

# Polygyny and Sexual Selection in Red-winged Blackbirds

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MONOGRAPHS IN BEHAVIOR AND ECOLOGY

# Polygyny And Sexual Selection In Red Winged Blackbirds

**Guillaume Favre**



## **Polygyny And Sexual Selection In Red Winged Blackbirds:**

Polygyny and Sexual Selection in Red-Winged Blackbirds William A. Searcy, Ken Yasukawa, 2014-07-14 The purpose of this book is to explain why red winged blackbirds are polygynous and to describe the effects of this mating system on other aspects of the biology of the species Polygyny is a mating system in which individual males form long term mating relationships with more than one female at a time The authors show that females choose to mate polygynously because there is little cost to sharing male parental care in this species and because females gain protection against nest predation by nesting near other females Polygyny has the effect of intensifying sexual selection on males by increasing the variance in mating success among males For females polygyny means that they will often share a male's territory with other females during the breeding season and will thus be forced to adapt to frequent female-female interactions This work reviews the results of many studies by other researchers as well as presenting the authors own results Studies of red winged blackbirds have ranged from long term investigations of reproductive success and demography to research on genetic parentage based on modern molecular methods to a variety of experimental manipulations of ecological circumstances and behavior Since the red winged blackbird is one of the best studied species of any taxa in terms of its behavior and ecology the authors have a particularly extensive body of results on which to base their conclusions Originally published in 1995 The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905

**Red-winged Blackbirds** Les D. Beletsky, Gordon H. Orians, 1996 Drawing on detailed data from their sixteen year study of red winged blackbirds in the marshes of Washington's Columbia National Wildlife Refuge Beletsky and Orians analyze the information redwings use to make breeding season decisions and the consequences these decisions have for lifetime reproductive success Because male and female redwings make different and often independent decisions males focus on territory acquisition and maintenance while females must choose when and where to nest and how much energy to invest in reproduction the authors have taken the novel approach of studying the sexes separately Using analyses of observational data combined with field experiments and game theoretical models the authors provide new insights into the complex patterns of reproductive decision making and breeding behavior in redwings This book will be of interest to all who study social animals including behavioral ecologists evolutionary biologists and ornithologists

**Sexual Selection** Malte Andersson, 2019-12-31 Bright colors enlarged fins feather plumes song horns antlers and tusks are often highly sex dimorphic Why have males in many animals evolved more conspicuous ornaments signals and weapons than females How can such traits evolve although they may reduce male survival Such questions prompted Darwin's perhaps most scientifically

controversial idea the theory of sexual selection It still challenges researchers today as they try to understand how competition for mates can favor the variety of sex dimorphic traits Reviewing theoretical and empirical work in this very active field Malte Andersson a leading contributor himself provides a major up to date synthesis of sexual selection The author describes the theory and its recent development examines models methods and empirical tests and identifies many unsolved problems Among the topics discussed are the selection and evolution of mating preferences relations between sexual selection and speciation constraints on sexual selection and sex differences in signals body size and weapons The rapidly growing study of sexual selection in plants is also reviewed This volume will interest students teachers and researchers in behavioral ecology and evolutionary biology     *Vertebrate Mating Systems* Marco Apollonio,Marco Festa-Bianchet,Danilo Mainardi,2000 This book reviews the relationship of mating systems with other aspects of vertebrate biology It presents many stimulating new perspectives and ideas on mating systems studies While many of the authors present some of their own research in all cases they underline the general relevance of their work and speculate on future directions of scientific inquiry     **The Ecology and Behavior of Amphibians** Kentwood D. Wells,2010-02-15 Consisting of more than six thousand species amphibians are more diverse than mammals and are found on every continent save Antarctica Despite the abundance and diversity of these animals many aspects of the biology of amphibians remain unstudied or misunderstood The Ecology and Behavior of Amphibians aims to fill this gap in the literature on this remarkable taxon It is a celebration of the diversity of amphibian life and the ecological and behavioral adaptations that have made it a successful component of terrestrial and aquatic ecosystems Synthesizing seventy years of research on amphibian biology Kentwood D Wells addresses all major areas of inquiry including phylogeny classification and morphology aspects of physiological ecology such as water and temperature relations respiration metabolism and energetics movements and orientation communication and social behavior reproduction and parental care ecology and behavior of amphibian larvae and ecological aspects of metamorphosis ecological impact of predation on amphibian populations and antipredator defenses and aspects of amphibian community ecology With an eye towards modern concerns The Ecology and Behavior of Amphibians concludes with a chapter devoted to amphibian conservation An unprecedented scholarly contribution to amphibian biology this book is eagerly anticipated among specialists     *Exploring Animal Behavior in Laboratory and Field* Heather Zimbler-DeLorenzo,Susan W. Margulis,2021-07-19 Exploring Animal Behavior in Laboratory and Field Second Edition provides a comprehensive manual on animal behavior lab activities This new edition brings together basic research and methods presenting applications and problem solving techniques It provides all the details to successfully run designed activities while also offering flexibility and ease in setup The exercises in this volume address animal behavior at all levels describing behavior theory application and communication Each lab provides details on how to successfully run the activity while also offering flexibility to instructors This is an important resource for students educators researchers and practitioners who want to explore and study animal

