

Use R!

Nathan G. Swenson

Functional and Phylogenetic Ecology in R

 Springer

Nathan G Swenson Functional And Phylogenetic Ecology In R

Nathan Jared Boardman Kraft



Nathan G Swenson Functional And Phylogenetic Ecology In R:

Functional and Phylogenetic Ecology in R Nathan G. Swenson, 2014-03-26 Functional and Phylogenetic Ecology in R is designed to teach readers to use R for phylogenetic and functional trait analyses Over the past decade a dizzying array of tools and methods were generated to incorporate phylogenetic and functional information into traditional ecological analyses Increasingly these tools are implemented in R thus greatly expanding their impact Researchers getting started in R can use this volume as a step by step entryway into phylogenetic and functional analyses for ecology in R More advanced users will be able to use this volume as a quick reference to understand particular analyses The volume begins with an introduction to the R environment and handling relevant data in R Chapters then cover phylogenetic and functional metrics of biodiversity null modeling and randomizations for phylogenetic and functional trait analyses integrating phylogenetic and functional trait information and interfacing the R environment with a popular C based program This book presents a unique approach through its focus on ecological analyses and not macroevolutionary analyses The author provides his own code so that the reader is guided through the computational steps to calculate the desired metrics This guided approach simplifies the work of determining which package to use for any given analysis Example datasets are shared to help readers practice and readers can then quickly turn to their own datasets

Phylogenetic Ecology Nathan G. Swenson, 2019-11-22 Over the past decade ecologists have increasingly embraced phylogenetics the study of evolutionary relationships among species As a result they have come to discover the field's power to illuminate present ecological patterns and processes Ecologists are now investigating whether phylogenetic diversity is a better measure of ecosystem health than more traditional metrics like species diversity whether it can predict the future structure and function of communities and ecosystems and whether conservationists might prioritize it when formulating conservation plans In Phylogenetic Ecology Nathan G Swenson synthesizes this nascent field's major conceptual methodological and empirical developments to provide students and practicing ecologists with a foundational overview Along the way he highlights those realms of phylogenetic ecology that will likely increase in relevance such as the burgeoning subfield of phylogenomics and shows how ecologists might lean on these new perspectives to inform their research programs

Plant Functional Traits Manoj Kumar, Rainer W Bussmann, Nathan G Swenson, 2025-02-15 Plant Function Traits Linking Climate and Ecosystem Functioning part of the Plant Biology Sustainability and Climate Change series presents a wholistic understanding of Plant Functional Traits As global climate change advances natural resources are facing increasing survival challenges hence this book directly addresses that need exploring the morphological physiological and phenological properties of a plant that can be used as a proxy to understand plant environment interactions Users will find great illustrations throughout individual chapters along with case studies that demonstrate applications of functional traits in classifying vegetation of a region into distinct type groups as Plant Functional Types PFTs Additional information includes applications in the development of new generation of Dynamic Global Vegetation

Model DGVM and an understanding of the response of vegetation to changing environments Presents foundational insights into multiple functional trait axes Describes the quantification of functional traits from individuals to regions Includes the role of functional traits in developing new vegetation models for assessing the impact of climate change on plants

Handbook of Environmental and Ecological Statistics Alan E. Gelfand,Montserrat Fuentes,Jennifer A. Hoeting,Richard Lyttleton Smith,2019-01-15 This handbook focuses on the enormous literature applying statistical methodology and modelling to environmental and ecological processes The 21st century statistics community has become increasingly interdisciplinary bringing a large collection of modern tools to all areas of application in environmental processes In addition the environmental community has substantially increased its scope of data collection including observational data satellite derived data and computer model output The resultant impact in this latter community has been substantial no longer are simple regression and analysis of variance methods adequate The contribution of this handbook is to assemble a state of the art view of this interface Features An internationally regarded editorial team A distinguished collection of contributors A thoroughly contemporary treatment of a substantial interdisciplinary interface Written to engage both statisticians as well as quantitative environmental researchers 34 chapters covering methodology ecological processes environmental exposure and statistical methods in climate science

Oilfield Microbiology Torben Lund Skovhus,Corinne Whitby,2019-03-29 Microorganisms can be both beneficial and harmful to the oil and gas industry and therefore there is an increasing need for the oil industry to characterize quantify and monitor microbial communities in real time Oilfield Microbiology offers a fundamental insight into how molecular microbiological methods have enabled researchers in the field to analyze and quantify in situ microbial communities and their activities in response to changing environmental conditions Such information is fundamental to the oil industry to employ more directed cost effective strategies to prevent the major problems associated with deleterious microbial activities e g souring and biocorrosion as well as to encourage beneficial microbe activity e g oil bioremediation The aim of the book is to understand how the technological advances in molecular microbiological methods over the last two decades are now being utilized by the oil industry to address the key issues faced by the sector This book contains a comprehensive collection of chapters written by invited experts in the field from academia and industry and provides a solid foundation of the importance of microbes to the oil and gas industry It is aimed at microbial ecologists molecular biologists operators engineers chemists and academics involved in the sector

