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Introduction To Winbugs For Ecologists Bayesian Approach To Regression Anova Mixed Models And Related Analyses

Matteo Garbelotto ,Paolo Gonthier



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Introduction to WinBUGS for Ecologists Marc Kéry, 2010-07-19 Introduction to WinBUGS for Ecologists introduces applied Bayesian modeling to ecologists using the highly acclaimed free WinBUGS software. It offers an understanding of statistical models as abstract representations of the various processes that give rise to a data set. Such an understanding is basic to the development of inference models tailored to specific sampling and ecological scenarios. The book begins by presenting the advantages of a Bayesian approach to statistics and introducing the WinBUGS software. It reviews the four most common statistical distributions: the normal, the uniform, the binomial, and the Poisson. It describes the two different kinds of analysis of variance: ANOVA, one way and two or multiway. It looks at the general linear model or ANCOVA in R and WinBUGS. It introduces the generalized linear model (GLM), i.e., the extension of the normal linear model to allow error distributions other than the normal. The GLM is then extended to contain additional sources of random variation to become a generalized linear mixed model (GLMM) for a Poisson example and for a binomial example. The final two chapters showcase two fairly novel and nonstandard versions of a GLMM. The first is the site occupancy model for species distributions; the second is the binomial or N-mixture model for estimation and modeling of abundance. Introduction to the essential theories of key models used by ecologists. Complete juxtaposition of classical analyses in R and Bayesian analysis of the same models in WinBUGS. Provides every detail of R and WinBUGS code required to conduct all analyses. Companion Web Appendix that contains all code contained in the book and additional material including more code and solutions to exercises.

A Bayesian Introduction to Fish Population Analysis Joseph E. Hightower, 2025-09-23 Fisheries science is an applied field. A biologist working on a depleted population might need to forecast the population trajectory or examine which factors are limiting recovery. For an exploited population, a biologist might investigate whether the fishery or the stock would be improved through harvest regulation such as a quota or size limit. Addressing those sorts of questions generally involves estimating parameters such as population size or survival rate. An essential step is characterizing the degree of uncertainty in results which can be substantial for fisheries models. Bayesian methods and current software provide a flexible and powerful framework for addressing these challenges. Models developed using Bayesian software can be tailored to the unique aspects of each field study. *A Bayesian Introduction to Fish Population Analysis* is aimed at advanced undergraduate and graduate students as well as working professionals interested in a hands-on introduction to Bayesian approaches for fitting fisheries models. Chapters address key aspects of population dynamics: abundance, mortality, growth, and recruitment. The book includes complete R code for simulating each study design and JAGS Bayesian code for model fitting; code files are also available online. No prior knowledge of R or JAGS is assumed, and new commands are introduced gradually through the sequence of examples. There is emphasis throughout the book on how to vary simulation settings to develop intuition about fisheries.

models e.g. how many fish should be tagged in order to obtain usefully precise results. Additional topics include development of integrated population models, model checking, model selection, and uninformative and informative prior distributions. Key features include: The book begins with a focus on ecologically relevant probability distributions e.g. binomial, Poisson, normal, lognormal as a foundation for the applied fisheries chapters. Subsequent chapters demonstrate Bayesian approaches for estimating abundance, mortality, growth, and recruitment. Full open source code is provided for simulation and plotting using R and Bayesian model fitting using JAGS. The book demonstrates how simulation can be used to gain a deeper understanding of analytical methods and for planning field studies. Joseph E. Hightower is a professor emeritus in the Department of Applied Ecology at NC State University. His research interests focus on fish population dynamics, especially field and analytical methods for estimating population parameters. His primary teaching role was a graduate course in quantitative fisheries management including Bayesian methods that serve as the foundation for this book.

