

# SIZE, FUNCTION, AND LIFE HISTORY



William A. Calder III

# Size Function And Life History

**Yan Bai**



## **Size Function And Life History:**

**Size, Function, and Life History** William A. Calder, 1996-01-01 Zoologist provides a quantitative baseline for comparative zoology and demonstrates the value of allometric correlations as an analytical tool New Introduction References

**Size, Function, and Life History** William A. Calder, 1984      Size-Structured Populations Bo Ebenman, Lennart Persson, 2012-12-06 At last both ecology and evolution are covered in this study on the dynamics of size structured populations How does natural selection shape growth patterns and life cycles of individuals and hence the size structure of populations This book will stimulate biologists to look into some important and interesting biological problems from a new angle of approach concerning life history evolution intraspecific competition and niche theory structure and dynamics of ecological communities      **Human Body Size and the Laws of Scaling** Thomas T. Samaras, 2007 Several books have been published on scaling in biology and its ramifications in the animal kingdom However none has specifically examined the multifaceted effects of how changes in human height create disproportionately larger changes in weight surface area strength and other physiological parameters Yet the impact of these non linear effects on individual humans as well as our world s environment is enormous Since increasing human body size has widespread ramifications this book presents findings on the human species and its ecological niche its community and how the species interacts with its environment Thus a few chapters provide an ecological overview of how increasing human body size relates to human evolution fitness health survival and the environment This book provides a unique purview of the laws of scaling on human performance health longevity and the environment Numerous examples from various research disciplines are used to illustrate the impact of increasing body size on many aspects of human enterprises including work output athletics and intellectual performance      *Animal Body Size* Felisa A. Smith, S. Kathleen Lyons, 2013-08-09 Galileo wrote that nature cannot produce a horse as large as twenty ordinary horses or a giant ten times taller than an ordinary man unless by miracle or by greatly altering the proportions of his limbs and especially of his bones a statement that wonderfully captures a long standing scientific fascination with body size Why are organisms the size that they are And what determines their optimum size This volume explores animal body size from a macroecological perspective examining species populations and other large groups of animals in order to uncover the patterns and causal mechanisms of body size throughout time and across the globe The chapters represent diverse scientific perspectives and are divided into two sections The first includes chapters on insects snails birds bats and terrestrial mammals and discusses the body size patterns of these various organisms The second examines some of the factors behind and consequences of body size patterns and includes chapters on community assembly body mass distribution life history and the influence of flight on body size      Functions, Data, and Models Sheldon P. Gordon, Florence S. Gordon, 2025-02-24 This is a college algebra level textbook written to provide the kind of mathematical knowledge and experiences that students will need for courses in other fields such as biology chemistry business finance economics and other areas that are heavily

dependent on data either from laboratory experiments or from other studies The focus is on the fundamental mathematical concepts and the realistic problem solving via mathematical modeling rather than the development of algebraic skills that might be needed in calculus Functions Data and Models presents college algebra in a way that differs from almost all college algebra books available today Rather than going over material covered in high school courses the Gordons teach something new Students are given an introduction to data analysis and mathematical modeling presented at a level that students with limited algebraic skills can understand The book contains a rich set of exercises many of which use real data Also included are thought experiments or what if questions that are meant to stretch the student s mathematical thinking

*Body Size in Mammalian Paleobiology* John Douglas Damuth, Bruce J. MacFadden, 1990-11-30 There is a growing interest in the biological implications of body size in animals This parameter is now being used to make inferences and predictions about not only the habits and habitat of a particular species but also as a way to understand patterns and biases in the fossil record This valuable collection of essays presents and evaluates techniques of body mass estimation and reviews current and potential applications of body size estimates in paleobiology Coverage is particularly detailed for carnivores primates and ungulates but information is also presented on marsupials rodents and proboscideans *Body Size in Mammalian Paleobiology* will prove useful to researchers and graduate students in paleontology mammalogy ecology and evolution programmes It is designed to be both a practical handbook for researchers making and using body size estimates and a sourcebook of ideas for applying body size to paleontological problems and directions for future research

