Handbook of Meta-analysis in Ecology and Evolution



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Handbook Of Meta Analysis In Ecology And Evolution:

Handbook of Meta-analysis in Ecology and Evolution Julia Koricheva, Jessica Gurevitch, Kerrie Mengersen, 2013-04-21 Meta analysis is a powerful statistical methodology for synthesizing research evidence across independent studies This is the first comprehensive handbook of meta analysis written specifically for ecologists and evolutionary biologists and it provides an invaluable introduction for beginners as well as an up to date guide for experienced meta analysts. The chapters written by renowned experts walk readers through every step of meta analysis from problem formulation to the presentation of the results The handbook identifies both the advantages of using meta analysis for research synthesis and the potential pitfalls and limitations of meta analysis including when it should not be used Different approaches to carrying out a meta analysis are described and include moment and least square maximum likelihood and Bayesian approaches all illustrated using worked examples based on real biological datasets This one of a kind resource is uniquely tailored to the biological sciences and will provide an invaluable text for practitioners from graduate students and senior scientists to policymakers in conservation and environmental management Walks you through every step of carrying out a meta analysis in ecology and evolutionary biology from problem formulation to result presentation Brings together experts from a broad range of fields Shows how to avoid minimize or resolve pitfalls such as missing data publication bias varying data quality nonindependence of observations and phylogenetic dependencies among species Helps you choose the right software Draws on numerous examples based on real biological datasets Handbook of Meta-analysis in Ecology and Evolution Julia Koricheva, Jessica Gurevitch, Kerrie Mengersen, 2013-04-21 Meta analysis is a powerful statistical methodology for synthesizing research evidence across independent studies This is the first comprehensive handbook of meta analysis written specifically for ecologists and evolutionary biologists and it provides an invaluable introduction for beginners as well as an up to date guide for experienced meta analysts The chapters written by renowned experts walk readers through every step of meta analysis from problem formulation to the presentation of the results The handbook identifies both the advantages of using meta analysis for research synthesis and the potential pitfalls and limitations of meta analysis including when it should not be used Different approaches to carrying out a meta analysis are described and include moment and least square maximum likelihood and Bayesian approaches all illustrated using worked examples based on real biological datasets This one of a kind resource is uniquely tailored to the biological sciences and will provide an invaluable text for practitioners from graduate students and senior scientists to policymakers in conservation and environmental management Walks you through every step of carrying out a meta analysis in ecology and evolutionary biology from problem formulation to result presentation Brings together experts from a broad range of fields Shows how to avoid minimize or resolve pitfalls such as missing data publication bias varying data quality nonindependence of observations and phylogenetic dependencies among species Helps you choose the right software Draws on numerous examples based on real biological datasets *Handbook of Meta-Analysis* Christopher H.

