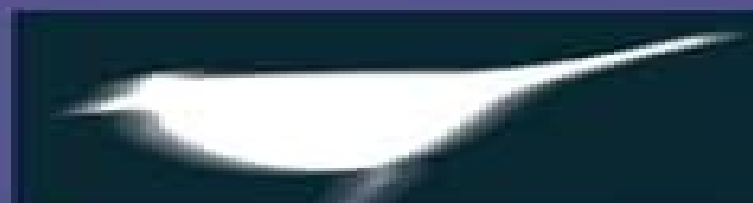
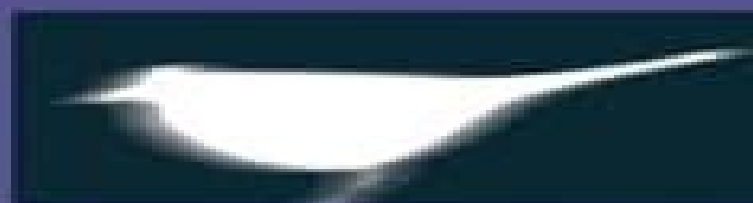


Alasdair I. Houston & John M. McNamara

Models of Adaptive Behaviour

An approach based on state



Models Of Adaptive Behaviour An Approach Based On State

Steven F. Railsback, Bret C. Harvey



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Models of Adaptive Behaviour Alasdair I. Houston, John M. McNamara, 1999-08-19 Models of Adaptive Behaviour sets out a framework for adaptive explanations of behaviour and applies this to give analyses of a range of biological issues such as energetic gain energy predation trade offs dynamic games state dependent life histories annual routines and fluctuating environments It gives a definitive account of this exciting field summarizing previous research presenting material and suggesting directions for research Organisms differ in terms of their state for example in their size energy relations or temperature which often affects their behaviour The framework adopted in this book takes this into account and provides a common currency for comparing diverse actions Ultimately this could lead to the development of state dependent dynamic models This book will be a revelation for graduate students and researchers interested in behavioural or evolutionary biology

Modeling Populations of Adaptive Individuals Steven F. Railsback, Bret C. Harvey, 2020-05-19 Ecologists now recognize that the dynamics of populations communities and ecosystems are strongly affected by adaptive individual behaviors Yet until now we have lacked effective and flexible methods for modeling such dynamics Traditional ecological models become impractical with the inclusion of behavior and the optimization approaches of behavioral ecology cannot be used when future conditions are unpredictable due to feedbacks from the behavior of other individuals This book provides a comprehensive introduction to state and prediction based theory or SPT a powerful new approach to modeling trade off behaviors in contexts such as individual based population models where feedbacks and variability make optimization impossible Modeling Populations of Adaptive Individuals features a wealth of examples that range from highly simplified behavior models to complex population models in which individuals make adaptive trade off decisions about habitat and activity selection in highly heterogeneous environments Steven Railsback and Bret Harvey explain how SPT builds on key concepts from the state based dynamic modeling theory of behavioral ecology and how it combines explicit predictions of future conditions with approximations of a fitness measure to represent how individuals make good not optimal decisions that they revise as conditions change The resulting models are realistic testable adaptable and invaluable for answering fundamental questions in ecology and forecasting ecological outcomes of real world scenarios *Mathematical Models of Social Evolution* Richard McElreath, Robert Boyd, 2008-09-15 Over the last several decades mathematical models have become central to the study of social evolution both in biology and the social sciences But students in these disciplines often seriously lack the tools to understand them A primer on behavioral modeling that includes both mathematics and evolutionary theory Mathematical Models of Social Evolution aims to make the student and professional researcher in biology and the social sciences fully conversant in the language of the field Teaching biological concepts from which models can be developed Richard McElreath and Robert Boyd introduce readers to many of the typical mathematical tools that are used to analyze evolutionary models and end each chapter with a set of problems that draw upon these techniques Mathematical

Models of Social Evolution equips behaviorists and evolutionary biologists with the mathematical knowledge to truly understand the models on which their research depends Ultimately McElreath and Boyd s goal is to impart the fundamental concepts that underlie modern biological understandings of the evolution of behavior so that readers will be able to more fully appreciate journal articles and scientific literature and start building models of their own **Modelling for Field Biologists and Other Interesting People** Hanna Kokko,2007-06-28 A friendly 2007 guide to mathematical modelling for evolutionary and behavioural ecologists **Integrative Organismal Biology** Lynn B. Martin,Cameron K. Ghalambor,H. Arthur Woods,2015-02-16 Integrative Organismal Biology synthesizes current understandings of the causes and consequences of individual variation at the physiological behavioral and organismal levels Emphasizing key topics such as phenotypic plasticity and flexibility and summarizing emerging areas such as ecological immunology oxidative stress biology and others Integrative Organismal Biology pulls together information from diverse disciplines to provide a synthetic view of the role of the individual in evolution Beginning with the role of the individual in evolutionary and ecological processes the book covers theory and mechanism from both classic and modern perspectives Chapters explore concepts such as phenotypic plasticity genetic and epigenetic variation physiological and phenotypic variation homeostasis and gene and physiological regulatory networks A concluding section interweaves these concepts through a series of case studies of life processes such as aging reproduction and immune defense Written and edited by leaders in the field Integrative Organismal Biology will be an important advanced textbook for students and researchers across a variety of subdisciplines of integrative biology

