

# Pedro Henrique P. Braga

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## contact

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## website

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## orcid

0000-0002-1308-1562

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

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

## Awards, Grants and Scholarships

2019	<b>Award:</b> Excellence Award from the Québec Centre for Biodiversity Science (QCBS)	CAD 1,279
2014-2018	<b>Scholarship:</b> Science without Borders Ph.D. Scholarship from the National Council of Research and Development (CNPq) (249289/2013-0)	CAD 160,000
2018	<b>Award:</b> Learning and Development Award (LeaDA) from the Québec Centre for Biodiversity Science (QCBS)	CAD 1,825
2018	<b>Award:</b> Excellence Award from the Québec Centre for Biodiversity Science (QCBS)	CAD 1,140
2017	<b>Award:</b> Learning and Development Award (LeaDA) from the Québec Centre for Biodiversity Science (QCBS)	CAD 250
2017	<b>Award:</b> Learning and Development Award (LeaDA) from the Québec Centre for Biodiversity Science (QCBS)	CAD 963
2015	<b>Award:</b> Non-tuition fees funding for the Intensive Course in Biodiversity Science from the Québec Centre for Biodiversity Science (QCBS)	CAD 1380

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

## Professional Activities

2017-Current	<b>Coordinator of the QCBS R Workshop Series</b> Québec Centre for Biodiversity Science	Montréal, Canada
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## 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.

### 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

**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.