Functional Trait and Phylogenetic-based Tests of Community Assembly in a Neotropical Forest Nathan Jared Boardman Kraft,2008

Plant Secondary Compounds in Forest Ecosystems Under Global Change: From Defense to Carbon Sequestration Bartosz Adamczyk,Judy Simon,2019-10-10 *Biogeography and Evolution in New Zealand* Michael Heads,2016-10-04 Biogeography and Evolution in New Zealand provides the first in depth treatment of the biogeography of New Zealand a region that has been a place of long enduring interest to ecologists evolutionary scientists geographers geologists and scientists in related

disciplines It serves as a key addition to the contemporary discussion on regionalization how is New Zealand different from the rest of the world With what other areas does it share its geology history and biota Do new molecular phylogenies show that New Zealand may be seen as a biological parallel universe within global evolution *Handbook of the Birds of the World: New world vultures to guineafowl* Josep del Hoyo, Andrew Elliott, Jordi Sargatal, 1992 New World Vultures to Guineafowl Pr logo sobre la organizaci n de la informaci n en el Handbook M s de 7000 referencias bibliogr ficas **The Influence of Phylogenetic and Functional Similarity on Species Coexistence Through Space and Time**, 2008 The problem of species diversity and co existence in hyper diverse communities remains Traditionally ecologists have approached this problem from examining patterns of co occurrence interaction matrices and abundance distributions This work while productive generally has rarely explored the role of shared ancestry and species specific quantitative function in promoting species diversity and co existence This has been a critical oversight as simply analyzing the list of Latin binomials in an assemblage ignores the relatedness between taxa as well as the diversity in organismal form and function the very information relevant to evolutionary ecological and historical hypotheses about the distribution of diversity and community assembly The following research is designed to investigate the role of phylogenetic and functional similarity on species diversity and co existence through space and time in diverse tropical tree communities Specifically I investigate i the role of phylogenetic relatedness in determining community structure from very local to large regional spatial scales ii the role of phylogeny in determining the structure of tree communities at different strategraphic levels in the canopy iii the power of recently developed phylogenetic analyses to detect non random patterns of co existence in communities when the phylogenetic tree used is not completely resolved iv the role of functional similarity in promoting co existence in a Neotropical dry forest through space and across body sizes v whether decadal long trends in forest composition can be explained on the basis of species specific function and vi variability in a key functional trait across New World forest communities and along the Angiosperm phylogeny Phylogeny, Ecology, and Behavior Daniel R. Brooks, Deborah A. McLennan, 1991 The merits of this work are many A rigorous integration of phylogenetic hypotheses into studies of adaptation adaptive radiation and coevolution is absolutely necessary and can change dramatically our collective gestalt about much in evolutionary biology The authors advance and illustrate this thesis beautifully The writing is often lucid the examples are plentiful and diverse and the juxtaposition of examples from different biological systems argues forcefully for the validity of the thesis Many new insights are offered here and the work is usually accessible to both the practiced phylogeneticist and the naive ecologist Joseph Travis Florida State University *Phylogeny Ecology and Behavior* presents its arguments forcefully and cogently with ample support Brooks and McLennan conclude as they began with the comment that evolution is a result not a process and that it is the result of an interaction of a variety of processes environmental and historical Evolutionary explanations must consider all these components else they are incomplete As Darwin s explanations of

descent with modification integrated genealogical and ecological information so must workers now incorporate historical and nonhistorical and biological and nonbiological processes in their evolutionary perspective Marvalee H Wake Bioscience This book is well written and thought provoking and should be read by those of us who do not routinely turn to phylogenetic analysis when investigating adaptation evolutionary ecology and co evolution Mark R MacNair Journal of Natural History

Handbook of Trait-Based Ecology Francesco de Bello, Carlos P. Carmona, André T. C. Dias, Lars Götzenberger, Marco Moretti, Matty P. Berg, 2021-03-11 Functional ecology is the branch of ecology that focuses on various functions that species play in the community or ecosystem in which they occur This accessible guide offers the main concepts and tools in trait based ecology and their tricks covering different trophic levels and organism types It is designed for students researchers and practitioners who wish to get a handy synthesis of existing concepts tools and trends in trait based ecology and wish to apply it to their own field of interest Where relevant exercises specifically designed to be run in R are included along with accompanying on line resources including solutions for exercises and R functions and updates reflecting current developments in this fast changing field Based on more than a decade of teaching experience the authors developed and improved the way theoretical aspects and analytical tools of trait based ecology are introduced and explained to readers

