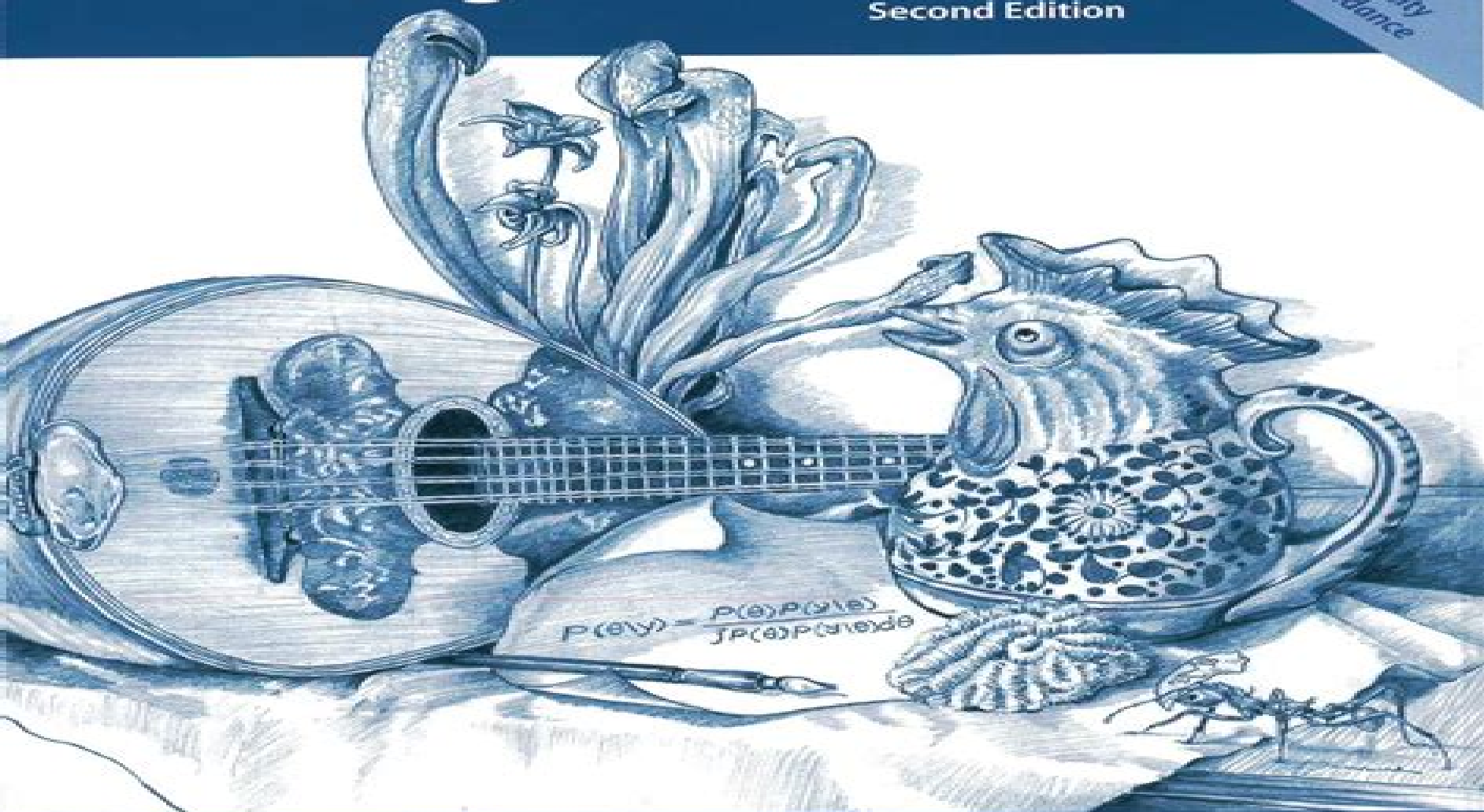


A Primer of Ecological Statistics

Second Edition

NEW CHAPTERS
Estimating Species Diversity
Estimating Species Abundance



NICHOLAS J. GOTELLI • AARON M. ELLISON

A Primer Of Ecological Statistics

**Malcolm R. Clark, Mireille
Consalvey, Ashley A. Rowden**



A Primer Of Ecological Statistics:

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[A Primer of Ecological Statistics EBook](#) Nicholas J. Gotelli, Aaron M. Ellison, 2013 *Environmental and Ecological Statistics with R* Song S. Qian, 2009-08-19 Emphasizing the inductive nature of statistical thinking Environmental and Ecological Statistics with R connects applied statistics to the environmental and ecological fields It follows the general approach to solving a statistical modeling problem covering model specification parameter estimation and model evaluation The author uses many examples

A Primer of Ecology with R M. Henry Stevens, 2009-06-02 Ecology is more quantitative and theory driven than ever before and A Primer of Ecology with R combines an introduction to the major theoretical concepts in general ecology with a cutting edge open source tool the R programming language Starting with geometric growth and proceeding through stability of multispecies interactions and species abundance distributions this book demystifies and explains fundamental ideas in population and community ecology Graduate students in ecology along with upper division undergraduates and faculty will find this to be a useful overview of important topics In addition to the most basic topics this book includes construction and analysis of demographic matrix

models metapopulation and source sink models host parasitoid and disease models multiple basins of attraction the storage effect neutral theory and diversity partitioning Several sections include examples of confronting models with data Chapter summaries and problem sets at the end of each chapter provide opportunities to evaluate and enrich one's understanding of the ecological ideas that each chapter introduces R is rapidly becoming the lingua franca of quantitative sciences and this text provides a tractable introduction to using the R programming environment in ecology An appendix provides a general introduction and examples of code throughout each chapter give readers the option to hone their growing R skills The distinctive strength of this book is that truths are mostly not revealed but discovered in the way that R savvy ecologists empirical and theoretical work and think now For readers still chained to spreadsheets working through this book could be a revolution in their approach to doing science Stephen P Ellner Cornell University One of the greatest strengths is the integration of ecological theory with examples pulled straight from the literature James R Vonesh Virginia Commonwealth University

Statistical Ecology John A. Ludwig, James F. Reynolds, 1988-05-18 Ecological community data Spatial pattern analysis Species abundance relations Species affinity Community classification Community ordination Community interpretation Ecological Models and Data in R Benjamin M. Bolker, 2008-07-21 Introduction and background Exploratory data analysis and graphics Deterministic functions for ecological modeling Probability and stochastic distributions for ecological modeling Stochastic simulation and power analysis Likelihood and all that Optimization and all that Likelihood examples Standard statistics revisited Modeling variance Dynamic models

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 *A Field Guide to the Ants of New England* Aaron M. Ellison, Nicholas J. Gotelli, Elizabeth J. Farnsworth, Gary D. Alpert, 2012-11-13 This book is the first user friendly regional guide devoted to ants the little things that run the world Lavishly illustrated with more than 500 line drawings 300 plus photographs and regional distribution maps as composite illustrations for every species this guide will introduce amateur and professional naturalists and biologists teachers and students and environmental managers and pest control professionals to more than 140 ant species found in the northeastern United States and eastern Canada The detailed drawings and species descriptions together with the high magnification photographs will allow anyone to identify and learn about ants and their diversity ecology life histories and beauty In addition the book includes sections on collecting ants ant ecology and evolution natural history and patterns of geographic distribution and diversity to help readers gain a greater understanding and appreciation of ants *An Introduction to Disturbance Ecology* Corrado Battisti, Gianluca Poeta, Giuliano Fanelli, 2016-07-19 This book represents an introductory review of disturbance ecology and threat analysis providing schematic concepts and approaches useful for work on sites that are affected by the impact of human actions It is aimed at conservation and environmental practitioners who will find tips for choosing methods and approaches when there are conflicts between the natural components and human activity It is also addressed to students of applied ecology ecosystem management land use planning and environmental impact assessment It discusses a number of topics covered in the programs of many university courses related to basic ecology and ecology of disturbance the latter constituting a field of great interest because of its implications and repercussions in applied territorial science The book is divided into two parts the first focuses on the theoretical and disciplinary framework of the ecology of disturbance while the second is devoted to the analysis of anthropogenic threats This in particular discusses the most recent approach which uses a conventional nomenclature to allow a coarse grained quantification and objective assessment of threat impact on different environmental components Such an approach facilitates the comparison of hierarchically different events and therefore helps define the priorities for management and conservation strategies *How to Do Ecology* Richard Karban, Mikaela Huntzinger, Ian S. Pearse, 2014-07-21 The essential guide to successful ecological research now updated and expanded Most books and courses in ecology cover facts and concepts but don't explain how to actually do ecological research How to Do Ecology provides nuts and bolts advice on organizing and conducting a successful research program This one of a kind book explains how to choose a research question and answer it through manipulative experiments and systematic observations Because science is a social endeavor the book provides strategies for working with other people including professors and collaborators It suggests effective ways to communicate your findings in the form of journal articles oral presentations posters and grant and research proposals The book also includes ideas to help you identify your goals organize a season of fieldwork and deal with negative results In short it makes explicit many of the unspoken assumptions behind doing good research in ecology and provides an