behavior The field of animal behavior has changed dramatically in the past 15 20 years including a greater use and availability of technology and statistical analysis In addition animal behavior has taken on a more applied role in the last decade with a greater emphasis on conservation and applied behavior hence the necessity for new resources on the topic Offers an up to date representation of animal behavior Examines ethics and approvals for the study of vertebrate animals Includes contributions from a large field of expertise in the Animal Behavior Society Provides a flexible resource that can be used as a laboratory manual or in a flipped classroom setting **Environmental Sex Differentiation in Fish** T. J. Pandian, 2014-12-22 Fish constitute an important natural renewable resource and any reduction in their ability to propagate as a result of human interference may have significant socioeconomic consequences The negative effect of human activity on sex differentiation and reproductive output in fish is so diverse that it has been difficult to encompass it in a single b

*Introduction to Population Biology* Dick Neal, 2019 Updated to include two new chapters a modified Part II structure more recent empirical examples and online spreadsheet simulations *Sexual Dimorphism, Sex Ratios, and Polygyny in the Red-winged Black Bird* Celia Rosalind Haigh, 1968 *Advances in the Study of Behavior*, 2000-01-18 *Advances in the Study of Behavior* Volume 29 continues to serve scientists across a wide spectrum of disciplines Focusing on new theories and research developments with respect to behavioral ecology evolutionary biology and comparative psychology these volumes foster cooperation and communications in these dense fields The aim of *Advances in the Study of Behavior* remains as it has been since the series began to serve the increasing number of scientists who are engaged in the study of animal behavior by presenting their theoretical ideas and research to their colleagues and to those in neighboring fields We hope that the series will continue its contribution to the development of the field as its intended role was phrased in the Preface to the first volume in 1965 Since that time traditional areas of animal behavior have achieved new vigor by the links they have formed with related fields and by the closer relationship that now exists between those studying animal and human subjects

*Sexual Selection* Marlene Zuk, Leigh W. Simmons, 2018-08-13 What is responsible for the differences between the sexes in so many animals from the brilliant plumage of birds of paradise to the antlers on deer And why are the traits that distinguish the sexes sometimes apparently detrimental to survival Even when they look more or less alike why do males and females sometimes behave differently Questions like these have intrigued scientists and the public alike for many years and new discoveries are showing us both how wildly variable the natural world is and how some basic principles can help explain much of that variation Like natural selection sexual selection is a process that results from differential representation of genes in successive generations Under sexual selection however the crucial characteristics that determine whether an individual reproduces depend on sexual competition rather than survival ability This Very Short Introduction considers the history of our understanding of sexual selection from Darwin's key insights to the modern day Considering the investment animals place on reproduction variation in mating systems sexual conflict and the origin of sexual dimorphism Marlene Zuk

and Leigh Simmons discuss questions such as whether females can really choose between males on aesthetic grounds and how sexual conflict is resolved in different species They conclude with a consideration of the thorny question of how and even if sexual selection theory applies to humans

