

# EVOLUTIONARY BEHAVIORAL ECOLOGY

EDITED BY

David F. Westneat | Charles W. Fox



# Evolutionary Behavioral Ecology

**J. Emmett Duffy, Martin Thiel**



## **Evolutionary Behavioral Ecology:**

**Evolutionary Behavioral Ecology** David Westneat, Charles W. Fox, 2010-04 Evolutionary Behavioral Ecology presents a comprehensive treatment of the evolutionary and ecological processes shaping behavior across a wide array of organisms and a diverse set of behaviors and is suitable as a graduate level text and as a sourcebook for professional scientists

Behavioural Ecology John R. Krebs, Nicholas B. Davies, 2009-07-17 Intended for graduate and upper level undergraduate courses in behavioural ecology where students are already familiar with the basic ideas this book continues to define the subject. A completely new set of contributions has been brought together once more to take account of the many exciting new developments in the field. Each chapter presents a balanced view of the subject integrating a clear exposition of the theory with a critical discussion of how predictions have been tested by experiments and comparative studies. In addition the book points to unreconciled issues and possible future developments. Edited by two of the most highly regarded experts in the field this new volume contains contributions from an international authorship and continues the tradition of clarity and accessibility established by the three previous editions. The latest edition of a classic in behavioural ecology. Divided into three sections: Mechanisms and Individual Behaviour, From Individual Behaviour to Social Systems and Life Histories, Phylogenies and Populations. Contributions from the world's leading researchers. *An Introduction to Behavioural Ecology* Nicholas B.

Davies, John R. Krebs, Stuart A. West, 2012-04-02 This textbook helped to define the field of Behavioural Ecology. In this fourth edition the text has been completely revised with new chapters and many new illustrations and full colour photographs. The theme once again is the influence of natural selection on behaviour: an animal's struggle to survive and reproduce by exploiting and competing for resources, avoiding predators, selecting mates and caring for offspring, and how animal societies reflect both cooperation and conflict among individuals. Stuart A. West has joined as a co-author bringing his own perspectives and work on microbial systems into the book. Written in the same engaging and lucid style as the previous editions the authors explain the latest theoretical ideas using examples from micro organisms, invertebrates and vertebrates. There are boxed sections for some topics and marginal notes help guide the reader. The book is essential reading for students of behavioural ecology, animal behaviour and evolutionary biology. **Key Features** Long awaited new edition of a field defining textbook. New chapters, illustrations and colour photographs. New co-author. Focuses on the influence of natural selection on behavior and how animal societies reflect both cooperation and conflict among individuals. The long awaited update to a classic in this field is now here presenting new directions in thinking and addressing burning questions. Richly informed by progress in many other disciplines such as sensory physiology, genetics and evolutionary theory it marks the emergence of behavioural ecology as a fully fledged discipline. This is a marvellous book written in a lucid style. A must read for those in the field. It is also a cornucopia of new thinking for anyone interested in evolution and behaviour. Manfred Milinski Nature 2012

**Evolutionary Ecology and Human Behavior** Eric Alden Smith, 2017-09-29 required reading for anyone interested in

the economy ecology and demography of human societies American Journal of Human Biology This excellent book can serve both as a text book and as a scholarly reference American Scientist

**Evolutionary Behavioral Ecology and Psychopathy** Janko Mededović, 2023-07-19 This book examines the study of psychopathy using behavioral ecological framework It consists of two parts The first describes the science of human behavioral ecology including Basic concepts of evolutionary biology Evolutionary behavioral sciences Evolutionary ecology of family Evolutionary tradeoffs Life history theory Behavioral ecology of personality Psychopathy and its current evolution The second part of the book describes empirical research on psychopathy in evolutionary ecological context aiming to explore fertility longevity tradeoffs in psychopathy interacting phenotypes in psychopathy and parental effects associated with psychopathy This part contains the discussion of the study s findings which is based on several theoretical concepts described in part one This volume is ideal for psychopathy researchers hoping to bridge the natural and social sciences in a new and innovative way

Evolutionary Behavioral Ecology David Westneat, Charles W. Fox, 2010-04 Evolutionary Behavioral Ecology presents a comprehensive treatment of the evolutionary and ecological processes shaping behavior across a wide array of organisms and a diverse set of behaviors and is suitable as a graduate level text and as a sourcebook for professional scientists

