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Statistical Analysis of Animal Movement

A good understanding of the determinants of animal movement is crucial for predicting the spatial organization of animals, for instance to plan animal species reinsertion programs or to steer vaccine drop campaigns to counter disease spread. With the development of tools associated with geographic information systems, substantial information on animal movement has become available and statistical methods to extract this information must be fine-tuned. In this talk we compare two statistical approaches for inference on the determinants of animal movement, one based on conditional logistic regression and the other based on regression models for angular data.