**An Introduction to Structured Population Dynamics** J. M. Cushing, 1998-01-01 This monograph introduces the theory of structured population dynamics and its applications focusing on the asymptotic dynamics of deterministic models

**Encyclopedia of Evolutionary Biology**, 2016-04-14 *Encyclopedia of Evolutionary Biology* Four Volume Set is the definitive go to reference in the field of evolutionary biology It provides a fully comprehensive review of the field in an easy to search structure Under the collective leadership of fifteen distinguished section editors it is comprised of articles written by leading experts in the field providing a full review of the current status of each topic The articles are up to date and fully illustrated with in text references that allow readers to easily access primary literature While all entries are authoritative and valuable to those with advanced understanding of evolutionary biology they are also intended to be accessible to both advanced undergraduate and graduate students Broad topics include the history of evolutionary biology population genetics quantitative genetics speciation life history evolution evolution of sex and mating systems evolutionary biogeography evolutionary developmental biology molecular and genome evolution coevolution phylogenetic methods microbial evolution diversification of plants and fungi diversification of animals and applied evolution Presents fully comprehensive content allowing easy access to fundamental information and links to primary research Contains concise articles by leading experts in the field that ensures current coverage of each topic Provides ancillary learning tools like tables illustrations and multimedia features to assist with the

comprehension process      *Macroecology: Concepts and Consequences* British Ecological Society. Symposium, 2003-08  
Macroecology Concepts and Consequences brings together for the first time major researchers in the field to present overviews of current thinking about the form and determinants of macroecological patterns Each section presents different viewpoints on the answer to a key question in macroecology such as why are most species rare why are most species small bodied and why are most species restricted in their distribution      Introduction to Population Ecology Larry L.

Rockwood, 2015-04-07 Introduction to Population Ecology 2nd Edition is a comprehensive textbook covering all aspects of population ecology It uses a wide variety of field and laboratory examples botanical to zoological from the tropics to the tundra to illustrate the fundamental laws of population ecology Controversies in population ecology are brought fully up to date in this edition with many brand new and revised examples and data Each chapter provides an overview of how population theory has developed followed by descriptions of laboratory and field studies that have been inspired by the theory Topics explored include single species population growth and self limitation life histories metapopulations and a wide range of interspecific interactions including competition mutualism parasite host predator prey and plant herbivore An additional final chapter new for the second edition considers multi trophic and other complex interactions among species Throughout the book the mathematics involved is explained with a step by step approach and graphs and other visual aids are used to present a clear illustration of how the models work Such features make this an accessible introduction to population ecology essential reading for undergraduate and graduate students taking courses in population ecology applied ecology conservation ecology and conservation biology including those with little mathematical experience      **Handbook of Paleoanthropology** Winfried Henke, Ian Tattersall, 2007-05-10 This 3 volume handbook brings together contributions by the world's leading specialists that reflect the broad spectrum of modern palaeoanthropology thus presenting an indispensable resource for professionals and students alike Vol 1 reviews principles methods and approaches recounting recent advances and state of the art knowledge in phylogenetic analysis palaeoecology and evolutionary theory and philosophy Vol 2 examines primate origins evolution behaviour and adaptive variety emphasizing integration of fossil data with contemporary knowledge of the behaviour and ecology of living primates in natural environments Vol 3 deals with fossil and molecular evidence for the evolution of Homo sapiens and its fossil relatives      **Encyclopedia of Theoretical Ecology** Alan Hastings, Louis J.

Gross, 2012-05-31 A bold and successful attempt to illustrate the theoretical foundations of all of the subdisciplines of ecology including basic and applied and extending through biophysical population community and ecosystem ecology Encyclopedia of Theoretical Ecology is a compendium of clear and concise essays by the intellectual leaders across this vast breadth of knowledge Harold Mooney Stanford University A remarkable and indispensable reference work that also is flexible enough to provide essential readings for a wide variety of courses A masterful collection of authoritative papers that convey the rich and fundamental nature of modern theoretical ecology Simon A Levin Princeton University Theoretical ecologists exercise

