

# GUSTAVO ADOLFO BRAVO, PH.D.

## RESEARCH ASSOCIATE

Harvard University  
Department of Organismic and Evolutionary Biology  
Museum of Comparative Zoology  
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[01/23/2020]

## EDUCATION

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**Louisiana State University, Baton Rouge, LA** 2012  
**Ph.D.** Biological Sciences. Systematics, Ecology, and Evolution  
Thesis: *Phenotypic and niche evolution in the antbirds (Aves, Thamnophilidae)*.  
Advisors: Dr. J. V. Remsen Jr. and Dr. R. T. Brumfield.  
Committee: Dr. K. E. Harms, Dr. B. C. Carstens, Dr. P. C. Stouffer, Dr. A. Grooters.  
**Universidad de los Andes, Bogotá, Colombia** 2002  
**B.Sc.** Biological Sciences

## RESEARCH AND ACADEMIC APPOINTMENTS

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**Research Associate** 2016 – present  
Harvard University  
Dept. of Organismic and Evolutionary Biology & Museum of Comparative Zoology  
**São Paulo Research Foundation (FAPESP) Postdoctoral Fellow** 2013 – 2016  
Universidade de São Paulo, Brazil  
Museu de Zoologia  
**Junior Researcher** 2002 – 2005  
Instituto Alexander von Humboldt, Colombia  
Conservation Biology Program  
**Undergraduate Research Student** 2001 – 2002  
Universidad de los Andes – Omacha Foundation, Colombia

## TEACHING EXPERIENCE

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### UNDERGRADUATE COURSES

**Teaching Assistant.** OEB 190 Ornithology 2020  
Harvard University. Professor Dr. Scott V. Edwards  
**Teaching Assistant.** BIOL 2153 Principles of Genetics 2008 – 2012  
Louisiana State University. Professors Dr. R. T. Brumfield, Dr. A. Smith, Dr. G. Brininstool  
**Teaching Assistant.** BIOL 1209 Introductory Biology II 2010  
Louisiana State University. Professor Dr. E. W. Wischusen  
**Teaching Assistant.** BIOL 4142 Ornithology Lab 2008  
Louisiana State University. Professor Dr. J. V. Remsen Jr.  
**Teaching Assistant.** BIOL 1208 Introductory Biology I 2007  
Louisiana State University. Professor Dr. E. W. Wischusen

## WORKSHOPS

- Instructor.** Genomics and Bioinformatics 2017  
Harvard University. Ornithological Congress of the Americas. Misiones, Argentina  
Co-taught with Dr. S. V. Edwards, Dr. T. B. Sackton, and Dr. A. J. Shultz
- Instructor.** Scientific Collections Workshop 2007  
II Colombian Ornithology Congress, Bogotá, Colombia  
Co-taught with Dr. F. G. Stiles and Dr. A. M. Cuervo

## PUBLICATIONS

\*CO-ADVISED GRADUATE STUDENTS

\*\* MENTORED UNDERGRADUATE STUDENTS

### REFEREED PUBLICATIONS IN REVIEW

- (31) Corbett, E. C.\*\*, **G.A. Bravo**, F. Schunck, L. N. Naka, L. F. Silveira, S. V. Edwards. Testing the Pleistocene Arc hypothesis with genome-wide SNP analyses of a Neotropical dry-forest specialist, the Rufous-fronted Thornbird (Furnariidae: *Phacellodomus rufifrons*). In review at *Molecular Ecology* [MEC-19-133].
- (30) Bocalini, F.\*, S. D. Bolívar-Leguizamón\*, L. F. Silveira, **G. A. Bravo**. The avifauna of the northern Atlantic Forest: Idiosyncratic genomic signatures of Pleistocene refugia and past connections with Amazonia. In review at *Molecular Phylogenetics and Evolution* [MPE\_2019\_602].
- (29) Bolívar-Leguizamón, S. D.\*, L. F. Silveira, E. P. Derryberry, R. T. Brumfield, **G. A. Bravo**. A dynamic history of divergence with gene flow explains the circum-Amazonian distribution of the Variable Antshrike (Thamnophilidae: *Thamnophilus caerulescens*). In review at *Molecular Phylogenetics and Evolution* [MPE\_2019\_563].
- (28) Harvey, M. G.†, **G. A. Bravo**†, S. Claramunt, A. M. Cuervo, G. E. Derryberry, J. Battilana, G. F. Seeholzer, J. Shearer, B. C. Faircloth, S. V. Edwards, J. Pérez-Emán, R. G. Moyle, F. H. Sheldon, A. Aleixo, B. T. Smith, R. T. Chesser, L. F. Silveira, J. Cracraft, R. T. Brumfield, E. P. Derryberry. The evolution of a tropical biodiversity hotspot. In review at *Science* [aaz6970].  
† **Co-first authors**
- (27) Dickens, J., P-P Bitton, **G. A. Bravo**, L. F. Silveira. Species-limits and patterns of secondary contact in the *Trogon rufus* complex (Aves: Trogonidae). In review at *Zoological Journal of the Linnean Society* [ZOJ-05-2019-3704].

