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

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

Bayesian Data Analysis in Ecology Using Linear Models with R, BUGS, and Stan By Franzi Korner-Nievergelt, Tobias Roth, Stefanie von Felten, Jérôme Guélat, Bettina Almasi, Pius Korner-Nievergelt

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 ready from easy toward more complex (real) data analyses ina 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 eased 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*

⬇ **Download** Bayesian Data Analysis in Ecology Using Linear Mod ...pdf

📄 **Read Online** Bayesian Data Analysis in Ecology Using Linear M ...pdf

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

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

Bayesian Data Analysis in Ecology Using Linear Models with R, BUGS, and Stan By Franzi Korner-Nievergelt, Tobias Roth, Stefanie von Felten, Jérôme Guélat, Bettina Almasi, Pius Korner-Nievergelt

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 ready from easy toward more complex (real) data analyses ina 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 eased 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*

Bayesian Data Analysis in Ecology Using Linear Models with R, BUGS, and Stan By Franzi Korner-Nievergelt, Tobias Roth, Stefanie von Felten, Jérôme Guélat, Bettina Almasi, Pius Korner-Nievergelt Bibliography

- Sales Rank: #779670 in Books
- Brand: imusti
- Published on: 2015-04-23
- Original language: English
- Number of items: 1
- Dimensions: 9.00" h x .75" w x 6.00" l, 1.35 pounds
- Binding: Paperback
- 328 pages

⬇ Download Bayesian Data Analysis in Ecology Using Linear Mod ...pdf

🗎 Read Online Bayesian Data Analysis in Ecology Using Linear M ...pdf

Download and Read Free Online Bayesian Data Analysis in Ecology Using Linear Models with R, BUGS, and Stan By Franzi Korner-Nievergelt, Tobias Roth, Stefanie von Felten, Jérôme Guélat, Bettina Almasi, Pius Korner-Nievergelt

---

Editorial Review

Review
"...an excellent statistical toolbox book that provides examples of ecological analyses that increase in complexity using frequentist and Bayesian methods...it will have a permanent place on many bookshelves, including mine..." --**The Journal of Wildlife Management**

About the Author
Fränzi Korner-Nievergelt has been working as a statistical consultant since 2003. Dr. Korner-Nievergelt conducts research in ecology and ecological statistics at the Swiss Ornithological Institute and oikostat GmbH. Additionally, she provides data analyses for scientific projects in the public and private sector. A large part of her work involves teaching courses for scientists at scientific institutions and private organizations.

Tobias Roth is a postdoc at the University of Basel where he teaches masters level courses in statistics for ecology and biology students. In addition, Dr. Tobias Roth is co-owner and project manager at Hintermann & Weber AG, where he is responsible for data analyses and develops analytical methods for biodiversity monitoring programs.

Stefanie von Felten has a PhD in Plant Ecology and a diploma of advanced studies in statistics. Since 2010 she works as statistician at the University Hospital Basel where she is involved in planning, analysis and publication of clinical studies. In addition, Dr. von Felten is a statistical consultant for oikostat GmbH. She has been teaching statistics in several courses for Master and PhD students at various academic institutions and for doctors and other health personnel at the Hospital.

Jérôme Guélat has been leading the GIS team at the Swiss Ornithological Institute for more than 6 years. He uses spatial statistics to provide guidance to applied conservation problems. He also teaches a short course on spatial and Bayesian statistics.

Bettina Almasi has a PhD in eco-physiology and ecology from the University of Zurich and a post-diploma course in applied statistics from the ETH Zurich. Dr. Almasi conducts research in stress physiology and behavioural ecology at the Swiss Ornithological Institute and works part-time as a statistical consultant at oikostat GmbH

Pius Korner-Nievergelt has a PhD in ecology, conservation biology and a post-diploma course in applied statistics both from ETH Zurich. Dr. Korner-Nievergelt works as a statistician at oikostat GmbH as well as at the Swiss Ornithological Institute for data analyses, mainly regarding ecological questions.

