

Pedro Henrique P. Braga

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languages

English, French,
Portuguese - fluent
written & oral skills

programming

dev: R use: R, Matlab,
SQL, markdown, LaTeX,
Julia

defining attributes

articulate,
interpersonal and
cooperative skills,
proactive leadership,
adaptive management
and organisational
skills, public speaking
and
communication skills,
cheerful 🌻

hobbies

running, cycling, hiking,
crafting and cooking

Interests

As an **evolutionary ecologist**, I am interested in using information on the **evolutionary history** of species and their **ecological attributes** to understand general **processes and mechanisms** that generate **biodiversity patterns**. In my research, I stress the **importance of phylogenetic and spatial scales** and **historical components of ecological and evolutionary drivers**. I practice and promote **open and reproducible science**. I am also dedicated towards the integration of evidence-based **active learning strategies** in my **teaching** and **scientific communication** abilities.

Education

Ph.D. Student in Biology, 2014 to *Current*

Concordia University, Montréal, CA

Thesis: *Spatial and phylogenetic scale-dependence in the evolutionary and ecological determinants of diversity patterns in bats*

Supervisors: Pedro **Peres-Neto** & Steven **Kembel**

M.Sc. in Ecology and Evolution, 2012 to 2014

Federal University of Goiás, Goiânia, BR

Thesis: *Niche evolution and diversification patterns in Neotropical anurans*

Supervisors: Natan Medeiros **Maciel** & Paulo **De Marco**

B.Sc. in Biological Sciences, 2008 to 2012

Federal University of Goiás, Goiânia, BR

Honours Thesis: *Adaptive climatic niche evolution in bufonid frogs*

Supervisors: Natan Medeiros **Maciel** & Paulo **De Marco**

Teaching Experience

2019	Pedagogical Formation Supporting Active Learning and Technological Innovation in Studies of Education (SALTISE)	Dawson College Concordia University
Winter 2019	Workshop Instructor Advanced Multivariate Analyses	Concordia University
Fall 2018	Teaching Assistant Biostatistics (BIOL322)	Concordia University
Fall 2018	Workshop Instructor QCBS R Workshop Series ggplot & plyr Programming in R	Concordia University
Summer 2018	Teaching Assistant Fundamentals of Nutrition (BIOL203)	Concordia University
Winter 2018	Teaching Assistant Fundamentals of Nutrition (eBIOL203)	Concordia University
Winter 2018	Workshop Instructor QCBS R Workshop Series Generalized Linear Mixed Models Multivariate Analyses	Concordia University McGill University

Fall 2017	Workshop Instructor QCBS R Workshop Series Introduction to ggplot2 & dplyr Linear Models in R	Concordia University McGill University
Winter 2017	Workshop Instructor QCBS R Workshop Series Generalized Linear Mixed Models Multivariate Analyses	McGill University
Fall 2016	Teaching Assistant Séminaire en écologie et analyse des données (BIO3500)	Université du Québec à Montréal
Fall 2016	Workshop Instructor QCBS R Workshop Series Introduction to R Charger et manipuler des données en R Loading and manipulating data in R Introduction to ggplot Linear models Programming in R	McGill University
Winter 2016	Workshop Instructor QCBS R Workshop Series Linear mixed models Advanced multivariate analyses Programming in R	McGill University
Winter 2013	Teaching Assistant Biostatistics	Federal University of Goiás

Awards, Grants and Scholarships

2019	Award: Excellence Award from the Québec Centre for Biodiversity Science (QCBS)	CAD 1,279
2014-2018	Scholarship: Science without Borders Ph.D. Scholarship from the National Council of Research and Development (CNPq) (249289/2013-0)	CAD 140,000
2018	Award: Learning and Development Award (LeaDA) from the Québec Centre for Biodiversity Science (QCBS)	CAD 1,825
2018	Award: Excellence Award from the Québec Centre for Biodiversity Science (QCBS)	CAD 1,140
2017	Award: Learning and Development Award (LeaDA) from the Québec Centre for Biodiversity Science (QCBS)	CAD 250
2017	Award: Learning and Development Award (LeaDA) from the Québec Centre for Biodiversity Science (QCBS)	CAD 963
2015	Award: Non-tuition fees funding for the Intensive Course in Biodiversity Science from the Québec Centre for Biodiversity Science (QCBS)	CAD 1380

2015	Grant: Deutscher Akademischer Austauschdienst (DAAD) travel grant for the 2015 iDiv Summer School on Biodiversity Synthesis	EUR 1,450
2012-2014	Scholarship: M.Sc. Scholarship from the Coordination for the Improvement of Higher Education Personnel (CAPES)	BRL 28,800
2011-2012	Scholarship: National Council of Research and Development (CNPq) Undergraduate Research Scholarship	BRL 3,000

Professional Activities

2017-Current	Coordinator of the QCBS R Workshop Series Québec Centre for Biodiversity Science	Montréal, Canada
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Memberships

2016-Current	International Biogeography Society, Student Member
2015-2019	Québec Centre for Biodiversity Science, Student Representative
2017-2017	Ecology Society of America, Student Member
2011-2012	Brazilian Herpetology Society, Student Member

Contributed Presentations

9th Biennial Conference for the International Biogeography Society Oral Presentation

Braga, Pedro Henrique P., Kembel, S., Peres-Neto, P., Historical contingencies, scale-dependence and contemporary- and past-environmental variation determine the phylogenetic structure of bat assemblages across the globe. *9th Biennial Conference for the International Biogeography Society*. (2019). Málaga, Spain.

