

DANIEL YUDI MIYAHARA NAKAMURA

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[Google Scholar](#) — [Research Gate](#)

EDUCATION	University of São Paulo	2022–2028
	Ph.D. in Bioinformatics	
	Internship at the American Museum of Natural History	2024–2025
	• Thesis: Museomics of amphibians: Methodological advances and applications of historical DNA to the systematics of rare and extinct frogs	
	• Advisor: Taran Grant	
	University of São Paulo	2017–2021
	B.S. and Licentiate's degree in Biology	
	• Thesis: Body size, habitat, and sexual selection affect call evolution in Cophomantini (Anura: Hylidae: Hylinae)	
	• Advisor: Paulo Durães Pereira Pinheiro	

PUBLICATIONS *Peer-reviewed*

9. Nakamura DYM et al. (2025) Historical DNA places an apparently extinct gladiator frog in the phylogeny of the *Boana pulchella* group (Anura: Hylidae). *Herpetologica* **81**:117–133. <https://doi.org/10.1655/Herpetologica-D-24-00036>.
8. Nakamura DYM et al. (2025) Museomics reduces taxonomic inflation in the *Dendropsophus araguaya* complex (Hylinae: Dendropsophini) from the Cerrado. *Journal of Vertebrate Biology* **74**(24112):1–18. <https://doi.org/10.25225/jvb.24112>.
7. Whitcher C et al. (2025) Phylogenetics, biogeography, and life history evolution in the continentally-distributed treefrog genus *Dendropsophus* (Anura: Hylidae: Hylinae). *Molecular Phylogenetics and Evolution* **204**:108275. doi.org/10.1016/j.ympev.2024.108275.
6. Nakamura DYM et al. (2025) Body size, habitat, and sexual selection affect call evolution in Cophomantini treefrogs (Anura: Hylidae: Hylinae). *Biological Journal of the Linnean Society* **144**(2):1–18. doi.org/10.1093/biolinnean/blae036.
5. Pinheiro PDP et al. (2024) Two new species of the *Boana semiguttata* clade (Anura: Hylidae) from the Atlantic Forest of southern Brazil. *South American Journal of Herpetology* **33**:48–68. doi.org/10.2994/SAJH-D-24-00002.1.
4. Nakamura DYM et al. (2024) Procedures for obtaining tissue samples from amphibian and reptile specimens for museomics. *Herpetologia Brasileira* **13**(2): 134–144. doi.org/10.5281/zenodo.14291534
3. Escalona M et al. (2024) Allometric constraint predominates over the acoustic adaptation hypothesis in a radiation of Neotropical treefrogs. *Integrative Zoology*:1–11. doi.org/10.1111/1749-4877.12920
2. Nakamura DYM et al. (2024) Resin foraging interactions in stingless bees: an ecological synthesis using multilayer networks. *Apidologie* **55**:34. doi.org/10.1007/s13592-024-01082-8

1. Albuquerque-Pinna J et al. (2024) Defensive alkaloid variation and palatability in sympatric poison frogs. *Chemoecology* **34**:83–94. doi.org/10.1007/s00049-024-00402-9

Books

1. Koffler S et al. (2021) Projeto *cidadãoasf* - Protocolo de monitoramento de atividade de voo em abelhas sem ferrão utilizando ciência cidadã. Brazil, Santo André, UFABC. 72p. ISBN: 978-6-55-719028-9

In prep

4. **Nakamura DYM**, Wheeler WC, Grant T (In prep.) Preprocessing missing data and partitions in dynamic homology: Applications to Sanger sequences, phylogenomics, and museomics. To be submitted to *Cladistics*.
3. **Nakamura DYM**, Grant T (In prep.) Resampling and optimality-based support in parsimony analyses across dataset sizes: Avoiding spurious maximum support values in phylogenomics. To be submitted to *Biology Letters*.
2. **Nakamura DYM**, Wheeler WC, Grant T (In prep.) The impact of phenomic evidence on phylogenetic analyses dominated by DNA sequences. To be submitted to *Cladistics*.
1. **Nakamura DYM**, Wheeler WC, Grant T (In prep.) *RNODE*: User-friendly tool for comparisons of support and topology between phylogenetic trees. To be submitted to *Cladistics*.

