

# Evolutionary Ecology of Birds

*Life Histories, Mating Systems and Extinction*

Peter M. Bennett  
Ian P. F. Owens



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# Evolutionary Ecology Of Birds Life Histories Mating Systems And Extinction

**Robert J. Fuller**



## **Evolutionary Ecology Of Birds Life Histories Mating Systems And Extinction:**

**Evolutionary Ecology of Birds** Head of Biodiversity and Macroecology and Senior Research Fellow Peter M Bennett, Peter M. Bennett, Ian P. F. Owens, Governor's Lecturer in Evolutionary Ecology and Genetics Department of Biological Sciences Ian P F Owens, 2002 Birds show bewildering diversity in their life histories mating systems and risk of extinction Why do albatrosses delay reproduction for the first 12 years of their life while zebra finches breed in their first year Why are fairy wrens so sexually promiscuous while swans show lifelong monogamy Why are over a quarter of parrot species threatened with global extinction while woodpeckers and cuckoos remain secure Some of these topics such as delayed onset of breeding in seabirds are classic problems in evolutionary ecology while others have arisen in the last decade such as genetic mating systems and extinction Birds offer a unique opportunity for investigating these questions because they are exceptionally well studied in the wild By employing phylogenetic comparative methods and a database of up to 3 000 species the authors identify the ecological and evolutionary basis of many of these intriguing questions They also highlight remaining puzzles and identify a series of challenges for future investigation This is the most comprehensive reappraisal of avian diversity since David Lack's classic Ecological Adaptations for Breeding in Birds It is also the most extensive application of modern comparative methods yet undertaken This novel approach demonstrates how an evolutionary perspective can reveal the general ecological processes that underpin contemporary avian diversity on a global scale

**Evolutionary Ecology of Birds** Louis J. Walker, 2013 A Primer of Life Histories Jeffrey A. Hutchings, 2021-09-15 Life histories can be defined as the means by which individuals or more precisely genotypes vary their age or stage specific expenditures of reproductive effort in response to genetic phenotypic and environmental correlates of survival and fecundity Life histories reflect the expression of traits most closely related to individual fitness such as age and size at maturity number and size of offspring and the timing of the expression of those traits throughout an individual's life In addition to addressing questions of fundamental importance to ecology and evolution life history research plays an integral role in species conservation and management This accessible primer encompasses the basic concepts theories and applied elements of life history evolution including patterns of trait variability underlying mechanisms of plastic evolutionary change and the practical utility of life history traits as metrics of species population recovery sustainable exploitation and risk of extinction Empirical examples are drawn from the entire spectrum of life A Primer of Life Histories is designed for readers from a broad range of academic backgrounds and experience including graduate students and researchers of ecology and evolutionary biology It will also be useful to a more applied audience of academic government researchers in fields such as wildlife biology conservation biology fisheries science and the environmental sciences **Discovering Evolutionary Ecology** Peter J. Mayhew, 2006-01-05 Why are some kinds of organism species rich and others species poor How do new species arise and why do some go extinct Why do organisms grow and behave the way they do This book provides an introduction to evolutionary

ecology the science that brings ecology and evolution together to help understand biological diversity In a concise readable format Peter Mayhew covers the entire breadth of the subject from life histories and the evolution of sex to speciation and macroecology Many emerging fields are also introduced such as metabolic ecology the evolution of population dynamics and the evolution of global ecology *Discovering Evolutionary Ecology* highlights the connections between these different subject areas and for the first time paints a picture of a truly integrated field It illustrates the research tools utilized and demonstrates how advances in one area can spur on developments elsewhere when scientists combine evolutionary and ecological knowledge To maximize accessibility the book assumes only a basic knowledge of biology includes a comprehensive glossary and contains almost no maths Each chapter provides suggestions for further reading and there is also an extensive reference list Ideal as an introduction to evolutionary ecology for undergraduates this book will also interest established researchers providing a broad and up to date context for their work

**Insect Evolutionary Ecology** Royal Entomological Society of London. Symposium, 2005 Insects provide excellent model systems for understanding evolutionary ecology They are abundant small and relatively easy to rear and these traits facilitate both field and laboratory experiments This book has been developed from the Royal Entomological Society's 22nd international symposium held in Reading in 2003 Topics include speciation and adaptation life history phenotype plasticity and genetics sexual selection and reproductive biology insect plant interactions insect natural enemy interactions and social insects

**Conn's Handbook of Models for Human Aging** Jeffrey L. Ram, P. Michael Conn, 2018-04-05 Conn's Handbook of Models for Human Aging Second Edition presents key aspects of biology nutrition factors affecting lifespan methods of age determination use in research and the disadvantages advantages of use Using a multidisciplinary approach this updated edition is designed as the only comprehensive current work that covers the diversity in aging models Chapters on comparative models explore age related diseases including Alzheimer's joint disease cataracts cancer and obesity Also included are new tricks and approaches not available in primary publications This must have handbook is an indispensable resource for researchers interested in the mechanisms of aging gerontologists health professionals allied health practitioners and students Combines both the methods of study for human aging and animal models Provides a historical overview and discussion of model availability key methods and ethical issues Contains over 200 full color illustrations