Phylogenies in Ecology Marc W. Cadotte, T. Jonathan Davies, 2016-08-09 Phylogenies in Ecology is the first book to critically review the application of phylogenetic methods in ecology and it serves as a primer to working ecologists and students of ecology wishing to understand these methods This book demonstrates how phylogenetic information is transforming ecology by offering fresh ways to estimate the similarities and differences among species and by providing deeper evolutionary based insights on species distributions coexistence and niche partitioning Marc Cadotte and Jonathan Davies examine this emerging area s explosive growth allowing for this new body of hypotheses testing Cadotte and Davies systematically look at all the main areas of current ecophylogenetic methodology testing and inference Each chapter of their book covers a unique topic emphasizes key assumptions and introduces the appropriate statistical methods and null models required for testing phylogenetically informed hypotheses The applications presented throughout are supported and connected by examples relying on real world data that have been analyzed using the open source programming language R Showing how phylogenetic methods are shedding light on fundamental ecological questions related to species coexistence conservation and global change Phylogenies in Ecology will interest anyone who thinks that evolution might be important in their data

Phylogenetics and Ecology Paul Eggleton, Richard I. Vane-Wright, Linnean Society of London, 1994-11-10 The relationship between systematics and ecology has recently been invigorated and developed a long way from the old field of comparative biology This change has been two fold Advances in phylogenetic research have allowed explicit phylogenetic hypotheses to be constructed for a range of different groups of organisms and ecologists are now more aware that organism traits are influenced by the interaction of past and present This volume discusses the impact of these modern phylogenetic

methods on ecology especially those using comparative methods Although unification of these areas has proved difficult a number of conclusions can be drawn from the text These include the need for a working bridge between evolutionary biologists using logic based cladistic methods and those using probability based statistical methods for care in the selection of tree types for comparative studies and for systematists to attempt to analyse ecologically important groups Comparative ecologists and systematists need to come together to develop these ideas further but this volume presents a very useful starting point for all those interested in systematics and ecology

Analysis of Phylogenetics and Evolution with R
Emmanuel Paradis, 2011-11-06 The increasing availability of molecular and genetic databases coupled with the growing power of computers gives biologists opportunities to address new issues such as the patterns of molecular evolution and re assess old ones such as the role of adaptation in species diversification In the second edition the book continues to integrate a wide variety of data analysis methods into a single and flexible interface the R language This open source language is available for a wide range of computer systems and has been adopted as a computational environment by many authors of statistical software Adopting R as a main tool for phylogenetic analyses will ease the workflow in biologists data analyses ensure greater scientific repeatability and enhance the exchange of ideas and methodological developments The second edition is completed updated covering the full gamut of R packages for this area that have been introduced to the market since its previous publication five years ago There is also a new chapter on the simulation of evolutionary data Graduate students and researchers in evolutionary biology can use this book as a reference for data analyses whereas researchers in bioinformatics interested in evolutionary analyses will learn how to implement these methods in R The book starts with a presentation of different R packages and gives a short introduction to R for phylogeneticists unfamiliar with this language The basic phylogenetic topics are covered manipulation of phylogenetic data phylogeny estimation tree drawing phylogenetic comparative methods and estimation of ancestral characters The chapter on tree drawing uses R's powerful graphical environment A section deals with the analysis of diversification with phylogenies one of the author's favorite research topics The last chapter is devoted to the development of phylogenetic methods with R and interfaces with other languages C and C++ Some exercises conclude these chapters

Phylogenetic Comparative Methods in R Liam J. Revell, Luke J. Harmon, 2022-07-12 An authoritative introduction to the latest comparative methods in evolutionary biology Phylogenetic comparative methods are a suite of statistical approaches that enable biologists to analyze and better understand the evolutionary tree of life and shed vital new light on patterns of divergence and common ancestry among all species on Earth This textbook shows how to carry out phylogenetic comparative analyses in the R statistical computing environment Liam Revell and Luke Harmon provide an incisive conceptual overview of each method along with worked examples using real data and challenge problems that encourage students to learn by doing By working through this book students will gain a solid foundation in these methods and develop the skills they need to interpret patterns in the tree of life Covers every major

method of modern phylogenetic comparative analysis in R Explains the basics of R and discusses topics such as trait evolution diversification trait dependent diversification biogeography and visualization Features a wealth of exercises and challenge problems Serves as an invaluable resource for students and researchers with applications in ecology evolution anthropology disease transmission conservation biology and a host of other areas Written by two of today's leading developers of phylogenetic comparative methods