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

**Evolutionary Ecology** Charles W. Fox, Derek A. Roff, Daphne J. Fairbairn, 2001-10-19 Evolutionary Ecology simultaneously unifies conceptual and empirical advances in evolutionary ecology and provides a volume that can be used as either a primary textbook or a supplemental reading in an advanced undergraduate or graduate course The focus of the book is on current concepts in evolutionary ecology and the empirical study of these concepts The editors have assembled a group of prominent biologists who have made significant contributions to this field They both synthesize the current state of knowledge and identify areas for future investigation Evolutionary Ecology will be of general interest to researchers and students in both ecology and evolutionary biology Researchers in evolutionary ecology that want an overview of the current state of the field and graduate students that want an introduction the field will find this book very valuable This volume can also be used as a primary textbook or supplemental reading in both upper division and graduate courses seminars in Evolutionary Ecology

**Ecology and Management of Blackbirds (Icteridae) in North America** George M. Linz, Michael L. Avery, Richard A. Dolbeer, 2017-09-19 Shortlisted for the 2018 TWS Wildlife Publication Awards in the edited book category The various species of new world blackbirds often intermingled in large foraging flocks and nighttime roosts collectively number in the

hundreds of millions and are a dominant component of the natural and agricultural avifauna in North America today. Because of their abundance, conspicuous flocking behavior and feeding habits, these species have often been in conflict with human endeavors. The pioneering publications on blackbirds were by F. E. L. Beal in 1900 and A. A. Allen in 1914. These seminal treatises laid the foundation for more than 1 000 descriptive and experimental studies on the life histories of blackbirds as well as their ecology and management in relation to agricultural damage and other conflicts such as caused by large winter roosting congregations. The wealth of information generated in over a century of research is found in disparate outlets that include government reports, conference proceedings, peer-reviewed journals, monographs, and books. For the first time, *Ecology and Management of Blackbirds Icteridae in North America* summarizes and synthesizes this vast body of information on the biology and life histories of blackbirds and their conflicts with humans into a single volume for researchers, wildlife managers, agriculturists, disease biologists, ornithologists, policy makers, and the public. The book reviews the life histories of red-winged blackbirds, yellow-headed blackbirds, common grackles, and brown-headed cowbirds. It provides in-depth coverage of the functional roles of blackbirds in natural and agricultural ecosystems. In doing so, this authoritative reference promotes the development of improved science-based integrated management strategies to address conflicts when resolutions are needed.

**Model Systems in Behavioral Ecology** Lee Alan Dugatkin, 2019-12-31. 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. **Sex, Color, and Mate Choice in Guppies** Anne E. Houde, 2019-12-31. The Trinidadian guppy, *Poecilia reticulata*, is well known to biologists and home aquarium enthusiasts alike. Scientists have studied guppies for most of the twentieth century. Some of the most intensive recent research has been conducted by behavioral ecologists who have found that the guppy mating system makes guppies especially useful in the