### REFEREED PUBLICATIONS IN PRESS

- (26) Chesser, R. T., M. L., Isler, A. M. Cuervo, C. D. Cadena, S. C. Galen, L. M. Bergner, R. C. Fleischer, **G. A. Bravo**, D. F. Lane, P. A. Hosner. Conservative plumage masks extraordinary phylogenetic diversity in the *Grallaria rufula* (Rufous Antpitta) complex of the humid Andes. In review at *The Auk* [AUK-19-183].
- (25) Cadena, C. D., A. M. Cuervo, L. N. Céspedes, **G. A. Bravo**, N. Krabbe, T. S. Schulenberg, G. E. Derryberry, L. F. Silveira, E. P. Derryberry, R. T. Brumfield, J. Fjeldså. 2019. Systematics, biogeography and diversification of *Scytalopus tapaculos* (Rhinocryptidae), an enigmatic radiation of Neotropical montane birds. bioRxiv 600775 <https://doi.org/10.1101/600775>. *The Auk* [AUK-19-075].

### REFEREED PUBLICATIONS

- (24) Lamichhaney, S., D. C. Card, P. Grayson, J. F. R. Tonini, **G. A. Bravo**, K. Nöpflin, F. Termignoni-Garcia, C. Torres, F. Burbrink, J. A. Clarke, T. B. Sackton, S. V. Edwards. Natural history-derived phenomics and comparative genomics as tools for studying evolutionary convergence. *Philosophical Transactions of the Royal Society B* 374:20180248 <https://doi.org/10.1098/rstb.2018.0248>
- (23) Oliveros, C. H., D. J. Field, D. T. Ksepka, F. K. Barker, A. Aleixo, M. J. Andersen, P. Alström, B. W. Benz, E. L. Braun, M. Braun, **G. A. Bravo**, R. T. Brumfield, R. T. Chesser, S. Claramunt, J. Cracraft, A. M. Cuervo, E. P. Derryberry, T. C. Glenn, M. G. Harvey, P. A. Hosner, L. Joseph, R. T. Kimball, A. L. Mack, C. M. Miskelly, A. T. Peterson, M. B. Robbins, F. H. Sheldon, L. F. Silveira, B. T. Smith, N. D. White, R. G. Moyle, B. C. Faircloth.

