

The R Series

Introductory Fisheries Analyses with R



Derek H. Ogden



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Introductory Fisheries Analysis With R

Kevin L. Pope, Larkin A. Powell



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every chapter *R Primer* Claus Thorn Ekstrom, 2017-07-28 Newcomers to R are often intimidated by the command line interface the vast number of functions and packages or the processes of importing data and performing a simple statistical analysis The R Primer provides a collection of concise examples and solutions to R problems frequently encountered by new users of this statistical software This new edition adds coverage of R Studio and reproducible research **Extending R** John M. Chambers, 2017-12-19 Up to Date Guidance from One of the Foremost Members of the R Core Team Written by John M Chambers the leading developer of the original S software Extending R covers key concepts and techniques in R to support analysis and research projects It presents the core ideas of R provides programming guidance for projects of all scales and introduces new valuable techniques that extend R The book first describes the fundamental characteristics and background of R giving readers a foundation for the remainder of the text It next discusses topics relevant to programming with R including the apparatus that supports extensions The book then extends R's data structures through object oriented programming which is the key technique for coping with complexity The book also incorporates a new structure for interfaces applicable to a variety of languages A reflection of what R is today this guide explains how to design and organize extensions to R by correctly using objects functions and interfaces It enables current and future users to add their own contributions and packages to R A 2017 Choice Outstanding Academic Title **Testing R Code** Richard Cotton, 2017-01-12 Learn how to write R code with fewer bugs The problem with programming is that you are always one typo away from writing something silly Likewise with data analysis a small mistake in your model can lead to a big mistake in your results Combining the two disciplines means that it is all too easy for a missed minus sign to generate a false prediction that you don't spot until it's too late Testing is the only way to be sure that your code and your results are correct Testing R Code teaches you how to perform development time testing using the testthat package allowing you to ensure that your code works as intended The book also teaches run time testing using the assertive package enabling your users to correctly run your code After beginning with an introduction to testing in R the book explores more advanced cases such as integrating tests into R packages testing code that accesses databases testing C code with Rcpp and testing graphics Each topic is explained with real world examples and has accompanying exercises for readers to practise their skills only a small amount of experience with R is needed to get started **Using the R Commander** John Fox, 2016-09-15 This book provides a general introduction to the R Commander graphical user interface GUI to R for readers who are unfamiliar with R It is suitable for use as a supplementary text in a basic or intermediate level statistics course It is not intended to replace a basic or other statistics text but rather to complement it although it does promote sound statistical practice in the examples The book should also be useful to individual casual or occasional users of R for whom the standard command line interface is an obstacle **Statistics in Toxicology Using R** Ludwig A. Hothorn, 2016-01-13 The apparent contradiction between statistical significance and biological relevance has diminished the value of statistical methods as a whole in toxicology

Moreover recommendations for statistical analysis are imprecise in most toxicological guidelines Addressing these dilemmas Statistics in Toxicology Using R explains the statistical analysis *Spatial Microsimulation with R* Robin Lovelace, Morgane Dumont, 2017-09-07 Generate and Analyze Multi Level Data Spatial microsimulation involves the generation analysis and modeling of individual level data allocated to geographical zones Spatial Microsimulation with R is the first practical book to illustrate this approach in a modern statistical programming language Get Insight into Complex Behaviors The book progresses from the principles underlying population synthesis toward more complex issues such as household allocation and using the results of spatial microsimulation for agent based modeling This equips you with the skills needed to apply the techniques to real world situations The book demonstrates methods for population synthesis by combining individual and geographically aggregated datasets using the recent R packages ipfp and mipfp This approach represents the best of both worlds in terms of spatial resolution and person level detail overcoming issues of data confidentiality and reproducibility Implement the Methods on Your Own Data Full of reproducible examples using code and data the book is suitable for students and applied researchers in health economics transport geography and other fields that require individual level data allocated to small geographic zones By explaining how to use tools for modeling phenomena that vary over space the book enhances your knowledge of complex systems and empowers you to provide evidence based policy guidance

