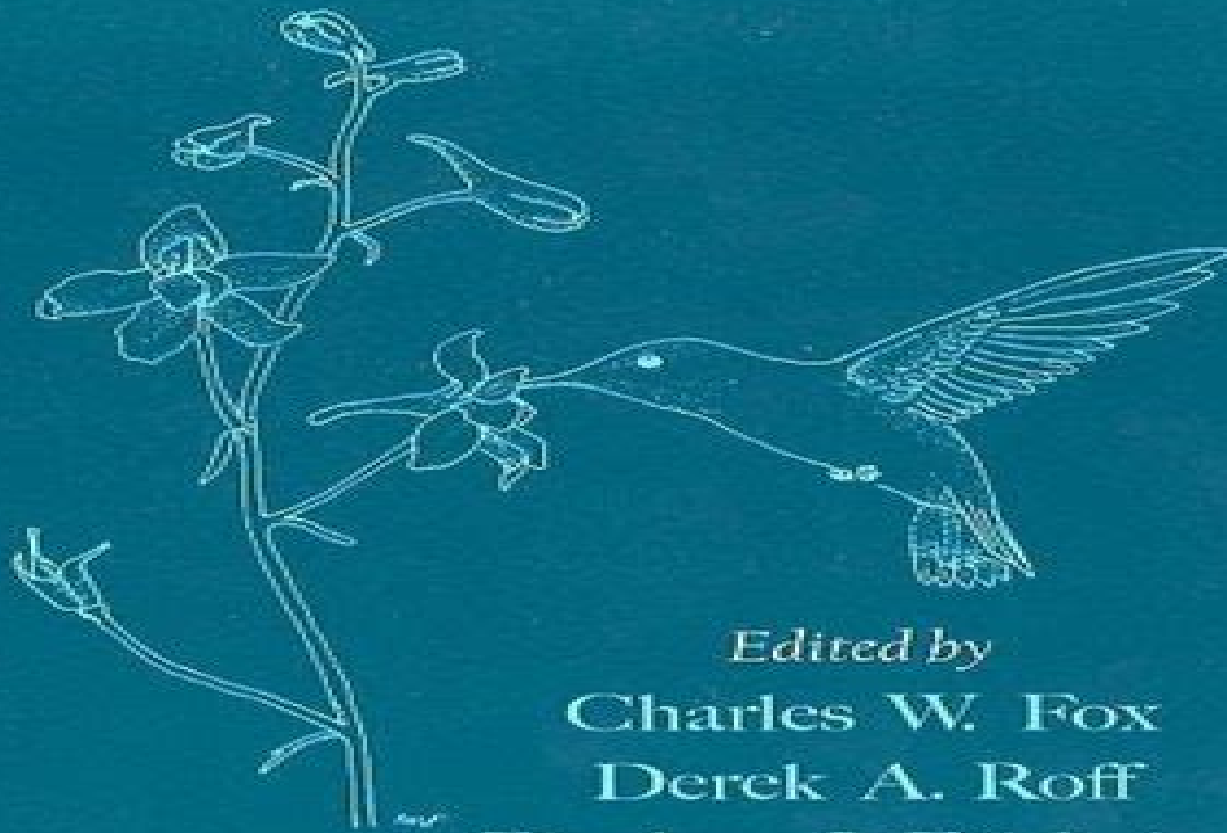


# Evolutionary Ecology

*Concepts and Case Studies*



*Edited by*

Charles W. Fox

Derek A. Roff

Daphne J. Fairbairn

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# Evolutionary Ecology Concepts And Case Studies

**Peter J. Mayhew**



## **Evolutionary Ecology Concepts And Case Studies:**

Evolutionary Ecology Charles W. Fox, Derek A. Roff, Daphne J. Fairbairn, 2001 This text unifies conceptual and empirical advances in evolutionary ecology and the focus is on current concepts in evolutionary ecology and the empirical study of these concepts The book is divided into five sections an overview of the major topics in evolutionary biology for ecologists sections on life histories behavior coevolution and adaptation to anthropogenic change Midwest **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

Evolutionary Ecology of Freshwater Animals B. Streit, T. Städler, C.M. Lively, 2013-03-11 Evolutionary ecology includes aspects of community structure trophic interactions life history tactics and reproductive modes analyzed from an evolutionary perspective Freshwater environments often impose spatial structure on populations e g within large lakes or among habitat patches facilitating genetic and phenotypic divergence Traditionally freshwater systems have featured prominently in ecological research and population biology This book brings together information on diverse freshwater taxa with a mix of critical review synthesis and case studies Using examples from bryozoans rotifers cladocerans molluscs teleosts and others the authors cover current conceptual issues of evolutionary ecology in considerable depth The book can serve as a source of critically evaluated ideas detailed case studies and open problems in the field of evolutionary ecology It is recommended for students and researchers in ecology limnology population biology and evolutionary biology *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