- Earth history and the passerine superradiation. *Proceedings of the National Academy of Sciences USA* 116: 7916-7925 <https://doi.org/10.1073/pnas.1813206116>
- (22) **Bravo, G. A.**, A. Antonelli, C. D. Bacon, K. Bartoszek, M. Blom, S. Huynh, G. Jones, L. L. Knowles, S. Lamichhaney, T. Marcussen, H. Morlon, L. Nahkkeh, B. Oxelman, B. Pfeil, A. Schliep, N. Wahlberg, F. Werneck, J. Wiedenhoft, S. Willows-Munro, and S. V. Edwards. Embracing heterogeneity: Coalescing the Tree of Life and the future of phylogenomics. *PeerJ* 7:e6399 <https://doi.org/10.7717/peerj.6399>
- (21) Carneiro, L., **G. A. Bravo**, and A. Aleixo. 2018. Phenotypic similarity leads to taxonomic inconsistency: a revision of the genera *Hylopezus* and *Mymothera* (Passeriformes, Grallariidae), with description of a new genus from the Atlantic Forest. *Zoologica Scripta* 48:46–56. <https://doi.org/10.1111/zsc.12324>
- (20) Van Doren, B. M., B. G. Freeman, N. Aristizábal, M. Álvarez-R, J. Pérez-Emán, A. M. Cuervo, and **G. A. Bravo**. 2018. Species limits in the Rusty-breasted Antpitta (*Grallaricula ferrugineipectus*) complex. *Wilson Journal of Ornithology* 130: 152–167. <https://doi.org/10.1676/16-126.1>
- (19) Carneiro, L., **G. A. Bravo**, N. Aristizábal, A. M. Cuervo, and A. Aleixo. 2018. Molecular systematics and biogeography of lowland antpittas (Aves, Grallariidae): The role of vicariance and dispersal in the diversification of a widespread Neotropical lineage. *Molecular Phylogenetics and Evolution* 120: 375–389. <https://doi.org/10.1016/j.ympev.2017.11.019>
- (18) Ceriaco, L., E. E. Gutiérrez, A. Dubois [and 493 co-signatories]. 2016. Photography-based taxonomy is inadequate, unnecessary, and potentially harmful for biological sciences. *Zootaxa* 4196:435–445. <http://dx.doi.org/10.11646/zootaxa.4196.3.9>
- (17) Winger, B. M., P. A. Hosner, **G. A. Bravo**, A. M. Cuervo, N. Aristizábal, L. E. Cueto, and J. M. Bates. 2015. Inferring speciation history in the Andes with reduced-representation sequence data: an example in the bay-backed antpittas (Aves; Grallariidae; *Grallaria hypoleuca* s. l.). *Molecular Ecology* 24: 6256–6277. <https://doi.org/10.1111/mec.13477>
- (16) Isler, M. L., **G. A. Bravo**, and R. T. Brumfield. 2014. Systematics of the obligate ant-following clade of antbirds (Aves: Passeriformes: Thamnophilidae). *Wilson Journal of Ornithology* 126: 635–648. <https://doi.org/10.1676/13-199.1>
- (15) **Bravo, G. A.**, J. V. Remsen, Jr. and R. T. Brumfield. 2014. Adaptive processes drive ecomorphological convergent evolution in antwrens (Thamnophilidae). *Evolution* 68: 2757–2774. <https://doi.org/10.1111/evo.12506>
- (14) Harvey, M. G., Seeholzer, G. F., D. Cáceres-A, B. M. Winger, J. G. Tello, F. Hernández-Camacho, M. A. Aponte-Justiniano, C. V. Duffie, S. Figueroa-Ramírez, R. S. Terrill, C E. Brown, L. Alza, **G. A. Bravo**, M. Combe, O. Custodio, A. Quiñones-Zumaeta, A. Urbay-Tello, W. A. Garcia-Bravo, A. Z. Savit, F. W. Pezo-Ruiz, and W. M. Mauck. 2014. The avian biogeography of an Amazonian headwater: the upper Ucayali River, Peru. *Wilson Journal of Ornithology* 126: 179–191. <https://doi.org/10.1676/13-135.1>
- (13) Isler, M. L., **G. A. Bravo**, and R. T. Brumfield. 2014. *Inundicola* Bravo, Isler, and Brumfield. 2013 is a junior synonym of *Akletos* Dunajewski 1948 (Aves: Passeriformes: Thamnophilidae). *Zootaxa* 3779: 399–400. <http://dx.doi.org/10.11646/zootaxa.3779.3.10>
- (12) Tello, J. G., M. Raposo, J. M. Bates, **G. A. Bravo**, C. D. Cadena, and M. Maldonado-Coelho. 2014. Phylogenetic analyses of molecular data in reassessing the systematics of the widespread Neotropical genus *Cercomacra* (Aves, Thamnophilidae). *Zoological Journal of the Linnean Society* 170: 546–565. <https://doi.org/10.1111/zoj.12116>
- (11) Isler, M. L., **G. A. Bravo**, and R. T. Brumfield. 2013. Taxonomic revision of *Myrmeciza* (Aves: Passeriformes: Thamnophilidae) into 12 genera based on phylogenetic, morphological, behavioral, and ecological data. *Zootaxa* 3717: 469–497. <http://dx.doi.org/10.11646/zootaxa.3717.4.3>
- (10) Whitney, B. M., M. L. Isler, **G. A. Bravo**, N. Aristizábal, F. Schunck, L. F. Silveira, V. de Q. Piacentini, M. Cohn-Haft, and M. A. Rêgo. 2013. A new species of antbird in the *Hypocnemis cantator* complex from the Aripuanã-Machado interfluvium in central Amazonian Brazil. Pp. 282–285 in: del Hoyo, J., A. Elliott, J. Sargatal, and D. A. Christie (eds.). 2013. *Handbook of the Birds of the World. Special Volume: New Species and Global Index*. Lynx Edicions, Barcelona.

- (9) Whitney, B. M., M. Cohn-Haft, **G. A. Bravo**, F. Schunck, and L. F. Silveira. 2013. A new species of *Herpsilochmus* antwren from the Aripuanã-Machado interfluvium in central Amazonian Brazil. Pp. 277–281 in: del Hoyo, J., A. Elliott, J. Sargatal, and D. A. Christie (eds.). 2013. **Handbook of the Birds of the World. Special Volume: New Species and Global Index**. Lynx Edicions, Barcelona.
- (8) Cohn-Haft, M. and **G. A. Bravo**. 2013. A new species of *Herpsilochmus* antwren from west of the Rio Madeira in Amazonian Brazil. Pp. 272–276 in: del Hoyo, J., A. Elliott, J. Sargatal, and D. A. Christie (eds.). 2013. **Handbook of the Birds of the World. Special Volume: New Species and Global Index**. Lynx Edicions, Barcelona.
- (7) Whitney, B. M., M. L. Isler, **G. A. Bravo**, N. Aristizábal, F. Schunck, L. F. Silveira, and V. de Q. Piacentini. 2013. A new species of *Epinecrophylla* antwren from the Aripuanã-Machado interfluvium in central Amazonian Brazil with revision of the “stipple-throated antwren” complex. Pp. 263–267 in: del Hoyo, J., A. Elliott, J. Sargatal, and D. A. Christie (eds.). 2013. **Handbook of the Birds of the World. Special Volume: New Species and Global Index**. Lynx Edicions, Barcelona.
- (6) Belmonte-Lopes, R., **G. A. Bravo**, M. R. Bornschein, G. N. Maurício, M. R. Pie, and R. T. Brumfield. 2012. Genetic and morphological data support the placement of *Myrmotherula gularis* (Spix) in the monotypic genus *Rhopias* Cabanis and Heine (Aves: Passeriformes: Thamnophilidae). *Zootaxa* 3451: 1–16. <http://dx.doi.org/10.11646/zootaxa.3451.1.1>
- (5) Isler, M. L., A. M. Cuervo, **G. A. Bravo**, and R. T. Brumfield. 2012. An integrative approach to species level systematics reveals the depth of diversification in an Andean thamnophilid, the Long-tailed Antbird. *Condor* 114:571-583. <https://doi.org/10.1525/cond.2012.120012>
- (4) **Bravo, G. A.**, J. V. Remsen, Jr., B. M. Whitney, and R. T. Brumfield. 2012. DNA sequence data reveal a subfamily-level divergence within Thamnophilidae (Aves: Passeriformes). *Molecular Phylogenetics and Evolution* 65: 287–293. <https://doi.org/10.1016/j.ympev.2012.06.016>
- (3) **Bravo, G. A.**, R. T. Chesser, and R. T. Brumfield. 2012. *Iseria*, a new genus of antwren (Aves: Passeriformes: Thamnophilidae). *Zootaxa* 3195: 61–67. <http://dx.doi.org/10.11646/zootaxa.3195.1.5>
- (2) Gibbons, R. E., J. Barrio, **G. A. Bravo**, and L. Alza. 2011. Assessing the geographic range of Black-fronted Ground-Tyrants (*Muscisaxicola frontalis*) using extralimital and winter range occurrence records and ecological niche modeling. *Journal of Field Ornithology* 82:355–365. <https://doi.org/10.1111/j.1557-9263.2011.00339.x>
- (1) Gómez, J. P., **G. A. Bravo**, R. T. Brumfield, J. G. Tello, and C. D. Cadena. 2010. A phylogenetic approach to disentangling the role of competition and habitat filtering in community assembly of Neotropical forest birds. *Journal of Animal Ecology* 79:1181–1192. <https://doi.org/10.1111/j.1365-2656.2010.01725.x>