Schmid, Theo Stijnen, Ian White, 2020-09-07 Meta analysis is the application of statistics to combine results from multiple studies and draw appropriate inferences Its use and importance have exploded over the last 25 years as the need for a robust evidence base has become clear in many scientific areas including medicine and health social sciences education psychology ecology and economics Recent years have seen an explosion of methods for handling complexities in meta analysis including explained and unexplained heterogeneity between studies publication bias and sparse data At the same time meta analysis has been extended beyond simple two group comparisons of continuous and binary outcomes to comparing and ranking the outcomes from multiple groups to complex observational studies to assessing heterogeneity of effects and to survival and multivariate outcomes Many of these methods are statistically complex and are tailored to specific types of data Key features Rigorous coverage of the full range of current statistical methodology used in meta analysis Comprehensive coherent and unified overview of the statistical foundations behind meta analysis Detailed description of the primary methods for both univariate and multivariate data Computer code to reproduce examples in chapters Thorough review of the literature with thousands of references Applications to specific types of biomedical and social science data Supplementary website with code data sample chapters and errata This book is for a broad audience of graduate students researchers and practitioners interested in the theory and application of statistical methods for meta analysis It is written at the level of graduate courses in statistics but will be of interest to and readable for quantitative scientists from a range of disciplines The book can be used as a graduate level textbook as a general reference for methods or as an introduction to specialized topics using state of the 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 **Plant Roots** Ertan Yildirim, Metin Turan, Melek Ekinci, 2021-10-20 The root is an organ that code in the R language generally grows into the soil in developed plants that have adapted to terrestrial life but rarely is found above the ground The roots have channels to transport nutrients and water to the stem and leaves Studies on roots will provide opportunities to develop food security and environmental sustainability This book explains root soil interactions ethnobotanical use of roots secondary metabolite production and soil resource acquisition from agricultural and ecological perspectives Experimental Network to Meta-analysis David Makowski, François Piraux, François Brun, 2019-05-07 This book has been designed as a methodological guide and shows the interests and limitations of different statistical methods to analyze data from experimental networks and to perform meta analyses It is intended for engineers students and researchers involved in data analysis in agronomy and environmental science The Essential Guide to N-of-1 Trials in Health Jane Nikles, Geoffrey Mitchell, 2015-10-05 N of 1 trials a type of individualized randomized controlled trial are relevant to almost every discipline in medicine and psychology They can tell the clinician with precision whether a treatment works in that individual which distinguishes from the information available from most other trial designs. They have the potential to revolutionize the way clinical medicine is practiced Whether you are a busy clinician a researcher or a student this book provides everything you need to know about N of 1 trials Written and edited by some of the world's leading experts on N of 1 trials the book presents state of the art knowledge about N of 1 trials with chapters on ethics statistics health economics design analysis and reporting and more Full of examples and well illustrated it is a comprehensive compendium of issues surrounding the design conduct interpretation and implementation of N of 1 trials in a health system Transforming Conservation William J. Sutherland, 2022-12-07 There are severe problems with the decision making processes currently widely used leading to ineffective use of evidence faulty decisions wasting of resources and the erosion of public and political support In this book an international team of experts provide solutions The transformation suggested includes rethinking how evidence is assessed combined communicated and used in decision making using effective methods when asking experts to make judgements i e avoiding just asking an expert or a group of experts using a structured process for making decisions that incorporate the evidence and having effective processes for learning from actions In each case the specific problem with decision making is described with a range of practical solutions Adopting this approach to decision making requires societal change so detailed suggestions are made for transforming organisations governments businesses funders and philanthropists The practical suggestions include twelve downloadable checklists The vision of the authors is to transform conservation so it is more effective more cost efficient learns from practice and is more attractive to funders However the lessons of this important book go well beyond conservation to decision makers in any field The BERA-Sage Handbook of Research-Informed Education Practice and Policy Dominic Wyse, Vivienne Baumfield, Nicole Mockler, Martin

Reardon, 2025-06-19 One of the most pressing topics worldwide is how we can improve education to enhance people s life chances The BERA Sage Handbook of Research Informed Education Practice and Policy 2 Vol offers an in depth exploration of the ways in which education research intersects with and can lead to improvements in education Through detailed examinations of educational policies practices values and research methodologies the handbook navigates the complexities inherent in educational systems and in so doing presents a unique new picture of education worldwide Volume One of the Handbook set focuses on Understanding Research Informed Education and Volume Two focuses on how to implement it Across six parts and fifty two chapters the authors and editors explore a myriad of critical topics including using research to promote equity within education systems rethinking pedagogy and knowledge mobilisation through practitioner led inquiry New developments in aspects such as systematic approaches to research synthesis are presented by world leading experts Authors of the chapters draw from many different sources to provide a comprehensive understanding of education including perspectives from the arts humanities natural sciences and social sciences. This understanding combines cutting edge education research and scholarship to provide insights into how education is enacted in countries and institutions through policy and practice Featuring a truly diverse team of scholars to account for global perspectives the BERA Sage Handbook of Research Informed Education Practice and Policy 2 Vol is an invaluable resource for scholars researchers students and practitioners who are interested in the new frontiers in education research policy and practice Volume One Understanding Research Informed Education Part One Defining and Theorising Research Informed Education Part Two Methodological Debates in the Field Part Three International Comparison and Educational Policy Volume Two Implementing Research Informed Education Part Four Effective policy and practice in national contexts Part Five Curriculum pedagogy and assessment Part Six Practitioners and learners as researchers **Methods to Study Litter Decomposition** Felix Bärlocher, Mark O. Gessner, Manuel A.S. Graça, 2020-07-30 The primary objective of this book is to provide students and laboratory instructors at universities and professional ecologists with a broad range of established methods to study plant litter decomposition Detailed protocols for direct use in the field or laboratory are presented in an easy to follow step by step format A short introduction to each protocol reviews the ecological significance and principles of the technique and points to key references Modern Phylogenetic Comparative Methods and Their Application in Evolutionary Biology László Zsolt Garamszegi, 2014-07-29 Phylogenetic comparative approaches are powerful analytical tools for making evolutionary inferences from interspecific data and phylogenies The phylogenetic toolkit available to evolutionary biologists is currently growing at an incredible speed but most methodological papers are published in the specialized statistical literature and many are incomprehensible for the user community This textbook provides an overview of several newly developed phylogenetic comparative methods that allow to investigate a broad array of questions on how phenotypic characters evolve along the branches of phylogeny and how such mechanisms shape complex animal communities and interspecific interactions

