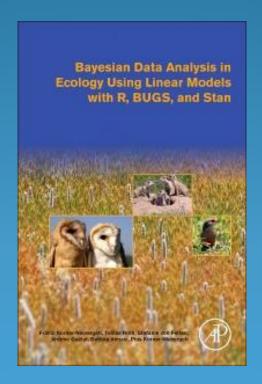
Topic 10: Generalized linear mixed effects models



Chapter 9

"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 developement)

Help and info about GLMM

FAQ and overview about GLMM:

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

Review



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

Benjamin M. Bolker¹, Mollie E. Brooks¹, Connie J. Clark¹, Shane W. Geange², John R. Poulsen¹, M. Henry H. Stevens³ and Jada-Simone S. White¹