AWARDS

- Best undergraduate presentation 2021
II Ciclo de webinars WDA-LA: Estudantes, Wildlife Disease Association
- Best undergraduate presentation 2019
XXVI Semana Científica Benjamin Eurico Malucelli, University of São Paulo

RESEARCH FUNDING

- Ph.D. scholarship, R\$202,528.80 August 2022–July 2028
FAPESP (grant 22/02789-0)
- Undergraduate scholarship, R\$9,000.00 January 2021–July 2022
PUB-USP
- Undergraduate scholarship, R\$8,348.40 August 2019–July 2020
FAPESP (grant 19/11096-5)
- Technical support to research, R\$4,800.00 August 2017–July 2018
CNPq (grant 372343/2017-1)

CONGRESS PRESENTATIONS

7. **Nakamura DYM**, Wheeler WC, Grant T (2025) Is morphology still relevant to phylogenetic analyses? MorphoBank Connects.
6. **Nakamura DYM**, Wheeler WC, Grant T (2025) The impact of phenomics on total evidence analyses dominated by DNA sequences. Evolution Meeting, Athens, GA, USA.
5. **Nakamura DYM**, Grant T (2023) Support in phylogenetics: Do resampling metrics predict optimality-based support in parsimony analyses? XXII Workshop of the Graduate Program in Bioinformatics, University of São Paulo, SP, Brazil.
4. Pereira JM, **Nakamura DYM**, Homma MHM, Grant T (2023) The advertisement calls of three species of *Brachycephalus* (Anura: Brachycephalidae) from

southeastern Brazil. X Brazilian Congress of Herpetology, Federal University of Southern Bahia, BA, Brazil.

3. **Nakamura DYM**, Pinheiro PDP, Lyra ML, Faivovich J, Grant T (2023) Historical DNA places a extinct gladiator frog in the phylogeny of the *Boana pulchella* Group (Anura: Hylidae). X Brazilian Congress of Herpetology, Federal University of Southern Bahia, BA, Brazil.
2. **Nakamura DYM** (2021) Fibropapillomatosis in sea turtles and the spirorchiid parasites. II Ciclo de webminars, Latin America, Wildlife Disease Association.
1. **Nakamura DYM**, Zamana RR, Gattamorta MA, Matushima ER (2019) Fibropapillomatosis in sea turtles: are the parasites Spirorchiidae (Trematoda: Digenea) possible vectors of *Chelonid alphaherpesvirus 5*? XXVI Semana Científica Benjamin Eurico Malucelli, University of São Paulo, SP, Brazil.

SKILLS

- Bash/Linux (intermediate)
- R (intermediate)
- Python (intermediate)
- Git and GitHub (basic)
- LaTeX (basic)
- Microsoft Office
- Adobe Illustrator, Photoshop, and Premiere

TEACHING

Undergraduate teaching assistant

- BIZ0448 - Animal architecture: Evolution of metazoan body plans 2024
University of São Paulo
- BIZ0212 - Vertebrates 2020, 2023
University of São Paulo
- BIZ0213 - Invertebrates 2021
University of São Paulo
- 0410117 - Philosophy for Biological Sciences 2019
University of São Paulo

Invited lessons

- BIZ5749 - Systematics and evolution of amphibians and reptiles 2022
University of São Paulo
- BIZ0440 - Herpetology 2022
University of São Paulo

OUTREACH

Editorial work

- Reviewer of Anais da Academia Brasileira de Ciências (1x) and Herpetologia Brasileira (2x) 2024–2025

Organization of public events

- É o Bicho na Remo! 2024
University of São Paulo, São Paulo, Brazil
- Meliponicultura e ciência cidadã 2022
University of São Paulo (EACH-USP), São Paulo, Brazil

Environmental educator

- Internship in the Tamar Environmental Monitoring Program 2020
Project TAMAR, Ubatuba, Brazil
- Monitor in the BioBlitz Program, Natural Geographic Education 2018
Instituto Butantan, São Paulo, Brazil

College prep teacher

- Prefeitura de Jandira, São Paulo, Brazil 2021–2022
- Universidade Cidade de São Paulo (UNICID), São Paulo, Brazil 2017