#### BOOK CHAPTERS

- (5) Cortés-Herrera, J. O. and **Bravo, G. A.** 2014. *Grallaria kaestneri*, Tororoi de Cundinamarca, Cundinamarca Antpitta. In: Luis Miguel Renjifo; María Fernanda Gómez; Jorge Velásquez-Tibatá; Angel María Amaya-Villarreal; Gustavo H. Kattan; Juan David Amaya-Espinel; Jorge Burbano-Girón. (Org.). **Libro Rojo de Aves de Colombia (Vol. I). Bosques húmedos de los Andes y la costa Pacífica**. 1ed. Bogotá: Pontificia Universidad Javeriana, v. 1, p. 215-217.
- (4) Naranjo L. G. and **Bravo G. A.** 2006. Estado del conocimiento sobre aves acuáticas en Colombia. En: Chaves M. E. and Santamaría M. (eds.) 2006. **Informe Nacional sobre los avances en conocimiento e información de biodiversidad 1998 – 2004**. Instituto de Investigación de Recursos Biológicos Alexander von Humboldt, Ministerio de Ambiente, Vivienda y Desarrollo Territorial. Bogotá, Colombia.
- (3) **Bravo G. A.** and Naranjo L. G. 2006. Estado del conocimiento sobre aves terrestres en Colombia. En: Chaves M. E. and Santamaría M. (eds.) 2006. **Informe Nacional sobre los avances en conocimiento e información de biodiversidad 1998 – 2004**. Instituto de Investigación de Recursos Biológicos Alexander von Humboldt, Ministerio de Ambiente, Vivienda y Desarrollo Territorial. Bogotá, Colombia.
- (2) Franco, A. M. and **G. A. Bravo**. 2005. Áreas Importantes para la Conservación de las Aves en Colombia Pp. 117-282 In BirdLife International and Conservation International. **Áreas Importantes para la Conservación**

*de las Aves de los Andes Tropicales: sitios prioritarios para la conservación de la biodiversidad*. Quito, Ecuador: BirdLife Internacional (Serie de Conservación de BirdLife No. 14).

- (1) **Bravo G. A.** 2004. Ecología alimentaria de la comunidad de aves ictiófagas durante la época seca en la confluencia Meta-Orinoco, Puerto Carreño, Colombia. En: **Fauna acuática de la Orinoquia Colombiana**. Trujillo, F. and Díazgranados, M. C. (Eds.) Fundación Omacha. Instituto Alexander von Humboldt. Pontificia Universidad Javeriana. Bogotá, Colombia.

#### NON-REFEREED PUBLICATIONS

- (2) Piacentini, V. Q., A. Aleixo, C. E. Agne, G. N. Maurício, J. F. Pacheco, **G. A. Bravo**, G. R. R. Brito, L. N. Naka, F. Olmos, S. R. Posso, L. F. Silveira, G. S. Betini, E. Carrano, I. Franz, A. Lees, L. Lima, D. Pioli, F. Schunck, F. R. do Amaral, G. A. Bencke, M. Cohn-Haft, L. F. A. Figueiredo, F. Straube and E. Cesari. 2015. Annotated checklist of the birds of Brazil by the Brazilian Ornithological Records Committee / Lista comentada das aves do Brasil pelo Comitê Brasileiro de Registros Ornitológicos. **Revista Brasileira de Ornitologia** 23(2): 91–298. <http://www.revbrasilornitol.com.br/BJO/article/view/1263>
- (1) Claramunt, S., A. M. Cuervo, V. de Q. Piacentini, **G. A. Bravo**, and J. V. Remsen, Jr. 2014. Comment on *Grallaria fenwickorum* Barrera and Bartels, 2010 (Aves, Grallariidae): proposed replacement of an indeterminate holotype by a neotype (Case 3623; see BZN 70: 99–102, 256–269). **Bulletin of Zoological Nomenclature** 71(1): 40-43. <https://www.biotaxa.org/bzn/article/view/38253>