Bayesian Models N. Thompson Hobbs, Mevin B. Hooten, 2025-06-03. A fully updated and expanded edition of the essential primer on Bayesian modeling for ecologists. Uniquely suited to deal with complexity in a statistically coherent way, Bayesian modeling has become an indispensable tool for ecological research. This book teaches the basic principles of mathematics and statistics needed to apply Bayesian models to the analysis of ecological data using language non-statisticians can understand. Deemphasizing computer coding in favor of a clear treatment of model building, it starts with a definition of probability and proceeds step by step through distribution theory, likelihood, simple Bayesian models, and hierarchical Bayesian models. Now revised and expanded, *Bayesian Models* enables students and practitioners to gain new insights from ecological models and data properly tempered by uncertainty. Covers the basic rules of probability needed to model diverse types of ecological data in the Bayesian framework. Shows how to write proper mathematical expressions for posterior distributions using directed acyclic graphs as templates. Explains how to use the powerful Markov chain Monte Carlo algorithm to find posterior distributions of model parameters, latent states, and missing data. Teaches how to check models to assure they meet the assumptions of model-based inference. Demonstrates how to make inferences from single and multiple Bayesian models. Provides worked problems for practicing and strengthening modeling skills. Features new chapters on spatial models and modeling missing data.

Bayesian Population Analysis Using WinBUGS Marc Kéry, Michael Schaub, 2012. Bayesian statistics has exploded into biology and its sub-disciplines such as ecology over the past decade. The free software program WinBUGS and its open source sister OpenBUGS is currently the only flexible and general purpose program available with which the average ecologist can conduct standard and non-standard Bayesian statistics. Comprehensive and richly commented examples illustrate a wide range of models that are most relevant to the research of a modern population ecologist. All WinBUGS/OpenBUGS analyses are completely integrated in software R. Includes complete documentation of all R and WinBUGS code required to conduct analyses and shows all the necessary steps from having the data in a text file out of Excel to interpreting and processing the

output from WinBUGS in R *Encyclopedia of Ecology* Brian D. Fath, 2018-08-23 Encyclopedia of Ecology Second Edition Four Volume Set continues the acclaimed work of the previous edition published in 2008 It covers all scales of biological organization from organisms to populations to communities and ecosystems Laboratory field simulation modelling and theoretical approaches are presented to show how living systems sustain structure and function in space and time New areas of focus include micro and macro scales molecular and genetic ecology and global ecology e g climate change earth transformations ecosystem services and the food water energy nexus are included In addition new international experts in ecology contribute on a variety of topics Offers the most broad ranging and comprehensive resource available in the field of ecology Provides foundational content and suggests further reading Incorporates the expertise of over 500 outstanding investigators in the field of ecology including top young scientists with both research and teaching experience Includes multimedia resources such as an Interactive Map Viewer and links to a CSDMS Community Surface Dynamics Modeling System an open source platform for modelers to share and link models dealing with earth system processes **Applied Statistical Modelling for Ecologists** Marc Kéry, Kenneth F. Kellner, 2024-07-18 2025 PROSE Award Finalist in Environmental Science Applied Statistical Modelling for Ecologists provides a gentle introduction to the essential models of applied statistics linear models generalized linear models mixed and hierarchical models All models are fit with both a likelihood and a Bayesian approach using several powerful software packages widely used in research publications JAGS NIMBLE Stan and TMB In addition the foundational method of maximum likelihood is explained in a manner that ecologists can really understand This book is the successor of the widely used Introduction to WinBUGS for Ecologists Kéry Academic Press 2010 Like its parent it is extremely effective for both classroom use and self study allowing students and researchers alike to quickly learn understand and carry out a very wide range of statistical modelling tasks The examples in Applied Statistical Modelling for Ecologists come from ecology and the environmental sciences but the underlying statistical models are very widely used by scientists across many disciplines This book will be useful for anybody who needs to learn and quickly become proficient in statistical modelling with either a likelihood or a Bayesian focus and in the model fitting engines covered including the three latest packages NIMBLE Stan and TMB Contains a concise and gentle introduction to probability and applied statistics as needed in ecology and the environmental sciences Covers the foundations of modern applied statistical modelling Gives a comprehensive applied introduction to what currently are the most widely used and most exciting cutting edge model fitting software packages JAGS NIMBLE Stan and TMB Provides a highly accessible applied introduction to the two dominant methods of fitting parametric statistical models maximum likelihood and Bayesian posterior inference Details the principles of model building model checking and model selection Adopts a Rosetta Stone approach wherein understanding of one software and of its associated language will be greatly enhanced by seeing the analogous code in other engines Provides all code available for download for students at <https://www.elsevier.com/books-and-journals/book>

