei, Cyprinodontiformes, Cyprinodontoidei). *Deutsche Killifisch Gemeinschaft*, 52 (1): 1-18.
- 5.** **Bragança, P.H.N.**, Henschel, E. 2020. Anmerkungen zu Verbreitung, Ökologie und Verhalten des kleinen Amazonas-Leuchtaugenfisches *Fluviphylax zonatus* (Cyprinodontiformes: Fluviphylacidae). *Deutsche Killifisch Gemeinschaft*, 52 (5-6): 258-264.
- 4.** Ottoni, F. P., **Bragança, P. H. N.**, Mattos, J. L., Gama, C. S. & Schindler, I. 2018. Verbreitung von *Guianacara geayi* und neuen Fundorten am sud-östlichen Rand des Guyanaschildes in Brasilien. *Deutsche Cichliden Gesellschaft*, v. 49(3), p. 64 - 66, 03 mar 2018.
- 3.** Ottoni, F. P., **Bragança, P. H. N.**, Gama, C. S. & Schindler, I. 2015. Zur Verbreitung von *Cleithracara maronii* und zu einem Fundort aus dem Amazonas-Stromgebiet in Brasilien. *Deutsche Cichliden-Gesellschaft*, v. 46(12), p. 286 - 289, 12 dec 2015.
- 2.** Ottoni, F. P., **Bragança, P. H. N.** & Schindler, I. 2014. Lebendfärbung und Habitat von *Australoheros tavaresi* (Teleostei: Cichlidae). *Deutsche Cichliden Gesellschaft*, v. 45(9), p. 196 - 199, 26 sep 2014.
- 1.** Liberge, F., **Bragança, P. H. N.** 2013. *Poecilia waiapi*, nouvelle espèce brésilienne. *Le Vivipare*, p. 4 - 11, 22 apr 2013.

## BOOK CHAPTERS

- 2.** Amorim, P. F. & **Bragança, P. H. N.** 2018. Family Rivulidae - Rivuline Killifishes. In: Peter Van der Sleen; James S. Albert. (Org.). *Field guide to the fishes of the Amazon, Orinoco & Guianas*. 1ed.Princeton: Princeton University Press, 2018, v. 1, p. 350-359.
- 1.** **Bragança, P. H. N.** & Mattos, E. 2008. Os Gymnotiformes, eletricidade: a expansão dos sentidos. In: Wilson J.E.M. Costa; Maria Anais Barbosa; Emiko K. Resende; Débora K.S.

Marques. (Org.). Conhecendo o Pantanal 4 - Peixes da Estância Ecológica SESC Pantanal. 1 ed, v. 4, p. 42-47.

## SUBMITTED

- **Bragança, P. H. N.**, Jouke, Van der Zee, Nagy, B. Nothobranchiidae Garman, 1895 (African rivulins) – Congo Fishes book chapter.
- **Bragança, P. H. N.**, Jouke, Van der Zee., Nagy, B. Procatopodidae Fowler, 1916 (Lampeye killifishes) – Congo Fishes book chapter.
- **Bragança, P.H.N.**, Henschel, E., Bills, R., Tweddle, D., Kadye, W., Chakona, A. New Insights Into the Taxonomy of the Southern African Sand-catlets Genus *Zaireichthys* (Amphiliidae: Leptoglanidinae) - All catfishes book chapter.
- Henschel, E., Katz, A.M., **Bragança, P.H.N.** Miniature Catfishes: Diversity, Ecology and Evolution - All catfishes book chapter.
- Burns, M.D., **Bragança, P.H.N.** Potential Title: Body Size Evolution in Neotropical Freshwater Fishes: Patterns and Processes of Reduction and Miniaturization - Ecology of Neotropical Fishes book chapter.
- Scheepers, M.J., **Bragança, P.H.N.**, Chakona, A. Naming the other cousin: *Enteromius niggie*, a new goldie barb (Cyprininae: Smiliogastrini) from the north-east escarpment in South Africa, with proposed taxonomic rearrangement of the goldie barb group in southern Africa. Submitted to Journal of Fish Biology.
- Katz, A.M., Almeida Jr. E.B., Hepp, F., Ottoni, F.P., Rangel-Pereira, F.S., Pessôa, L.M., Marinho, L.C., Vieira, L.O., **Bragança, P.H.N.**, Filho, J.L.R., Fernandes, R.S. Atlantic Forest's Restingas: Unmatched Ecosystems Endangered by unscientific policies. Submitted to Web Ecology.
- Mutizwa, T., Kadye, W., **Bragança, P.H.N.**, Chakona, A. Low genetic and morphological differentiation within *Brachyalestes lateralis* in southern Africa (Characiformes: Alestidae), and a redescription of *Brachyalestes humilis* from the Kwanza River system. Submitted to Journal of Fish Biology.
- Ntokoane, T., Vreven, E.J.W.M.N., **Bragança, P.H.N.**, Kadye, W.T., Chakona, A. Taxonomic diversity, distribution, and ecology of the freshwater fishes of the Zambezian Lowveld Ecoregion (ZLE) in Southern Africa: a systematic review. Submitted to Journal of Fish Biology.
- Diego Sousa Campos., Oliveira, R.F., Vieira, L.O., **Bragança, P.H.N.**, Guimarães, E.C., Katz, A.M., Henschel, E., Brito, P.S., South, J., Ottoni, F.P. Image classification models: an efficient solution in fish identification? An essay on a recent deep-learning image classifier for Amazonian fishes. Submitted to Perspectives in Ecology and Conservation.