Mechanisms of Life History Evolution Thomas Flatt,Andreas Heyland,2011-05-12 This interdisciplinary volume unites evolutionary and molecular biologists from various fields life history theory molecular biology developmental biology aging phenotypic plasticity social behaviour and endocrinology who use studies of molecular mechanisms to solve fundamental questions in life history evolution in a variety of organisms Social Evolution and Inclusive Fitness Theory James A.R. Marshall,2019-01-08 Social behavior has long puzzled evolutionary biologists since the classical theory of natural selection maintains that individuals should not sacrifice their own fitness to affect that of others Social Evolution and Inclusive Fitness Theory argues that a theory first presented in 1963 by William D Hamilton inclusive fitness theory provides the most fundamental and general explanation for the evolution and maintenance of social behavior in the natural world James Marshall guides readers through the vast and confusing literature on the evolution of social behavior introducing and explaining the competing theories that claim to provide answers to questions such as why animals evolve to behave altruistically Using simple statistical language and techniques that practicing biologists will be familiar with he provides a comprehensive yet easily understandable treatment of key concepts and their repeated misinterpretations Particular attention is paid to how more realistic features of behavior such as nonadditivity and conditionality can complicate analysis Marshall highlights the general problem of identifying the underlying causes of evolutionary change and proposes fruitful

approaches to doing so in the study of social evolution Social Evolution and Inclusive Fitness Theory describes how inclusive fitness theory addresses both simple and complex social scenarios the controversies surrounding the theory and how experimental work supports the theory as the most powerful explanation for social behavior and its evolution A Practical Guide to Ecological Modelling Karline Soetaert, Peter M. J. Herman, 2008-10-21 Mathematical modelling is an essential tool in present day ecological research Yet for many ecologists it is still problematic to apply modelling in their research In our experience the major problem is at the conceptual level proper understanding of what a model is how ecological relations can be translated consistently into mathematical equations how models are solved steady states calculated and interpreted Many textbooks jump over these conceptual hurdles to dive into detailed formulations or the mathematics of solution This book attempts to fill that gap It introduces essential concepts for mathematical modelling explains the mathematics behind the methods and helps readers to implement models and obtain hands on experience Throughout the book emphasis is laid on how to translate ecological questions into interpretable models in a practical way The book aims to be an introductory textbook at the undergraduate graduate level but will also be useful to seduce experienced ecologists into the world of modelling The range of ecological models treated is wide from Lotka Volterra type of principle seeking models to environmental or ecosystem models and including matrix models lattice models and sequential decision models All chapters contain a concise introduction into the theory worked out examples and exercises All examples are implemented in the open source package R thus taking away problems of software availability for use of the book All code used in the book is available on a dedicated website **Handbook of Scaling Methods in Aquatic Ecology** Laurent Seuront, Peter G. Strutton, 2003-09-25 The evolution of observational instruments simulation techniques and computing power has given aquatic scientists a new understanding of biological and physical processes that span temporal and spatial scales This has created a need for a single volume that addresses concepts of scale in a manner that builds bridges between experimentalists and **Personality in Nonhuman Animals** Jennifer Vonk, Alexander Weiss, Stan A. Kuczaj, 2017-07-26 This stimulating and comprehensive collection brings together multiple perspectives on the topic of personality in nonhuman animals linking historical perspectives theoretical approaches methods and cutting edge discoveries Experts from various fields describe their findings on species ranging from dogs cats chimpanzees and dolphins to sharks snakes and other reptiles Chapters not only discuss the evolution of personality but also describe potential applications within the areas of animal human interactions animal ethics and welfare conservation science and other areas A key focus is the role of genetics and the environment in determining animal behavior and personality including related traits such as creativity and boredom These chapters present the study of personality in nonhumans as a means by which we can better understand medical and psychological issues specific to our own species as well Chapters include Exploring factor space and other adventures with the Hominoid Personality Questionnaire The quantitative and molecular genetics of individual differences in animal

personality Personality temperament and individuality in reptile behavior What do we want to know about personality in marine mammals Individual differences in nonhuman animals examining boredom curiosity and creativity The interplay between animal personality and foraging ecology Taking significant steps in advancing the study of animal personality Personality in Nonhuman Animals will engage personality psychologists comparative psychologists and behavior ecologists as well as conservationists zookeepers livestock managers and all those interested in the brain and behavior of animals