Introduction to Statistical Computing and Visualization Using R Megha Rathi, 2025-05-01 The book provides a foundational guide to statistical computing and visualisation Using R programming with an emphasis on practical data analysis skills that are directly applicable to diverse fields like finance defence health and education It uniquely combines a thorough explanation of basic constructs with advanced topics such as data visualisation statistical modeling and probability making it accessible yet comprehensive for learners across disciplines This approach allows readers not only to build essential R skills but also to apply them to real world scenarios equipping students and professionals from various disciplines with versatile analytical tools It offers a comprehensive yet approachable introduction for students and scholars from various disciplines using R Includes practical and interactive elements such as quizzes coding exercises and hands on projects can provide an engaging and effective learning experience for readers Provides complete code solutions to every problem presented including detailed answers to even the most complex questions Presents case studies that can help contextualize the concepts covered in the book by showing how they are used in specific industries fields or contexts Offers application based practical data analysis with cases in various fields and sectors such as finance healthcare and marketing Focuses on best practices and efficient coding techniques improving productivity and maintainability of R code

Data preparation to inform assessment and management approaches in data-limited fisheries Amoroso, R., Lomonico, S., Snouffer, B., Gutierrez, N. L., 2024-04-26 In fisheries science and management it is not uncommon that fishery data are used at face value as inputs into data limited assessments or empirical indicator based frameworks for management without first conducting a thorough exploration and

critical review of the data Author This practice may lead to biases in results and misdirected fishery management actions Author To address intermediate steps between data collection and any analysis used to inform stock status this manual provides guidance on how to prepare explore and critically review fishery data in data limited situations Author Throughout the manual guidance and sample data are provided primarily in Microsoft Excel or in comma separated value CSV file formats as well as through FishualizeR a publicly available web based R Shiny app that was developed to support the manual Author Instructions in this manual are not intended to present a single prescriptive path but rather to provide guidance that may be further tailored to each individual context Author It is the authors hope and intent that the guidance contained in this manual will allow users to better understand their data make corrections and gain a deeper understanding of the data s utility in assessment and management of data limited fisheries Author The Essentials of Data Science: Knowledge Discovery Using R Graham J. Williams,2017-07-28 The Essentials of Data Science Knowledge Discovery Using R presents the concepts of data science through a hands on approach using free and open source software It systematically drives an accessible journey through data analysis and machine learning to discover and share knowledge from data Building on over thirty years experience in teaching and practising data science the author encourages a programming by example approach to ensure students and practitioners attune to the practise of data science while building their data skills Proven frameworks are provided as reusable templates Real world case studies then provide insight for the data scientist to swiftly adapt the templates to new tasks and datasets The book begins by introducing data science It then reviews R s capabilities for analysing data by writing computer programs These programs are developed and explained step by step From analysing and visualising data the framework moves on to tried and tested machine learning techniques for predictive modelling and knowledge discovery Literate programming and a consistent style are a focus throughout the book **Flexible Regression and Smoothing** Mikis D. Stasinopoulos,Robert A. Rigby,Gillian Z. Heller,Vlasios Voudouris,Fernanda De Bastiani,2017-04-21 This book is about learning from data using the Generalized Additive Models for Location Scale and Shape GAMLSS GAMLSS extends the Generalized Linear Models GLMs and Generalized Additive Models GAMs to accommodate large complex datasets which are increasingly prevalent In particular the GAMLSS statistical framework enables flexible regression and smoothing models to be fitted to the data The GAMLSS model assumes that the response variable has any parametric continuous discrete or mixed distribution which might be heavy or light tailed and positively or negatively skewed In addition all the parameters of the distribution location scale shape can be modelled as linear or smooth functions of explanatory variables Key Features Provides a broad overview of flexible regression and smoothing techniques to learn from data whilst also focusing on the practical application of methodology using GAMLSS software in R Includes a comprehensive collection of real data examples which reflect the range of problems addressed by GAMLSS models and provide a practical illustration of the process of using flexible GAMLSS models for statistical learning R code integrated into the text for ease of

understanding and replication Supplemented by a website with code data and extra materials This book aims to help readers understand how to learn from data encountered in many fields It will be useful for practitioners and researchers who wish to understand and use the GAMLSS models to learn from data and also for students who wish to learn GAMLSS through practical examples

[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

bookdown Yihui Xie, 2016-12-12 bookdown Authoring Books and Technical Documents with R Markdown presents a much easier way to write books and technical publications than traditional tools such as LaTeX and Word The bookdown package inherits the simplicity of syntax and flexibility for data analysis from R Markdown and extends R Markdown for technical writing so that you can make better use of document elements such as figures tables equations theorems citations