Users Review

From reader reviews:

Carmen Fields:

Throughout other case, little persons like to read book Bayesian Data Analysis in Ecology Using Linear

Models with R, BUGS, and Stan. You can choose the best book if you want reading a book. Provided that we know about how is important any book Bayesian Data Analysis in Ecology Using Linear Models with R, BUGS, and Stan. You can add know-how and of course you can around the world by the book. Absolutely right, due to the fact from book you can understand everything! From your country till foreign or abroad you will find yourself known. About simple matter until wonderful thing you may know that. In this era, we can easily open a book as well as searching by internet device. It is called e-book. You can utilize it when you feel weary to go to the library. Let's read.

Jerry Goble:

The knowledge that you get from Bayesian Data Analysis in Ecology Using Linear Models with R, BUGS, and Stan may be the more deep you searching the information that hide within the words the more you get serious about reading it. It does not mean that this book is hard to be aware of but Bayesian Data Analysis in Ecology Using Linear Models with R, BUGS, and Stan giving you buzz feeling of reading. The article writer conveys their point in certain way that can be understood by means of anyone who read that because the author of this e-book is well-known enough. That book also makes your vocabulary increase well. Making it easy to understand then can go to you, both in printed or e-book style are available. We advise you for having this Bayesian Data Analysis in Ecology Using Linear Models with R, BUGS, and Stan instantly.

Latonya Sams:

Hey guys, do you wants to finds a new book to study? May be the book with the title Bayesian Data Analysis in Ecology Using Linear Models with R, BUGS, and Stan suitable to you? Often the book was written by well known writer in this era. The particular book untitled Bayesian Data Analysis in Ecology Using Linear Models with R, BUGS, and Stanis a single of several books which everyone read now. This specific book was inspired many men and women in the world. When you read this guide you will enter the new shape that you ever know ahead of. The author explained their plan in the simple way, so all of people can easily to understand the core of this guide. This book will give you a great deal of information about this world now. To help you see the represented of the world in this book.

Sherry Holsey:

Your reading sixth sense will not betray you actually, why because this Bayesian Data Analysis in Ecology Using Linear Models with R, BUGS, and Stan guide written by well-known writer we are excited for well how to make book which can be understand by anyone who also read the book. Written with good manner for you, dripping every ideas and publishing skill only for eliminate your personal hunger then you still uncertainty Bayesian Data Analysis in Ecology Using Linear Models with R, BUGS, and Stan as good book not merely by the cover but also through the content. This is one reserve that can break don't determine book by its handle, so do you still needing one more sixth sense to pick this particular!? Oh come on your studying sixth sense already said so why you have to listening to yet another sixth sense.

Read Bayesian Data Analysis in Ecology Using Linear Models with R, BUGS, and Stan By Franzi Korner-Nievergelt, Tobias Roth, Stefanie von Felten, Jérôme Guélat, Bettina Almasi, Pius Korner-Nievergelt for online ebook

Bayesian Data Analysis in Ecology Using Linear Models with R, BUGS, and Stan By Franzi Korner-Nievergelt, Tobias Roth, Stefanie von Felten, Jérôme Guélat, Bettina Almasi, Pius Korner-Nievergelt Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Bayesian Data Analysis in Ecology Using Linear Models with R, BUGS, and Stan By Franzi Korner-Nievergelt, Tobias Roth, Stefanie von Felten, Jérôme Guélat, Bettina Almasi, Pius Korner-Nievergelt books to read online.

Online Bayesian Data Analysis in Ecology Using Linear Models with R, BUGS, and Stan By Franzi Korner-Nievergelt, Tobias Roth, Stefanie von Felten, Jérôme Guélat, Bettina Almasi, Pius Korner-Nievergelt ebook PDF download

Bayesian Data Analysis in Ecology Using Linear Models with R, BUGS, and Stan By Franzi Korner-Nievergelt, Tobias Roth, Stefanie von Felten, Jérôme Guélat, Bettina Almasi, Pius Korner-Nievergelt Doc

Bayesian Data Analysis in Ecology Using Linear Models with R, BUGS, and Stan By Franzi Korner-Nievergelt, Tobias Roth, Stefanie von Felten, Jérôme Guélat, Bettina Almasi, Pius Korner-Nievergelt Mobipocket

Bayesian Data Analysis in Ecology Using Linear Models with R, BUGS, and Stan By Franzi Korner-Nievergelt, Tobias Roth, Stefanie von Felten, Jérôme Guélat, Bettina Almasi, Pius Korner-Nievergelt EPub