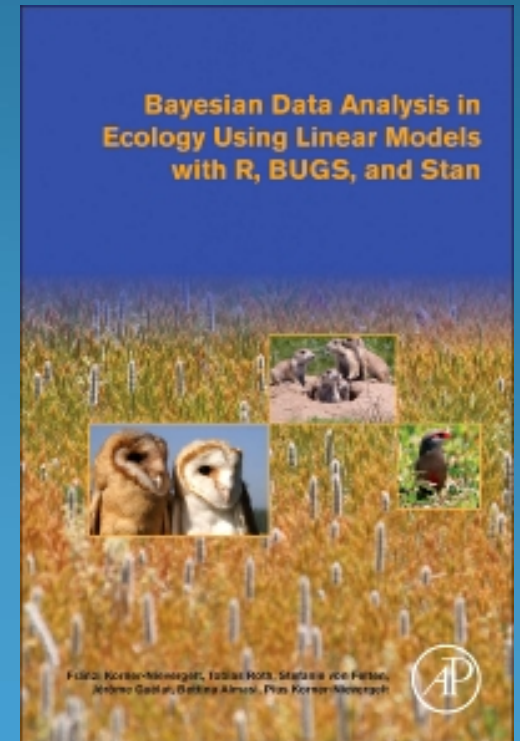


Topic 10: Generalized linear mixed effects models



„The core of modern applied statistics“

	Single Random Process	Two or More Random Processes
Normal response	Linear model (LM)	Linear mixed model (LMM)
Exponential family response	Generalized linear model (GLM)	Generalized linear mixed model (GLMM)

GLMM in R

`lme4::glmer()`

Other packages

`glmmADMB`: more flexible but also more complex and therefore slower

- offers more link functions for e.g. beta or negative binomial distributions
- can account for zero-inflated data

`glmmTMB`: recently developed as follow-up to `glmmADMB` (partly still under development)

Help and info about GLMM

FAQ and overview about GLMM:

<http://bbolker.github.io/mixedmodels-misc/glmmFAQ.html>

Review

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Generalized linear mixed models: a practical guide for ecology and evolution

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