**Behavioral Mechanisms in Evolutionary Ecology** Leslie Real, 1994-11-30 The first book length exploration of behavioral mechanisms in evolutionary ecology this ambitious volume illuminates long standing questions about cause and effect relations between an animal s behavior and its environment By focusing on biological mechanisms the sum of an animal s cognitive neural developmental and hormonal processes leading researchers demonstrate how the integrated study of animal physiology cognitive processes and social interaction can yield an enriched understanding of behavior With studies of species ranging from insects to primates the contributors examine how various animals identify and use environmental resources and deal with ecological constraints as well as the roles of learning communication and cognitive aspects of social interaction in behavioral evolution Taken together the chapters demonstrate how the study of internal mechanistic foundations of behavior in relation to their ecological and evolutionary contexts and outcomes provides valuable insight into such behaviors as predation mating and dispersal Behavioral Mechanisms in Evolutionary Ecology shows how a mechanistic approach unites various levels of biological organization to provide a broader understanding of the biological bases of behavioral evolution

**Model Systems in Behavioral Ecology** Lee Alan Dugatkin, 2001-10-07 A key way that behavioral ecologists develop general theories of animal behavior is by studying one species or a closely related group of species model systems over a long period This book brings together some of the field s most respected researchers to describe why they chose their systems how they integrate theoretical conceptual and empirical work lessons for the practice of the discipline and potential avenues of future research Their model systems encompass a wide range of animals and behavioral issues from dung flies to sticklebacks dolphins to African wild dogs from foraging to aggression territoriality to reproductive suppression Model

Systems in Behavioral Ecology offers an unprecedented systems focus and revealing insights into the confluence of personal curiosity and scientific inquiry. It will be an invaluable text for behavioral ecology courses and a helpful overview and a preview of coming developments for advanced researchers. The twenty-five chapters are divided into four sections: insects and arachnids, amphibians and reptiles, birds and mammals. In addition to the editor, the contributors include Geoff A. Parker, Thomas D. Seeley, Naomi Pierce, Kern Reeve, Gerald S. Wilkinson, Bert H. Ildobler, and Flavio Roces. George W. Uetz, Michael J. Ryan, and Gil Rosenthal, Judy Stamps, H. Carl Gerhardt, Barry Sinervo, Robert Warner, Manfred Milinski, David F. Westneat, Alan C. Kamil, and Alan B. Bond, Paul Sherman, Jerram L. Brown, Anders Pape Møller, Marc Bekoff, Richard C. Connor, Joan B. Silk, Christopher Boesch, Scott Creel, A. H. Harcourt, and Tim Caro, and M. J. Kelly.

**Animal Personalities** Claudio Carere, Dario Maestripieri, 2013-03-07. Ask anyone who has owned a pet and they'll assure you that yes, animals have personalities. And science is beginning to agree. Researchers have demonstrated that both domesticated and nondomesticated animals, from invertebrates to monkeys and apes, behave in consistently different ways, meeting the criteria for what many define as personality. But why the differences and how are personalities shaped by genes and environment? How did they evolve? The essays in *Animal Personalities* reveal that there is much to learn from our furred and feathered friends. The study of animal personality is one of the fastest growing areas of research in behavioral and evolutionary biology. Here, Claudio Carere and Dario Maestripieri, along with a host of scholars from fields as diverse as ecology, genetics, endocrinology, neuroscience, and psychology, provide a comprehensive overview of the current research on animal personality. Grouped into thematic sections, chapters approach the topic with empirical and theoretical material and show that to fully understand why personality exists, we must consider the evolutionary processes that give rise to personality, the ecological correlates of personality differences, and the physiological mechanisms underlying personality variation.

*Evolution Driven by Organismal Behavior* Rui Diogo, 2017-03-08. This book proposes a new way to think about evolution. The author carefully brings together evidence from diverse fields of science. In the process, he bridges the gaps between many different and usually seen as conflicting ideas to present one integrative theory named ONCE, which stands for Organic Nonoptimal Constrained Evolution. The author argues that evolution is mainly driven by the behavioral choices and persistence of organisms themselves in a process in which Darwinian natural selection is mainly a secondary but still crucial evolutionary player. Within ONCE, evolution is therefore generally made of mistakes and mismatches and trial and error situations and is not a process where organisms engage in an incessant suffocating struggle in which they can't thrive if they are not optimally adapted to their habitats and the external environment. Therefore, this unifying view incorporates a more comprehensive view of the diversity and complexity of life by stressing that organisms are not merely passive evolutionary players under the rule of external factors. This insightful and well-reasoned argument is based on numerous fascinating case studies from a wide range of organisms, including bacteria, plants, insects, and diverse examples from the evolution of our own species. The book has an appeal to researchers, students,