#### CURATORIAL EXPERIENCE

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<b>Curatorial Assistant - Ornithology Collection</b>	2005 – 2010
Louisiana State University Museum of Natural Science. Curator Dr. J. V. Remsen Jr	
<b>Curatorial Assistant - Ichthyology Collection</b>	2009
Louisiana State University Museum of Natural Science. Curator Dr. P. Chakrabarty	

#### FUNDING AND FELLOWSHIPS

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<b>Goelet Research Award</b>	2019
Harvard University, Museum of Comparative Zoology. “Genomic basis of convergent plumage evolution associated with dry habitats in a diverse radiation of Neotropical birds” (US\$240).	
<b>NSF Dimensions US-BIOTA-São Paulo</b>	2018 – present
National Science Foundation (NSF) – São Paulo Research Foundation (FAPESP). Grant DEB-1831560. Edwards, Solferini (PIs), Burbrink, Carstens, de Faria, de Morães, Digiampetri, Amaral, Xie, Zamudio (Co-PIs), <b>Bravo</b> (Collaborator) “ <i>Traits as predictors of adaptive diversification along the Brazilian Dry Diagonal</i> ” (US\$4,000,000).	
<b>Putnam Expedition Grant</b>	2017
Harvard University, Museum of Comparative Zoology. “ <i>Genomic basis of phenotypic divergence associated to environmental conditions in the Thamnophilidae</i> ” (US\$5,475).	
<b>SSB Travel and Support Award</b>	2017
Society for Systematic Biology (SSB). “ <i>Convergent evolution of antbird plumage in dry habitats.</i> ” (US\$500).	
<b>CNPq Universal Project (Brazil)</b>	2016 – 2019
National Council of Technological and Scientific Development (CNPq). Grant 432630/2016-3. Naka (PI); <b>Bravo</b> , Raposo do Amaral, Cabanne, Edwards, Guedes, Pil, Araújo, Tubaro, Claramunt (Co-PIs) “ <i>Distribution, origin, and diversification of the Caatinga endemic avifauna.</i> ” (R\$60,000 [US\$17,760 on December 10, 2017]).	
<b>FACEPE Research Grant (Brazil).</b>	2015 – 2019

Pernambuco Research Foundation (FACEPE). Grant APQ-0337-2.04/15. Naka (PI); <b>Bravo</b> , Raposo do Amaral, Cabanne, Fernandes, de Souza (Co-PIs). <i>“Distribution, origin, and diversification of the Caatinga endemic avifauna”</i> (R\$71,600 [US\$22,145 on July 10, 2015]).	
<b>CNPq Universal Project (Brazil)</b>	2014 – 2019
National Council of Technological and Scientific Development (CNPq). Grant 457974/2014-1. Silveira (PI); <b>Bravo</b> (Co-PI) <i>“Origin, evolution, and biogeography of the birds in the Pernambuco center of endemism”</i> (R\$120,000 [US\$48,940 on Oct 1, 2014]).	
<b>AOU Post-doctoral Travel Award</b>	2014
American Ornithologists’ Union (AOU). <i>“Adaptive processes drive ecomorphological convergent evolution in antwrens (Thamnophilidae)”</i> (US\$1,200).	
<b>FAPESP Postdoctoral Fellowship (Brazil)</b>	2013 – 2016
São Paulo Research Foundation (FAPESP). Grant 2012/23852-0. <b>Bravo</b> (PI); Silveira (Co-PI) <i>“Systematics, biogeography, and phenotypic evolution of the Thamnophilini (Aves, Thamnophilidae): a massive parallel DNA sequencing approach”</i> . (R\$244,332.60 [US\$121,000 on Apr 1, 2013]).	
<b>NOS Travel and Support Award</b>	2011
Neotropical Ornithological Society (NOS) <i>“Testing the role of environmental heterogeneity in driving diversification of the antbirds (Thamnophilidae)”</i> (US\$550).	
<b>NSF Travel and Support Award</b>	2010
National Science Foundation (NSF). R Methods in Macroevolution Workshop. (US\$750).	
<b>NSF Doctoral Dissertation Improvement Grant (DDIG)</b>	2010 – 2013
National Science Foundation (NSF). Grant DEB-1011435. Brumfield (PI); <b>Bravo</b> (Co-PI) <i>“Phenotypic and niche evolution in the antbirds (Aves, Thamnophilidae)”</i> (US\$15,000).	
<b>NIMBioS Travel and Support Award</b>	2010
National Institute for Mathematical and Biological Synthesis (NIMBioS). <i>“HPC for Phylogenetics tutorial – Fast, free phylogenies.”</i> (US\$335).	
<b>LSUMNS Big Day Fund</b>	2010
Louisiana State University Museum of Natural Science. (US\$1,000).	
<b>AOU Research Award</b>	2009
American Ornithologists’ Union. <i>“Phylogenetic analysis of phenotypic divergence in the antbirds (Thamnophilidae)”</i> (US\$1,500).	
<b>AOU Travel Award</b>	2009
American Ornithologists’ Union. <i>“Phylogenetic analysis of phenotypic divergence in the antbirds (Thamnophilidae)”</i> (US\$300).	
<b>Frank Chapman Memorial Fund Award</b>	2009
American Museum of Natural History. <i>“Phylogenetic analysis of phenotypic divergence in the antbirds (Thamnophilidae)”</i> (US\$1,764).	
<b>Exploration Fund Grant</b>	2008
The Explorer’s Club. <i>“Phenotypic and niche evolution in the antbirds (Thamnophilidae)”</i> (US\$1,364).	
<b>LSUMNS Big Day Fund</b>	2007
Louisiana State University Museum of Natural Science. (US\$1,200).	
<b>LSU Biograds Fund</b>	2007
Louisiana State University Department of Biological Sciences. (\$300).	
<b>LSUMNS Big Day Fund</b>	2006
Louisiana State University Museum of Natural Science. (US\$2,000).	

