***María Sagot***

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*Research Interest:*

My research brings together the fields of Ecology, Behavior, Genetics and Evolutionary Biology, to understand the relative contributions of different ecological factors, such as habitat selection and demographics, in promoting the evolution of sociality, strength of social interactions, diversity and ecological speciation.

*Current position:*

Assistant Professor. Department of Biological Sciences. State University of New York at Oswego.

*Postdoctoral experience:*

Postdoctoral Teaching and Research Associate. August 2012 - August 2014. Department of Biological Sciences. Texas Tech University.

*Education:*

* Doctor of Philosophy. 2012. Biological Sciences. Louisiana State University.
* Bachelor of Science. 2004. Biology. Universidad de Costa Rica.

*Teaching experience:*

* **Instructor.** 2014. State University of New York at Oswego. Mammalogy.
* **Instructor.** 2013-2014. Texas Tech University. Biology of Animals.
* **Instructor.** 2012-2013. Texas Tech University. Seniors Seminar
* **Teaching assistant.** 2006-2012. Louisiana State University. Introductory Ecology Laboratory (Service Learning Class).
* **Teaching assistant.** 2008. Louisiana State University. Introductory Biology for non-majors.
* **Guest instructor.** Universidad Latina de Costa Rica, Costa Rica. Vertebrate Zoology. 2003.
* **Teaching assistant.** 2002-2003. Universidad de Costa Rica. General Ecology. Laboratory.
* **Teaching assistant.** 2001. Universidad de Costa Rica. General Biology Laboratory.

*Publications:*

* **Sagot, M**, S. Gopal & T. Kingston. Testing for local spatial autocorrelation in ecological point data: A data ensemble approach. *Submitted to Ecography.*
* **M. Sagot** &G.Chaverri. Roost specialization increases extinction risk in bats. *Submitted to Conservation Biology*.
* **Sagot, M**., C. D. Phillips, R. J. Baker & R. D. Stevens. Characterizing genetic social structure and group cohesion under different habitat scales. *Submitted to Molecular Ecology*.
* **Sagot, M**., C. D. Phillips, R. D. Stevens, & R. J. Baker. 2013. Development and characterization of seventeen microsatellite loci for Peter’s tent-roosting bat (*Uroderma bilobatum*). Conservation Genetics Resources DOI 10.1007/s12686-013-0011-9.
* R. W. Manning, Heaney, M., **Sagot, M**., & Baker, R. J. 2013. Noteworthy record of Crawford’s desert shrew (*Notiosorex* *crawfordi*) from southern Nevada. Southwestern Naturalist *Accepted*.
* Gillam, E., Chaverri, G., Montero, K., and **Sagot, M**. 2013. Social calls produced within and near the roost in two species of tent-making bats, *Dermanura watsoni* and *Ectophylla alba*. Plos One 0061731.
  + **Sagot, M.,** B. Rodríguez-Herrera & R. Stevens. 2013. Macro and Microhabitat Associations of the Peter’s Tent-Roosting Bat (*Uroderma bilobatum*): Human Induced Selection and Colonization? Biotropica 45: 511-519.
* **Sagot, M**. 2012. Unravelling ecological effects on social behavior: insights from tent-roosting bats. Mastozoología Neotropical 19:193-194.
* **Sagot, M**., & R. D. Stevens. 2011. The evolution of group stability and roost persistence: A case of study in tent-roosting bats. Biotropica 44: 90-97.
* **Sagot, M**. 2004. The effects of the decline of bats. In: J. Szendeffy, D. Miller & L. Andrews (eds), CELOP. Boston University Editorial.
* **Sagot, M**. 2003. Herpetofauna de mantillo comparando un bosque y un cacaotal en cinco años. (Longterm diversity study of leaf litter herpetofauna in forests and cacao plantations) In: F. Bolaños & J. Lobo (eds). Biología de Campo. Universidad de Costa Rica. Book chapter.
* **Sagot, M**. 2003. Área de corte y efecto en el flujo de agua por la lámina foliar en construcción de tiendas por parte de *Artibeus watsoni* (Chiroptera: Phyllostomidae) en *Carludovica* sp (Effects of tent-making by *Dermanura watsoni* in the water flow of *Carludovica* sp. leaves). In: F. Bolaños & J. Lobo (eds). Biología de campo. Universidad de Costa Rica. Book chapter.
* Rodríguez-H, B., S. Rodríguez, & M. **Sagot.** 2001. Tent use in *Pentagonia donnell-smithii* (Rubiaceae) by *Vampyressa pusilla* (Chiroptera: Phyllostomidae) in Costa Rica. Bat Research News 42(2): 49.

