

Juan Pablo Gomez.
Postdoctoral Associate
Spatial Epidemiology and Ecology Research Lab (SEER)
Department of Geography
Ponciano Lab
Department of Biology
University of Florida

Email: jugomez@ufl.edu or personal Email: gomez444@gmail.com
Tel: (1-352) 273-5555 and (1-352) 484-6303

Education

- 2010 – 2016 PhD Ordway Lab for Ecosystem Conservation. Department of Biology & Florida Museum of Natural History. University of Florida. Gainesville, Fl.
- 2006 – 2009 Master in Biological Sciences. Department of Biology, Universidad de los Andes, Bogotá, Colombia.
- 2000 – 2006 B. Sc. Biology, Universidad de los Andes, Bogotá, Colombia.

Publications

- 2017 Gillooly, J.F., **J.P. Gomez** and E.V. Mavrodiev. A broad-scale comparison of aerobic activity levels in vertebrates: endotherms versus ectotherm. *Proceedings of the Royal Society of London B*. 284: 20162328.
- 2017 Sandoval-Hernández, J, **J.P. Gomez**, C.D. Cadena. Is the largest river valley west of the Andes a driver of diversification in Neotropical lowland birds? *The Auk*. 134 (1): 168 - 180.
- 2016 Zhong, M. G.M. Hill, **J.P. Gomez**, D. Plotkin, J.R. Barber & A.Y. Kawahara. Quantification of wing shape and size variation in Saturniidae. *Journal of Tropical Lepidoptera*. 70 (2): 99 – 107.
- 2016 Gillooly, J., **J.P. Gomez**, E. Mavrodiev, Y. Rong, E.S. McLamore. Structural constraints on passive oxygen diffusion explain body mass scaling of metabolic rate. *Proceedings of the National Academy of Sciences*. 113 (19): 5340 -5345.
- 2016 Martinez, A., **J.P. Gomez**, J.M. Ponciano, and S.K. Robinson. Functional traits, flocking propensity and perceived predation risk in an Amazonian understory bird community. *The American Naturalist*. 187 (5): 607 - 619.
- 2015 Mavrodiev, E., **J.P. Gomez**, A. Laktionov, S.K. Robinson. Invasive plant distributions recapitulate patterns found in native plant assemblages in a heterogeneous landscape. *Ecosphere*. 6 (4): 48.
- 2013 Martinez A. and **J.P. Gomez**. Are Mixed-species flocks stable through two decades? *The American Naturalist*. 181: E53 - E59.
- 2012 Cadena, C.D., K. H. Kozak, **J. P. Gomez**, J. L. Parra, C. M. McCain, R. C. K. Bowie, A. C. Carnaval, C. Moritz, C. Rahbek, T. E. Roberts, N. J. Sanders, C. Schneider, J. VanDerWal, K. Zamudio & C. H. Graham. Latitude, elevational climatic zonation, and speciation in New World vertebrates. *Proceedings of the Royal Society of London B*, 279 (1726): 194 – 201.
- 2010 **Gomez J.P.**, Bravo, G.A. Brumfield, R.T., Tello, J.G. and C.D. Cadena. A phylogenetic approach to disentangling the role of competition and habitat filtering in community assembly of Neotropical forest birds. *Journal of Animal Ecology*, 78 (6): 1181 – 1192.

Book Chapters

- 2014 **Gomez, J.P.** and S.K. Robinson. Aves del bosque seco tropical de Colombia: las comunidades del valle alto del río Magdalena. *In: El Bosque Seco Tropical en Colombia*. M.C. Pizano Editor. Ediciones Instituto Alexander von Humboldt. Bogota – Colombia.

Publications in Review

- _____ **Gomez, J.P.**, S.K. Robinson, J.K. Blackburn, J.M. Ponciano. An efficient extension of N-mixture models for multispecies abundance estimation. *Methods in Ecology and Evolution*. *In Review*.
- _____ Pulgarin, P. **Gomez, J.P.**, S.K. Robinson, R. Ricklefs, C.D. Cadena. Host Species, and not Environment, Predicts Variation in Parasite Prevalence, Distribution, and Diversity along a Humidity Gradient in Northern South America. *Journal of Animal Ecology*. *In Review*.
- _____ **Gomez, J. P.**, E. Ortiz-Acevedo, and J. E. Botero. Effects of shade coffee certification programs on bird, plant and butterfly diversity in Colombia. *Biotropica*. *In Revision*. Resubmission.