study of sexual selection and mate choice By observing guppy behavior in aquaria researchers hope to obtain new insights into how selection operates in natural populations Here Anne Houde summarizes and synthesizes the scientific work done to date relates the empirical findings on guppies to current themes in sexual selection theory and suggests new directions for future research This book describes the sexual behavior of guppies and examines how mate choice by females leads to the evolution of the conspicuous colors and the courtship displays for which guppies are widely recognized The author shows that female guppies prefer males with bright color patterns especially those with orange spots and that the mating preferences of females lead to sexual selection on both color patterns and courtship displays of males Houde s work addresses a number of areas that are of interest in sexual selection including the remarkable degree of plasticity and evolutionary lability of sexual behavior in guppies geographic variation in mating preferences possible mechanisms for the evolution of female mating preferences and the role of sexual selection in speciation In conclusion the author explores the implications of her findings for behavioral ecologists who study sexual selection in other species     Mating Systems and Strategies Stephen M. Shuster, Michael J. Wade, 2019-12-31 This book presents the first unified conceptual and statistical framework for understanding the evolution of reproductive strategies Using the concept of the opportunity for sexual selection the authors illustrate how and why sexual selection though restricted to one sex and opposed in the other is one of the strongest and fastest of all evolutionary forces They offer a statistical framework for studying mating system evolution and apply it to patterns of alternative mating strategies In doing so they provide a method for quantifying how the strength of sexual selection is affected by the ecological and life history processes that influence females spatial and temporal clustering and reproductive schedules Directly challenging verbal evolutionary models that attempt to explain reproductive behavior without quantitative reference to evolutionary genetics this book establishes a more solid theoretical foundation for the field Among the weaknesses the authors find in the existing data is the apparent ubiquity of condition dependent mating tactics They identify factors likely to contribute to the evolution of alternative mating strategies which they argue are more common than generally believed and illustrate how to measure the strength of selection acting on them Lastly they offer predictions on the covariation of mating systems and strategies consider the underlying developmental biology behind male polyphenism and propose directions for future research Informed by genetics this is a comprehensive and rigorous new approach to explaining mating systems and strategies that will influence a wide swath of evolutionary biology     **The Birds of North America** ,1992     **Animal Contests** Ian C. W. Hardy, Mark Briffa, 2013-05-30 Contests are an important aspect of the lives of diverse animals from sea anemones competing for space on a rocky shore to fallow deer stags contending for access to females Why do animals fight What determines when fights stop and which contestant wins Addressing fundamental questions on contest behaviour this volume presents theoretical and empirical perspectives across a range of species The historical development of contest research the evolutionary theory of both dyadic and multiparty contests and approaches to



experimental design and data analysis are discussed in the first chapters This is followed by reviews of research in key animal taxa from the use of aerial displays and assessment rules in butterflies and the developmental biology of weapons in beetles through to interstate warfare in humans The final chapter considers future directions and applications of contest research making this a comprehensive resource for both graduate students and researchers in the field     *The Emu* ,1995

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## **Table of Contents Polygyny And Sexual Selection In Red Winged Blackbirds**

1. Understanding the eBook Polygyny And Sexual Selection In Red Winged Blackbirds
  - The Rise of Digital Reading Polygyny And Sexual Selection In Red Winged Blackbirds
  - Advantages of eBooks Over Traditional Books
2. Identifying Polygyny And Sexual Selection In Red Winged Blackbirds
  - 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 Polygyny And Sexual Selection In Red Winged Blackbirds
  - User-Friendly Interface
4. Exploring eBook Recommendations from Polygyny And Sexual Selection In Red Winged Blackbirds
  - Personalized Recommendations
  - Polygyny And Sexual Selection In Red Winged Blackbirds User Reviews and Ratings
  - Polygyny And Sexual Selection In Red Winged Blackbirds and Bestseller Lists
5. Accessing Polygyny And Sexual Selection In Red Winged Blackbirds Free and Paid eBooks
  - Polygyny And Sexual Selection In Red Winged Blackbirds Public Domain eBooks
  - Polygyny And Sexual Selection In Red Winged Blackbirds eBook Subscription Services
  - Polygyny And Sexual Selection In Red Winged Blackbirds Budget-Friendly Options
6. Navigating Polygyny And Sexual Selection In Red Winged Blackbirds eBook Formats

- ePub, PDF, MOBI, and More
  - Polygyny And Sexual Selection In Red Winged Blackbirds Compatibility with Devices
  - Polygyny And Sexual Selection In Red Winged Blackbirds Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Polygyny And Sexual Selection In Red Winged Blackbirds
    - Highlighting and Note-Taking Polygyny And Sexual Selection In Red Winged Blackbirds
    - Interactive Elements Polygyny And Sexual Selection In Red Winged Blackbirds
  8. Staying Engaged with Polygyny And Sexual Selection In Red Winged Blackbirds
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Polygyny And Sexual Selection In Red Winged Blackbirds
  9. Balancing eBooks and Physical Books Polygyny And Sexual Selection In Red Winged Blackbirds
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Polygyny And Sexual Selection In Red Winged Blackbirds
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Polygyny And Sexual Selection In Red Winged Blackbirds
    - Setting Reading Goals Polygyny And Sexual Selection In Red Winged Blackbirds
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Polygyny And Sexual Selection In Red Winged Blackbirds
    - Fact-Checking eBook Content of Polygyny And Sexual Selection In Red Winged Blackbirds
    - 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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