teachers and those with an interest in the history and philosophy of science as well as to the broader public as it brings life back into biology by emphasizing that organisms including humans are the key active players in evolution and thus in the future of life on this wonderful planet      *Cognition, Evolution, and Behavior* Sara J. Shettleworth, 2009-12-30 How do animals perceive the world learn remember search for food or mates communicate and find their way around Do any nonhuman animals count imitate one another use a language or have a culture What are the uses of cognition in nature and how might it have evolved What is the current status of Darwin's claim that other species share the same mental powers as humans but to different degrees In this completely revised second edition of *Cognition Evolution and Behavior* Sara Shettleworth addresses these questions among others by integrating findings from psychology behavioral ecology and ethology in a unique and wide ranging synthesis of theory and research on animal cognition in the broadest sense from species specific adaptations of vision in fish and associative learning in rats to discussions of theory of mind in chimpanzees dogs and ravens She reviews the latest research on topics such as episodic memory metacognition and cooperation and other regarding behavior in animals as well as recent theories about what makes human cognition unique In every part of this new edition Shettleworth incorporates findings and theoretical approaches that have emerged since the first edition was published in 1998 The chapters are now organized into three sections Fundamental Mechanisms perception learning categorization memory Physical Cognition space time number physical causation and Social Cognition social knowledge social learning communication Shettleworth has also added new chapters on evolution and the brain and on numerical cognition and a new chapter on physical causation that integrates theories of instrumental behavior with discussions of foraging planning and tool using      *Animal Behaviour* C. J. Barnard, 2012-12-06 The study of animal behaviour particularly from evolutionary and ecological viewpoints has been one of the major growing points in biology over the last 10 to 15 years The degree of quantitative rigour in theoretical observational and experimental approaches to behaviour has increased dramatically As more of the rapidly growing research literature becomes a basic requirement for students reading animal behaviour at undergraduate level there is a need for a readily comprehensible text covering all major aspects of behaviour study to accompany their courses This book based on my first second and third year undergraduate lectures at the University of Nottingham is designed to meet that requirement The book begins with a discussion of the physiological and anatomical bases of behaviour the relationship between nervous system structure and function and behaviour hormonal effects on behaviour biological clocks perceptual mechanisms and stimulus filtering This leads to a consideration in Chapter 2 of how the animal integrates internal and external stimuli in making decisions about its behaviour and the way natural selection has shaped decision making processes and the organisation of motivation The first two chapters therefore deal with the instigation or causation of behaviour within the animal Chapters 3 and 4 deal with developmental aspects of behaviour Chapter 3 discusses behaviour genetics including the relationship between specific genes and behaviour the heritability of

behaviour patterns the site of gene action in the body and the evolutionary consequences of a genetic basis to behaviour

Dynamic Modeling in Behavioral Ecology Marc Mangel, Colin Whitcomb Clark, 1988 This book describes a powerful and flexible technique for the modeling of behavior based on evolutionary principles The technique employs stochastic dynamic programming and permits the analysis of behavioral adaptations wherein organisms respond to changes in their environment and in their own current physiological state Models can be constructed to reflect sequential decisions concerned simultaneously with foraging reproduction predator avoidance and other activities The authors show how to construct and use dynamic behavioral models Part I covers the mathematical background and computer programming and then uses a paradigm of foraging under risk of predation to exemplify the general modeling technique Part II consists of five applied chapters illustrating the scope of the dynamic modeling approach They treat hunting behavior in lions reproduction in insects migrations of aquatic organisms clutch size and parental care in birds and movement of spiders and raptors Advanced topics including the study of dynamic evolutionarily stable strategies are discussed in Part III Adaptation and Human Behavior