Encyclopedia of Animal Behavior, 2009-04-01 The Encyclopedia of Animal Behavior Three Volume Set has engaged with great success the efforts of many of the best behavioral biologists of the 21st century Section editors drawn from the most accomplished behavioral scientists of their generation have enrolled an international cast of highly respected thinkers and writers all of whom have taken great care and joy in illuminating every imaginable corner of animal behavior This comprehensive work covers not only the usual topics such as communication learning sexual selection navigation and the history of the field but also emerging topics in cognition animal welfare conservation and applications of animal behavior The large section on animal cognition brings together many of the world's experts on the subject to provide a comprehensive overview of this rapidly developing area Chapters relating to animal welfare give a full view of behavioral interactions of humans with companion animals farm animals and animals in the wild The key role of animal behavior in conservation biology receives broad attention including chapters on topics such as the effects of noise pollution captive breeding and how the behavioral effects of parasites interacts with conservation issues Animal behavior in environmental biology is highlighted in chapters on the effects of endocrine disruptors on behavior and a large number of chapters on key species such as wolves chimpanzees hyenas and sharks Clear accessible writing complements a wealth of information for undergraduate college students about the essential concepts of animal behavior and the application of those concepts across the field In depth coverage of concepts methods and exemplar organisms serves the needs of graduate students and professionals in the field From the use of behavior in assessing the welfare of pigs to the social behavior of insects from animal empathy to bat brains this authoritative reference with its in depth introductory articles rich array of illustrations interactive cross referenced links and numerous suggested readings can guide the student or the professional to an expanded appreciation of the far flung world of animal behavior An invaluable tool for teaching and a source of enrichment and detail for any topic covered in an animal behavior course the Encyclopedia of Animal Behavior is the definitive reference work in its field and will be for years to come Comprehensive work which covers the usual topics along with emerging areas of animal behavior This encyclopedia contains clear accessible writing and is well illustrated including an online video complimenting a wealth of information As an online reference this work will be subject to period updating This ensures that the work always remains current Contains in depth introductions to the material that make each well illustrated section come alive with the best the new content the discipline has to offer Glossary includes a compendium of behavioral terms that form a succinct mosaic of virtually every

concept and phenomenon related to animal behavior Section editors drawn from around the world represent the best and the brightest among today's behavioral biologists and have recruited a broad range of internationally recognized experts Editors in Chief are experienced scientists and writers who between them have authored or edited eight books and teach courses in animal behavior at their respective universities Animal Migration E.J. Milner-Gulland, John M. Fryxell, Anthony R.E.

Sinclair, 2011-01-13 Migration is a fascinating phenomenon that can contribute to the fundamental structuring of ecosystems This seminal volume synthesises insights from both mathematical modelling and empirical research in order to generate a unified understanding of the mechanisms underlying migration **Personality and Temperament in Nonhuman**

Primates Alexander Weiss, James E. King, Lindsay Murray, 2011-08-10 Recently there has been an increased interest in research on personality temperament and behavioral syndromes henceforth to be referred to as personality in nonhuman primates and other animals This follows in part from a general interest in the subject matter and the realization that individual differences once consigned to error terms in statistical analyses are potentially important predictors moderators and mediators of a wide variety of outcomes ranging from the results of experiments to health to enrichment programs Unfortunately while there is a burgeoning interest in the subject matter findings have been reported in a diverse number of journals and most of the methodological and statistical approaches were developed in research on human personality The proposed volume seeks to gather submissions from a variety of specialists in research on individual differences in primate temperament personality or behavioral syndromes We anticipate that chapters will cover several areas The first part of this edited volume will focus on methodological considerations including the advantages and disadvantages of different means of assessing these constructs in primates and introduce some statistical approaches that have typically been the domain of human personality research Another part of this edited volume will focus on present findings including the physiological and genetic bases of personality dimensions in primates the relationship between personality and age how personality may moderate or impact various outcomes including behavior health and well being in captive and non captive environments For the third part of the volume we hope to obtain summaries of the existing work of the authors on the evolutionary importance of personality dimensions and guideposts for future directions in this new and exciting area of research Evolutionary