companion 9780443137150 *Integrated Population Models* Michael Schaub, Marc Kéry, 2021-11-12 Integrated Population Models Theory and Ecological Applications with R and JAGS is the first book on integrated population models which constitute a powerful framework for combining multiple data sets from the population and the individual levels to estimate demographic parameters and population size and trends These models identify drivers of population dynamics and forecast the composition and trajectory of a population Written by two population ecologists with expertise on integrated population modeling this book provides a comprehensive synthesis of the relevant theory of integrated population models with an extensive overview of practical applications using Bayesian methods by means of case studies The book contains fully documented complete code for fitting all models in the free software R and JAGS It also includes all required code for pre and post model fitting analysis Integrated Population Models is an invaluable reference for researchers and practitioners involved in population analysis and for graduate level students in ecology conservation biology wildlife management and related fields The text is ideal for self study and advanced graduate level courses Offers practical and accessible ecological applications of IPMs integrated population models Provides full documentation of analyzed code in the Bayesian framework Written and structured for an easy approach to the subject especially for non statisticians **Spatiotemporal Analytics** Jay Lee, 2023-03-17 This book introduces readers to spatiotemporal analytics that are extended from spatial statistics Spatiotemporal analytics help analysts to quantitatively recognize and evaluate the spatial patterns and their temporal trends of a set of geographic events or objects Spatiotemporal analyses are very important in geography environmental sciences economy and many other domains Spatiotemporal Analytics explains in very simple terms the concepts of spatiotemporal data and statistics theories and methods used Each chapter introduces a case study as an example application for an in depth learning process The software used and the codes provided enable readers not only to learn statistics but also to use them effectively in their projects Provides a comprehensive understanding of spatiotemporal analytics to readers with minimum knowledge in statistics Written in simple understandable language with step by step instructions Includes numerous examples for all theories and methods explained in the book covering a wide range of applications from different disciplines Each application includes a software code needed to follow the instructions Each chapter also has a set of prepared PowerPoint slides to help spatiotemporal analytics instructors explain the content Undergraduate and graduate students who use Geographic Information Systems or study Geographical Information Science will find this book useful The subject matter is also pertinent to an array of disciplines such as agriculture anthropology archaeology architecture biology business administration and management civic engineering criminal justice epidemiology geography geology marketing political science and public health *The BUGS Book* David Lunn, Chris Jackson, Nicky Best, Andrew Thomas, David Spiegelhalter, 2012-10-02 Bayesian statistical methods have become widely used for data analysis and modelling in recent years and the BUGS software has become the most popular software for Bayesian analysis worldwide Authored by the team

that originally developed this software The BUGS Book provides a practical introduction to this program and its use The text presents

Camera Trapping for Wildlife Research Francesco Rovero, Fridolin Zimmermann, 2016-06-18 Camera trapping is a powerful and now widely used tool in scientific research on wildlife ecology and management It provides a unique opportunity for collecting knowledge investigating the presence of animals or recording and studying behaviour Its visual nature makes it easy to successfully convey findings to a wide audience This book provides a much needed guide to the sound use of camera trapping for the most common ecological applications to wildlife research Each phase involved in the use of camera trapping is covered Selecting the right camera type Set up and field deployment of your camera trap Defining the sampling design presence absence species inventory abundance occupancy at species level capture mark recapture for density estimation behavioural studies community level analysis Data storage management and analysis for your research topic with illustrative examples for using R and Excel Using camera trapping for monitoring conservation and public engagement Each chapter in this edited volume is essential reading for students scientists ecologists educators and professionals involved in wildlife research or management

Forest Pathology and Plant Health Matteo Garbelotto , Paolo Gonthier, 2018-04-13 This book is a printed edition of the Special Issue Forest Pathology and Plant Health that was published in *Forests*

Environmental Data Analysis Carsten Dormann, 2020-12-20 Environmental Data Analysis is an introductory statistics textbook for environmental science It covers descriptive inferential and predictive statistics centred on the Generalized Linear Model The key idea behind this book is to approach statistical analyses from the perspective of maximum likelihood essentially treating most analyses as multiple regression problems The reader will be introduced to statistical distributions early on and will learn to deploy models suitable for the data at hand which in environmental science are often not normally distributed To make the initially steep learning curve more manageable each statistical chapter is followed by a walk through in a corresponding R based how to chapter which reviews the theory and applies it to environmental data In this way a coherent and expandable foundation in parametric statistics is laid which can be expanded in advanced courses The content has been field tested in several years of courses on statistics for Environmental Science Geography and Forestry taught at the University of Freiburg

