

## Semi-parametric mixed model to evaluate the behavior of owl pups (*Tyto alba*) in the presence of their parents

Denize Palmito dos Santos <sup>1</sup>, Renata Alcarde Sermarini <sup>1</sup>

**Abstract:** *One of the signs used by most birds to feed their litter is the vocal behavior of the young. Having as motivation the research of Roulin and Bersier (2007) we seek to propose an alternative model for the sibling negotiation response. The semi-parametric mixed model proved to be advantageous.*

**Keywords:** ZAGA distribution; Fixed effects; Random effect.

---

<sup>1</sup>ESALQ-USP. e-mail: [denizepalmito@gmail.com](mailto:denizepalmito@gmail.com)

<sup>1</sup>ESALQ-USP. e-mail: [ralcarde@usp.br](mailto:ralcarde@usp.br)