

# J. Sebastián Tello, Ph.D.

*Curriculum Vitae as of August 2011*

*Postdoctoral Fellow*

Center for Conservation and Sustainable Development  
Missouri Botanical Garden

*Research Associate*

Museo de Zoología  
Pontificia Universidad Católica del Ecuador

## CONTACT INFORMATION:

- Center for Conservation and Sustainable Development, Missouri Botanical Garden, P.O. Box 229, St. Louis, Missouri 63166, USA
- Phone: (314) 577-5100 ext. 846
- E-mail: [sebastian.tello@mobot.org](mailto:sebastian.tello@mobot.org)
- Website: <http://sites.google.com/site/jsebastiantello>

## EDUCATION:

- *Ph.D.* Department of Biological Sciences. Louisiana State University. USA. Advisor: Dr. Richard D. Stevens.
- *Licenciatura.* 2005. Escuela de Ciencias Biológicas. Pontificia Universidad Católica del Ecuador. Ecuador. Advisor: Lic. Santiago Burneo.
- Tropical ecology and conservation field course. 2005. Organization for Tropical Studies. Costa Rica.

## RESEARCH INTERESTS:

- Biodiversity, community ecology, macroecology, metacommunities, metapopulations, spatial ecology, null models, computer simulation models

## PUBLICATIONS:

- **Tello, J. S.** and Stevens, R. D. *Accepted.* Can stochastic models of geographical evolution recreate macroecological richness-environment correlations? *Global Ecology and Biogeography*.
- Stevens, R.D., Gavilanez, M.M, **Tello, J. S.** and Ray, D. A. *Accepted.* Phylogenetic structure illuminates mechanistic effect of environmental heterogeneity on community organization. *Journal of Animal Ecology*.
- **Tello, J. S.** and Stevens, R. D. *Accepted.* Murciélagos, características ambientales y efectos de mitad de dominio (Bats, environmental characteristics and mid-domain effects). In Tirira, D., Burneo, S. and Boada, C. (eds.). *Investigación y conservación de los murciélagos del Ecuador*.
- Stevens, R. D. and **Tello, J. S.** 2011. Diversity begets diversity: relative roles of structural and resource heterogeneity in determining patterns of community structure. *Journal of Mammalogy*. 92: 387-395.
- **Tello, J. S.** and Stevens, R. D. 2010. Multiple environmental determinants of regional species richness and effects of geographic range size. *Ecography* 33: 796-808.
- Carrera, J. P., Solari, S., Larsen, P. A., Alvarado, D. F., Brown, A. D., Carrión-B., C, **Tello, J. S.** and Baker, R. J. 2010. Bats of the tropical lowlands of western Ecuador. *Special Publications. Museum of Texas Tech University*. Number 57.

- Stevens, R. D. and **Tello, J. S.** 2009. Micro- and macro-habitat associations of rodents in a Mojave Desert metacommunity. *Journal of Mammalogy* 90: 388-403.
- **Tello, J. S.**, Stevens, R. D. and Dick, C. W. 2008. Patterns of species co-occurrence and density compensation: a test for interspecific competition in bat ectoparasite infracommunities. *Oikos*. 117: 693-702.

***In preparation:***

- **Tello, J. S.** and Stevens, R. D. Using evolutionary null models to study richness-environment correlations in Bats and Primates. *To be submitted to The American Naturalist*.
- Stevens, R. D., **Tello, J. S.** and Gavilanez, M. M. Can mid-domain effect models explain secondary diversity gradients? *To be submitted to American Naturalist*.

***Other:***

- **Tello, J. S.** Relaciones ecológicas entre murciélagos del género *Carollia* (Chiroptera: Phyllostomidae) y sus dípteros ectoparásitos (Diptera: Streblidae). *Licenciatura Thesis*. Pontificia Universidad Católica del Ecuador. 2005.
- Fonseca, R. M., Carrera-E, J. P., Enríquez, T., Lasso, D. O., Pinto, C. M., **Tello, J. S.**, Novoa, J. and Viteri, X. 2003. Identificación preliminar de un corredor ecológico para mamíferos entre los Parques Nacionales Llanganates y Sangay. *Revista de la Pontificia Universidad Católica del Ecuador*, Nro. 71.