The individual chapters were written by the leading experts in the field and using a language that is accessible for practicing evolutionary biologists The authors carefully explain the philosophy behind different methodologies and provide pointers mostly using a dynamically developing online interface on how these methods can be implemented in practice These conceptual and practical materials are essential for expanding the qualification of both students and scientists but also offer a valuable resource for educators Another value of the book are the accompanying online resources available at http www mpcm evolution com where the authors post and permanently update practical materials to help embed methods into New advances in Rehabilitation of Stroke Xiao Lu, Sheng Li, Xiguan Hu, Hua Yuan, Yue Lan, 2024-01-22 Worldwide stroke remains one of the leading causes of death and long term disability with an estimated prevalence of 2 5% The prevalence of people living with the effects of stroke has increased because of the growing aging population As the number of stroke survivors increases so does the demand for function rehabilitation of stroke The goal of conventional rehabilitation is to improve residual function and restore independence but its impact is still limited Novel therapeutic approaches remain urgent and the potential mechanisms underlying these approaches require further exploration Therefore in this Research Topic our goals include 1 to explore novel rehabilitation approaches of stroke in both acute and chronic stages 2 to explore the potential mechanisms underlying novel rehabilitation approaches of stroke 3 to explore different situations and challenges across different countries regarding rehabilitation of stroke 4 to identify ways to further improve the quality of rehabilitation for stroke 5 to identify and remove barriers that limit patients access to appropriate rehabilitation services

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

Literature Reviews Ana Paula Cardoso Ermel, D. P. Lacerda, Maria Isabel W. M. Morandi, Leandro Gauss, 2021-08-30 This book begins by introducing the topic of knowledge in

literature including its scientific foundations Due to the ever increasing number of scientific publications literature reviews are becoming more and more essential to stay updated Literature Reviews describes an innovative system for creating systematic literature reviews through reviewing analyzing and synthesizing scientific and technological literature It then discusses systematic literature reviews content analysis and literature synthesis separately before presenting the methodology to combine them in one process It showcases computational tools to aid in this technique and offers examples of the method in action Finally the book takes a new of future developments in the subject This book is of interest to graduate students as well as researchers and academics helping them to deepen insights and improve skills needed to conduct thorough literature reviews Progress in Ecological Stoichiometry Dedmer B. Van de Waal, James J. Elser, Adam C. Martiny, Robert W. Sterner, James B. Cotner, 2018 Ecological stoichiometry concerns the way that the elemental composition of organisms shapes their ecology It deals with the balance or imbalance of elemental ratios and how that affects organism growth nutrient cycling and the interactions with the biotic and abiotic worlds The elemental composition of organisms is a set of constraints through which all the Earth's biogeochemical cycles must pass All organisms consume nutrients and acquire compounds from the environment proportional to their needs Organismal elemental needs are determined in turn by the energy required to live and grow the physical and chemical constraints of their environment and their requirements for relatively large polymeric biomolecules such as RNA DNA lipids and proteins as well as for structural needs including stems bones shells etc These materials together constitute most of the biomass of living organisms Although there may be little variability in elemental ratios of many of these biomolecules changing the proportions of different biomolecules can have important effects on organismal elemental composition Consequently the variation in elemental composition both within and across organisms can be tremendous which has important implications for Earth's biogeochemical cycles It has been over a decade since the publication of Sterner and Elser's book Ecological Stoichiometry 2002 In the intervening years hundreds of papers on stoichiometric topics ranging from evolution and regulation of nutrient content in organisms to the role of stoichiometry in populations communities ecosystems and global biogeochemical dynamics have been published Here we present a collection of contributions from the broad scientific community to highlight recent insights in the field of Ecological Stoichiometry Oceanography and Marine Biology S. J. Hawkins, A. J. Evans, A.C. Dale, L. B. Firth, D. J. Hughes, I. P. Smith, 2017-11-20 Ever increasing interest in oceanography and marine biology and their relevance to global environmental issues create a demand for authoritative reviews summarizing the results of recent research Oceanography and Marine Biology An Annual Review has catered to this demand since its founding by the late Harold Barnes more than 50 years ago Its objectives are to consider annually the basic areas of marine research returning to them when appropriate in future volumes to deal with subjects of special and topical importance and to add new subjects as they arise The favourable reception and complimentary reviews accorded to all the volumes shows that the series is fulfilling a very real need Volume