9th Biennial Conference for the International Biogeography Society Oral Presentation

Donelle, L., **Braga, Pedro Henrique P.**, Vázquez-Rivera, H., Mestre, A., Arranz, I., Peres-Neto, P., Fournier, B., The frequency of environmental conditions mediates the coexistence of generalist and specialist species - a theoretical model and test on terrestrial vertebrates. *9th Biennial Conference for the International Biogeography Society*. (2019). Málaga, Spain.

Climate Change Meeting for the International Biogeography Society Oral Presentation

Braga, Pedro Henrique P., Predicting how climate driven species range shifts are affected by international borders: is it just another brick in the wall?. *Climate Change Meeting for the International Biogeography Society*. (2018). Évora, Portugal.

Climate Change Meeting for the International Biogeography Society Oral Presentation

Fournier, B., Vázquez-Rivera, H., Clappe, S., Donelle, L., **Braga, Pedro Henrique P.**, Peres-Neto, P., The spatial frequency of global climatic conditions drives the functional composition of Angiosperm communities. *Climate Change Meeting for the International Biogeography Society*. (2018). Évora, Portugal.

8th Biennial Conference for the International Biogeography Society

Oral Presentation

Braga, Pedro Henrique P., Kembel, S., Peres-Neto, P., Niche evolution patterns across spatial scales in bats. *8th Biennial Conference for the International Biogeography Society*. (2017). Tucson, USA.

49th Meeting of the Association for Tropical Biology and Conservation

Oral Presentation

Peixoto, F.P., **Braga, Pedro Henrique P.,** Brito, D., Diniz-Filho, J.A.F., Global patterns of phylogenetic turnover in bats. *49th Meeting of the Association for Tropical Biology and Conservation*. (2012). Bonito, Brazil.

I International Symposium of Ecology

Oral Presentation

Alves, D.M.C.C., Peixoto, F.P., **Braga, Pedro Henrique P.,** Brito, D., Bats susceptible to an invasive disease: a macroecological approach. *I International Symposium of Ecology*. (2011). São Carlos, Brazil.

IX Latin-American Congress of Herpetology

Oral Presentation

Braga, Pedro Henrique P., De Marco Junior, P., Maciel, N.M., Conservation of the ecological niche of the species of the *Rhinella marina* group (Anura: Bufonidae). *IX Latin-American Congress of Herpetology*. (2011). Curitiba, Brazil.

Outreach

2019 3MT Competition Finalist at Concordia University

Oral Presentation

Braga, Pedro Henrique P., Is it another brick in the wall?. *2019 3MT Competition Finalist at Concordia University*. (2019). Montréal, Canada.

2019 Creative Reactions | Réactions Creatives

Interdisciplinary Art Exhibition

Winkler, R. and **Braga, Pedro Henrique P.,** Scientist-artist pairing to develop and exhibit a project performed on the theme “*Uncovering diversity patterns of bats across the globe*”. *2019 Creative Reactions | Réactions Creatives*. (2019). Montréal, Canada.

2018 Pint of Science at Montréal

Oral Presentation

Braga, Pedro Henrique P., Uncovering diversity patterns of bats across the globe. *2018 Pint of Science at Montréal*. (2018). Montréal, Canada.

Peer-reviewed Publications

Fournier, B., Vázquez-Rivera, H., Clappe, S., Donelle, L., **Braga, Pedro Henrique P.,** & Peres-Neto, P. R. (2020). The spatial frequency of climatic conditions affects niche composition and functional diversity of species assemblages: The case of angiosperms. *Ecology Letters*, 23(2), 254–264. <http://doi.org/10.1111/ele.13425>

Peixoto, F. P., **Braga, Pedro Henrique P.,** & Mendes, P. (2018). A synthesis of ecological and evolutionary determinants of bat diversity across spatial scales. *BMC Ecology*, 18(1), 18. <http://doi.org/10.1186/s12898-018-0174-z>

Peixoto, F. P., **Braga, Pedro Henrique P.,** Cianciaruso, M. V., Diniz-Filho, J. A. F., & Brito, D. (2014). Global patterns of phylogenetic beta diversity components in bats. *Journal of Biogeography*, 41(4), 762–772. <http://doi.org/10.1111/jbi.12241>

Batista, V. G., Gambale, P., Oda, F. H., & **Braga, Pedro Henrique P.** (2013). *Dendropsophus rubicundulus* (Lagoa Santa Treefrog). Predation. *Herpetological Review*, 45(1), 111.

Maciel, N. M., Carvalho Kokubum, M. N. de, **Braga, Pedro Henrique P.**, Queiróz-Júnior, A. T. de, & Matsushita, R. H. (2013). Distribution extension, new state record and geographic distribution map of *Ceratophrys joazeirensis* Mercadal, 1986 (Anura: Ceratophryidae). *Herpetology Notes*, 6, 447–450.