Population Ecology in Practice Dennis L. Murray, Brett K. Sandercock, 2020-02-10 A synthesis of contemporary analytical and modeling approaches in population ecology The book provides an overview of the key analytical approaches that are currently used in demographic genetic and spatial analyses in population ecology The chapters present current problems introduce advances in analytical methods and models and demonstrate the applications of quantitative methods to ecological data The book covers new tools for designing robust field studies estimation of abundance and demographic rates matrix population models and analyses of population dynamics and current approaches for genetic and spatial analysis Each chapter is illustrated by empirical examples based on real datasets with a companion website that offers online exercises and examples of computer code in the R statistical software platform Fills a niche for a book that

emphasizes applied aspects of population analysis Covers many of the current methods being used to analyse population dynamics and structure Illustrates the application of specific analytical methods through worked examples based on real datasets Offers readers the opportunity to work through examples or adapt the routines to their own datasets using computer code in the R statistical platform Population Ecology in Practice is an excellent book for upper level undergraduate and graduate students taking courses in population ecology or ecological statistics as well as established researchers needing a desktop reference for contemporary methods used to develop robust population assessments Biostatistics with R Jan Lepš, Petr Šmilauer, 2020-07-30 A straightforward introduction to a wide range of statistical methods for field biologists using thoroughly explained R code **Applied Hierarchical Modeling in Ecology: Analysis of distribution, abundance and species richness in R and BUGS** Marc Kéry, J. Andrew Royle, 2015-11-14 Applied Hierarchical Modeling in Ecology Distribution Abundance Species Richness offers a new synthesis of the state of the art of hierarchical models for plant and animal distribution abundance and community characteristics such as species richness using data collected in metapopulation designs These types of data are extremely widespread in ecology and its applications in such areas as biodiversity monitoring and fisheries and wildlife management This first volume explains static models procedures in the context of hierarchical models that collectively represent a unified approach to ecological research taking the reader from design through data collection and into analyses using a very powerful class of models Applied Hierarchical Modeling in Ecology Volume 1 serves as an indispensable manual for practicing field biologists and as a graduate level text for students in ecology conservation biology fisheries wildlife management and related fields Provides a synthesis of important classes of models about distribution abundance and species richness while accommodating imperfect detection Presents models and methods for identifying unmarked individuals and species Written in a step by step approach accessible to non statisticians and provides fully worked examples that serve as a template for readers analyses Includes companion website containing data sets code solutions to exercises and further information *Camera Traps in Animal Ecology* Allan F. O'Connell, James D. Nichols, K. Ullas Karanth, 2010-10-05 Remote photography and infrared sensors are widely used in the sampling of wildlife populations worldwide especially for cryptic or elusive species Guiding the practitioner through the entire process of using camera traps this book is the first to compile state of the art sampling techniques for the purpose of conducting high quality science or effective management Chapters on the evaluation of equipment field sampling designs and data analysis methods provide a coherent framework for making inferences about the abundance species richness and occupancy of sampled animals The volume introduces new models that will revolutionize use of camera data to estimate population density such as the newly developed spatial capture recapture models It also includes richly detailed case studies of camera trap work on some of the world's most charismatic elusive and endangered wildlife species Indispensable to wildlife conservationists ecologists biologists and conservation agencies around the world the text provides a thorough review of the subject as well as

a forecast for the use of remote photography in natural resource conservation over the next few decades

Berry Crop Production and Protection Samir C. Debnath, 2019-07-01 Berry crops include but are not limited to the genera *Fragaria* strawberry Rosaceae *Ribes* currant and gooseberry Grossulariaceae *Rubus* brambles raspberry and blackberry Rosaceae *Vaccinium* blueberry cranberry and lingonberry Ericaceae and *Vitis* grapes Vitaceae The significant role of these fruits in maintaining human health has increased their popularity and production dramatically across the world This Special Issue of Agronomy covers berry crops in the areas of breeding genetics germplasm production systems propagation plant and soil nutrition pest and disease management postharvest health benefits marketing and economics and other related areas The aim will be to bring together a collection of valuable articles that will serve as a foundation of innovative ideas for production and protection of health promoting berry crops in changed environment