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Brief Introduction to Fisheries Xinjun Chen,Yingqi Zhou,2020-05-28 This book offers an introduction to aquaculture sciences and fisheries discussing the concepts and basic characteristics of fisheries fishery resources and the related industries as well as the status of fisheries in various countries around the globe The book also examines aquaculture aquatic product processing and utilization fishery information technology and fishery economics and management in addition to hot topics such as blue growth in fisheries carbon sink fisheries and global environmental changes in the context of fisheries Given its scope it is a valuable resource for undergraduate students in the field as well professional requiring a basic understanding of fisheries

Harvest of Fish and Wildlife Kevin L. Pope,Larkin A. Powell,2021-06-06 Harvest of Fish and Wildlife New Paradigms for Sustainable Management unites experts in wildlife and fishery sciences for an interdisciplinary overview of harvest management This book presents unique insights for embracing the complete social ecological system to ensure a sustainable future It educates users on evolutionary and population dynamics social and political influences hunter and angler behavior decision processes impacts of regulations and stakeholder involvement Features Written by twenty four teams of leading scientists and managers Promotes transparent justification for fishing and hunting regulations Provides examples for integrating decision making into management Emphasizes creativity in management by integrating art and science This book appeals to population biologists evolutionary biologists and social scientists It is a key resource for on the ground managers and research scientists developing harvesting applications As the book s contributors explain Making decisions that are robust to uncertainty is a paradigm shift with a lot of potential to improve outcomes for fish and wildlife populations Andrew Tyre and Brigitte Tenhumberg Temporal shifts in system states must somehow be anticipated and dealt with to derive harvest policies that remain optimal in the long term Michael Conroy Proactive effective management of sportpersons will be essential in the new paradigm of harvest management Matthew Gruntorad and Christopher Chizinski

blogdown Yihui Xie,Alison Presmanes Hill,Amber Thomas,2017-12-01 blogdown Creating Websites with R Markdown provides a practical guide for creating websites using the blogdown package in R In this book we show you how to use dynamic R Markdown documents to build static websites

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Capture-Recapture: Parameter Estimation for Open Animal Populations George A. F. Seber,Matthew R.

Schofield,2019-08-13 This comprehensive book rich with applications offers a quantitative framework for the analysis of the various capture recapture models for open animal populations while also addressing associated computational methods The state of our wildlife populations provides a litmus test for the state of our environment especially in light of global warming and the increasing pollution of our land seas and air In addition to monitoring our food resources such as fisheries we need to protect endangered species from the effects of human activities e g rhinos whales or encroachments on the habitat of orangutans Pests must be be controlled whether insects or viruses and we need to cope with growing feral populations such as opossums rabbits and pigs Accordingly we need to obtain information about a given population s dynamics concerning e g mortality birth growth breeding sex and migration and determine whether the respective population is increasing static or declining There are many methods for obtaining population information but the most useful and most work intensive is generically known as capture recapture where we mark or tag a representative sample of individuals from the population and follow that sample over time using recaptures resightings or dead recoveries Marks can be natural such as stripes fin profiles and even DNA or artificial such as spots on insects Attached tags can for example be simple bands or streamers or more sophisticated variants such as radio and sonic transmitters To estimate population parameters sophisticated and complex mathematical models have been devised on the basis of recapture information and computer packages This book addresses the analysis of such models It is primarily intended for ecologists and wildlife managers who wish to apply the methods to the types of problems discussed above though it will also benefit researchers and graduate students in ecology Familiarity with basic statistical concepts is essential

An Introduction to Fish Migration Pedro Morais,Francoise Daverat,2016-04-21 Since the publication of The Migrations of Fish by Prof Alexander Meek in 1916 a number of books have been published on this subject However most of these books only cover one type of migratory mechanisms This book aims to overcome this drawback by presenting a comprehensive coverage of all life history strategies potadromy anadromy catadrom

Introduction to Freshwater Fish Ecology and Management Arne N. Linløkken, 2024-10-09 This book is an introduction to freshwater fish ecology The book covers the process of planning and conducting fish surveys in freshwater describes the available practical methods for sampling and analysing and provides some examples of statistical treatments with considerations and conclusions based on these It will be of interest to bachelor s and master s students of fish biology and management libraries and laboratories of fish wildlife management services and research

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