Numerical Ecology with R Daniel Borcard, François Gillet, Pierre Legendre, 2018-04-03 This new edition of Numerical Ecology with R guides readers through an applied exploration of the major methods of multivariate data analysis as seen through the eyes of three ecologists It provides a bridge between a textbook of numerical ecology and the implementation of this discipline in the R language The book begins by examining some exploratory approaches It proceeds logically with the construction of the key building blocks of most methods i.e. association measures and matrices and then submits example data to three families of approaches clustering ordination and canonical ordination The last two chapters make use of these methods to explore important and contemporary issues in ecology the analysis of spatial structures and of community diversity The aims of methods thus range from descriptive to explanatory and predictive and encompass a wide variety of approaches that should provide readers with an extensive toolbox that can address a wide palette of questions arising in contemporary multivariate ecological analysis The second edition of this book features a complete revision to the R code and offers improved procedures and more diverse applications of the major methods It also highlights important changes in the methods and expands upon topics such as multiple correspondence analysis principal response curves and co correspondence analysis New features include the study of relationships between species traits and the environment and community diversity analysis This book is aimed at professional researchers practitioners graduate students and teachers in ecology environmental science and engineering and in related fields such as oceanography molecular ecology agriculture and soil science who already have a background in general and multivariate statistics and wish to apply this knowledge to their data using the R language as well as people willing to accompany their disciplinary learning with practical applications People from other fields e.g. geology geography paleoecology phylogenetics anthropology the social and education sciences etc may also benefit from the materials presented in this book Users are invited to use this book as a teaching companion at the computer All the necessary data files the scripts used in the chapters as well as extra R functions and packages written by the authors of the book are available online URL <http://adn.biol.umontreal.ca/numerica/ecology/numecolR/>

Effect of Population Sources and Species Pools on Community Phylogenetic and Functional Diversity During Restoration Mohammed Ibrahim Khalil, 2017 Phylogenetic and functional perspectives of community assembly can reveal new insights into how variation within dominant species interact with the local species pool to influence the structure of restored plant communities Many studies have examined the effect of dominant species and species pools in structuring plant communities but few have investigated their effects on

phylogenetic and functional diversity This research seeks to determine the effect of intraspecific genetic variation population sources and species pools on evolutionary relatedness of coexisting species and ecosystem functioning such as productivity The first study examined the importance of incorporating phylogenetic approach into restoration ecology to tease out the effect of population sources and species pools on community phylogenetic diversity Chapter 2 This study was first study to show consequences of using different seed sources on phylogenetic diversity PD in grassland restoration It showed that population sources had a transitory effect on community phylogenetic structure over time Local ecotypes decreased the abundance of closely related eudicots monocots and volunteer species more than cultivars However population sources did not affect ecologically conservative species i e species with intermediate to poor ecological tolerance and a high degree of fidelity to prairie habitats Thus cultivars might have a positive effect on community phylogenetic diversity more than local ecotypes by decreasing the abundance of a phylogenetically diverse community of less closely related volunteer species Differences in PD of seed mixes were maintained in the community of high fidelity species but did not affect PD of the unsown volunteer species in the assembling community The second experiment showed the importance of functional diversity rather than phylogenetic diversity in monitoring population source and species pool effects as biotic filters in grassland restoration Chapter 3 In this experiment the establishing communities as well as the eudicots Asteraceae and volunteers established with local ecotypes were functionally more diverse than when established with cultivars By contrast the exotic species established with cultivars were functionally more similar than when established with local ecotypes Thus local ecotypes might have a positive effect on community FD and species coexistence more so than cultivars In addition population sources had more contingent effects i e interaction effects of population sources with species pools when quantified as FD in eudicots Asteraceae and volunteers than when measured as PD Supplemental seeding of a functionally dissimilar species pool after four years led to an increase in FD among coexisting species Population sources and species pools had more effects on continuous functional traits than on categorical traits A weak phylogenetic signal in the functional traits and lack of relationship between FD and PD indicates that measuring PD alone without inclusion of functional traits may not adequately address factors affecting species coexistence The third study investigates the effect of intraspecific trait variation in dominant species of cultivars and local ecotypes on intraspecific trait variability in subordinate species Chapter 4 This experiment showed that cultivar sources of dominant species as well as some of the subordinate species established with them had higher functional trait values especially leaf area and leaf nitrogen content in comparison to when established with local ecotype sources of the dominant species In addition the functional relatedness among subordinate species established with local ecotypes was less more functionally dissimilar than among subordinate species established with cultivars This study showed the importance of considering the phenotypic response of subordinate species to intraspecific trait variability of dominant species and species coexistence in community ecology In addition using local ecotype could

increase form functional and phylogenetic diversity of restored communities more than cultivars Thus monitoring functional and phylogenetic diversity are useful tools in restoration ecology to understand the effect of biotic filters on community composition

Nathan G Swenson Functional And Phylogenetic Ecology In R Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Nathan G Swenson Functional And Phylogenetic Ecology In R**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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