## ABSTRACTS AND POSTERS



- 8. Bragança, P.H.N.,** Tweddle, D., Skelton, P.H., Bills, R., Jacobs, F., Chakona, A.2023. Updates on the taxonomy of the southern Africa '*Lacustricola*', with the description of four new species, revalidation of '*L. carlislei*', and description of a new lampeye genus (Cyprinodontiformes: Procatopodidae) *Seventh International Conference of the PanAfrican Fish and Fisheries Association (PAFFA), Brazzaville, Republic of the Congo.*
- 7. Bragança, P.H.N.,** Tweddle, D., Van der Zee, J., Njagi, E., Nagy, B., Costa, W.J.E.M., Chakona, A. 2023. From undescribed and critically endangered to introduced: on the identity of the Lake Baringo Lampeye fish species genus *Lacustricola* (Cyprinodontiformes: Procatopodidae). *Seventh International Conference of the PanAfrican Fish and Fisheries Association (PAFFA), Brazzaville, Republic of the Congo.*
- 6. Bragança, P.H.N.** 2018. Pantanodontidae (Teleostei, Cyprinodontiformes), the sister group to all other cyprinodontoid killifishes as inferred by molecular data. *Sixth International Conference of the PanAfrican Fish and Fisheries Association (PAFFA), Mangochi, Malawi.*
- 5. Bragança, P.H.N.** 2011. Description of a new Amazon miniature fish species with internal fertilization of the genus of *Poecilia* (Poeciliidae: Poeciliinae). *XXXIII Jornada Giulio Massarani de Iniciação Científica Artística e Cultural, Rio de Janeiro, Brazil.*
- 4. Bragança, P.H.N.** 2011. Description of a new Amazon miniature fish species with internal fertilization of the genus of *Poecilia* (Poeciliidae: Poeciliinae). *XXXIII Jornada Giulio Massarani de Iniciação Científica Artística e Cultural, Rio de Janeiro, Brazil.*
- 3. Bragança, P.H.N.** 2011. New records, morphology and conservation status of *Phalloceros leptokeras* (Poeciliidae: Poeciliinae), fish species with internal fertilization endemic to Rio de Janeiro. *XXXIII Jornada Giulio Massarani de Iniciação Científica Artística e Cultural, Rio de Janeiro, Brazil.*
- 2. Bragança, P.H.N.** 2010. Description of a new species of *Poecilia* (*Micropoecilia*) from Mearim and Parnaíba river drainages, northeastern Brazil. *XXXII Jornada Giulio Massarani de Iniciação Científica Artística e Cultural, Rio de Janeiro, Brazil.*
- 1. Bragança, P.H.N.** 2009. Systematic revision and taxonomic survey of the African poeciliid species from Tanzania Coastal river drainages. *XXXI Jornada Giulio Massarani de Iniciação Científica Artística e Cultural, Rio de Janeiro, Brazil.*

## TALKS

- 14. Bragança, P.H.N.,** Tweddle, D., Bills, R., Kadye, W.T., Henschel, E., Chakona, A.2023. New insights into the taxonomy of the southern Africa sand catlets genus *Zaireichthys* Roberts, 1968. *Seventh International Conference of the PanAfrican Fish and Fisheries Association (PAFFA), Brazzaville, Republic of the Congo.*
- 13. Bragança, P.H.N.,** Tweddle, D., Bills, R., Kadye, W.T., Henschel, E., Chakona, A.2023. New insights into the taxonomy of the southern Africa sand catlets genus *Zaireichthys* Roberts, 1968. *Southern African Society of Aquatic Scientists (SASAqS) 2023 congress, Somerset West, Western Cape, South Africa, June 2023.*
- 12. Magoro M.L.,** Paterson A.W., Mofu L., **Bragança P.H.N.,** Bills I.R., James N.P.E., Woodford D.J., Kadye W.T., Nelukalo K., Khosa D., Hoffman A., Rodgers S.M., Petersen R.M., Manyama P., Rahlao S.J., Pereira V., van der Waal B.C.W., Chakona A. 2023. The

current distribution of non-native Nile tilapia *Oreochromis niloticus* (Linnaeus 1758) in the Limpopo and Mpumalanga Provinces: Implications for the conservation of native Mozambique tilapia *O. mossambicus* (Peters 1852). *Southern African Society of Aquatic Scientists (SASAqS) 2022 congress*, Somerset West, Western Cape, South Africa, June 2023.