*in preparation:*

* **Sagot, M**., C. D. Phillips, R. D. Stevens, & R. J. Baker. Chromosomal speciation. Perspectives from the Peter’s tent-roosting bat, *Uroderma bilobatum*.

*Current research projects:*

* Kingston, T. & **M. Sagot**. Spatial analyses of species interactions.
* **Sagot, M**., M. Soley & H. Mantilla-Meluk. Is historical distribution of the *Uroderma bilobatum* complex associated with plants of the genera *Attalea* and *Cryosphila*? A niche modelling approach.
* **Sagot, M.,** &K. Montero.Hybridization between *Dermanura watsoni* and *D. phaeotis* due to similar roosting ecology.
* **Sagot, M**., C. Caio, S. Solari, D. Parish, K. Montero, & R. J. Baker. Molecular and chromosomal evidence of a new species of the genus *Thyroptera* (Chiroptera: Thyropteridae).

*Awards and Honours:*

* **Early Start Grant**. 2014. State University of New York at Oswego.
* **ASM Early Carrier Award**. 2014. American Society of Mammalogists.
* **Travel Award**. 2010. American Society of Mammalogists.
* **Student Representative to the Board of Directors**. 2009-2010. North American Society of Bat Research.
* **Travel Award.** 2009. Louisiana State University Graduate School.
* **Life Member**. 2009. American Society of Mammalogists.
* **Research Award**. 2009. Biograds. Field season in Cost Rica.
* **McDaniel Award**. 2008. Field season in Costa Rica.
* **Travel Award**. 2008. Biograds.
* **Research Award**. 2007. Biograds. Field season in Costa Rica.
* **Graduate Enhancement Award**. 2005-2009. Louisiana State University.

*Synergistic activities:*

* **Editor-in-chief*.*** IUCN Bat Specialist Group News Letter.
* **Member.**IUCN Bat Specialist Group
* **Co-organizer and local co-host*.*** Joint 16th International Bat Research Conference (IBRC) & 43er North American Symposium of Bat Research (NASBR). San José, Costa Rica. 2013.
* **Organizer.** Technical research symposia sessions at the 16th International Bat Research Conference (IBRC) & 43rd North American Symposium of Bat Research (NASBR). San José, Costa Rica. 2013.
* **Faculty advisor.** Association of Biologists at Texas Tech University.
* **Field researcher.** Contracted by Cerros de Jesús Fundation. Nicoya, Costa Rica. Vertebrates of Cerros de Jesús. 2003.
* **Member.** Costa Rican Bat Conservation Program. 2001-present.
* **Field researcher.** Fragmentation Effects on Reptiles and Amphibians. San Vito, Costa Rica. 2001.
* **Research assistant.** Marine Sciences and Limnology Research Center. Universidad de Costa Rica. Coral reefs laboratory. 2000 – 2001.