their imaginations to make sense of the astounding complexity of both real and possible ecosystems. Imagining a real or possible topic left out of the Encyclopedia of Theoretical Ecology has proven just as challenging. This comprehensive compendium demonstrates that theoretical ecology has become a mature science and the volume will serve as the foundation for future creativity in this area. Fred Adler, University of Utah. The editors have assembled an outstanding group of contributors who are a great match for their topics. Sometimes the author is a key authoritative figure in a field and at other times the author has enough distance to convey all sides of a subject. The next time you need to introduce ecology students to a theoretical topic you'll be glad to have this encyclopedia on your bookshelf. Stephen Ellner, Cornell University. Everything you wanted to know about theoretical ecology and much that you didn't know you needed to know but will now. Alan Hastings and Louis Gross have done us a great service by bringing together in very accessible form a huge amount of information about a broad, complicated and expanding field. Daniel Simberloff, University of Tennessee Knoxville.

Foundations of Macroecology Felisa A. Smith, John L. Gittleman, James H. Brown, 2014-08-22. Macroecology is an approach to science that emphasizes the description and explanation of patterns and processes at large spatial and temporal scales. Some scientists liken it to seeing the forest through the trees, giving the proverbial phrase an ecological twist. The term itself was first introduced to the modern literature by James H. Brown and Brian A. Maurer in a 1989 paper and it is Brown's classic 1995 study Macroecology that is credited with inspiring the broad scale subfield of ecology. But as with all subfields, many modern day elements of macroecology are implicit in earlier works dating back decades, even centuries. Foundations of Macroecology charts the evolutionary trajectory of these concepts from the species area relationship and the latitudinal gradient of species richness to the relationship between body size and metabolic rate through forty six landmark papers originally published between 1920 and 1998. Divided into two parts, Macroecology before Macroecology and Dimensions of Macroecology, the collection also takes the long view with each paper accompanied by an original commentary from a contemporary expert in the field that places it in a broader context and explains its foundational role. Providing a solid, coherent assessment of the history, current state and potential future of the field, Foundations of Macroecology will be an essential text for students and teachers of ecology alike.

The Universe Within Neil Shubin, 2013-01-08. In The Universe Within, Neil Shubin, one of the world's leading experts, reveals to us the extraordinary cosmic and evolutionary adventure of our own bodies. During the past 13.7 billion years or so since the Big Bang, our universe has evolved: stars have formed and died and our planet congealed from the matter in space. For aeons, the earth has circled the sun while mountains, seas and entire continents have come and gone. Against this epic backdrop, humanity's place in the cosmos can look tiny and insignificant. But as Neil Shubin shows in this revelatory new book, the one place where universe, solar system and planet merge is inside your body. Shubin shows how the origin of the Moon is tied to our internal body clocks, how the vast amounts of water on Earth and inside all living creatures crossed the deepest stretches of space to us, how strange fluctuations in the orbits within our solar system have led

