



Mixed effects models and extensions in ecology with R /

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author

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dissertations.

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Monografía

Building on the successful 'Analysing Ecological Data', the authors now provide an expanded introduction to using regression and its extensions in analysing ecological data. As with the earlier book, real data sets from postgraduate ecological studies or research projects are used throughout

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Título: Mixed effects models and extensions in ecology with R by Alain F. Zuur [and others]

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Tipo Audiovisual: R (Computer program language) Ecology Statistics Linear models Mathematical Models, Simulation Models Ecology (General) Wiskundige modellen, simulatiemodellen Ecologie (algemeen)

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Contenido: Limitations of linear regression applied on ecological data -- Things are not always linear : additive modeling -- Dealing with heterogeneity -- Mixed effects modeling for nested data -- Violation of independence. Part 1 -- Violation of independence. Part 2 -- Meet the exponential family -- GLM and GAM for count data -- GLM and GAM for absence-presence and proportional data -- Zero-truncated and zero-inflated models for count data -- Generalised estimation equations -- GLMM and GMM -- Estimating trends for Antarctic birds in relation to climate change / A.F. Zuur [and others] -- Large scale impacts of land-use change in a Scottish farming catchment / A.F. Zuur [and others] -- Negative binomial GAM and GMM to analyse amphibian roadkills / A.F. Zuur [and others] -- Additive mixed modelling applied on deep-sea pelagic bioluminescent organisms / A.F. Zuur [and others] -- Additive mixed modelling applied on phytoplankton time series data / A.F. Zuur [and others] -- Mixed effects modelling applied on American foulbrood affecting honey bees larvae / A.F. Zuur [and others] -- Three-way nested data for age determination techniques applied to cetaceans / E.N. Ieno [and others] -- GLMM applied on the spatial distribution of koalas in a fragmented landscape / J.R. Rhodes [and others] -- A comparison of GLM, GEE, and GLMM applied to badger activity data / N.J. Walker [and others] -- Incorporating temporal correlation in seal

abundance data with MCMC / A.A. Saveliev [and others] -- Required pre-knowledge : a linear regression and additive modelling example

Restricciones de acceso: University staff and students only. Requires University Computer Account login off-campus

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