PAPERS AT CONFERENCES AND MEETINGS:

- **Tello, J. S.** and Stevens, R. D. Applying stochastic models of geographic evolution to explain species richness gradients and species-environment relationships of bats in the New World. Evolution 2010. Portland, Oregon, USA. 2010.
- Stevens, R. D., **Tello, J. S.** and Gavilanez, M. M. Stronger tests of mid-domain effects on latitudinal biodiversity gradients of New World bats. 15<sup>th</sup>. International Bat Research Conference. Prague, Czech Republic. 2010.
- Stevens, R. D., **Tello, J. S.**, Gavilanez, M. M. and Ray D. A. Phylogenetic structure illuminates mechanistic role of environmental heterogeneity on community organization. 90<sup>th</sup> annual meeting of the American Society of Mammalogists, Laramie, Wyoming, USA. 2010.
- **Tello, J. S.** and Stevens, R. D. Simulating random species-environment relationships at broad geographic extents. 94<sup>th</sup> annual meeting of the Ecological Society of America. Albuquerque, New Mexico, USA. 2009.
- Stevens, R. D., Gavilanes, M. M., **Tello, J. S.** and Ray, D. A. Phylogenetic structure illuminates mechanistic role of resource diversity on community organization. 94<sup>th</sup> annual meeting of the Ecological Society of America. Albuquerque, New Mexico, USA. 2009.
- **Tello, J. S.** and Stevens, R. D. Energy, heterogeneity, seasonality, and scale: the species-environment relationship in New World bats. 93<sup>th</sup> annual meeting of the Ecological Society of America. Milwaukee, Wisconsin, USA. 2008.
- **Tello, J. S.**, Stevens, R. D. and Dick, C. W. A test for interspecific competition in bat ectoparasites: patterns of species co-occurrence and density compensation. 87<sup>th</sup> annual meeting of the American Society of Mammalogists. Albuquerque, New Mexico, USA. 2007.
- Stevens, R. D. and **Tello, J. S.** Integrating biotic interactions into the empirical examination of metacommunity structure. 87<sup>th</sup> annual meeting of the American Society of Mammalogists. Albuquerque, New Mexico, USA. 2007.
- **Tello, J. S.** and Stevens, R. D. Structure of a desert rodent metacommunity: local environment vs. regional dispersal. 86<sup>th</sup> annual meeting of the American Society of Mammalogists. Amherst,

Massachusetts, USA. 2006.

- Stevens, R. D. and **Tello, J. S.** Quantitative habitat characteristics of rodents in the Eastern Mojave Desert underlie spatial variation in community structure. 86<sup>th</sup> annual meeting of the American Society of Mammalogists. Amherst, Massachusetts, USA. 2006.
- **Tello, J. S.**, Fonseca, R. M., Carrera, J. P., Alvarado, D. F., Brown, A. D., Carrión-B. C., Dick, C. D., Higginbotham, J., Hoffmann, F., Larsen, P. A., Parish, D., Phillips, C., Solari, S. and Baker, R. J. Bats of western Ecuador: preliminary results of the Sowell expeditions (2001 and 2004). 28<sup>th</sup> Ecuadorian annual meeting of Biology. Guayaquil-Ecuador. 2004.
- **Tello, J. S.** and Jarrín-V, P. Ecological relationships between bats of the genus *Carollia* (Chiroptera: Phyllostomidae) and their dipteran ectoparasites (Diptera: Streblidae): preliminary results. 83<sup>rd</sup> annual meeting of the American Society of Mammalogists. Lubbock, Texas, USA. 2003.
- **Tello, J. S.** and Fonseca-N, R. M. Techniques for the collection and study of mammal ectoparasites. Workshop: Introduction to field techniques for the study of mammals. Quito, Ecuador. 2002.
- **Tello, J. S.** Ecological interactions between bats of the genus *Carollia* and *Sturnira* and their dipteran ectoparasites of the family Streblidae. 26<sup>th</sup> Ecuadorian annual meeting of Biology. Quito, Ecuador. 2002.