**11.** Chakona, A., Smit, N., Malherbe, W., Daniels, S., Mlambo, M., Milne, B., Deacon, C., de Necker, L., **Bragança, P.H.N.**, Telford, N. & D. van de Colff. 2022. REFRESH: Renewing data and filling knowledge gaps for freshwater species of South Africa to inform species and ecosystem conservation. Southern African Society of Aquatic Scientists. 26-30 June 2022, Amanzi Private Game Reserve, Brandfort, Free State, South Africa.

**10.** Ntokoane T, Vreven E, **Bragança P.H.N.**, Kadye WT & Chakona A. 2022. Evidence of hidden diversity in the Lowveld large-scale yellowfish *Labeobarbus marequensis* (Smith 1841): an integrative taxonomic approach. Southern African Society of Aquatic Scientists. 26-30 June 2022, Amanzi Private Game Reserve, Brandfort, Free State, South Africa.

**9.** Mutizwa TI, Kadye WT, **Bragança P.H.N.**, Chakona A. 2022. Hidden in the riffles, a new suckermouth catfish from the middle Zambezi River. Southern African Society of Aquatic Scientists. 26-30 June 2022, Amanzi Private Game Reserve, Brandfort, Free State, South Africa.

**8.** Scheepers M, **Bragança P.H.N.**, Chakona A. 2022. Exploring genetic and morphological divergence in a disjunctly distributed freshwater fish, *Enteromius neefi*, in South Africa and Zambia. Southern African Society of Aquatic Scientists. 26-30 June 2022, Amanzi Private Game Reserve, Brandfort, Free State, South Africa.

**7.** **Bragança, P.H.N.**, Burns, M.D. 2022. Body Size Evolution in Neotropical Freshwater fishes: the ecology of miniature species. *XXIV Encontro Brasileiro de Ictiologia*, Gramado, Brazil, September 2022 (*online*)

**6.** **Bragança, P.H.N.**, Jouke, Van der Zee., Lobel, P. S., Schliewen, U. 2022. Osteology and redescription of the miniature lampeye species of *Congopanchax* Poll, 1971 (Cyprinodontiformes: Procatopodidae) with an updated list and overview of the African freshwater miniature fishes. *Southern African Society of Aquatic Scientists (SASAqS) 2022 congress*, Free State, South Africa, June 2022.

**5.** **Bragança, P.H.N.** 2022. Disentangling the evolution of the African Lampeye fishes: a multidisciplinary approach. *SALAB Seminar Series, South Africa*. 09 June. (*Online*)

**4.** **Bragança, P.H.N.** 2022. Disentangling the evolution of the African Lampeye fishes: a multidisciplinary approach. *University of Leeds-School of Biology Seminar, UK*. 17 March. (*Online*)

**3.** **Bragança, P.H.N.** 2021. Updates on the taxonomy of the southern Africa *Lacustricola*. *Southern African Society of Aquatic Scientists (SASAqS) 2021 congress (Online)*

**2.** **Bragança, P.H.N.** 2021. Natural history collections as windows for understanding the biological impacts of global change. *Institute of Oceanography and Environment (INOS) is a Higher Institution Centre of Excellence in Oceanography within Universiti Malaysia Terengganu (UMT), Malaysia*. 27 May (*Online*.)

**1.** **Bragança, P.H.N.** 2018. Multigene fossil calibrated analysis of the African lampeyes (Cyprinodontoidae: Procatopodidae) reveals a late Eocene origin and Neogene diversification driven by palaeogeographic and palaeoclimatic events. *Sixth International Conference of the PanAfrican Fish and Fisheries Association (PAFFA), Mangochi, Malawi*.