invaluable resource for meaningful conversations between ecologists This second edition of *How to Do Ecology* features new sections on conducting and analyzing observational surveys job hunting and becoming a more creative researcher as well as updated sections on statistical analyses

Causes and Consequences of Species Diversity in Forest Ecosystems Aaron M. Ellison, Frank S. Gilliam, 2019-07-30 This book is a printed edition of the Special Issue *Causes and Consequences of Species Diversity in Forest Ecosystems* that was published in *Forests*

How to be a Quantitative Ecologist Jason Matthiopoulos, 2011-04-12 *How to be a Quantitative Ecologist* The A to R of Green Mathematics and Statistics Ecological research is becoming increasingly quantitative yet students often opt out of courses in mathematics and statistics unwittingly limiting their ability to carry out research in the future This textbook provides a practical introduction to quantitative ecology for students and practitioners who have realised that they need this opportunity The text is addressed to readers who haven't used mathematics since school who were perhaps more confused than enlightened by their undergraduate lectures in statistics and who have never used a computer for much more than word processing and data entry From this starting point it slowly but surely instils an understanding of mathematics statistics and programming sufficient for initiating research in ecology The book's practical value is enhanced by extensive use of biological examples and the computer language R for graphics programming and data analysis

Key Features Provides a complete introduction to mathematics statistics and computing for ecologists Presents a wealth of ecological examples demonstrating the applied relevance of abstract mathematical concepts showing how a little technique can go a long way in answering interesting ecological questions Covers elementary topics including the rules of algebra logarithms geometry calculus descriptive statistics probability hypothesis testing and linear regression Explores more advanced topics including fractals non linear dynamical systems likelihood and Bayesian estimation generalised linear mixed and additive models and multivariate statistics R boxes provide step by step recipes for implementing the graphical and numerical techniques outlined in each section

How to be a Quantitative Ecologist provides a comprehensive introduction to mathematics statistics and computing and is the ideal textbook for late undergraduate and postgraduate courses in environmental biology With a book like this there is no excuse for people to be afraid of maths and to be ignorant of what it can do

Professor Tim Benton Faculty of Biological Sciences University of Leeds UK

[Tracking Environmental Change Using Lake Sediments](#) H. John B. Birks, André F. Lotter, Steve Juggins, John P. Smol, 2012-04-06 Numerical and statistical methods have rapidly become part of a palaeolimnologist's tool kit They are used to explore and summarise complex data reconstruct past environmental variables from fossil assemblages and test competing hypotheses about the causes of observed changes in lake biota through history This book brings together a wide array of numerical and statistical techniques currently available for use in palaeolimnology and other branches of palaeoecology Visit <http://extras.springer.com> the Springer's Extras website to view data sets figures software and R scripts used or mentioned in this book

Practical R for Biologists Donald L.J. Quicke, Buntika A. Butcher, Rachel A. Kruff

Welton,2020-12-21 R is a freely available open source statistical programming environment which provides powerful statistical analysis tools and graphics outputs R is now used by a very wide range of people biologists the primary audience of this book but also all other scientists and engineers economists market researchers and medical professionals R users with expertise are constantly adding new associated packages and the range already available is immense This text works through a set of studies that collectively represent almost all the R operations that biology students need in order to analyse their own data The material is designed to serve students from first year undergraduates through to those beginning post graduate levels Chapters are organized around topics such as graphing classical statistical tests statistical modelling mapping and text parsing Examples are based on real scientific studies and each one covers the use of more R functions than those simply necessary to get a p value or plot

Math and Bio 2010 Lynn Arthur Steen,2005 Math and bio 2010 grew out of Meeting the Challenges Education across the Biological Mathematical and Computer Sciences a joint project of the Mathematical Association of America MAA the National Science Foundation Division of Undergraduate Education NSF DUE the National Institute of General Medical Sciences NIGMS the American Association for the Advancement of Science AAAS and the American Society for Microbiology ASM Foreword p vi

