

Model Systems in Behavioral Ecology

Integrating Conceptual,
Theoretical, and
Empirical Approaches

Edited by Lee Alan Dugatkin



$$\frac{r - r(T) + S}{2(r - T)} = P$$

$$\frac{\sum_{i=1}^n \lambda_i \phi_i}{1 + \sum_{i=1}^n \lambda_i h_i} = \frac{\phi_{n+1}}{h_{n+1}}$$



MONOGRAPHS IN BEHAVIOR AND ECOLOGY

Model Systems In Behavioral Ecology Integrating Conceptual Theoretical And Empirical Approaches

Lee Alan Dugatkin



Model Systems In Behavioral Ecology Integrating Conceptual Theoretical And Empirical Approaches:

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 M Iler Marc Bekoff Richard C Connor Joan B Silk Christopher Boesch Scott Creel A H Harcourt and Tim Caro and M J Kelly

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Lizards in an Evolutionary Tree Jonathan B. Losos, 2011-02-09 In a book both beautifully illustrated and deeply informative Jonathan Losos a leader in evolutionary ecology celebrates and analyzes the diversity of the natural

world that the fascinating anoline lizards epitomize Readers who are drawn to nature by its beauty or its intellectual challenges or both will find his book rewarding Douglas J Futuyma State University of New York Stony Brook This book is destined to become a classic It is scholarly informative stimulating and highly readable and will inspire a generation of students Peter R Grant author of How and Why Species Multiply The Radiation of Darwin s Finches Anoline lizards experienced a spectacular adaptive radiation in the dynamic landscape of the Caribbean islands The radiation has extended over a long period of time and has featured separate radiations on the larger islands Losos the leading active student of these lizards presents an integrated and synthetic overview summarizing the enormous and multidimensional research literature This engaging book makes a wonderful example of an adaptive radiation accessible to all and the lavish illustrations especially the photographs make the anoles come alive in one s mind David Wake University of California Berkeley This magnificent book is a celebration and synthesis of one of the most eventful adaptive radiations known With disarming prose and personal narrative Jonathan Losos shows how an obsession beginning at age ten became a methodology and a research plan that together with studies by colleagues and predecessors culminated in many of the principles we now regard as true about the origins and maintenance of biodiversity This work combines rigorous analysis and glorious natural history in a unique volume that stands with books by the Grants on Darwin s finches among the most informed and engaging accounts ever written on the evolution of a group of organisms in nature Dolph Schluter author of The Ecology of Adaptive Radiation

The Evolution of Animal Communication William A. Searcy, Stephen Nowicki, 2010-01-01 Gull chicks beg for food from their parents Peacocks spread their tails to attract potential mates Meerkats alert family members of the approach of predators But are these and other animals sometimes dishonest That s what William Searcy and Stephen Nowicki ask in The Evolution of Animal Communication They take on the fascinating yet perplexing question of the dependability of animal signaling systems The book probes such phenomena as the begging of nesting birds alarm calls in squirrels and primates carotenoid coloration in fish and birds the calls of frogs and toads and weapon displays in crustaceans Do these signals convey accurate information about the signaler its future behavior or its environment Or do they mislead receivers in a way that benefits the signaler For example is the begging chick really hungry as its cries indicate or is it lobbying to get more food than its brothers and sisters Searcy and Nowicki take on these and other questions by developing clear definitions of key issues by reviewing the most relevant empirical data and game theory models available and by asking how well theory matches data They find that animal communication is largely reliable but that this basic reliability also allows the clever deceiver to flourish Well researched and clearly written their book provides new insight into animal communication behavior and evolution

Reproductive Skew in Vertebrates Reinmar Hager, Clara B. Jones, 2009-08-20 Skew theory investigates the genetic and ecological factors causal to the partitioning of reproduction in animal groups and may yield fundamental insights into the evolution of animal sociality This book brings together new theory and empirical work mostly in vertebrates

