

ECOLOGY AND EVOLUTION OF  
LEK MATING BEHAVIOR  
IN THE LONG-TAILED  
HERMIT HUMMINGBIRD

BY

F. GARY STILES

Escuela de Biología, Universidad de Costa Rica,  
Ciudad Universitaria, Costa Rica

AND

LARRY L. WOLF

Department of Biology, Syracuse University,  
Syracuse, New York 13210

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# Ecology Evolution Of Lek Mating Behavi

**Jacob Höglund, Rauno V. Alatalo**



## **Ecology Evolution Of Lek Mating Behavi:**

**The Evolution of Lek Mating Behavior in Lawes' Parotia (Aves: Parotia Lawesii)** Stephen Glen Pruett-Jones,1985

Advances in the Study of Behavior ,1991-05-02 Advances in the Study of Behavior

**The Oxford Handbook of**

## **Evolutionary Family Psychology**

Catherine Salmon,Todd K. Shackelford,2011-05-27 Relationships with family are

important to our emotional health and can play a significant role in our social success We need our families and yet frequently have a great difficulty understanding them Hundreds of books have been published with the goal of improving understanding and relationships among family and relationships few if any have done so with an evolutionary approach The Oxford Handbook of Evolutionary Family Psychology focuses on the reasons underlying family behavior and how a greater understanding of these factors can help us to better understand our own family behaviors Recognizing that a deeper understanding of human families can be found through an understanding of similar phenomena in other species the volume demonstrates how an understanding of family ties can inform understanding of our relationships to non kin

## **Ecology of**

## **Lianas**

Stefan Schnitzer,Frans Bongers,Robyn J. Burnham,Francis E. Putz,2014-12-31 Lianas are woody vines that were the focus of intense study by early ecologists such as Darwin who devoted an entire book to the natural history of climbing plants Over the past quarter century there has been a resurgence in the study of lianas and liana are again recognized as important components of many forests particularly in the tropics The increasing amount of research on lianas has resulted in a fundamentally deeper understanding of liana ecology evolution and life history as well as the myriad roles lianas play in forest dynamics and functioning This book provides insight into the ecology and evolution of lianas their anatomy physiology and natural history their global abundance and distribution and their wide ranging effects on the myriad organisms that inhabit tropical and temperate forests

## **Songbird Behavior and Conservation in the Anthropocene**

Darren S. Proppe,2022-01-27 Songbirds are often used as indicators of environmental health From the canary in the coalmine to shifts in demographics and population patterns birds tell us when things are not well More often than not these observable trends are a result of adaptive behavior that has evolved over many generations Understanding foundation concepts of songbird behavior including the rate at which behavioral changes occur and the limits of plasticity is a requirement for anyone interested in sustaining healthy songbird populations in the Anthropocene Yet our world is changing rapidly Can songbirds adapt quickly enough to keep up Observed declines in many species worldwide suggest that the answer is no To avoid extinction for many species our conservation strategies must be broader and more intentional For example are there ways to actively manage habitats so that vital cue response systems are kept intact Anthropogenic factors are also altering how birds select mates and habitats sometimes in ways that decrease fitness Can biologists actively manipulate behavior to mitigate these mismatches The first goal of this book is to educate academics and managers alike about the foundational behaviors that drive songbird activity and demographic patterns Topics such as migration habitat selection communication etc are

explored by renowned songbird biologist to bring the reader up to speed on the latest advancements in the field. However, each author is also versed in the principles of conservation. The second goal of this book is to explore the current issues that songbirds face in an increasingly anthropic world and to discuss the role of behavior in the development of management solutions. By broadening our conservation toolkit, we can be more prepared to manage songbird populations and communities within the environmental challenges of the Anthropocene.

*Ecological and Environmental Physiology of Birds* J. Eduardo P. W. Bicudo, William A. Buttemer, Mark A. Chappell, 2010-04. Examining avian physiology in detail, this text specifically addresses the unique physiological characteristics of birds, although experimental techniques and future research directions are also considered.

*Leks* Jacob Höglund, Rauno V. Alatalo, 1995. The evolution of leks (clusters of small territories where males congregate and display in order to attract mates) is of central issue in behavioral ecology because of the insights it offers into female mate choice, sexual selection, and the evolution of mating systems. In the first book on the subject, Jacob Höglund and Rauno Alatalo draw together existing knowledge on two main aspects of lekking: Why do leks evolve in some species and not in others? Why do females of certain lekking species select their mates even though such behavior reaps few or no material benefits for them? In each case, they emphasize the importance of understanding the selective forces that act on individuals in natural populations. Höglund and Alatalo synthesize the available information on lekking in all animal groups and suggest new areas of research. 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.