Statistics by Simulation Carsten F. Dormann,Aaron M. Ellison,2025-06-03 An accessible guide to understanding statistics using simulations with examples from a range of scientific disciplines Real world challenges such as small sample sizes skewed distributions of data biased sampling designs and more predictors than data points are pushing the limits of classical statistical analysis This textbook provides a new tool for the statistical toolkit data simulations It shows that using simulation and data generating models is an excellent way to validate statistical reasoning and to augment study design and statistical analysis with planning and visualization Although data simulations are not new to professional statisticians Statistics by Simulation makes the approach accessible to a broader audience with examples from many fields It introduces the reasoning behind data simulation and then shows how to apply it in planning experiments or observational studies developing analytical workflows deploying model diagnostics and developing new indices and statistical methods Covers all steps of statistical practice from planning projects to post hoc analysis and model checking Provides examples from disciplines including sociology psychology ecology economics physics and medicine Includes R code for all examples with data and code freely available online Offers bullet point outlines and summaries of each chapter Minimizes the use of jargon and requires only basic statistical background and skills

Biological Sampling in the Deep Sea Malcolm R. Clark,Mireille Consalvey,Ashley A. Rowden,2016-04-18 The deep sea covers over 60% of the surface of the earth yet less than 1% has been scientifically investigated There is growing pressure on deep sea resources and on researchers to deliver information on biodiversity and the effects of human impacts on deep sea ecosystems Although scientific knowledge has increased rapidly in recent decades there exist large gaps in global sampling coverage of the deep sea and major efforts continue to be directed into offshore research Biological Sampling in the Deep

Sea represents the first comprehensive compilation of deep sea sampling methodologies for a range of habitats. It reviews the real life applications of current and in some instances developing deep sea sampling tools and techniques. In creating this book the authors have been able to draw upon the experiences of those at the coal face of deep sea sampling expanding on the existing methodological texts whilst encompassing a level of technical detail often omitted from journal publications. Ultimately the book will promote international consistency in sampling approaches and data collection, advance the integration of information into global databases and facilitate improved data analyses and consequently uptake of science results for the management and conservation of the deep sea environment. The book will appeal to a range of readers including students early career through to seasoned researchers as well as environmental managers and policy makers wishing to understand how the deep sea is sampled, the challenges associated with deep survey work and the type of information that can be obtained.

Studyguide for a Primer of Ecological Statistics by Gotelli, Nicholas J. , Isbn

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Ecology of North American Freshwater Fishes Stephen T. Ross, 2013-06-01. The North American freshwater fish fauna is the most diverse and thoroughly researched temperate fish fauna in the world. Ecology of North American Freshwater Fishes is the only textbook to provide advanced undergraduate and graduate students and researchers with an up to date and integrated view of the ecological and evolutionary concepts, principles, and processes involved in the formation and maintenance of this fauna. Ecology of North American Freshwater Fishes provides readers with a broad understanding of why specific species and assemblages occur in particular places. Additionally, the text explores how individuals and species interact with each other and with their environments, how such interactions have been altered by anthropogenic impacts, and the relative success of efforts to restore damaged ecosystems. This book is designed for use in courses related to aquatic and fish ecology, fish biology, ichthyology, and related advanced ecology and conservation courses and is divided into five sections for ease of use. Chapter summaries, supplemental reading lists, online sources, extensive figures, and color photography are included to guide readers through the material and facilitate student learning.

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Part 2: Formation, maintenance, and persistence of local populations and assemblages. Focuses on how local fish populations and assemblages are formed and how they persist or not through time.

Part 3: Form and function. Deals with the relationship of body form and life history patterns as they are related to ecological functions.

Part 4: Interactions among individuals and species. Discusses the numerous interactions among individuals and species through communication, competition, predation.

mutualism and facilitation Part 5 Issues in conservation Focuses on several primary conservation issues such as flow alterations and the increasing biotic homogenization of faunas

Foundational and Applied Statistics for Biologists Using R Ken A. Aho, 2016-03-09 Full of biological applications exercises and interactive graphical examples this text presents comprehensive coverage of both modern analytical methods and statistical foundations The author harnesses the inherent properties of the R environment to enable students to examine the code of complicated procedures step by step and thus better understand the process of obtaining analysis results The graphical capabilities of R are used to provide interactive demonstrations of simple to complex statistical concepts R code and other materials are available online

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