Publications in Preparation

- _____ **Gomez, J.P.** and S.K. Robinson. Asymmetric effects of environmental filtering on the assembly of tropical lowland forest bird communities along a moisture gradient. *Journal of Animal Ecology*. *In Prep*.
- _____ **Gomez, J.P.**, J.M. Ponciano & S.K. Robinson. Rainfall effects on taxonomic, functional and phylogenetic turnover of lowland forest bird communities. *Journal of Biogeography*. *In Prep*.
- _____ Ponciano, J.M., **J.P Gomez**, R.D. Holt, M. Barfield, W. Getz and J. Blackburn. Inferring processes from dynamic abundance time series. *Methods in Ecology and Evolution*. *In prep*.

Grants and Fellowships

- 2015 AOU Research Award. AOU USD\$ 2500
- 2014 College of Liberal Arts and Sciences. UF. Travel Award. USD\$ 300
- 2014 Congreso Colombiano de Zoologia. Travel award. USD\$ 350
- 2013 Waitts Grant. National Geographic Society. USD\$ 12.000
- 2012 Frank M. Chapman Research Award. AMNH. USD\$ 2.500
- 2011 Sigma Xi Grants in aid of Research. USD\$ 800.
- 2011 Wilson Ornithological Society. Louis Agassiz Fuertes Research Award. USD\$ 2500.
- 2010 ALUMNI Fellowship, University of Florida. USD\$25.000 per year for four years
- 2008 125th AOU/COS/SCO meeting (Portland, Oregon). Travel Award. USD\$ 200
- 2007 Proyecto Semilla, Universidad de los Andes for Gomez J.P. & C.D. Cadena. USD\$1000
- 2007 Tropical Andean Butterfly Diversity Project. USD\$ 700
- 2005 Fundación Natura. USD\$ 2,500

Research Experience

- 2016 Postdoctoral Associate. Spatio-temporally explicit estimation of R0 for pathogens with environmentally-mediated transmission. PIs Jason Blackburn and Jose Miguel Ponciano.
- 2014-2015 Research Assistant. “*Modeling diversity and stability of vaginal microbial communities*”. PI Jose Miguel Ponciano.
- 2011 Research Assistant. “*Assembly and Stability of Mixed Species Flocks*”. PI. Ari Martinez – Nouragues Biological Station/French Guiana
- 2009 Research assistant. “*Assembly and Stability of Mixed Species Flocks*”. PI. Ari Martinez – Madre Selva Biological Station/Peru
- 2009 Research Assistant. NESCent funded Working Group. PI(s): Ken Kozak, Catherine Graham, Carsten Rahbek.
- 2007 – 2008 Assistant curator for the Ornithological and Tissue Collection, Universidad de los Andes.
- 2007 Research Assistant GEMA expedition – IAvH. Estación Biológica El Zafire, Amazonas, Colombia.
- 2005 – 2006 Associate undergraduate researcher for B.Sc. thesis elaboration. Conservation Biology Program. Cenicafé. Chinchiná, Colombia.

Teaching experience

- 2016 Teaching Assistant University of Florida, Gainesville, Fl. Avian Biology, Instructor: Dr. Scott K. Robinson.
- 2015 Teaching Assistant University of Florida, Gainesville, Fl. Statistical Principles for the Biological Sciences, Instructor: Dr. Jose Miguel Ponciano.
- 2015 Instructor: Field Course in research design. Estacion Farallones de Cali, Universidad ICESI, Cali, Colombia.
- 2013 Instructor: Field Course in research design. Estacion Bajo Calima, Universidad del Tolima, Buenaventura, Colombia.
- 2011 – 2013 Teaching Assistant University of Florida, Gainesville, Fl. Principles of Biology, Instructor: Dr. Kent Vilet
- 2009 – 2012 Instructor: Field Course in research design. Madre Selva Biological Station, Loreto, Perú
- 2006 – 2008 Teaching Assistant, Universidad de los Andes, Bogotá, Colombia. Vertebrate Zoology, Instructor: Dr. C. Daniel Cadena