Estimating Presence and Abundance of Closed Populations George A. F. Seber, Matthew R. Schofield, 2023-12-01 This comprehensive book covers a wide variety of methods for estimating the sizes and related parameters of closed populations With the effect of climate change and human territory invasion we have seen huge species losses and a major biodiversity decline Populations include plants trees various land and sea animals and some human populations With such a diversity of populations an extensive variety of different methods are described with the collection of different types of data For example we have count data from plot sampling which can also allow for incomplete detection There is a large chapter on occupancy methods where a major interest is determining whether a particular species is present or not Citizen and opportunistic survey data can also be incorporated A related topic is species methods where species richness and species interactions are of interest A variety of distance methods are discussed One can use distances from points and lines as well as nearest neighbor distances The applications are extensive and include marine acoustic and aerial surveys using multiple observers or detection devices Line intercept measurements have a role to play such as for example estimating parameters relating to plant coverage An increasingly important class of removal methods considers successive removals from a population with physical removal or removal by capture recapture of marked individuals With the change in ratio method removals are taken from two or more classes e.g. males and females Effort data used for removals can also be used A very important method for estimating abundance is the use of capture recapture data collected discretely or continuously and can be analysed using both frequency and Bayesian methods Computational aspects of fitting Bayesian models are described A related topic of growing interest is the use of spatial and camera methods With the plethora of models there has been a corresponding development of various computational methods and packages which are often mentioned throughout Covariate data is being used more frequently which can reduce the number of unknown parameters by using logistic and loglinear models An important computational aspect is that of model selection methods The book provides a useful list of over 1400 references

Ecological Statistics Gordon A. Fox, Simoneta Negrete-Yankelevich, Vinicio J. Sosa, 2015 The application and interpretation of statistics are central

to ecological study and practice Ecologists are now asking more sophisticated questions than in the past These new questions together with the continued growth of computing power and the availability of new software have created a new generation of statistical techniques These have resulted in major recent developments in both our understanding and practice of ecological statistics This novel book synthesizes a number of these changes addressing key approaches and issues that tend to be overlooked in other books such as missing censored data correlation structure of data heterogeneous data and complex causal relationships These issues characterize a large proportion of ecological data but most ecologists training in traditional statistics simply does not provide them with adequate preparation to handle the associated challenges Uniquely Ecological Statistics highlights the underlying links among many statistical approaches that attempt to tackle these issues In particular it gives readers an introduction to approaches to inference likelihoods generalized linear mixed models spatially or phylogenetically structured data and data synthesis with a strong emphasis on conceptual understanding and subsequent application to data analysis Written by a team of practicing ecologists mathematical explanations have been kept to the minimum necessary This user friendly textbook will be suitable for graduate students researchers and practitioners in the fields of ecology evolution environmental studies and computational biology who are interested in updating their statistical tool kits A companion web site provides example data sets and commented code in the R language

Spatial Analysis of Bicycle Use and Accident Risks for Cyclists Grégory Vandenbulcke-Plasschaert, 2011-11-20 Most developed countries nowadays face environmental health and mobility problems as a consequence of widespread car use Policies are now being reappraised in favour of more sustainable modes of transport In particular bicycle use holds the potential to provide a green and healthy alternative to car commuting There are however still important barriers that discourage people cycling This thesis aims at identifying some of the main factors that influence cycle commuting and cycling accidents Identifying such factors would in turn provide greater support to enable policy makers developing supportive environmental conditions for cycling In the first part of this thesis we examine which factors influence the spatial variation of bicycle use for commuting to work at the level of the municipalities in Belgium Special attention is paid to bicycle specific factors and spatial econometric methods are used to account for the presence of spatial effects in the data The second part of this thesis examines which factors are associated with cycling accidents in Brussels Spatial point pattern methods extended to networks are used to compare the locational tendencies of cycling accidents officially registered by the police with those that are unregistered An innovative case control approach based on a rigorous sampling design of controls and an exhaustive data collection of spatial factors is also proposed to allow modelling the risk of cycling accident along the Brussels road network This thesis not only provides sound recommendations helping planners and policy makers to encourage bicycle use but it also offers new research directions for pinpointing locations where accidents are more likely to occur

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Analyses Introduction

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