## LECTURING

- Lecturing about the "Principles of Taxonomy and Phylogenetic Systematics", ministered from 12th to the 23th of June 2023 (14hrs) at Rhodes University, South Africa. (Undergrad students)
- Lecturing about the "Diversity of Fishes", ministered from 3rd to the 13th of October 2022 (10hrs) at Rhodes University, South Africa. (Undergrad students)
- Lecturing on the "Princípios da Taxonomia e Sistemática filogenética" (Principles of Taxonomy and Phylogenetic Systematics" ministered from the 1st to the 12th of August 2022 (45 hrs) at the BIONORTE Postdoctoral Program, Brazil. (Msc students)
- Lecturing about the "Impacts of molecular data on taxonomy", ministered on the 6th-7th of June 2022 (6hrs) at Rhodes University, South Africa (Undergrad students).
- Lecturing on the "Princípios da Taxonomia e Sistemática filogenética" (Principles of Taxonomy and Phylogenetic Systematics" ministered from the 18th of April to 4th of May 2022 (30 hrs) at the Universidade Federal do Maranhão, Brazil (Msc students).
- "Miniaturization: an evolutive and integrative perspective" (Code: T.E.II // IBD 830/ 30hrs) at the Programa de Pós-Graduação em Biodiversidade e Biologia Evolutiva in the Universidade Federal do Rio de Janeiro in the second semester of 2018.
- Lecturing about Cyprinodontiformes: Cyprinodontoidei, ministered under the discipline General and Applied Ichthyology (IBZ-600) in the 10 of October of 2017 (3 hrs).
- Practical lecturing about the Diversity of Cyprinodontiformes under the discipline General and Applied Ichthyology (IBZ-600) in the 17 of October of 2017 (3 hrs)
- Practical lecturing about the Diversity of Characiformes under the discipline General and Applied Ichthyology (IBZ-600) in the 30 of October of 2013 (3 hrs).
- Lecturing about the order Characiformes ministered under the discipline General and Applied Ichthyology (IBZ-600) in the 16 of October of 2013 (3 hrs).
- Lecturing about the Diversity and Evolution of Teleost Fishes under the discipline General and Applied Ichthyology (IBZ-600) in the 25 of September of 2013 (3 hrs).
- Lecturing about Field techniques under the discipline General and Applied Ichthyology (IBZ-600) in the 28 of August of 2013 (3 hrs).
- Lecturing about the order Characiformes ministered under the discipline General and Applied Ichthyology (IBZ-600) in the 31 of October of 2012 (3 hrs).

- Lecturing about the order Characiformes ministered under the discipline General and Applied Ichthyology (IBZ-600) in the 28 of April of 2011 (3 hrs).

## TUTORING

- Tutoring in the "Fish module" during the didactic-scientific expedition under Zoology IV discipline (IBZ-242) in the first semester of 2012 (40hr)
- Tutoring in the Practical classes in the "Fish module" under Zoology IV discipline (IBZ-242) in the first semester of 2012 (12hrs)
- Tutoring in the "Fish module" during the didactic-scientific expedition under Zoology IV discipline (IBZ-242) in the second semester of 2012 (40hr)
- Tutoring in the Practical classes in the "Fish module" under Zoology IV discipline (IBZ-242) in the second semester of 2012 (12hrs)
- Tutoring in the Practical classes in the "Fish module" under Zoology IV discipline (IBZ-242) in the first semester of 2013 (12hrs)
- Tutoring in the Practical classes in the "Fish module" under Zoology IV discipline (IBZ-242) in the second semester of 2013 (12hrs)
- Tutoring in the Practical classes in the "Fish module" under Zoology IV discipline (IBZ-242) in the first semester of 2018 (12hrs)
- Tutoring in the "Fish module" during the didactic-scientific expedition under Zoology IV discipline (IBZ-242) in the second semester of 2011 (40hr)
- Tutoring in the Practical classes in the "Fish module" under Zoology IV discipline (IBZ-242) in the second semester of 2011 (12hrs)
- Tutoring in the Practical classes in the "Fish module" under Zoology IV discipline (IBZ-242) in the first semester of 2011 (12hrs)
- Tutoring in the Practical classes in the "Fish module" under Zoology IV discipline (IBZ-242) in the second semester of 2010 (12hrs)
- Tutoring in the "Fish module" during the didactic-scientific expedition under Zoology IV discipline (IBZ-242) in the first semester of 2010 (40hr)
- Tutoring in the Practical classes in the "Fish module" under Zoology IV discipline (IBZ-242) in the first semester of 2010 (12hrs)
- Tutoring in the "Fish module" during the didactic-scientific expedition under Zoology IV discipline (IBZ-242) in the second semester of 2009 (40hr)

- Tutoring in the Practical classes in the "Fish module" under Zoology IV discipline (IBZ-242) in the second semester of 2009 (12hrs)
- Tutoring in the "Fish module" during the didactic-scientific expedition under Zoology IV discipline (IBZ-242) in the second semester of 2008 (40hr)
- Tutoring in the Practical classes in the "Fish module" under Zoology IV discipline (IBZ-242) in the second semester of 2008 (12hrs)
- Tutoring in the "Fish module" during the didactic-scientific expedition under Zoology IV discipline (IBZ-242) in the first semester of 2008 (40hr)
- Tutoring in the Practical classes in the "Fish module" under Zoology IV discipline (IBZ-242) in the first semester of 2008 (12hrs)
- Tutoring in the "Fish module" during the didactic-scientific expedition under Zoology IV discipline (IBZ-242) in the second semester of 2007 (40hr)