## HONORS AND AWARDS

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<b>Doctor of Science (<i>honoris causa</i>)</b> Universidad Científica del Perú (UCP)	2018
<b>Extraordinary Professor</b> Universidad Científica del Perú (UCP)	2018 – present
<b>Best Student Presentation Award</b> American Ornithologists' Union (AOU) “ <i>Phylogenetic analysis of phenotypic divergence in the antbirds (Thamnophilidae)</i> ”	2009
<b>Best Student Presentation Award</b> Colombian Ornithological Society (ACO) “ <i>Ecología alimentaria de la comunidad de aves piscívoras durante la época seca en la confluencia Meta-Orinoco</i> ”	2010

## INVITED PRESENTATIONS AT PROFESSIONAL MEETINGS

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- Solís-Lemus, C., **Bravo, G. A.**, Höhna, S., Molloy, E. K. 2020. Coalescent-based methods in the age of big data. Society of Systematic Biology 2020. Gainesville, FL. **Discussion Forum.**
- Bravo, G. A.** 2018. Una perspectiva genómica sobre la diversificación de los suboscinos neotropicales. XI Congreso Peruano de Ornitología. Iquitos, Peru. **Keynote speaker.**
- Bravo, G. A.** 2014. What do next-generation sequencing data tell us about phylogenies? The suboscines as a study case. XXI Congresso Brasileiro de Ornitologia. Rio de Janeiro RJ, Brazil.
- Bravo, G. A.** 2014. What do phylogenies tell us about biodiversity? The Neotropical suboscines as a study case. The Royal Society, São Paulo Research Foundation, Brazilian Academy of Sciences. UK– Brazil– Chile Frontiers of Science. Buckinghamshire, UK.

## INVITED PRESENTATIONS AT ACADEMIC & PROFESSIONAL INSTITUTIONS

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- Nuttall Ornithological Club.** 2019. The natural history and diversification of Neotropical suboscine birds. Cambridge, MA.
- University of Massachusetts.** 2019. A genomic perspective on the diversification of Neotropical perching birds. Lowell, MA.
- Universidad Nacional de Colombia.** 2019. Una perspectiva genómica sobre la diversificación de los suboscinos neotropicales. Bogotá, Colombia.
- University of Vermont – EEB Seminars.** 2019. A genomic perspective on the diversification of Neotropical perching birds. Burlington, VT.
- Museu Paraense Emílio Goeldi and Universidade Federal do Pará.** 2014. Do adaptive processes drive phenotypic diversification in the antbird (Aves, Thamnophilidae)? Belém, Brazil.
- Universidade Federal do Estado de São Paulo (UNIFESP).** 2014. Do adaptive processes drive phenotypic diversification in the antbird (Aves, Thamnophilidae)? São Paulo, Brazil.
- Universidade de São Paulo.** 2014. Do adaptive processes drive phenotypic diversification in the antbird (Aves, Thamnophilidae)? São Paulo, Brazil.
- Occidental College.** 2012. Evolution in one of the New World's most diverse bird families: The antbirds. Los Angeles, CA.

## SYMPOSIA ORGANIZED AT PROFESSIONAL MEETINGS

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- X Neotropical Ornithological Congress and XXII Congresso Brasileiro de Ornitologia.** 2015. Impacts and applications of next-generation sequencing techniques in Neotropical ornithology. Manaus AM, Brazil.

**XXI Congresso Brasileiro de Ornitologia.** 2014. Systematics and biogeography of Neotropical suboscines. Rio de Janeiro RJ, Brazil.

