

CURRICULUM VITAE

Jesualdo Arturo Fuentes-González

Email: jafuent8@asu.edu

Page: <http://jesualdo.weebly.com/>

427 East Tyler Mall

Tempe, AZ 85287

USA

EDUCATION

- 2011 – now PhD Evolution, Ecology & Behavior: Indiana University, Bloomington.
Thesis: Phylogenies and the comparative method in morphometrics.
Advisor: Emília P. Martins
- 2016 MSc Applied Statistics: Indiana University, Bloomington.
- 2011 MSc Biology: National University of Colombia, Bogotá D.C.
Thesis: Feeding strategies and social behavior in the evolution of extant canids.
Advisor: Joao Muñoz-Durán
- 2007 Biologist: University of Antioquia, Medellín.
Thesis: Vocal communication of the white footed tamarin (*Saguinus leucopus*) in the wild.
Advisor: Enrique Zerda-Ordóñez

PUBLICATIONS

- **Fuentes-G JA, Martins EP.** In review. Phylogenies and social complexity.
- **Fuentes-G JA, Polly PD, Martins EP.** In review. Uncertainty and modern phylogenetic comparative methods: A Bayesian phylogenetic ANCOVA.
- **Martins EP, Fuentes-G JA.** 2018. Phylogenetic comparative methods and tests of macroevolutionary questions. In: *Oxford Bibliographies in Evolutionary Biology*. Ed. Karin Pfennig. New York: Oxford University Press.
- **Zúñiga-Vega JJ, Fuentes-G JA, Zamora-Abrego JG, García-Vásquez UO, Martins EP.** 2017. Evolutionary patterns in life-history traits of lizards of the genus *Xenosaurus*. *Herpetological Journal* 27: 346-360.
- **Vergara D, Fuentes JA, Stoy KS, Lively CM.** 2017. Evaluating shell variation across different populations of a freshwater snail. *Molluscan Research* 37(2): 120-132.
- **Fuentes-González JA, Muñoz – Durán J.** 2017. Social behavior and feeding preferences in the evolution of extant canids. *Revista Mexicana de Biodiversidad* 88(1): 192-206.
- **Polly PD, Fuentes-G J, Lawing AM, Bormet AK, Dundas RG.** 2017. Clade sorting has a greater effect than local adaptation on ecometric patterns in Carnivora. *Evolutionary Ecology Research* 18: 61-95.
- **Zúñiga-Vega JJ, Fuentes-G JA, Ossip-Drahos AG, Martins EP.** 2016. Repeated evolution of viviparity in phrynosomatid lizards constrained interspecific diversification in some life-history traits. *Biology Letters* 12(11): 1-5.

- **Fuentes-G JA, Housworth E, Weber A, Martins EP.** 2016. Phylogenetic ANCOVA: Estimating changes in evolutionary rates as well as relationships between traits. *The American Naturalist* 188(6): 615-627.
- **Gibson AK, Fuentes JA.** 2015. A phylogenetic test of the Red Queen Hypothesis: Outcrossing and parasitism in the Nematode phylum. *Evolution* 69(2): 530-540.
- **Fuentes JA, Zerda – Ordóñez E, Muñoz – Durán J.** 2013. Vocal communication of White-footed tamarin (*Saguinus leucopus*) in the wild. *Caldasia* 35(1): 49-63.
- **Ossip – Klein AG, Fuentes JA, Hews DK, Martins EP.** 2013. Information content is more important than sensory system or physical distance in guiding the long-term evolutionary relationships between signaling modalities in *Sceloporus* lizards. *Behavioral Ecology and Sociobiology* 67(9): 1513-1522.
- **Fuentes – González JA, Muñoz – Durán J.** 2012. Phylogeny of the extant canids (Carnivora: Canidae) by means of character congruence under parsimony. *Actualidades Biológicas* 34(96): 85-102.
- **Muñoz – Durán J, Fuentes JA.** 2012. Evolution of sociality, diet, and craniodental anatomy in the subfamily Caninae. *Acta Biológica Colombiana* 17(1): 173-200.