## **SUPERVISIONS AND CO-SUPERVISIONS**

- Diego Campos - Miniaturização e seus impactos sobre o desenvolvimento embrionário por matrotrofia e superfecundação no gênero *Poecilia* Bloch & Schneider 1801: uma abordagem evolutiva. Universidade Federal do Maranhão (UFMA) - PhD student (started 2021)
- Martinus Scheepers – Diversity and Biogeography of southern Africa *Enteromius* (Cyprinidae). Rhodes University – PhD student (started 2021 - completed in December 2023).
- Lucas de Oliveira Vieira - Levantamento da ictiofauna do Rio Munim, Estado do Maranhão, Brasil. Universidade Federal do Maranhão (UFMA) - Msc student (degree completed in 2022)
- Dhallyth Zainny Pereira Silva - Filogeografia da espécie de peixe miniatura *Fluviphylax simplex* Costa, 1996 ao longo da bacia Amazônica. Universidade Federal do Maranhão (UFMA) - Msc student (started 2023)

## **PARTICIPATIONS IN STUDENT'S PUBLIC PRESENTATIONS, PROGRESS SEMINARS AND DEFENSES**

- Diversidade a nível de gênero ,família e ordem da Coleção Ictiológica do Centro de Ciências Agrárias e Ambientais da Universidade Federal do Maranhão - Brenda Furtado (Bachelor student) / Supervisor: Felipe Polivanov Ottoni. Universidade Federal do Maranhão (UFMA), December 2022. Bachelor title.

- Filogenia e Biogeografia de bagres do gênero *Trichomycterus* (Siluriformes: Trichomycteridae) do leste do Brasil – Paulo Jose Vilar do Abreu (Msc) / Supervisor: Wilson Costa. Programa de Pós Graduação em Biodiversidade e Biologia Evolutiva, Universidade Federal do Rio de Janeiro (PPGBBE – UFRJ), January 2022. Msc defense.
- Taxonomia Integrativa das Espécies e Populações do Clado *Hyphessobrycon* ‘rosy tetra’, que Ocorrem na Região Hidrográfica Atlântico Nordeste Ocidental e Drenagens Adjacentes – Erick Cristofore Guimaraes (PhD) / Supervisor: Felipe Polivanov Ottoni. Programa de Pós-Graduação em Biodiversidade e Biotecnologia da Rede Bionorte, Universidade Federal do Maranhão (UFMA), October 2020. PhD defense.
- Variações anatômicas inter- e intraespecíficas no crânio e esqueleto apendicular de *Tamandua* (Xenarthra, Vermilingua): Implicações biológicas e paleobiológicas – Leonardo Cotts do Amaral da Silva Castro (PhD student) / Supervisor: Dr. Ricardo Moratelli. Programa de Pós Graduação em Biodiversidade e Biologia Evolutiva, Universidade Federal do Rio de Janeiro (PPGBBE – UFRJ), June 2019. Progress Seminar.
- Estudo da diversidade do fitoplâncton marinho ao longo de gradientes ambientais utilizando citometria de fluxo multiparamétrica. – Rafael Bernardo Menezes (Master student) / Supervisor: Dr. Paulo Sergio Salomon. Programa de Pós Graduação em Biodiversidade e Biologia Evolutiva, Universidade Federal do Rio de Janeiro (PPGBBE – UFRJ), May 2019. Progress Seminar.
- Acúmulo de mercúrio em morcegos de uma floresta urbana no Rio de Janeiro – Bruna de Almeida dos Santos (Master student) / Supervisor: Dr. Ricardo Moratelli / Co-supervisor: Dr. Rodrigo Ornellas Meire. Programa de Pós Graduação em Biodiversidade e Biologia Evolutiva, Universidade Federal do Rio de Janeiro (PPGBBE – UFRJ), May 2019. Progress Seminar.
- Sistemática e história evolutiva das espécies de *Myotis* do grupo *ruber* (Chiroptera, Vespertilionidae). – Roberto Leonan Morim Novaes (PhD student) / Supervisor: Dr. Ricardo Moratelli / Co-supervisor: Dr. Marcelo Weksler. Programa de Pós Graduação em Biodiversidade e Biologia Evolutiva, Universidade Federal do Rio de Janeiro (PPGBBE – UFRJ), May 2019. Progress Seminar.
- Uma nova espécie de bagre do grupo *Trichomycterus hasemani* (Siluriformes: Trichomycteridae) para a bacia do rio Branco, Roraima – Elisabeth Henschel (Bachelor) / Supervisor: Dr. Wilson Costa. Instituto de Biologia, Universidade Federal do Rio de Janeiro (UFRJ), January 2015. Bachelor title

