

SEEWIESEN

LECTURE SERIES

FALL/WINTER 2019/2020



THURSDAY | October 17th, 2019 | 13.00 | HOUSE 4 LECTURE ROOM

Gloriana Chaverri

Universidad de Costa Rica | Host: Goerlitz Research Group

Acoustic communication during the location of ephemeral roosts in Spix's disc-winged bats

The neotropical insectivorous bat, *Thyroptera tricolor*, or Spix's disc-winged bat, is known to form extremely cohesive social aggregations despite moving daily between roost-sites. My research over the last 13 years shows that *T. tricolor* uses a combination of two social signals, "inquiry" and "response" calls, to locate each other during flight and while roosting. In my talk, I will focus on the role that these social calls play in maintaining cohesive groups, and the causes and consequences of the variation in vocal behavior we see within and among groups.

WHO IS GLORIANA CHAVERRI?

2009 Postdoctoral Research Associate, Boston University, Boston, Massachusetts, U.S.A.
2011 Professor, Universidad de Costa Rica, Golfito, Costa Rica
2018 Research Associate, Smithsonian Tropical Research Institute, Panamá

SELECTED PUBLICATIONS

- Sagot, M., C.R. Schöner, A.J. Jago, I. Razik, & G. Chaverri. 2018. The importance of group vocal behaviour in roost finding. *Animal Behaviour*, 142: 157-164.
- Chaverri, G., L. Ancillotto, and D. Russo. 2018. Social communication in bats. *Biological Reviews*, 93: 1938-1954.
- Sagot, M. and G. Chaverri (equal contribution). 2015. The effect of roost specialization on extinction risk in bats. *Conservation Biology*, 29: 1666-1673.
- Chaverri, G. and E. H. Gillam. 2013. Sound amplification by means of a horn-like roosting structure in Spix's disc-winged bat. *Proceedings of the Royal Society of London*, 280: 20132362.
- Chaverri, G., E.H. Gillam (equal contribution) and M.J. Vonhof. 2010. Social calls used by a leaf-roosting bat to signal location. *Biology Letters*, 6: 441-444.

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