AWARDS

- CISAB Fellowship. 2016. *Center for the Integrative Study of Animal Behavior (CISAB)*. Bloomington, Indiana.
- Travel award for attendance to Evolutionary Quantitative Genetics Course. 2013. *NESCent Academy*. Durham, North Carolina.
- Travel award for attendance to Evolution. 2013. *Center for the Integrative Study of Animal Behavior (CISAB)*. Bloomington, Indiana.
- Honorable mention for MSc thesis. 2012. *Faculty of Science, National University of Colombia*. Bogotá, D.C.
- Research Recruitment Award. 2011. *Department of Biology, Indiana University*. Bloomington, Indiana.
- Academic excellence award as grant recipient. 2009. *Doctoral Training Program “Francisco José de Caldas”*. Bogotá, D.C.
- Second best lecture. 2009. *First Colombian Conference of Animal and Human Behavior*. Bogotá, D.C.

PROFESSIONAL EXPERIENCE

- Now Research assistant in Emília Martins Lab
 School of Life Sciences, Arizona State University, Tempe.
- 2015 Research assistant in Emília Martins Lab

Department of Biology, Indiana University, Bloomington.

- 2011 Consultant in geometric morphometrics
Faculty of Odontology, National University of Colombia, Bogotá, D.C.
- 2009 Research assistant in the project “Evolution of sociality in canids – Phase I”
Department of Biology, National University of Colombia, Bogotá D.C.
- 2007 Biologist at Rehabilitation Center for East Caldas Wild Fauna (CRFSOC)
Wildlife Veterinarian Association (VVS), Victoria.

PRESENTATIONS

- **Fuentes JA, Housworth E, Polly PD, Martins EP.** 2013. Phylogenetic ANCOVA and phenotypic radiation: Carnivoran posture. Poster presented at *Evolution*.
- **Fuentes JA.** 2012. Sociality driving feeding preferences and skull morphology in the evolution of extant canids. Lecture presented at *Evolution, Ecology & Behavior brown bag talks, Indiana University*.
- **Muñoz – Durán J, Fuentes JA, Jiménez L, Pallares L, González R, Márquez A, Morantes C, Pérez V, Quintero J.** 2010. Sociality, hypercarnivory and cranial shape in canids. *Abstract of talk in: Asociación Colombiana de Zoología (Eds). Creando un clima para el cambio: La biodiversidad, servicios para la humanidad... III Congreso Colombiano de Zoología, Libro de resúmenes.* Asociación Colombiana de Zoología, pp. 168. Available online: www.iiicongresocolombianodezoologia.org / www.aczcolombia.org.
- **Fuentes JA, Muñoz – Durán J.** 2010. Hypercarnivory and sociality in the evolution of extant canids. *Abstract of talk in: Asociación Colombiana de Zoología (Eds). Creando un clima para el cambio: La biodiversidad, servicios para la humanidad... III Congreso Colombiano de Zoología, Libro de resúmenes.* Asociación Colombiana de Zoología, pp. 111 – 112. Available online: www.iiicongresocolombianodezoologia.org / www.aczcolombia.org.
- **Fuentes - González JA.** 2009. Vocal communication of the White-footed tamarin (*Saguinus leucopus*) in the wild. *Abstract of talk in: García – Londoño A, Triana – Bernal A, González T, Abondano D (Eds). Memorias I Congreso Colombiano de Comportamiento Animal y Humano. Libro de resúmenes.* Colombia, Bogotá, D.C., pp. 36.
- **Fuentes JA.** 2008. Habitat quality and adequation in the management of neotropical primates. *Abstract of talk in: Soler D y Varela N (Eds). Memorias de la V Conferencia Interna en Medicina y Aprovechamiento de Fauna Silvestre, Exótica y no Convencional.* Asociación de Veterinarios de Vida Silvestre [VVS]. Colombia, Bogotá, D.C., pp. 31 – 32.
- **Fuentes JA.** 2008. Morphological identification of South American primates. *Abstract of talk in: Soler D y Varela N (Eds). Memorias de la V Conferencia Interna en Medicina y Aprovechamiento de Fauna Silvestre, Exótica y no Convencional.* Asociación de Veterinarios de Vida Silvestre [VVS]. Colombia, Bogotá, D.C., pp. 29 – 30.
- **Fuentes JA.** 2008. Introduction to the biology and ecology of neotropical primates. *Abstract of talk in: Soler D y Varela N (Eds). Memorias de la V Conferencia Interna en Medicina y*

