



# Bayesian Data Analysis in Ecology Using Linear Models with R, BUGS, and Stan

*Franzi Korner-Nievergelt, Tobias Roth, Stefanie von Felten, Jérôme Guélat, Bettina Almasi, Pius Korner-Nievergelt*

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*Bayesian Data Analysis in Ecology Using Linear Models with R, BUGS, and STAN* examines the Bayesian and frequentist methods of conducting data analyses. The book provides the theoretical background in an easy-to-understand approach, encouraging readers to examine the processes that generated their data. Including discussions of model selection, model checking, and multi-model inference, the book also uses effect plots that allow a natural interpretation of data. *Bayesian Data Analysis in Ecology Using Linear Models with R, BUGS, and STAN* introduces Bayesian software, using R for the simple modes, and flexible Bayesian software (BUGS and Stan) for the more complicated ones. Guiding the reader from easy toward more complex (real) data analyses in a step-by-step manner, the book presents problems and solutions—including all R codes—that are most often applicable to other data and questions, making it an invaluable resource for analyzing a variety of data types.

- Introduces Bayesian data analysis, allowing users to obtain uncertainty measurements easily for any derived parameter of interest
- Written in a step-by-step approach that allows for easier understanding by non-statisticians
- Includes a companion website containing R-code to help users conduct Bayesian data analyses on their own data
- All example data as well as additional functions are provided in the R-package *blmeco*



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