

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 also value and I am dedicated towards the development of 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

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

2014-2018	Scholarship: Science without Borders Ph.D. Scholarship from the National Council of Research and Development (CNPq) (249289/2013-0)	CAD 160,000
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

Memberships

2016-Current

International Biogeography Society, Student Member

2015-Current

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.

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

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* (Iagoa 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.