Lee Cronk, Napoleon A. Chagnon, William Irons, 2000 This volume presents state of the art empirical studies working in a paradigm that has become known as human behavioral ecology The emergence of this approach in anthropology was marked by publication by Aldine in 1979 of an earlier collection of studies edited by Chagnon and Irons entitled *Evolutionary Biology and Human Social Behavior An Anthropological Perspective* During the two decades that have passed since then this innovative approach has matured and expanded into new areas that are explored here The book opens with an introductory chapter by Chagnon and Irons tracing the origins of human behavioral ecology and its subsequent development Subsequent chapters written by both younger scholars and established researchers cover a wide range of societies and topics organized into six sections The first section includes two chapters that provide historical background on the development of human behavioral ecology and compare it to two complementary approaches in the study of evolution and human behavior evolutionary psychology and dual inheritance theory The second section includes five studies of mating efforts in a variety of societies from South America and Africa The third section covers parenting with five studies on societies from Africa Asia and North America The fourth section breaks somewhat with the tradition in human behavioral ecology by focusing on one particularly problematic issue the demographic transition using data from Europe North America and Asia The fifth section includes studies of cooperation and helping behaviors using data from societies in Micronesia and South America The sixth and final section consists of a single chapter that places the volume in a broader critical and comparative context The contributions to this volume demonstrate with a high degree of theoretical and methodological sophistication the maturity and freshness of this new paradigm in the study of human behavior The volume will be of interest to anthropologists and other professions working on the study of cross cultural human behavior Lee Cronk is associate professor of anthropology at Rutgers University Napoleon Chagnon is professor of anthropology emeritus at the University of California Santa Barbara

William Irons is professor of anthropology at Northwestern University Evanston Illinois      Evolutionary Ecology of Social and Sexual Systems J. Emmett Duffy, Martin Thiel, 2007-09-06 Understanding of animal social and sexual evolution has seen a renaissance in recent years with discoveries of frequent infidelity in apparently monogamous species the importance of sperm competition active female mate choice and eusocial behavior in animals outside the traditional social insect groups Each of these findings has raised new questions and suggested new answers about the evolution of behavioral interactions among animals This volume synthesizes recent research on the sexual and social biology of the Crustacea one of the dominant invertebrate groups on earth Its staggering diversity includes ecologically important inhabitants of nearly every environment from deep sea trenches through headwater streams to desert soils The wide range of crustacean phenotypes and environments is accompanied by a comparable diversity of behavioral and social systems including the elaborate courtship and wildly exaggerated morphologies of fiddler crabs the mysterious queuing behavior of migrating spiny lobsters and even eusociality in coral reef shrimps This diversity makes crustaceans particularly valuable for exploring the comparative evolution of sexual and social systems Despite exciting recent advances however general recognition of the value of Crustacea as models has lagged behind that of the better studied insects and vertebrates This book synthesizes the state of the field in crustacean behavior and sociobiology and places it in a conceptually based comparative framework that will be valuable to active researchers and students in animal behavior ecology and evolutionary biology It brings together a group of internationally recognized and rising experts in fields related to crustacean behavioral ecology ranging from physiology and functional morphology through mating and social behavior to ecology and phylogeny Each chapter makes connections to other non crustacean taxa and the volume closes with a summary section that synthesizes the contributions discusses anthropogenic impacts highlights unanswered questions and provides a vision for profitable future research

Adaptation and Human Behavior Napoleon Chagnon, 2017-09-08 This volume presents state of the art empirical studies working in a paradigm that has become known as human behavioral ecology The emergence of this approach in anthropology was marked by publication by Aldine in 1979 of an earlier collection of studies edited by Chagnon and Irons entitled *Evolutionary Biology and Human Social Behavior An Anthropological Perspective* During the two decades that have passed since then this innovative approach has matured and expanded into new areas that are explored here The book opens with an introductory chapter by Chagnon and Irons tracing the origins of human behavioral ecology and its subsequent development Subsequent chapters written by both younger scholars and established researchers cover a wide range of societies and topics organized into six sections The first section includes two chapters that provide historical background on the development of human behavioral ecology and compare it to two complementary approaches in the study of evolution and human behavior evolutionary psychology and dual inheritance theory The second section includes five studies of mating efforts in a variety of societies from South America and Africa The third section covers parenting with five studies on societies from Africa Asia



and North America The fourth section breaks somewhat with the tradition in human behavioral ecology by focusing on one particularly problematic issue the demographic transition using data from Europe North America and Asia The fifth section includes studies of cooperation and helping behaviors using data from societies in Micronesia and South America The sixth and final section consists of a single chapter that places the volume in a broader critical and comparative context The contributions to this volume demonstrate with a high degree of theoretical and methodological sophistication the maturity and freshness of this new paradigm in the study of human behavior The volume will be of interest to anthropologists and other professions working on the study of cross cultural human behavior      **Behavioral Ecology** N. B. Davies, J. R. Krebs, 1991