to test assumptions and predictions of skew models **Advances in the Study of Behavior** ,2014-05-16 Advances in the Study of Behavior was initiated over 40 years ago to serve the increasing number of scientists engaged in the study of animal behavior That number is still expanding This volume makes another important contribution to the development of the field by presenting theoretical ideas and research to those studying animal behavior and to their colleagues in neighboring fields Initiated over 40 years ago to serve the increasing number of scientists engaged in the study of animal behavior Makes another important contribution to the development of the field Presents theoretical ideas and research to those studying animal behavior and to their colleagues in neighboring fields **The African Wild Dog** Scott Creel,Nancy Marusha Creel,2019-12-31 With only 5 000 surviving the African wild dog *Lycaon pictus* is one of the world s most endangered large carnivores and one of the most remarkable This comprehensive portrait of wild dogs incorporates previously scattered information with important new findings from a six year study in Tanzania s Selous Game Reserve Africa s largest protected area The book emphasizes ecology concentrating on why wild dogs fare poorly in protected areas that maintain healthy populations of lions hyenas or other top carnivores In addition to conservation issues it covers fascinating aspects of wild dog behavior and social evolution The Creels use demographic behavioral endocrine and genetic approaches to examine how and why nonbreeding pack mates help breeding pairs raise their litters They also present the largest data set ever collected on mammalian predator prey interactions and the evolution of cooperative hunting allowing them to account for wild dogs prowess as hunters By using a large sample size and sophisticated analytical tools the authors step well beyond previous research Their results include some surprises that will cause even specialists to rethink certain propositions such as the idea that wild dogs are unusually vulnerable to infectious disease Several findings apply broadly to the management of other protected areas Of clear appeal to ecologists studying predation and cooperation in any population this book collects and expands a cache of information useful to anyone studying conservation as well as to amateurs intrigued by the once maligned but extraordinary wild dog **Sexual Conflict** Göran Arnqvist,Locke Rowe,2013-11-28 The past decade has seen a profound change in the scientific understanding of reproduction The traditional view of reproduction as a joint venture undertaken by two individuals aimed at replicating their common genome is being challenged by a growing body of evidence showing that the evolutionary interests of interacting males and females diverge This book demonstrates that despite a shared genome conflicts between interacting males and females are ubiquitous and that selection in the two sexes is continuously pulling this genome in opposite directions These conflicts drive the evolution of a great variety of those traits that distinguish the sexes and also contribute to the diversification of lineages G ran Arnqvist and Locke Rowe present an array of evidence for sexual conflict throughout nature and they set these conflicts into the well established theoretical framework of sexual selection The recognition of conflict between the sexes is transforming our theories for the evolution of mating systems and the sexes themselves Written by two top researchers in the field Sexual Conflict is the first book to

describe this transformation It is a must read for all scholars and students interested in the evolutionary biology of reproduction **Ecology in Action** Fred Singer,2016-03-10 Integrates process and content of core areas of ecology using an engaging narrative fascinating case studies and stunning images throughout **Kalahari Cheetahs** M. G. L. Mills,Margie Mills,2017 This the first detailed study of the cheetah in an arid environment addressing topics such as optimal foraging theory hunting strategies and predator prey relations mating systems reproductive strategies and success inter specific competition demography social organisation and population limitation **Behavioral Flexibility in Primates** Clara Jones,2006-09-10 Numerous figures illustrations and tables integration of new literature and concepts into field of primatology emphasis upon both behavioral and cognitive mechanisms *Advances in Marine Biology* ,2007-10-02 *Advances in Marine Biology* was first published in 1963 Now edited by David W Sims Marine Biological Association UK the serial publishes in depth and up to date reviews on a wide range of topics which will appeal to postgraduates and researchers in marine biology fisheries science ecology zoology oceanography Eclectic volumes in the series are supplemented by thematic volumes on such topics as The Biology of Calanoid Copepods and Restocking and Stock Enhancement of Marine Invertebrate Fisheries New information on the offspring size in marine invertebrates Discusses important information on the social structure and strategies of delphinids More than 250 pages of the latest discoveries in marine science **The Leafcutter Ants: Civilization by Instinct** Bert Hölldobler,Edward O. Wilson,2010-11-15 From the Pulitzer Prize winning authors of *The Ants* comes this dynamic and visually spectacular portrait of Earth s ultimate superorganism The Leafcutter Ants is the most detailed and authoritative description of any ant species ever produced With a text suitable for both a lay and a scientific audience the book provides an unforgettable tour of Earth s most evolved animal societies Each colony of leafcutters contains as many as five million workers all the daughters of a single queen that can live over a decade A gigantic nest can stretch thirty feet across rise five feet or more above the ground and consist of hundreds of chambers that reach twenty five feet below the ground surface Indeed the leafcutters have parlayed their instinctive civilization into a virtual domination of forest grassland and cropland from Louisiana to Patagonia Inspired by a section of the authors acclaimed *The Superorganism* this brilliantly illustrated work provides the ultimate explanation of what a social order with a half billion years of animal evolution has achieved **Biotremology: Physiology, Ecology, and Evolution** Peggy S. M. Hill,Valerio Mazzoni,Nataša Stritih-Peljhan,Meta Virant-Doberlet,Andreas Wessel,2022-05-24 Biotremology is a new and emerging discipline in biological sciences that covers all aspects of behavior associated with substrate borne mechanical waves This volume provides state of the art reviews and technical contributions from leading experts and invited younger researchers on topics from signal production and transmission to perception in its ecological context Reviews about the knowledge of well studied groups are complemented with perspectives on the study of less explored groups or contexts Special attention is given to practical issues in measuring substrate borne vibrations as well as to applied biotremology The book appeals to all those interested in