Behavioral Ecology David Westneat, Charles Fox, 2010-03-05 Evolutionary Behavioral Ecology is intended to be used as a text for graduate students and a sourcebook for professional scientists seeking an understanding of the evolutionary and ecological processes shaping behavior across a wide array of organisms and a diverse set of behaviors Chapters are written by leading experts in the field providing a core foundation a history of conceptual developments and fresh insight into the controversies and themes shaping the continuing development of the field Essays on adaptation selection fitness genetics plasticity and phylogeny as they pertain to behavior place the field in the broader context of ecology and evolution These concepts along with a diversity of theoretical approaches are applied to the evolution of behavior in a many contexts from

individual decision making of solitary animals through to complex social interactions Chapters integrate conceptual and theoretical approaches with recent empirical advances to understand the evolution of behavior from foraging dealing with risk predator avoidance and an array of social behaviors including fighting and cooperation with conspecifics and conflict and cooperation between the sexes The material emphasizes integrative and novel approaches to behavior including cognitive ecology personality conservation biology the links between behavior and evolution the evolution of human social behavior and ways in which modern genetic analyses can augment the study of behavior

The Impact of Weather on the Behavior and Ecology of Birds Stuart Peter Sharp, Mark C. Mainwaring, Andreas Nord, 2021-12-29

Agent-Based and Individual-Based Modeling Steven F. Railsback, Volker Grimm, 2025-06-03 The essential textbook on agent based modeling now fully updated and expanded Agent Based and Individual Based Modeling has become the standard textbook on the subject for classroom use and self instruction Drawing on the latest version of NetLogo and fully updated with new examples exercises and an enhanced text for easier comprehension this is the essential resource for anyone seeking to understand how the dynamics of biological social and other complex systems arise from the characteristics of the agents that make up these systems Steven Railsback and Volker Grimm lead students stepwise through the processes of designing programming documenting and doing scientific research with agent based models focusing on the adaptive behaviors that make these models necessary They cover the fundamentals of modeling and model analysis introduce key modeling concepts and demonstrate how to implement them using NetLogo They also address pattern oriented modeling an invaluable strategy for modeling real world problems and developing theory This accessible and authoritative book focuses on modeling as a tool for understanding real complex systems It explains how to pose a specific question use observations from actual systems to design models write and test software and more A hands on introduction that guides students from conceptual design to computer implementation to analysis Filled with new examples and exercises and compatible with the latest version of NetLogo Ideal for students and researchers across the natural and social sciences Written by two leading practitioners Supported by extensive instructional materials at www.railsbackgrimmabmbook.com

Game Theory Steven N. Durlauf, Lawrence E. Blume, 2016-07-14 Specially selected from The New Palgrave Dictionary of Economics 2nd edition each article within this compendium covers the fundamental themes within the discipline and is written by a leading practitioner in the field A handy reference tool

Aggression Robert Huber, Danika L. Bannasch, Patricia Brennan, 2011-11-16 Genes interact with the environment experience and biology of the brain to shape an animal's behavior This latest volume in Advances in Genetics organized according to the most widely used model organisms describes the latest genetic discoveries in relation to neural circuit development and activity Explores the latest topics in neural circuits and behavior research in zebrafish drosophila C elegans and mouse models Includes methods for testing with ethical legal and social implications Critically analyzes future prospects

Individual-based Modeling and Ecology Volker Grimm, Steven F.

Railsback, 2005-07-25 The authors begin their book with a general primer on modelling before addressing the problems of theory and conceptual framework for individual based ecology An extensive review illustrates the ecological problems that have been addressed with individual based models

Integrative Wildlife Nutrition Perry S. Barboza, Katherine L.

Parker, Ian D. Hume, 2008-12-28 Nutrition spans a wide range of mechanisms from acquisition of food to digestion absorption and retention of energy substrates water and other nutrients Nutritional principles have been applied to improving individual health athletic performance and longevity of humans and of their companion animals and to maximizing agricultural efficiency by manipulating reproduction or growth of tissues such as muscle hair or milk in livestock Comparative nutrition borrows from these traditional approaches by applying similar techniques to studies of ecology and physiology of wildlife Comparative approaches to nutrition integrate several levels of organization because the acquisition and flow of energy and nutrients connect individuals to populations populations to communities and communities to ecosystems Integrative Wildlife Nutrition connects behavioral morphological and biochemical traits of animals to the life history of species and thus the dynamics of populations An integrated approach to nutrition provides a practical framework for understanding the interactions between food resources and wildlife populations and for managing the harvest of abundant species and the conservation of threatened populations This book is for students and professionals in animal physiology and ecology conservation biology and wildlife management It is based on our lectures demonstrations and practical classes taught in the USA Canada and Australia over the last three decades Instructors can use Integrative Wildlife Nutrition as a text in wildlife and conservation biology programs and as a reference source for related courses in wildlife ecology

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