*Evolutionary Biology* Max Hecht, 2012-12-06. *Evolutionary Biology*, of which this is the eighteenth volume, continues to offer its readers a wide range of original articles, reviews, and commentaries on evolution in the broadest sense of that term. The topics of the reviews range from anthropology and behavior to molecular biology and systematics. In recent volumes, a broad spectrum of articles have appeared on such subjects as natural selection among replicating molecules, in vitro mate recognition, and the reproductive behavior of *Drosophila*, molecular systematics of Crocodylia, evolution of the monocotyledons, and the communication network made possible among even distantly related genera of bacteria by plasmids and other transposable elements. Articles such as these, often too long for standard journals, are the stuff of *Evolutionary Biology*. The editors continue to solicit manuscripts on an international scale in an effort to see that everyone of the many facets of biological evolution is covered. Manuscripts should be sent to anyone of the following: Max K. Hecht, Department of Biology, Queens College of the City University of New York, Flushing, New York 11367; Bruce Wallace, Department of Biology, Virginia Polytechnic Institute and State University, Blacksburg, Virginia 24061; Ghillian T. Prance, New York Botanical Garden, Bronx, New York 10458.

**Developmental Plasticity and Evolution** Mary Jane West-Eberhard, 2003-03-13 West Eberhard widely recognized as one of the most incisive thinkers in evolutionary biology assesses all the evidence for our current understanding of the role of changes in body plan and development for the process of speciation The process of evolution is systematically reassessed to integrate the insights coming from developmental genetics

**Advances in Ungulate Ecology** R. Terry Bowyer, Vernon Bleich, Paul Richard Krausman, Jean-Michel Gaillard, 2021-06-28 *The Evolutionary Biology of Human Female Sexuality* Randy Thornhill, Steven W. Gangestad, 2008-09-25 Research conducted in the last fifteen years has placed in question many of the traditional conclusions scholars have formed about human female sexuality Though conventional wisdom asserts that women's estrus has been evolutionarily lost Randy Thornhill and Steven W Gangestad assert that it is present though concealed Women they propose therefore exhibit two sexualities each ovulatory cycle estrus and sexuality outside of the estrous phase extended sexuality that possess distinct functions Synthesizing research in behavioral evolution and comparative biology the authors provide a new theoretical framework for understanding the evolution of human female sexuality one that is rooted in female sexuality and phylogeny across all vertebrate animals

*Ecology and Evolution of Lek Mating Behavior in the Long-tailed Hermit Hummingbird* F. Gary Stiles, Larry L. Wolf, 1979 *Mate Choice* Paul Patrick Gordon Bateson, 1983-04-28 Twenty one specially commissioned articles provide a clear picture of the current state of thinking about mate choice Brings together modern thinking on the various functions of mate choice and its role in evolution

Reproductive Biology of Bats Elizabeth G. Crichton, Philip H. Krutzsch, 2000-06-12 The Reproductive Biology of Bats presents the first comprehensive in depth review of the current knowledge and supporting literature concerning the behavior anatomy physiology and reproductive strategies of bats These mammals which occur world wide and comprise a vast assemblage of species have evolved unique and successful reproductive strategies through varied anatomical and physiological specialization These are accompanied by individual and or group behavioral interactions usually in response to environmental mechanisms essential to their reproductive success Is the first book devoted to the reproductive biology of bats Contains in depth reviews of the literature concerned with bat reproduction Contributors are widely recognized specialists Provides a powerful database for future research

The Evolutionary Biology of Flies David K. Yeates, Brian M. Wiegmann, 2005 Flies Diptera have had an important role in deepening scientists understanding of modern biology and evolution The study of flies has figured prominently in major advances in the fields of molecular evolution physiology genetics phylogenetics and ecology over the last century This volume with contributions from top scientists and scholars in the field brings together diverse aspects of research and will be essential reading for entomologists and fly researchers

*Effects of Resource Distribution on Animal Plant Interactions* Mark D. Hunter, Takayuki Ohgushi, Peter W. Price, 2012-12-02 Aimed primarily at advanced graduate students and professional biologists this book explores the degree to which animal-plant interactions are determined by plant and animal variability Many of the patterns seen in natural communities appear to

result from cascading effects up as well as down the trophic system Variability among primary producers can influence animal and plant population quality and dynamics community structure and the evolution of animal b1plant interactions