#### RESEARCH EXPERIENCE:

- **Research Assistant.** Project: Climatically induced nonequilibria determine temporal metacommunity dynamics. Louisiana State University. August 2005 to June 2006.
- **Research Assistant.** Project: Bat flies like an EMu – bat flies of Ecuador component. Field Museum. July-August 2006 and June-July 2008.
- **Researcher.** Project: Evaluating and monitoring system of the biodiversity in the Reserva de Producción Fuanística Cuyabeno: bases for its implementation (UCODEP Project Cuyabeno Reserve, AIDCO/B7-6200/0380/01/TF) – Mammalogy component. Pontificia Universidad Católica del Ecuador. January to June 2004.
- **Field research assistant.** Sowell Expedition 2004. Project: Genetic diversity and phylogeography of the small mammal fauna of the western side of the Andes in Ecuador. Texas Tech University - Pontificia Universidad Católica del Ecuador. 2004.
- **Field research assistant.** Project: Identification of an ecological corridor between the Llanganates and Sangay National Parks. Fundación Natura. 2002.
- **Field research assistant.** Project: Morphometrical and taxonomical revision of the bat genus *Sturnira* in the Ecuadorian Andes. Boston University – Pontificia Universidad Católica del Ecuador. 2002.
- **Field research assistant.** Project: Ecological gradients and speciation. Boston University – Pontificia Universidad Católica del Ecuador. 2001.
- **Field research assistant.** Project: Control of the common vampire bat populations in eastern Ecuador. Pontificia Universidad Católica del Ecuador. 2000.
- **Volunteer.** Section of mammalogy of the Museo de Zoología of the Pontificia Universidad Católica del Ecuador. 1999 to 2005.

#### TEACHING EXPERIENCE:

- **Teaching Assistant.** Principles of ecology, laboratory. Department of Biological Sciences, Louisiana State University. Fall 2006 to Spring 2010.

#### GRANTS AND AWARDS:

- LSU Dissertation Fellowship. 18,000 USD. Louisiana State University. 2010.
- Graduate travel award. 600 USD. Louisiana State University. 2009.
- Travel awards. 900 USD. Biograds. 2008/2009/2010.

- Graduate enhancement award. 12,000 USD over 4 years. LSU. 2005-2009.
- Research grant. 1,300 USD in equipment. Morphometrical analysis of the bats of the genus *Anoura* along an altitudinal gradient in Ecuador. Idea Wild. 2004.

REVIEWER FOR:

- Ecology, Journal of Applied Ecology, Journal of Ecology, Journal of Mammalogy, Paleobiology, Journal of Vegetation Science

LANGUAGES:

- Spanish: native
- English

PROFESSIONAL MEMBERSHIPS:

- Ecological Society of America
- The Society for the Study of Evolution
- International Society of Biogeography
- American Society of Mammalogists
- Sociedad Ecuatoriana de Biología

PERSONAL REFERENCES:

- Dr. Richard D. Stevens. Department of Biological Sciences. Louisiana State University. [rstevens@lsu.edu](mailto:rstevens@lsu.edu). Phone: (225) 578-4284
- Dr. James T. Cronin. Department of Biological Sciences. Louisiana State University. [jcronin@lsu.edu](mailto:jcronin@lsu.edu). Phone: (225) 578-7218
- Dr. Bret Elder. Department of Biological Sciences. Louisiana State University. [elder@lsu.edu](mailto:elder@lsu.edu). Phone: (225) 578-6733
- Dr. Bruce Patterson. Department of Zoology. Field Museum of Natural History. [bpatterson@fieldmuseum.org](mailto:bpatterson@fieldmuseum.org). Phone: (312) 665-7750