communication and vibrational behavior Organization of Insect Societies Jürgen Gadau, Jennifer Fewell, 2009-02-28 In this landmark volume an international group of scientists has synthesized their collective expertise and insight into a newly unified vision of insect societies and what they can reveal about how sociality has arisen as an evolutionary strategy Jürgen Gadau and Jennifer Fewell have assembled leading researchers from the fields of molecular biology evolutionary genetics neurophysiology behavioral ecology and evolutionary theory to reexamine the question of sociality in insects Recent advances in social complexity theory and the sequencing of the honeybee genome ensure that this book will be valued by anyone working on sociality in insects At the same time the theoretical ideas presented will be of broad ranging significance to those interested in social evolution and complex systems **The Evolution of Social Wasps** James H. Hunt, 2007-03-27 Publisher description

Sperm Competition and Its Evolutionary Consequences in the Insects Leigh W. Simmons, 2019-12-31 One hundred years after Darwin considered how sexual selection shapes the behavioral and morphological characteristics of males for acquiring mates Parker realized that sexual selection continues after mating through sperm competition Because females often mate with multiple males before producing offspring selection favors adaptations that allow males to preempt sperm from previous males and to prevent their own sperm from preemption by future males Since the 1970s this area of research has seen exponential growth and biologists now recognize sperm competition as an evolutionary force that drives such adaptations as mate guarding genital morphology and ejaculate chemistry across all animal taxa The insects have been critical to this research and they still offer the greatest potential to reveal fully the evolutionary consequences of sperm competition This book analyzes and extends thirty years of theoretical and empirical work on insect sperm competition It considers both male and female interests in sperm utilization and the sexual conflict that can arise when these differ It covers the mechanics of sperm transfer and utilization morphology physiology and behavior Sperm competition is shown to have dramatic effects on adaptation in the context of reproduction as well as far reaching ramifications on life history evolution and speciation Written by a top researcher in the field this comprehensive up to date review of the evolutionary causes and consequences of sperm competition in the insects will prove an invaluable reference for students and established researchers in behavioral ecology and evolutionary biology **Mammals of Colorado, Second Edition** David M.

Armstrong, James P. Fitzgerald, Carron A. Meaney, 2011-05-18 Co published with the Denver Museum of Nature Science Thoroughly revised and updated *Mammals of Colorado Second Edition* is a comprehensive reference on the nine orders and 128 species of Colorado's recent native fauna detailing each species description habitat distribution population ecology diet and foraging predators and parasites behavior reproduction and development and population status An introductory chapter on Colorado's environments a discussion of the development of the fauna over geologic time and a brief history of human knowledge of Coloradan mammals provide ecological and evolutionary context The most recent records of the state's diverse species rich illustrations including detailed maps skull drawings and photographs and an extensive bibliography make this

book a must have reference Amateur and professional naturalists students vertebrate biologists and ecologists as well as those involved in conservation and wildlife management in Colorado will find value in this comprehensive volume

Biologically-Inspired Computing for the Arts: Scientific Data through Graphics Ursyn, Anna, 2012-04-30 This book comprises a collection of authors individual approaches to the relationship between nature science and art created with the use of computers discussing issues related to the use of visual language in communication about biologically inspired scientific data visual literacy in science and application of practitioner s approach Provided by publisher

Mammals of Africa: Volume V Jonathan Kingdon, 2014-11-20 Mammals of Africa MoA is a series of six volumes which describes in detail every currently recognized species of African land mammal This is the first time that such extensive coverage has ever been attempted and the volumes incorporate the very latest information and detailed discussion of the morphology distribution biology and evolution including reference to fossil and molecular data of Africa s mammals With more than 1 160 species and 16 18 orders Africa has the greatest diversity and abundance of mammals in the world The reasons for this and the mechanisms behind their evolution are given special attention in the series Each volume follows the same format with detailed profiles of every species and higher taxa The series includes hundreds of colour illustrations and pencil drawings by Jonathan Kingdon highlighting the morphology and behaviour of the species concerned as well as line drawings of skulls and jaws by Jonathan Kingdon and Meredith Happold Every species also includes a detailed distribution map Edited by Jonathan Kingdon David Happold Tom Butynski Mike Hoffmann Meredith Happold and Jan Kalina and written by more than 350 authors all experts in their fields Mammals of Africa is as comprehensive a compendium of current knowledge as is possible Extensive references alert readers to more detailed information Volume V edited by Jonathan Kingdon and Michael Hoffmann comprises 83 species of carnivores and includes jackals wolves dogs foxes weasels polecats striped weasels Zorilla otters Ratel fur seals monk seals Palm Civet cats genets linsangs African Civet hyaenas Aardwolf and mongooses The volume is completed with profiles of four pangolins four zebras and two rhinoceroses

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