to our irregular ice ages and how tiny imbalances in the chaos immediately after the Big Bang can explain why matter exists at all Delving below the earth's surface and into the frozen Arctic exploring the smallest atomic structures and the vast reaches of space Neil Shubin uncovers a sublimely beautiful almost magical truth that in every one of us lies the most profound story of all how we and our world came to be Shubin is not only a distinguished scientist but a wonderfully lucid and elegant writer he is an irrepressibly enthusiastic teacher a science writer of the first rank Oliver Sacks Neil Shubin is a palaeontologist in the great tradition of his mentors Ernst Mayr and Stephen Jay Gould He has discovered fossils around the world that have changed the way we think about many of the key transitions in evolution and has pioneered a new synthesis of expeditionary palaeontology developmental genetics and genomics He trained at Columbia Harvard and Berkeley and is currently a Professor in the Department of Organismal Biology and Anatomy at the University of Chicago His previous book is *Your Inner Fish* The amazing discovery of our 375 million year old ancestor *The Evolution of Hominin Diets* Jean-Jacques Hublin, Michael P. Richards, 2009-05-15 Michael P Richards and Jean Jacques Hublin The study of hominin diets and especially how they have primates modern humans 2 faunal and plant studies 3 evolved throughout time has long been a core research archaeology and paleoanthropology and 4 isotopic studies area in archaeology and paleoanthropology but it is also This volume therefore presents research articles by most of becoming an important research area in other fields such as these participants that are mainly based on their presentations primatology nutrition science and evolutionary medicine at the symposium As can hopefully be seen in the volume Although this is a fundamental research topic much of the these papers provide important reviews of the current research research continues to be undertaken by specialists and there in these areas as well as often present new research on dietary is with some notable exceptions e.g Stanford and Bunn evolution 2001 Ungar and Teaford 2002 Ungar 2007 relatively lit In the section on modern studies Hohmann provides a tle interaction with other researchers in other fields This is review of the diets of non human primates including an unfortunate as recently it has appeared that different lines interesting discussion of the role of food sharing amongst of evidence are causing similar conclusions about the major these primates Snodgrass Leonard and Roberston provide issues of hominid dietary evolution i.e **Encyclopedia of Ecology and Environmental Management** ,2009-07-15 The Encyclopedia of Ecology and Environmental Management addresses the core definitions and issues in pure and applied ecology It is neither a short entry dictionary nor a long entry encyclopedia but lies somewhere in between The mixture of short entry definitions and long entry essays gives a comprehensive and up to date alphabetical guide to over 3000 topics and allows any subject to be accessed to varying levels of detail while the longer entries provide general reviews of subjects the short definitions provide specific details on more specialised areas An important feature of the Encyclopedia which sets it apart from other similar works is the comprehensive cross referencing The most comprehensive and up to date reference work in pure and applied ecology Definitions cover the entire spectrum of pure and applied ecological research Distinguished editorial board Dr Peter

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**Growing Up Human** Brenna Hassett, 2022-06-30 Brings the science of biological anthropology to bear on understanding how our evolutionary history has shaped a phenomenon everyone has experienced childhood Tracking deep into our evolutionary history anthropological science has begun to unravel one particular feature that sets us apart from the many many animals that came before us our uniquely long childhoods Growing Up Human looks at how we have diverged from our ancestral roots to stay forever young or at least what seems like forever and how the evolution of childhood is a critical part of the human story Beginning with a look at the ways animals invest in their offspring the book moves through the many steps of making a baby from pair bonding to hidden ovulation points where our species has repeatedly stepped off the standard primate path From the mystery of monogamy to the minefield of modern parenting advice biological anthropologist Brenna Hassett reveals how differences between humans and our closest cousins lead to our messy mating systems dangerous pregnancies and difficult births and what these tell us about the kind of babies we are trying to build Using observations of our closest primate relatives the tiny relics of childhood that come to us from the archaeological record and the bones and teeth of our ancestors science has started to unravel the evolution of our childhood right down the fossil record In our species investment doesn't stop at birth and as Growing Up Human reveals we can compare every aspect of our care and feeding from the chemical composition of our milk to our fondness for formal education from ancient times onwards in order to understand just what we evolved our weird and wonderful childhoods for

**Unifying Ecology Across Scales: Progress, Challenges and Opportunities** Mary I. O'Connor, Diego Barneche, Julie Messier, Angelica L. Gonzalez, 2020-12-29 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office [frontiersin.org](mailto:frontiersin.org) about contact

**Scaling in Biology** James H. Brown, Geoffrey B. West, 2000 Scaling relationships have been a persistent theme in biology at least since the time of Leonardo da Vinci and Galileo Because scaling relationships are among the most general empirical patterns in biology they have stimulated research to develop mechanistic hypotheses and mathematical models While there have been many excellent empirical and theoretical investigations there has been little attempt to synthesize this diverse but interrelated area of biology In an effort to fill this void Scaling in Biology the first general treatment of scaling in biology in



over 15 years covers a broad spectrum of the most relevant topics in a series of chapters written by experts in the field. Some of those topics discussed include allometry and fractal structure, branching of vascular systems of mammals and plants, biomechanical and life history of plants, invertebrates and vertebrates, and species area patterns of biological diversity. Many more examples are included within this text to complete the broader picture. *Scaling in Biology* conveys the diversity, promise and excitement of current research in this area in a format accessible to a wide audience of not only specialists in the various sub disciplines but also students and anyone with a serious interest in biology.

## Reviewing **Size Function And Life History**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Size Function And Life History**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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### Size Function And Life History Introduction

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