

# Bayesian Models

SECOND EDITION

A STATISTICAL PRIMER FOR ECOLOGISTS

**N. Thompson Hobbs  
Mevin B. Hooten**

# Bayesian Models A Statistical Primer For Ecologists

**Ann E. Hajek,David I. Shapiro-Ilan**

## **Bayesian Models A Statistical Primer For Ecologists:**

**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 Statistics for Beginners* Therese M. Donovan, Ruth M. Mickey, 2019-05-23 Bayesian statistics is currently undergoing something of a renaissance. At its heart is a method of statistical inference in which Bayes' theorem is used to update the probability for a hypothesis as more evidence or information becomes available. It is an approach that is ideally suited to making initial assessments based on incomplete or imperfect information as that information is gathered and disseminated. The Bayesian approach corrects or replaces the assumptions and alters its decision making accordingly to generate a new set of probabilities. As new data evidence becomes available, the probability for a particular hypothesis can therefore be steadily refined and revised. It is very well suited to the scientific method in general and is widely used across the social, biological, medical, and physical sciences. Key to this book's novel and informal perspective is its unique pedagogy, a question and answer approach that utilizes accessible language, humor, plentiful illustrations, and frequent reference to online resources. Bayesian Statistics for Beginners is an introductory textbook suitable for senior undergraduate and graduate students, professional researchers, and practitioners seeking to improve their understanding of the Bayesian statistical techniques they routinely use for data analysis in the life and medical sciences, psychology, public health, business, and other fields.

*Ecology of Invertebrate Diseases* Ann E. Hajek, David I. Shapiro-Ilan, 2018-01-16 A rapidly growing interdisciplinary field, disease ecology merges key ideas from ecology, medicine, genetics, immunology, and epidemiology to study how hosts and pathogens interact in populations, communities, and entire ecosystems. Bringing together contributions from leading international experts on the ecology of diseases among invertebrates,

species this book provides a comprehensive assessment of the current state of the field Beginning with an introductory overview of general principles and methodologies the book continues with in depth discussions of a range of critical issues concerning invertebrate disease epidemiology molecular biology vectors and pathogens Topics covered in detail include Methods for studying the ecology of invertebrate diseases and pathogens Invertebrate pathogen ecology and the ecology of pathogen groups Applied ecology of invertebrate pathogens Leveraging the ecology of invertebrate pathogens in microbial control Prevention and management of infectious diseases of aquatic invertebrates Ecology of Invertebrate Diseases is a necessary and long overdue addition to the world literature on this vitally important subject This volume belongs on the reference shelves of all those involved in the environmental sciences genetics microbiology marine biology immunology epidemiology fisheries and wildlife science and related disciplines     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     Quantitative Analyses in Wildlife Science Leonard A. Brennan,Andrew N. Tri,Bruce G. Marcot,2019-09-10 An authoritative guide to quantitative methods that will help wildlife scientists improve analysis and decision making Over the past fifty years wildlife science has become increasingly quantitative But to wildlife scientists many of whom have not been formally trained as biometrists computer modelers or mathematicians the wide array of available techniques for analyzing wildlife populations and habitats can be overwhelming This practical book aims to help students and professionals alike understand how to use quantitative methods to inform their work in the field Covering the most widely used contemporary approaches to the analysis of wildlife populations and habitats Quantitative Analyses in Wildlife Science is divided into five broad areas general statistical methods demographic estimation dynamic process modeling analysis of spatially based data on animals and resources numerical methods Addressing a variety of topics from population estimation and growth trend predictions to the study of migration patterns this book presents fresh data on such pressing issues as sustainable take control of invasives and species reintroduction Authored by leading researchers in wildlife science each

chapter considers the structure of data in relation to a particular analytical technique as well as the structure of variation in those data. Providing conceptual and quantitative overviews of modern analytical methods the techniques covered in this book also apply to conservation research and wildlife policy. Whether a quick refresher or a comprehensive introduction is called for, *Quantitative Analyses in Wildlife Science* is an indispensable addition to every wildlife professional's bookshelf.