## **CONTRIBUTED FIRST-AUTHOR PRESENTATIONS AT PROFESSIONAL MEETINGS**

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- Bravo, G. A.** 2019. The Genomic basis of plumage variation in antbirds. Gordon Research Seminar – Genomic Changes Behind Adaptation and Ecosystem Functions. Manchester, NH.
- Bravo, G. A.** 2019. The Genomic basis of plumage variation in antbirds. Gordon Research Seminar – Genomic Changes Behind Adaptation and Ecosystem Functions. Joint annual meeting of the Society for the Study of Evolution (SSE), the Society of Systematic Biologists (SSB), and the American Society of Naturalists (ASN). Providence, RI.
- Bravo, G. A.,** Marcondes, R., Brumfield, R. T. and Edwards, S. V. 2017. Convergent Evolution of antbird plumage in dry habitats. Society of Systematic Biologists (SSB) Standalone Meeting. Baton Rouge, LA.
- Bravo, G. A.,** Harvey, M. G., Derryberry, G., Cuervo, A. M. Claramunt, S. Chesser, R. T., Sheldon, F. H., Aleixo, A., Silveira, L. F., Cracraft, J., Brumfield, R. T., and Derryberry, E. P. 2017. A comprehensive species-level phylogeny of the suboscine passerines using genome-scale data. Ornithological Congress of the Americas. Sociedade Brasileira de Ornitologia (SBO), Aves Argentinas, and Association of Field Ornithologists (AFO). Iguazú, Argentina.
- Bravo, G. A.,** Cuervo, A. M., Harvey, M. G., Derryberry, G. E. Oliveros, C., Settlekowski, A., Battilana, J., Claramunt, S., Shearer, J., Smith, B. T., Sheldon, F. H., Chesser, R. T., Moyle, R. G., Aleixo, A., Cracraft, J., Silveira, L. F., Brumfield, R. T. and Derryberry, E. P. 2015. A phylogenomic perspective on the Suboscine passerine radiation: the Thamnophilidae as a study case. X Neotropical Ornithological Congress and XXII Congresso Brasileiro de Ornitologia. Manaus AM, Brazil.
- Bravo, G. A.,** Cuervo, A. M., Harvey, M. G., Derryberry, G. E. Oliveros, C., Settlekowski, A., Battilana, J., Claramunt, S., Shearer, J., Smith, B. T., Sheldon, F. H., Chesser, R. T., Moyle, R. G., Aleixo, A., Cracraft, J., Silveira, L. F., Brumfield, R. T. and Derryberry, E. P. 2015. A phylogenomic perspective on the suboscine passerine radiation: the Thamnophilidae as a study case. Joint annual meeting of the Society for the Study of Evolution (SSE), the Society of Systematic Biologists (SSB), and the American Society of Naturalists (ASN). Guarujá SP, Brazil.
- Bravo, G. A,** Belmonte-Lopes, R, Bornschein, M. R., Reinert, B. L., Pie, M. R., Isler, M. L., and R. T. Brumfield. Diversification and biogeography of the antbirds (Thamnophilidae). 2014. XXI Congresso Brasileiro de Ornitologia. Rio de Janeiro, Brasil.
- Bravo, G. A,** Remsen, J. V. Jr. and R. T. Brumfield. 2014. Adaptive processes drive ecomorphological convergent evolution in antwrens (Thamnophilidae). American Ornithologists' Union/ Cooper Ornithological Society/ Société des Ornithologistes du Canada Meeting. Estes Park, CO.
- Bravo G. A.,** Isler, M. L. and R. T. Brumfield. 2011. Testing the role of environmental heterogeneity in driving diversification of the antbirds (Thamnophilidae). Neotropical Ornithological Society. Cusco, Peru.
- Bravo G. A.,** Isler, M. L. and R. T. Brumfield. 2011. Testing the role of geography and environmental heterogeneity in driving diversification of the antbirds (Thamnophilidae). American Ornithologists' Union. Jacksonville, FL. USA.
- Bravo G. A.** and R. T. Brumfield. 2010. Análisis filogenético de la evolución fenotípica de los hormigueros (Aves: Thamnophilidae). III Congreso Colombiano de Zoología and III Congreso de Ornitología Colombiana. Medellín, Colombia.
- Bravo G. A.** and R. T. Brumfield. 2010. Phylogenetic analysis of phenotypic divergence in the antbirds (Aves: Thamnophilidae). Joint annual meeting of the Society for the Study of Evolution (SSE), the Society of Systematic Biologists (SSB), and the American Society of Naturalists (ASN). Portland, OR. USA.
- Bravo G. A.** 2009. Phylogenetic analysis of phenotypic divergence in the antbirds (Thamnophilidae). American Ornithologists' Union. Philadelphia, PA. USA. **Best Student Presentation Award.**



- Bravo G. A.** 2008. Ecological and phylogenetic effects in the phenotypic evolution of the antbirds (Thamnophilidae). American Ornithologists' Union/ Cooper Ornithological Society/ Societ  des Ornithologistes du Canada Meeting. Portland, OR. USA.
- Bravo G. A.** 2004. Ecologia alimentaria de la comunidad de aves pisc voras durante la  poca seca en la confluencia Meta-Orinoco. I Colombian Ornithology Congress, Santa Marta, Colombia. **Best Student Presentation Award.**
- Bravo G. A.** and A. M. Franco. 2004. Identifying Important Bird Areas in Colombia: a participative and research process. Fourth Important Bird Areas Conference, Tucson AZ.
- Bravo, G. A.** 2003. Foraging ecology of piscivorous birds during dry season in the confluence of the Meta and Orinoco rivers, Colombia. 27th Waterbird Society Meeting, Cuiab , Mato Grosso, Brazil.