*Behavioral Ecology of Neotropical Birds* Juan Carlos Reboreda, Vanina Dafne Fiorini, Diego Tomás Tuero, 2019-04-24 This book covers central aspects of behavioral ecology including sexual selection social and genetic mating systems cooperative breeding brood parasitism brood reduction migration personalities and communication Over the past several years Neotropical bird species from temperate to tropical latitudes of South America have been extensively studied yielding valuable insights into the evolutionary mechanisms that drive their behavioral traits In this book international experts provide a general overview of main behavioral aspects They also present the main findings of their work including experimental approaches to testing the most accepted behavioral

theory in their model systems In closing they propose new theoretical frameworks and future research directions As such the book provides a comprehensive and updated guide for all researchers students and professionals whose work involves the study and management of birds across the Neotropical region

### **The Structure and Dynamics of Geographic Ranges**

Kevin J. Gaston, 2003-05-01 No species occurs everywhere Indeed the majority are absent from most places and where they do occur they are usually quite rare Gaston discusses the structure of these distributions the structure of the geographic ranges of species Gaston is particularly concerned with the factors that determine the limits to a species geographic range how the sizes of those ranges vary and patterns in that variation Also considered are the distribution of individuals amongst those sites where a species does occur and what determines that distribution and some of the practical implications of all these Both in a pure and applied context ecologists need a broader perspective on their subject matter than has historically prevailed This book provides one such perspective A must have book for any researchers and graduate students studying macroecology biogeography and conservation biology

*Birds and Habitat* Robert J. Fuller, 2012-11-08 Synthesises important concepts and issues relating to avian habitat selection drawing on examples from Europe North America and Australia

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

**Tropical Biology and Conservation Management - Volume VIII** Kleber Del Claro, Paulo S. Oliveira, Victor Rico-Gray, 2009-05-11 This

Encyclopedia of Tropical Biology and Conservation Management is a component of the global Encyclopedia of Life Support

Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Tropical environments cover the most part of still preserved natural areas of the Earth The greatest biodiversity as in terms of animals and plants as microorganisms is placed in these hot and rainy ecosystems spread up and below the Equator line Additionally the most part of food products with vegetal or animal origin that sustain nowadays human beings is direct or undirected dependent of tropical productivity Biodiversity should be looked at and evaluated not only in terms of numbers of species but also in terms of the diversity of interactions among distinct organisms that it maintains In this sense the complexity of web structure in tropical systems is a promise of future to nature preservation on Earth In the chemicals of tropical plant and animals could be the cure to infinite number of diseases new food sources and who knows what more Despite these facts tropical areas have been exploited in an irresponsible way for more than 500 years due the lack of an ecological conscience of men Exactly in the same way we did with temperate areas and also tropical areas in the north of Equator line Nowadays is estimated that due human exploitation nation conflicts and social problems less than 8% of tropical nature inside continental areas is still now untouchable The extension of damage in the tropical areas of oceans is unknown Thus so all knowledge we could accumulate about tropical systems will help us as in the preservations of these important and threatened ecosystems as in a future recuperation when it was possible Only knowing the past and developing culture mainly that directed to peace to a better relationship among nations and responsible use and preservation of natural resources human beings will have a long future on Earth These volumes Tropical Biology and Natural Resources was divided in sessions to provide the reader the better comprehension possible of issue and also to enable future complementation and improvements in the encyclopedia Like we work with life we intended to transform this encyclopedia also in a life volume in what new information could be added in any time As president of the encyclopedia and main editor I opened the theme with an article titled Tropical Biology and Natural resources Historical Pathways and Perspectives providing the reader an initial view of the origins of human knowledge about the tropical life and what we hope to the future In the sequence we have more than 100 chapters distributed in ten sessions Tropical Ecology TE Tropical Botany TB Tropical Zoology TZ Savannah Ecosystems SE Desert Ecosystems DE Tropical Agriculture TA Natural History of Tropical Plants NH Human Impact on Tropical Ecosystems HI Tropical Phytopathology and Entomology TPE Case Studies CS This 11 volume set contains several chapters each of size 5000 30000 words with perspectives applications and extensive illustrations It is the only publication of its kind carrying state of the art knowledge in the fields of Tropical Biology and Conservation Management and is aimed by virtue of the several applications at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers and NGOs

Reproductive Biology and Phylogeny of Birds.  
Part B: Sexual Selection, Behavior, Conservation, Embryology and Genetics Barrie G M Jamieson, 2007-01-02 The second part of volume 6 discusses sexual selection of ultraviolet and structural signals melanins and carotenoids as feather colorants and

signals sexual selection and auditory signaling odors and chemical signaling sexual dimorphism sexual selection signal selection and the handicap principle courtship and copulation sexual conflict and *Advances in the Study of Behavior* H. Jane Brockmann, Timothy J. Roper, Marc Naguib, Katherine E. Wynne-Edwards, Chris Barnard, John Mitani, 2011-07-29