Aprovechamiento de Fauna Silvestre, Exótica y no Convencional. Asociación de Veterinarios de Vida Silvestre [VVS]. Colombia, Bogotá, D.C., pp. 27 – 28.

- **Alba-Mejía L, Fuentes A, García Londoño A, Triana Bernal A.** 2007. Plants used as food by *Saguinus leucopus* (Callitrichidae) in the Mariquita municipality forest, Tolima. *Actualidades Biológicas* 29 (Suplemento 1): 302-303.
- **Alba L, Fuentes A, Londoño A, Triana A.** 2006. Plants used as food by *Saguinus leucopus* in the Mariquita municipality forest, Tolima. *Abstract of poster in: Andrade – C. M, Aguirre C, Rodríguez – Mahecha J (Eds). Segundo congreso colombiano de zoología. Libro de resúmenes.* Editorial Panamericana Formas e Impresos S.A., pp. 459.
- **Fuentes-G JA, Zerda-Ordóñez E, Muñoz-Durán J.** 2006. Vocal communication of the White-footed tamarin (*Saguinus leucopus*) in the wild. *Abstract of poster in: Andrade – C. M, Aguirre C, Rodríguez – Mahecha J (Eds). Segundo congreso colombiano de zoología. Libro de resúmenes.* Editorial Panamericana Formas e Impresos S.A., pp. 336.

TEACHING ASSISTANTSHIPS

- 2017 *Evolution* (L318)
Indiana University, Bloomington.
- 2013 *Honors Evolution* (S318)
Indiana University, Bloomington.
- 2011 *Theoretic-Practical Course of Geometric Morphometrics: Methods and Applications* (extension course)
National University of Colombia, Bogotá D.C.
- 2010 *Vertebrates* (2010-I, 2010-II)
National University of Colombia, Bogotá, D.C.

MENTORING

- 2013 Meelyn Pandit, senior thesis in Biology.
Indiana University, Bloomington.
- 2012 Ashley Weber, Research Experiences for Undergraduates (REU) program in Mathematics.
Indiana University, Bloomington.
- 2012 Annie Murphy, Research Experiences for Undergraduates (REU) program in Mathematics.
Indiana University, Bloomington.

PROFFESIONAL SERVICE

- Journal reviewer: *BMC Evolutionary Biology*, *Evolution*, *Revista MVZ Córdoba*, *U. D. C. A. Actualidad & Divulgación Científica*.
- Book reviewer: *Modern Phylogenetic Comparative Methods and Their Application in Evolutionary Biology*.
- Technical committees: *Fundación para la Promoción de la Investigación y la Tecnología*.

TRAINING

- Evolutionary Quantitative Genetics course. 2013. *National Evolutionary Synthesis Center (NESCent)*. Durham, North Carolina.
- Short-term visitor. 2009. Paul O. Lewis Laboratory, University of Connecticut. Storrs, Connecticut.
- Primatology in Colombia post conference course: Diversity, conservation and management. 2005. *Asociación Colombiana de Primatología*. Bogotá, D.C.
- Animal behavior update. 2005. *National University of Colombia-Biology Department*. Bogotá, D.C.