Contributors: William M. Block, Leonard A. Brennan, Stephen T. Buckland, Christopher C. Chizinski, Evan C. Cooch, Raymond J. Davis, Stephen J. DeMaso, Randy W. DeYoung, Jane Elith, Joseph J. Fontane, Julie A. Heinrichs, Mevin B. Hooten, Julianna M. A. Jenkins, Zachary S. Laden, Damon B. Lesmeister, Daniel Linden, Jeffrey J. Lusk, Bruce G. Marcot, David L. Miller, Michael L. Morrison, Eric Rexstad, Jamie S. Sanderlin, Joseph P. Sands, Erica F. Stuber, Chris Sutherland, Andrew N. Tri, David B. Wester, Gary C. White, Christopher K. Williams, Damon L. Williford.

### **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.

*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 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 Primer of Ecological Statistics** Nicholas J. Gotelli, Aaron M. Ellison, 2013-03-14

A Primer of Ecological Statistics Second Edition explains fundamental material in probability theory experimental design and parameter estimation for ecologists and environmental scientists The book emphasizes a general introduction to probability theory and provides a detailed discussion of specific designs and analyses that are typically encountered in ecology and environmental science Appropriate for use as either a stand alone or supplementary text for upper division undergraduate or graduate courses in ecological and environmental statistics ecology environmental science environmental studies or experimental design the Primer also serves as a resource for environmental professionals who need to use and interpret statistics daily but have little or no formal training in the subject The book is divided into four parts Part I discusses the fundamentals of probability and statistical thinking It introduces the logic and language of probability Chapter 1 explains common statistical distributions used in ecology Chapter 2 and important measures of central tendency and spread Chapter 3 explains P values hypothesis testing and statistical errors Chapter 4 and introduces frequentist Bayesian and Monte Carlo methods of analysis Chapter 5 Part II discusses how to successfully design and execute field experiments and sampling studies Topics include design strategies Chapter 6 a bestiary of experimental designs Chapter 7 and transformations and data management Chapter 8 Part III discusses specific analyses and covers the material that is the main core of most statistics texts Topics include regression Chapter 9 analysis of variance Chapter 10 categorical data analysis Chapter 11 and multivariate analysis Chapter 12 Part IV new to this edition discusses two central topics in estimating important ecological metrics Topics include quantification of biological diversity Chapter 13 and estimating occupancy detection probability and population sizes from marked and unmarked populations Chapter 14 The book includes a comprehensive glossary a mathematical appendix on matrix algebra and extensively annotated tables and figures Footnotes introduce advanced and ancillary material some are purely historical others cover mathematical statistical proofs or details and still others address current topics in the ecological literature Data files and code used for some of the examples as well as errata are available online

### **Introduction to Hierarchical Bayesian Modeling for Ecological Data** Eric Parent, Etienne Rivot, 2012-08-21

Making statistical modeling and inference more accessible to ecologists and related scientists Introduction to Hierarchical Bayesian Modeling for Ecological Data gives readers a flexible and effective framework to learn about complex ecological processes from various sources of data It also

helps readers get started on building their own statisti [Bringing Bayesian Models to Life](#) Mevin B. Hooten,Trevor Hefley,2019-05-15 Bringing Bayesian Models to Life empowers the reader to extend enhance and implement statistical models for ecological and environmental data analysis We open the black box and show the reader how to connect modern statistical models to computer algorithms These algorithms allow the user to fit models that answer their scientific questions without needing to rely on automated Bayesian software We show how to handcraft statistical models that are useful in ecological and environmental science including linear and generalized linear models spatial and time series models occupancy and capture recapture models animal movement models spatio temporal models and integrated population models Features R code implementing algorithms to fit Bayesian models using real and simulated data examples A comprehensive review of statistical models commonly used in ecological and environmental science Overview of Bayesian computational methods such as importance sampling MCMC and HMC Derivations of the necessary components to construct statistical algorithms from scratch Bringing Bayesian Models to Life contains a comprehensive treatment of models and associated algorithms for fitting the models to data We provide detailed and annotated R code in each chapter and apply it to fit each model we present to either real or simulated data for instructional purposes Our code shows how to create every result and figure in the book so that readers can use and modify it for their own analyses We provide all code and data in an organized set of directories available at the authors websites [Bayesian Inference](#) William A Link,Richard J Barker,2009-08-07 This text is written to provide a mathematically sound but accessible and engaging introduction to Bayesian inference specifically for environmental scientists ecologists and wildlife biologists It emphasizes the power and usefulness of Bayesian methods in an ecological context The advent of fast personal computers and easily available software has simplified the use of Bayesian and hierarchical models One obstacle remains for ecologists and wildlife biologists namely the near absence of Bayesian texts written specifically for them The book includes many relevant examples is supported by software and examples on a companion website and will become an essential grounding in this approach for students and research ecologists Engagingly written text specifically designed to demystify a complex subject Examples drawn from ecology and wildlife research An essential grounding for graduate and research ecologists in the increasingly prevalent Bayesian approach to inference Companion website with analytical software and examples Leading authors with world class reputations in ecology and biostatistics [Bayesian Methods for Ecology](#) Michael A. McCarthy,2007-05-10 The interest in using Bayesian methods in ecology is increasing however many ecologists have difficulty with conducting the required analyses McCarthy bridges that gap using a clear and accessible style The text also incorporates case studies to demonstrate mark recapture analysis development of population models and the use of subjective judgement The advantages of Bayesian methods are also described here for example the incorporation of any relevant prior information and the ability to assess the evidence in favour of competing hypotheses Free software is available as well as an accompanying web site containing the data files and