*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 This volume reflects many of the current themes in animal behavior including the evolution of social behavior sexual selection and communication It also reflects controversial topics on which the authors provide interesting new insights *Advances in the Study of Behavior* is now available online at ScienceDirect full text online from volume 30 onwards

*The Role of Chromosomal Change in Plant Evolution* Donald A. Levin, 2002-11-28 The application of new molecular technology has greatly increased our understanding of the role of chromosomal change in plant evolution There is now a broad database on genome size variation within and among species and a wide array of nuclear and cytoplasmic genetic markers There is a variety of literatures addressing this subject but much of it is scattered This book created a contemporary synthesis of work in this area and addresses issues such as herogeneity polyploidy chromosomal rearrangements within species and phenotypic consequences of chromosome doubling

*The Gibbons* Susan Lappan, Danielle Whittaker, 2009-06-02 It is a great honor to be asked to introduce this exciting new volume having been heavily involved in the first comprehensive synthesis in the early 1980s Gibbons are the most enthralling of primates On the one hand they are the most appealing animals with their upright posture and body shape facial markings dramatic arm swinging locomotion and suspensory postures and devastating duets on the other hand the small apes are the most diverse hence biologically valuable and informative of our closest relatives It is hard for me to believe that it is 40 years to the month since I first set foot on the Malay Peninsula to start my doctoral study of the siamang I am very proud to have followed in the footsteps of the great pioneer of primate field study Clarence Ray Carpenter CR or Ray who I was fortunate to meet twice in Pennsylvania and in Zurich first in Central America in 1967 and then in Southeast Asia It is 75 years since he studied howler monkeys on Barro Colorado Island in the Panama Canal Zone It is 70 years since he studied the white handed gibbon in Thailand

**Urban Evolutionary Biology** Marta Szulkin, Jason Munshi-South, Anne Charmantier, 2020-05-05 *Urban Evolutionary Biology* fills an important knowledge gap on wild organismal evolution in the urban environment whilst offering a novel exploration of the fast growing new field of evolutionary research The growing rate of urbanization and the maturation of urban study systems worldwide means interest in the urban environment as an agent of evolutionary change is rapidly increasing We are presently witnessing the emergence of a new field of research in evolutionary biology Despite its rapid global expansion the urban environment has until now been a largely neglected study site among evolutionary

biologists With its conspicuously altered ecological dynamics it stands in stark contrast to the natural environments traditionally used as cornerstones for evolutionary ecology research Urbanization can offer a great range of new opportunities to test for rapid evolutionary processes as a consequence of human activity both because of replicate contexts for hypothesis testing but also because cities are characterized by an array of easily quantifiable environmental axes of variation and thus testable agents of selection Thanks to a wide possible breadth of inference in terms of taxa that may be studied and a great variety of analytical methods urban evolution has the potential to stand at a fascinating multi disciplinary crossroad enriching the field of evolutionary biology with emergent yet incredibly potent new research themes where the urban habitat is key Urban Evolutionary Biology is an advanced textbook suitable for graduate level students as well as professional researchers studying the genetics evolutionary biology and ecology of urban environments It is also highly relevant to urban ecologists and urban wildlife practitioners

Human Biogeography Alexander Harcourt,2012-05-02 In this innovative wide ranging synthesis of anthropology and biogeography Alexander Harcourt tells how and why our species came to be distributed around the world He explains our current understanding of human origins tells how climate determined our spread and describes the barriers that delayed and directed migrating peoples He explores the rich and complex ways in which our anatomy physiology cultural diversity and population density vary from region to region in the areas we inhabit The book closes with chapters on how human cultures have affected each other s geographic distributions how non human species have influenced human distribution and how humans have reduced the ranges of many other species while increasing the ranges of others Throughout Harcourt compares what we understand of human biogeography to non human primate biogeography

Bird Coloration Geoffrey E. Hill,Kevin J. McGraw,2006-03 In this sumptuously illustrated companion volume to Bird Coloration Volume 1 Mechanisms and Measurements the authors explain the function of the colorful displays of birds and examine the factors that shape the evolution of color signals

**The Network Challenge (Chapter 6)** Sonia Kleindorfer,James G. Mitchell,2009-05-19 Biology remains the most extensive and complex information network on the planet This chapter examines the nature of biological networks including their inherent stability and risks to their resilience After a general introduction exploring networks and biological systems this chapter reviews 1 the evolution of biological networks 2 principles that govern biological networks and 3 measures of stability productivity and efficiency in biological networks The authors use examples from food energy transfer in rainforests and coral reefs as well as the creation of a biological network through colonization in Darwin s Finches of the Galapagos Islands Research shows that while large biological networks are inherently unstable some are more stable than others

Avian Urban Ecology Diego Gil,Henrik Brumm,2014 This edited volume adopts an evolutionary framework to explore how pre existing differences in life history behaviour and physiology of birds may determine the course of their adaptation to urban habitats



## Unveiling the Magic of Words: A Report on "**Evolutionary Ecology Of Birds Life Histories Mating Systems And Extinction**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Evolutionary Ecology Of Birds Life Histories Mating Systems And Extinction**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book's central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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