## PARTICIPATION IN PROJECTS

**1 - REFRESH Project:** the project is a multidisciplinary effort including specialists in seven different taxonomic freshwater zoological taxa in South Africa. Its main goal is to define knowledge poor areas and direct and organize these multidisciplinary effort to sample and barcode the organisms within these areas. As a freshwater fish specialist, I am a member of the freshwater team headed by Albert Chakona, and as part of the managing

committee my duties are to communicate with the other researchers, schedule meetings, take notes, look for permits among other activities (November 2021 - present)

**2 - Tilapia Project:** it is a South African initiative to map and understand the degree of introgression within the native *Oreochromis* species due to the introduction of the Nile tilapia. The study is moving to its second phase which comprises the use of genomics to assess the introgression within different populations. I am one of the researchers planning and doing the molecular studies (2018- present)

## FUNDING AND GRANTS

- The Mohamend Bin Zayed Species Conservation Fund – “On the track of the little known and critically endangered *Lacustricola* species on Lake Baringo and adjacent freshwater systems” – (amount: US\$ 7250.00 – April 2020)
- The George Meier Fund - “Diversity, distribution and evolution of the east Africa *Lacustricola* clade” – (amount: US\$ 3585.00 – July 2020)\*
- Collaborator in the projected led by Elisabeth Henschel (UFRJ, Brazil) which was award with an early career National Geographic Fund to sample the parasite catfishes in the Amazon – (amount: US\$ 20000.00 - 2019)

\* Due to the Covid-19 pandemic the expedition was postponed.

## EDITORIAL ACTIVITY

- Subject Editor for Checklist Journal, Pensoft (August – 2020 – Present)
- Subject Editor for Zookeys, Pensoft (June – 2021 – Present)
- Subject Editor for Frontiers in Environmental Science (March 2022 - Present)
- Subject Editor for African Journal of Aquatic Science (June 2022 - Present)

## PARTICIPATION IN SCIENTIFIC MEETINGS, CONFERENCES AND SYMPOSIUMS

- 18-22 Sep. 2023: participation in the Seventh International Conference of the PanAfrican Fish and Fisheries Association (PAFFA), Brazzaville, Republic of the Congo.
- 25-29 Jun. 2023: participation in the Southern African Society of Aquatic Scientists (SASAqS) 2023 congress, Somerset West, Western Cape, South Africa.

- 21 Sep. 2022: participation in the Encontro Brasileiro de Ictiologia (EBI) 2022 congress, Gramado, Brazil (Online).
- 26-29 Jun. 2022: participation in the Southern African Society of Aquatic Scientists (SASAqS) 2022 congress, Free State, South Africa.
- 2-4 Nov. 2021: participation in the Southern African Society of Aquatic Scientists (SASAqS) 2021 congress (Online)
- 24-28 Sep. 2018: participation in the Sixth International Conference of the PanAfrican Fish and Fisheries Association (PAFFA), Mangochi, Malawi.
- 3-7 Nov. 2014: participation in the VIII Oficina de Avaliação do Estado de Conservação de Actinopterygii Continentais Amazônicos. Avaliação do Estado de Conservação dos Rivulídeos Amazônicos. Iperó, SP, Brazil.
- 6-7 Oct. 2014: participation in the II Oficina de Avaliação do Estado de Conservação dos Rivulídeos Não-Amazônicos das Ecorregiões do Brasil. Avaliação do Estado de Conservação dos Rivulídeos Não-Amazônicos das Ecorregiões do Brasil. Rio de Janeiro, RJ, Brazil.
- 30 Jan-4 Fev. 2011: participation in the XIX Encontro Brasileiro de Ictiologia. Manaus, AM, Brazil.
- 7-11 Fev. 2010: participation in the XXVIII Congresso Brasileiro de Zoologia. Belém, PA, Brazil.

## VISIT TO OTHER INSTITUTIONS

### **Royal Museum for Central Africa, Tervuren, Belgium**

- 6-30 Mar. 2017: visit to the ichthyological collection for the study of the African lampeyes (Procatopodidae).
- 6 Jul. 2015 – 31 Mar. 2016: Nine months Sandwich PhD grant from CAPES to study the African lampeyes (Procatopodidae).
- 11-25 May. 2014: visit to the ichthyological collection for the study of the African lampeyes (Procatopodidae).
- 16 Feb. 2009: visit to the ichthyological collection and library.

### **Instituto de Pesquisas Científicas e Tecnológicas do Estado do Amapá, Macapá, Brazil**

- 2 Aug. 2012: visit to the ichthyological collection for the study of Cyprinodontiformes.
- 10 Jan. 2011: visit to the ichthyological collection for the study of Cyprinodontiformes.