## ADDITIONAL TRAINING AND EDUCATION

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<b>R Methods in Macroevolution Workshop</b>	2011
National Science Foundation (NSF), Santa Barbara, CA. USA.	
<b>HPC for Phylogenetics Tutorial – Fast, free phylogenies</b>	2010
National Institute for Mathematical and Biological Synthesis (NIMBioS). Knoxville, TN. USA.	
<b>Species Distribution Modeling and Applications</b>	2006
Stony Brook University–Universidad Nacional de Colombia, Bogot�, Colombia.	
<b>Bioacoustics and Electric Signals in Fish</b>	2005
Instituto Alexander von Humboldt. Villa de Leyva, Colombia.	
<b>Management of Biological Invasions</b>	2004
Instituto Alexander von Humboldt. Bogot�, Colombia.	
<b>Introduction to Geographic Information Systems and Applications to Natural Resources</b>	2002
Universidad Nacional de Colombia, Bogot�, Colombia.	

## STUDENT SUPERVISION AND MENTORING

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ALL DOCTORAL AND MASTERS STUDENTS CO-ADVISED WITH BRAZILIAN FACULTY

### DOCTORAL STUDENTS (6)

- Hevana Lima (2019 – present; Universidade Federal de Pernambuco, Brazil)
- Andr s Rojas (2018 – present; Universidade de S o Paulo, Brazil)
- Gabriel Macedo (2017 – present; Universidade Federal do ABC, Brazil)
- Fernando Bocalini (2015 – 2019; Universidade de S o Paulo, Brazil)
- Sergio Bol var (2015 – 2019; Universidade de S o Paulo, Brazil)
- Ariane Gouv a (2014 – 2018; Universidade de S o Paulo, Brazil)

### MASTERS STUDENTS (3)

- Renata Beco (2016 – 2018; Universidade de S o Paulo, Brazil)
- Diego Alejandro Cueva (2015 – 2017; Universidade de S o Paulo, Brazil)
- Cristiane Apolin rio (2015 – 2017; Universidade de S o Paulo, Brazil)

### UNDERGRADUATE STUDENTS (7)

- Jack Lawlor (2019 – present; Harvard University)
- Cid Thillairahaj (2019 – present; Harvard University)
- Johnathan Clark (2018 – 2019; Harvard University)
- Eamon Corbett (2016 – 2017; Harvard University)
- Renata Beco (2014 – 2016; Universidade de S o Paulo, Brazil)
- Kevin Fontana (2014 – 2015; Universidade Estadual de S o Paulo, Brazil)
- Jacob Saucier (2010; Louisiana State University)

## **PARTICIPATION IN GRADUATE EXAMINATION COMMITTEES (2014 – PRESENT)**

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Ph.D. Defenses: 5 (Universidade de São Paulo, Museu Paraense Emílio Goeldi)

Ph.D. Qualifications: 5 (Universidade de São Paulo)

M.Sc. Defenses: 3 (Universidade Federal do Estado de São Paulo, Universidade Federal do Mato Grosso)

M.Sc. Qualifications: 2 (Universidade Federal do Estado de São Paulo, Instituto Nacional de Pesquisas Amazônicas)

M.Sc. Committee: 1 (Universidad de Antioquia)

## **PROFESSIONAL AND COMMUNITY SERVICE**

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### **INVITED PANELIST**

2019. LatinX in Science – Navigating your identity in scientific research. Office of Undergraduate Research and Fellowships. Harvard University.

### **AD HOC EDITORIAL SERVICE**

2017 – present. Revista Ornitología Colombiana. Associate Editor – Systematics and Evolution.

### **AD HOC PROFESSIONAL COMMITTEES**

2015 – present. Brazilian Ornithological Records Committee (CBRO). Member of the Taxonomy Group.

### **AD HOC GRANT REVIEWER SERVICES**

2018 – present. Society of Systematic Biologists. Mini-ARTS Awards.

### **AD HOC REVIEWER FOR REFEREED JOURNALS**

Systematic Biology, Evolution, Ecology Letters, Journal of Biogeography, Biological Journal of the Linnean Society, G3 Genes- Genomes-Genetics, Evolutionary Ecology, Auk, Wilson Journal of Ornithology, Journal of Field Ornithology, Austral Ecology, Journal of Natural History, Zoologia, Bulletin of the British Ornithologists' Club, Ornitología Neotropical, Revista Brasileira de Ornitologia, Ornitología Colombiana, Actualidades Biológicas, Boletín SAO, Acta Biológica Colombiana, Check List.

### **PROFESSIONAL SOCIETIES MEMBERSHIP**

American Association for the Advancement of Science; Society for the Study of Evolution; Society of Systematic Biologists; American Ornithological Society; Asociación Colombiana de Ornitología (founding member).

### **COMMUNITY SOCIETIES MEMBERSHIP**

Harvard Colombian Student Society

## **PROFESSIONAL REFERENCES**

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### **Dr. Scott. V. Edwards**

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McIlhenny Distinguished Professor of Natural Science, and Adjunct Professor of Biological Sciences  
Curator of Birds, Museum of Natural Science  
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