**Sensory Ecology, Behaviour, and Evolution** Martin Stevens, 2013-02-08 Throughout their lives animals must complete many tasks including finding food avoiding predators attracting mates and navigating through a complex and dynamic environment Consequently they have evolved a staggering array of sensory organs that are fundamental to survival and reproduction and shape much of their evolution and behaviour Sensory ecology deals with how animals acquire process and use information in their lives and the sensory systems involved It investigates the type of information that is gathered by animals how it is used in a range of behaviours and the evolution of such traits It deals with both mechanistic questions e g how sensory receptors capture information from the environment and how the physical attributes of the environment affect information transmission and functional questions e g the adaptive significance of the information used by the animal to make a decision Recent research has dealt more explicitly with how sensory systems are involved with and even drive evolutionary change including the formation of new species Sensory Ecology Behaviour and Evolution provides a broad introduction to sensory ecology across a wide range of taxonomic groups covering all the various sensory modalities e g sound visual chemical magnetic and electric relating to diverse areas spanning anti predator strategies foraging mate choice navigation and more with the aim being to illustrate key principles and differences This accessible textbook is suitable for senior undergraduates graduate students and professional academics taking courses or conducting research in sensory ecology biology neuroethology behavioural and evolutionary ecology communication and signalling It will also be of relevance and use to psychologists interested in sensory information and behaviour      *Animal Behaviour* Peter M. Kappeler, 2021-11-12 This textbook presents all basic principles of animal behaviour in a clear and concise manner and illustrates them with up to date examples Emphasis is placed on behavioural biology as an integrative discipline of organismic biology focusing on the adaptive value of behaviours that facilitate resource access predator avoidance and reproductive success and underlie parental care all within a comprehensive presentation of social complexity This new textbook provides a rich resource for students and teachers from a wide range of life science disciplines      **The Behavioral Ecology of the Family** Paula Sheppard, Kristin Snopkowski, 2021-10-31 The editors present a collection of articles illustrating how evolutionary and ecological theory can inform research on the wide variation of human families seen globally

The book promotes human behavioral ecology as a theoretically driven approach that provides a foundation upon which to make predictions about marriage mating and raising children

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## **Table of Contents Evolutionary Behavioral Ecology**

1. Understanding the eBook Evolutionary Behavioral Ecology
  - The Rise of Digital Reading Evolutionary Behavioral Ecology
  - Advantages of eBooks Over Traditional Books
2. Identifying Evolutionary Behavioral Ecology
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Evolutionary Behavioral Ecology
  - User-Friendly Interface
4. Exploring eBook Recommendations from Evolutionary Behavioral Ecology
  - Personalized Recommendations
  - Evolutionary Behavioral Ecology User Reviews and Ratings
  - Evolutionary Behavioral Ecology and Bestseller Lists
5. Accessing Evolutionary Behavioral Ecology Free and Paid eBooks
  - Evolutionary Behavioral Ecology Public Domain eBooks
  - Evolutionary Behavioral Ecology eBook Subscription Services
  - Evolutionary Behavioral Ecology Budget-Friendly Options

6. Navigating Evolutionary Behavioral Ecology eBook Formats
  - ePub, PDF, MOBI, and More
  - Evolutionary Behavioral Ecology Compatibility with Devices
  - Evolutionary Behavioral Ecology Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Evolutionary Behavioral Ecology
  - Highlighting and Note-Taking Evolutionary Behavioral Ecology
  - Interactive Elements Evolutionary Behavioral Ecology
8. Staying Engaged with Evolutionary Behavioral Ecology
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Evolutionary Behavioral Ecology
9. Balancing eBooks and Physical Books Evolutionary Behavioral Ecology
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Evolutionary Behavioral Ecology
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Evolutionary Behavioral Ecology
  - Setting Reading Goals Evolutionary Behavioral Ecology
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Evolutionary Behavioral Ecology
  - Fact-Checking eBook Content of Evolutionary Behavioral Ecology
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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