### **Museu Nacional do Rio de Janeiro, Rio de Janeiro, Brazil**



- 4 Apr. 2014: visit to the ichthyological collection for the study of *Fluviphylax*.
- 3 Sep. 2013: visit to the ichthyological collection for the study of *Fluviphylax*.
- 30 Jun. 2012: visit to the ichthyological collection for the study of *Phalloceros*.
- 1 Jul. 2011: visit to the ichthyological collection for the study of *Phalloceros*.
- 7 and 14 Apr. 2011: visit to the ichthyological collection for the study of *Phalloceros*.

#### **Museu de Zoologia da Universidade de São Paulo, São Paulo, Brazil**

- 17-22 Mar. 2013: visit to the ichthyological collection for the study of *Fluviphylax*.

#### **Muséum National d'Histoire Naturelle, Paris, France**

- 9-13 Nov. 2015: visit to the ichthyological collection for the study of the African lampeyes (Procatopodidae).
- 26 Jun – 3 Jul. 2014: visit to the ichthyological collection for the study of the African lampeyes (Procatopodidae).

#### **Institut Royal des Sciences Naturelles de Belgique, Brussels, Belgium**

- 21-23 Oct. 2015: visit to the ichthyological collection for the study of the African lampeyes (Procatopodidae).

#### **Universidade Federal do Maranhão, Chapadinha, Brazil**

- 28 Nov-1 Dec. 2016: visit to the ichthyological collection for the study of the poeciliid subgenus *Micropoecilia*.

#### **South African Institute for Aquatic Biodiversity, Grahamstown, South Africa**

- 20 Feb-15 May. 2019: ongoing visit to the ichthyological collection and molecular facilities for the study of the catfish genus *Zaireichthys*, the distichodontid *Nannocharax*, the cichlid genus *Pseudocrenilabrus* and African killifishes.

#### **National Museums of Kenya, Nairobi, Kenya**

- 02-18 Nov 2022: partner institution in the Kenya sampling realized in November. Kenyan freshwater fish specimens were examined and additional specimens catalogued in the museum.

## **FIELD EXPEDITIONS**

**2022**

- 21-26 February: expedition to the coastal areas of KwaZulu-Natal Province, South Africa.
- 23-25 March: expedition to the coastal areas in the limit between Eastern Cape and KwaZulu-Natal provinces, South Africa.
- 17-23 April: expedition to Western Cape focusing in sampling populations of *Galaxias* and *Sandelia*.
- 10-17 July: expedition to the Kunene and Okavango rivers in Namibia.
- 01-13 November: expedition to the lakes Baringo, Naivasha, Bogoria, Solai, Nakuru and Victoria in Kenya funded by Mohamed Bin Zayed Fund.

## 2020

- August-September: expedition to the Umzikhulo, Tugela, Phogolo and other systems in the KwaZulu-Natal Province, South Africa.

## 2019

- 4-7 March 2019: expedition to the Kroom River, Eastern Cape, South Africa for monitoring populations of *Pseudobarbus* and *Sandelia* and invasive species.
- 27 August - 8 September 2019: expedition to the Amazonas and Roraimas states directed to the collection of Trichomycterid catfishes (funded by National Geographic and led by Elisabeth Henschel).

## 2018

- 26-29 December 2018: expedition to Teresópolis in the Rio de Janeiro state for the collection of *Trichomycterus*.

## 2016

- 23-31 July 2016: expedition to Bahia and Sergipe states (coastal river drainages and São Francisco river basin), Brazil.
- 06-24 September 2016: expedition to Amazonas, Acre and Rondônia states (Solimões, Purús and Madeira river drainage) Brazil, for collecting *Fluviphylax*.

## 2015

- 11-28 March 2015: expedition to Amazonas (Solimões and Purus river drainages) and Roraima (Branco and Jauaperi river drainages) states, Brazil, for the collection of *Fluviphylax*.

## 2014

- 8-9 January 2014: expedition to the Tietê river drainage, a tributary of the Paraná river basin, São Paulo state, Brazil.
- 12-14 February 2014: expedition to Minas Gerais state, Brazil.
- 17-27 March 2014: expedition to Bahia state (coastal drainages), Brazil.

**2013**

- 15-17 March 2013: expedition to Parati, Rio de Janeiro state, Brazil, for the collection of *Phalloceros*.
- 5-14 April 2013: ichthyological expedition to Mato Grosso state (Pantanal floodplains, Paraguai, Araguaia, Xingu and Tapajós river drainages), Brazil, for collecting *Pamphorichthys*.
- 27-31 May 2013: ichthyological expedition to Pará state (Belo Monte, Altamira), Brazil, for the collection of seasonal killifishes (Aplocheiloidei).
- 5-16 July 2013: ichthyological expedition to Pará state (eastern Amazon and Tapajós river drainage), Brazil, for the collection of *Micropoecilia* and *Fluviphylax*.