**Avian Biology** Donald S. Farner, James R. King, Kenneth C. Parkes, 2013-10-22 Avian Biology Volume VI is a compendium of papers that deals with selected aspects of avian biology One paper discusses the avian mating behavior and covers topics such as monogamy polygyny male incubation and female emancipation these papers also list a table of the species of birds in which polyandry has been observed Another paper examines bird migration in relation to the mechanism and development of migration with emphasis on the evolution and function ultimate causation of migration Another paper discusses the advantages of one form of social organization of birds during the non reproductive season over another form This paper reasons the possibility of the existence of a cost benefit social behavior Other papers discuss some physical features found in birds such as stomach oils and glycogen filled cells Another paper deals with the respiratory physiology of birds as new research data have been made available in this area This book can prove useful for investigators in avian biology zoologists and readers who have a general interest in birds

**Leks** Jacob Höglund, Rauno V. Alatalo, 2014-07-14 The evolution of leks clusters of small territories where males congregate and display in order to attract mates is of central issue in behavioral ecology because of the insights it offers into female mate choice sexual selection and the evolution of mating systems In the first book on the subject Jacob H glund and Rauno Alatalo draw together existing knowledge on two main aspects of lekking Why do leks evolve in some species and not in others Why do females of certain lekking species select their mates even though such behavior reaps few or no material benefits for them In each case they emphasize the importance of understanding the selective forces that act on individuals in natural populations H glund and Alatalo synthesize the available information on lekking in all animal groups and suggest new areas of research 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

**Insect Behavior** Alex Córdoba-Aguilar, Daniel González-Tokman, Isaac González-Santoyo, 2018-07-19 Insects display a staggering diversity of behaviors Studying these systems provides insights into a wide range of ecological evolutionary and behavioral questions including the genetics of behavior phenotypic plasticity chemical communication and the evolution of life history traits This accessible text offers a new approach that provides the reader with the necessary theoretical and conceptual foundations at different hierarchical levels to understand insect behavior The book is divided into three main sections mechanisms ecological and evolutionary consequences and applied issues The final section places the preceding chapters within a framework of current threats to human survival climate change disease and food security before

providing suggestions and insights as to how we can utilize an understanding of insect behavior to control and or ameliorate them Each chapter provides a concise authoritative review of the conceptual theoretical and methodological foundations of each topic      *Ornithology in Laboratory and Field* Olin Sewall Pettingill Jr.,2012-12-02 This new edition of *Ornithology in Laboratory and Field* continues to offer up to date coverage of the important aspects of modern ornithology Beginning with an overview of ornithology today Pettingill explores such topics as external and internal anatomy physiology ecology flight behavior migration life histories and populations

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## **Table of Contents Ecology Evolution Of Lek Mating Behavi**

1. Understanding the eBook Ecology Evolution Of Lek Mating Behavi
  - The Rise of Digital Reading Ecology Evolution Of Lek Mating Behavi
  - Advantages of eBooks Over Traditional Books
2. Identifying Ecology Evolution Of Lek Mating Behavi
  - 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 Ecology Evolution Of Lek Mating Behavi
  - User-Friendly Interface
4. Exploring eBook Recommendations from Ecology Evolution Of Lek Mating Behavi
  - Personalized Recommendations
  - Ecology Evolution Of Lek Mating Behavi User Reviews and Ratings
  - Ecology Evolution Of Lek Mating Behavi and Bestseller Lists
5. Accessing Ecology Evolution Of Lek Mating Behavi Free and Paid eBooks



- Ecology Evolution Of Lek Mating Behavi Public Domain eBooks
- Ecology Evolution Of Lek Mating Behavi eBook Subscription Services
- Ecology Evolution Of Lek Mating Behavi Budget-Friendly Options
- 6. Navigating Ecology Evolution Of Lek Mating Behavi eBook Formats
  - ePub, PDF, MOBI, and More
  - Ecology Evolution Of Lek Mating Behavi Compatibility with Devices
  - Ecology Evolution Of Lek Mating Behavi Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Ecology Evolution Of Lek Mating Behavi
  - Highlighting and Note-Taking Ecology Evolution Of Lek Mating Behavi
  - Interactive Elements Ecology Evolution Of Lek Mating Behavi
- 8. Staying Engaged with Ecology Evolution Of Lek Mating Behavi
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Ecology Evolution Of Lek Mating Behavi
- 9. Balancing eBooks and Physical Books Ecology Evolution Of Lek Mating Behavi
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Ecology Evolution Of Lek Mating Behavi
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Ecology Evolution Of Lek Mating Behavi
  - Setting Reading Goals Ecology Evolution Of Lek Mating Behavi
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ecology Evolution Of Lek Mating Behavi
  - Fact-Checking eBook Content of Ecology Evolution Of Lek Mating Behavi
  - 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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