WinBUGS codes Bayesian Methods for Ecology will appeal to academic researchers upper undergraduate and graduate students of Ecology 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> Encyclopedia of Ecology Sven Erik Jørgensen, Brian D. Fath, 2008 The Encyclopedia of Ecology contains contributions from international experts on a diverse array of topics related to ecology It provides current and comprehensive information on many themes including behavioral ecology ecological processes ecological modeling ecological engineering ecological indicators ecological informatics ecosystems ecotoxicology evolutionary ecology general ecology global ecology human ecology and systems ecology The online version includes extensive internal cross referencing and dynamic linking to journal articles and abstract databases **A Primer of Ecological Statistics EBook** Nicholas J. Gotelli, Aaron M. Ellison, 2013 *Introduction to Bayesian Methods in Ecology and Natural Resources* Edwin J. Green, Andrew O. Finley, William E. Strawderman, 2020-11-26 This book presents modern Bayesian analysis in a format that is accessible to researchers in the fields of ecology wildlife biology and natural resource management Bayesian analysis has undergone a remarkable transformation since the early 1990s Widespread adoption of

Markov chain Monte Carlo techniques has made the Bayesian paradigm the viable alternative to classical statistical procedures for scientific inference The Bayesian approach has a number of desirable qualities three chief ones being i the mathematical procedure is always the same allowing the analyst to concentrate on the scientific aspects of the problem ii historical information is readily used when appropriate and iii hierarchical models are readily accommodated This monograph contains numerous worked examples and the requisite computer programs The latter are easily modified to meet new situations A primer on probability distributions is also included because these form the basis of Bayesian inference Researchers and graduate students in Ecology and Natural Resource Management will find this book a valuable reference

Annales zoologici Fennici ,2009    Bayesian GLMs in R for Ecology Mark Warren,Carl Smith,2021-10-16 A practical handbook to introduce Bayesian general and generalised linear models GLMs to ecologists using R The book is aimed at advanced undergraduate and post graduate research students and provides access to R script and data for each analysis presented The concepts behind Bayesian modelling are explained along with comprehensive instructions of how to fit Bayesian models as well as highlighting the potential pitfalls to this approach    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    Bayesian Likelihood Methods in Ecology and Biology Michael Brimacombe,2019-01-02 Through an integrated and comparative approach Bayesian Likelihood Methods in Ecology and Biologyprovides a clear guide to the development application and interpretation of Bayesian statistical methods to real world scientific problems in ecology and biology The book presents an overview of

likelihood based statistical models and offers a modern Bayesian interpretation Applications of these models to biological and ecological problems are then presented in detail Statistical methods used for calculations include linear models categorical data analysis and survival analysis A CD ROM of datasets and computer coding using programs such as WinBUGS and S PLUS accompanies the book

## **Bayesian Models A Statistical Primer For Ecologists** Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the power of words has never been more evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **Bayesian Models A Statistical Primer For Ecologists**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall impact on readers.

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## **Bayesian Models A Statistical Primer For Ecologists Introduction**

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