**2012**

- 23 April-5 May 2012: expedition to Goiás, Mato Grosso, Tocantins, Pará and Maranhão states (Araguaia and Tocantins river drainages), Brazil, for the collection of *Pamphorichthys*.
- 20-27 May 2012: expedition to Ceará, Piauí and Maranhão states (Parnaíba river and small coastal river drainages), Brazil, directed to the collection of Aplocheiloidei.
- 22 July-2 August 2012: Expedition to Amapá (Laranjal do Jari, Amapari, Tartarugal, Calçoene and Oiapoque river drainages) directed to the collection of Cyprinodontiformes.
- 8-20 September 2012: expedition to Roraima state (Brancoand Jauaperi river drainage), Brazil, for the collection of *Fluviphylax* and Aplocheiloidei.
- 13-23 November 2012: expedition to Amazonas state (Parintins, Madeira river drainage, Negro river drainage), Brazil, for collecting *Fluviphylax* species.

**2011**

- 9 January-8 February 2011: Expedition to Amapá (Amapari, Tartarugal, Calçoene and Oiapoque river drainages), Pará (eastern Amazon) and Amazonas (Lower Negro river drainage) states in Brazil directed to the collection of Cyprinodontiformes.
- 30 May 2011: expedition to Serra do Piloto, Rio de Janeiro state, Brazil, for the collection of *Phalloceros*.
- 13-23 July 2011: expedition to Bahia, Espírito Santo and Minas Gerais states coastal river drainages, Brazil, to collect Cyprinodontiformes.
- 2 November 2011: expedition to Mendes, Rio de Janeiro state, Brazil, directed to the collection of *Phalloceros*.
- 26 November 2011: expedition to Parque Estadual da Pedra Branca, Rio de Janeiro state, Brazil.

**2010**

- 21 January 2010: field expedition to Lagoa Rodrigo de Freitas, Rio de Janeiro, RJ, to collect specimens of *Phalloptychus januarius*
- 3-7 February 2010: ichthyological expedition to the Tocantins and Guamá river drainages in Pará, Brazil, directed to the collection of *Micropoecilia*.
- 3-5 June, 12 August and 6 November 2010: expedition to the Paquequer river drainage, a tributary of the Paraíba do Sul river basin, Teresópolis, Rio de Janeiro state, Brazil, directed to the collection of *Phalloceros*.

- 26-28 July 2010: expedition to the Paraíba do Sul river drainage, Rio de Janeiro state, Brazil, directed to the collection of *Phalloceros*.
- 5 August 2010: expedition to Cachoeiras de Macacu, Rio de Janeiro, Brazil, for the collection of *Phalloceros*.
- 27 August 2010: expedition to Piabanha river drainage, Rio de Janeiro, Brazil, directed to the collection of *Phalloceros*.
- 7 October 2010: expedition to Macaé and Nova Friburgo, Rio de Janeiro, Brazil, directed to the collection of *Phalloceros*.

## 2009

- 6-27 January 2009: ichthyological expedition to Tanzania coastal river drainages (Ruvu and Rufiji), Eastern Africa, for the collection of Nothobranchidae and Procatopodidae.
- 7-8 March 2010: ichthyological expedition to Pirai, Rio de Janeiro, Brazil, for collection of *Phalloceros*.
- 25 June 2009: expedition to the Paquequer River drainage, a tributary of the Paraíba do Sul River basin, Teresopolis, Rio de Janeiro, Brazil, for the collection of *Phalloceros*.

## 2007

- 17-18 November 2007: participation in a scientific expedition to Mage, Rio de Janeiro, Brazil.

## COLLABORATION NETWORK

- Universidade Federal do Rio de Janeiro, Brazil
- Universidade Federal do Maranhão, Brazil
- Instituto de Pesquisas Científicas e Tecnológicas do Estado do Amapá, Brazil
- Universidade Federal do Pará, Brazil
- Rhodes University, South Africa
- Witwaterstrand University, South Africa
- Stellenbosh University, South Africa
- American Museum of Natural History, US
- Randolph-Macon College, US
- Royal Museum for Central Africa, Belgium
- Institut Royal des Sciences Naturelles de Belgique, Belgium
- Bavarian State Collection of Zoology, Germany
- Leeds University, UK
- University of Padova, Italy

## **COLLECTION MANAGING EXPERIENCE**

- Management and curatorial activities related to the ichthyological collection of the Universidade Federal do Rio de Janeiro from 2008-2019.
- Osteological preparations - clear and staining techniques
- Preserved specimens photographs
- Curatorial activities related to DNA collections
- Basic knowledge on SPECIFY