*Presentations:*

* **Sagot, M***.* & G. Chaverri. 2013*.* Roost specialization increases extinction risk in bats. American Society of Mammalogists. Oklahoma City, USA. Oral
* **Sagot, M***.* & T. Kingston. 2013*.* Detection and Characterization of Bat Hotspots: A Fusion Test of Local Spatial Autocorrelation. International Bat Research Conference. San José, Costa Rica. Oral
* **Sagot, M***.* & T. Kingston. 2013*.* Detection and Characterization of Bat Hotspots: A Fusion Test of Local Spatial Autocorrelation. American Society of Mammalogists. Philadelphia, USA. Poster
* **Sagot, M**., C.D. Phillips, R.D. Stevens, & R.J. Baker. 2011. Characterizing social structure and group cohesion under different habitat perspectives. Insights from the Peter’s tent-roosting bat, *Uroderma bilobatum.* North American Symposium on Bat Research. Toronto, Canada. Oral
* **Sagot, M**., C.D. Phillips, R.D. Stevens, & R.J. Baker. 2011. Influence of social systems in chromosomal speciation. Perspectives from the Peter’s tent-roosting bat, *Uroderma bilobatum.* Animal Behaviour society. Bloomington, Indiana. Poster
* **Sagot, M**., C.D. Phillips, R.D. Stevens, & R.J. Baker. 2010. Is social structure amenable to fixation of chromosomal rearrangements? Perspectives from the Peter’s tent-roosting bat, *Uroderma bilobatum.* North American Symposium on Bat Research. Denver, Arizona. Oral
* **Sagot, M.,** C.D. Phillips, R.D. Stevens, & R.J. Baker. 2010. Is fixation of chromosomal rearrangements mediated by social structure? Perspectives from the Peter’s tent-roosting bat, *Uroderma bilobatum*.International Bat Research Conference. Prague. Czech Republic. Oral
* **Sagot, M.,** C.D. Phillips, R.D. Stevens, & R.J. Baker. 2010.Is a small deme size required for fixation of different chromosomal rearrangements? A case study in the Peter’s tent-roosting bat, *Uroderma bilobatum****.*** American Society of Mammalogists Annual Meeting. Laramie, Wyoming. United States. Poster
* **Sagot, M.,** R.D Stevens, & B. Rodriguez-H. 2009. Habitat associations of the tent-roosting bat *Uroderma bilobatum* at three different spatial scales*.* North American Symposium on Bat Research. Portland, Oregon. Oral
* **Sagot, M.,** R.D Stevens, & B. Rodriguez-H. 2009. Habitat Selection at different scales: Perspectives from the tent-roosting bat *Uroderma bilobatum.* Association for Tropical Biology and Conservation and Society for Tropical Ecology. Marburg, Germany. Oral
* **Sagot, M.,** R.D Stevens, & B. Rodriguez-H. 2008. Density response to habitat at different scales: A case study in the tent-roosting bat *Uroderma bilobatum.* North American Symposium on Bat Research. Scranton, Pennsylvania. Oral
* **Sagot, M.,** & R. D. Stevens. 2007. The divergence of mating systems in tent-roosting bats. International Bat Research Conference. Merida, Mexico. Oral
* **Sagot, M.,** & R. D. Stevens. 2007. Better houses, better girls: On the divergence of mating systems in tent-making bats. American Society of Mammalogists Annual Meeting. Albuquerque, New Mexico. United States. Oral
* **Sagot, M.,** D. Jiménez, & R. D. Stevens. 2005. Special observations on the social behavior of the Honduran white bat *Ectophylla alba*. North American Symposium on Bat Research, Sacramento, California. United States. Poster
* Rodríguez-H, B; M. Fernandez; W. Pineda; **M. Sagot,** & R. LaVal. 2002. Costa Rican bat conservation program. Mesoamerican Society for Conservation and Biology, San José, Costa Rica. Oral.

*Editorial Services:*

* Acta Chiropterologica
* Biodiversidad Neotropical
* International Journal of Biodiversity and Conservation
* Zoologia

*Languages:*

* Spanish: Native
* English
* Portuguese

*Membership in professional societies:*

International Society for Behavioral Ecology

The Society for the Study of Evolution

American Society of Mammalogists

Animal Behaviour Society

North American Society on Bat Research