55 follows closely the objectives and style of the earlier volumes continuing to regard the marine sciences with all their various aspects as a unity Physical chemical and biological aspects of marine science are dealt with by experts actively engaged in these fields and every chapter is peer reviewed by other experts working actively in the specific areas of interest Chapters 3 4 5 and 6 of this book are freely available as downloadable Open Access PDFs at http www taylorfrancis com under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4 0 license International Handbook of Comparative Psychology Todd M. Freeberg, Amanda R. Ridley, Patrizia d'Ettorre, 2022-08-31 The Routledge International Handbook of Comparative Psychology is an international reference work that offers scientists and students a balanced overview of current research in the field of comparative psychology and animal behavior The book takes an integrative approach to animal behavior with most of the chapters discussing research involving both proximate developmental and mechanistic and ultimate functional and phylogenetic levels of analysis Chapters cover the major ideas of core topics in the field and examine emerging research trends to provide readers deeper understanding of these ideas One of the strengths of this book is its the coverage of core topics in comparative psychology and animal behavior from different and diverse perspectives. The diverse perspectives come from the wide range of focal species studied by chapter authors a range traditionally quite atypical for comparative psychology and from the widespread international representation of the authors and the diversity of departments and research centers at which these authors work in The first part of the Handbook examines historical and foundational principles and theories in the field The second part focuses on individual behavior systems The final part of the book is devoted to a diversity of ideas that extend our understanding of behavior into new directions The Routledge International Handbook of Comparative Psychology is an essential resource for advanced undergraduate and graduate students postdoctoral researchers and established academics as well as others who are interested in comparative psychology and animal behavior The Cambridge Handbook of Personality Psychology Philip J. Corr, Gerald Matthews, 2020-09-03 Research on personality psychology is making important contributions to psychological science and applied psychology This second edition of The Cambridge Handbook of Personality Psychology offers a one stop resource for scientific personality psychology It summarizes cutting edge personality research in all its forms including genetics psychometrics social cognitive psychology and real world expressions with informative and lively chapters that also highlight some areas of controversy The team of renowned international authors led by two esteemed editors ensures a wide range of theoretical perspectives Each research area is discussed in terms of scientific foundations main theories and findings and future directions for research The handbook also features advances in technology such as molecular genetics and functional neuroimaging as well as contemporary statistical approaches An invaluable aid to understanding the central role played by personality in psychology it will appeal to students researchers and practitioners in psychology behavioral neuroscience and the social sciences The Evolution of Personality and Individual Differences

David M. Buss,2011 Capturing a scientific change in thinking about personality and individual differences this volume provides theories and empirical evidence which suggest that personality and individual differences are central to evolved psychological mechanisms and behavioural functioning *The Oxford Handbook of Sexual Conflict in Humans* Todd K. Shackelford,Aaron T. Goetz,2012-01-11 Sexual conflict what happens when the reproductive interests of males and females diverge occurs in all sexually reproducing species including humans This is the first volume to assemble the latest theoretical and empirical work on sexual conflict in humans from the leading scholars in the fields of evolutionary psychology and anthropology

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