Mentoring

- 2015 Undergraduate Thesis advisor: Estefania Guzman. Universidad del Tolima, Ibague, Colombia.
- 2015 Undergraduate Thesis co-advisor: Camilo Morales. Universidad del Tolima, Ibague, Colombia.
- 2014 Undergraduate Thesis co-advisor: Jacob R. Drucker. Hampshire College.
- 2012 Undergraduate Thesis co-advisor: Sandoval-Hernández J. Universidad de los Andes, Bogotá, Colombia
- 2009 Undergraduate Thesis Advisor. Chadid, M.A. Universidad de los Andes, Bogotá, Colombia.
- 2009 Undergraduate Thesis Advisor. Rojas, L.A. Universidad de los Andes, Bogotá, Colombia.

Presentations in Meetings

- 2016 **Gomez J.P.**, J.M. Ponciano & S.K. Robinson. Deterministic turnover of tropical bird communities along a steep rainfall gradient. VI North American Ornithological Congress.
- 2016 **Gomez J.P.**, S.K. Robinson & J.M. Ponciano. Asymmetric effects of environmental filtering on the assembly of tropical bird communities along a moisture gradient. Ecological Society of America Annual Meeting.
- 2014 **Gomez J.P.** and S.K. Robinson. Efectos de filtro ambiental sobre el ensamblaje de las comunidades de aves en el gradiente de precipitación del valle del Rio Magdalena. IV Congreso Colombiano de Zoología
- 2012 **Gomez J.P.**, G.A. Bravo, R.T. Brumfield, J.G. Tello, C.D. Cadena. A phylogenetic approach to disentangling the role of competition and habitat filtering in community assembly in Neotropical forest birds. NAOC - V.
- 2008 **Gomez J.P.**, C.D. Cadena & G.A. Bravo. Phylogenetic Structure of Typical Antbird (Thamnophilidae) Assemblages. 125 AOU/COS/SCO meeting. (Presentation Awarded for outstanding Poster presentation)
- 2008 **Gomez J.P.**, C.D. Cadena & G.A. Bravo. A phylogenetic approach to disentangling the role of competition and habitat filtering in community assembly in Neotropical forest birds. I Simposio de la Red Colombiana de Biología Evolutiva. (Presentation Awarded for Outstanding Oral Presentation)
- 2007 **Gomez J.P.** & J.E. Botero. Evaluación del papel de las certificaciones ambientales al café en la conservación de la Biodiversidad: un enfoque en las comunidades de aves. VIII Neotropical Ornithological Congress.
- 2007 **Gomez J.P.** & J.E. Botero. Evaluación del papel de las certificaciones ambientales al café en la conservación de la Biodiversidad: un enfoque en las comunidades de aves. II Congreso Colombiano de Ornitología.

- 2006 **Gomez J.P.** & J.E. Botero. Evaluación del papel de las certificaciones ambientales al café en la conservación de la Biodiversidad: un enfoque en las comunidades de aves. V Simposio de Biodiversidad en Caldas.

Extracurricular Activities and Courses

- 2009 X Bodega Applied Phylogenetics Workshop. Bodega Marine Laboratory, Bodega Bay, California, USA. March 7 – 14.
- 2004 XVII Encuentro Nacional de Ornitología Colombiana. Santa Marta, Colombia.

References

Dr. Scott K. Robinson
Ordway Professor of Ecosystem Conservation
Florida Museum of Natural History
P.O. Box 117800
University of Florida
Gainesville, FL, 32611
Email: srobinson@flmnh.ufl.edu
Phone: +1(352) 273-1965

Dr. Jose Miguel Ponciano
Associate Professor
Department of Biology
University of Florida
309 Carr Hall
P.O. Box 11825
Gainesville, FL, 32611
Email: josemi@ufl.edu
Phone: +1 (352) 273-5555

Dr. Jason K. Blackburn
Associate Professor
Department of Geography
University of Florida
3141 Turlington Hall
Gainesville, FL, 32611
Email: jblackburn@ufl.edu
Phone: +1 (352) 294-7501

Dr. Jamie Gilloly
Associate Professor
Department of Biology
University of Florida
409 Carr Hall
P.O. Box 11825
Gainesville, FL, 32611
Email: gilloly@ufl.edu
Phone: +1 (352) 392-2743