*Evolutionary Ecology* Charles W. Fox, Derek A. Roff, Daphne J. Fairbairn, 2001 This text unifies conceptual and empirical advances in evolutionary ecology and the focus is on current concepts in evolutionary ecology and the empirical study of these concepts The book is divided into five sections an overview of the major topics in evolutionary biology for ecologists sections on life histories behavior coevolution and adaptation to anthropogenic change Midwest **Approaches to Plant**

**Evolutionary Ecology** G.P. Cheplick, 2015-06-01 Plant evolutionary ecology is a rapidly growing discipline which emphasizes that populations adapt and evolve not in isolation but in relation to other species and abiotic environmental features such as climate Although it departs from traditional evolutionary and ecological fields of study the field is connected to branches of ecology genetics botany conservation and to a number of other fields of applied science primarily through shared concepts and techniques However most books regarding evolutionary ecology focus on animals creating a substantial need for scholarly literature with an emphasis on plants *Approaches to Plant Evolutionary Ecology* is the first book to specifically explore the evolutionary characteristics of plants filling the aforementioned gap in the literature on evolutionary ecology Renowned plant ecologist Gregory P Cheplick summarizes and synthesizes much of the primary literature regarding evolutionary ecology providing a historical context for the study of plant populations from an evolutionary perspective The book also provides summaries of both traditional common gardens reciprocal transplants and modern molecular genetic approaches used to address questions about plant adaptation to a diverse group of abiotic and biotic factors Cheplick provides a rigorously written introduction to the rapidly growing field of plant evolutionary ecology that will appeal to undergraduate and graduate students with an interest in ecology and evolution as well as educators who are teaching courses on related topics **Evolutionary Ecology of Parasites** Robert Poulin, 2011-06-27 Parasites have evolved

independently in numerous animal lineages and they now make up a considerable proportion of the biodiversity of life Not only do they impact humans and other animals in fundamental ways but in recent years they have become a powerful model system for the study of ecology and evolution with practical applications in disease prevention Here in a thoroughly revised and updated edition of his influential earlier work Robert Poulin provides an evolutionary ecologist's view of the biology of parasites He sets forth a comprehensive synthesis of parasite evolutionary ecology integrating information across scales from the features of individual parasites to the dynamics of parasite populations and the structuring of parasite communities *Evolutionary Ecology of Parasites* presents an evolutionary framework for the study of parasite biology combining theory

with empirical examples for a broader understanding of why parasites are as they are and do what they do An up to date synthesis of the field the book is an ideal teaching tool for advanced courses on the subject Pointing toward promising directions and setting a research agenda it will also be an invaluable reference for researchers who seek to extend our knowledge of parasite ecology and evolution

*Epidemiology* Nuno Lunet, 2012-03-13 This special issue resulted from the invitation made to selected authors to contribute with an overview of a specific subject of their choice and is based on a collection of papers chosen to exemplify some of the interests uses and views of the epidemiology across different areas of research and practice Rather than the comprehensiveness and coherence of a conventional textbook readers will find a set of independent chapters each of them of a great interest in their own specialized areas within epidemiology Taken together they illustrate the contrast between the attempt to extend the limits of applicability of epidemiological research and the regular scientific activity in this field or an applied epidemiology Epidemiologists with different levels of expertise and interests will be able to find informative and inspiring readings among the chapters of this book

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*Agroecology* Stephen R. Gliessman, 2021-02-25 Stephen Gliessman s complementary volumes *Agroecology The Ecology of Sustainable Food Systems Third Edition* and *Field and Laboratory Investigations in Agroecology Third Edition* are now available together for one low price Completely revised updated and reworked the third edition of *Agroecology* presents new data material case studies and options as well as more emphasis on topics such as the values beliefs and ethics of sustainable food systems The new edition of *Field and Laboratory Investigations in Agroecology* facilitates hands on experimental learning that involves close observation creative interpretation and constant questioning of findings

**Pillars of Evolution**

Douglas W. Morris, Per Lundberg, 2011-07-14 *Pillars of Evolution* provides a fresh and provocative perspective on adaptive evolution Readers new to the study of evolution will find a refreshing new insight that establishes evolutionary biology as a rigorous and predictive science whilst practicing biologists will discover a provocative book that challenges traditional approaches The book begins by leading readers through the mechanics of heredity reproduction movement survival and development With that framework in place it then explores the numerous ways that traits emerge from the interactions between genetics development and the environment The key message is that adaptive changes in traits and their underlying allelic frequencies evolve through the traits functions and their connection with fitness The complex mappings from genes to traits to fitness are characterized in the structure of evolution A single structure matrix describes why individuals vary in the values of adaptive traits their ability to perform the function of those traits and in the fitness they accrue Fitness depends on how organisms interact with and perceive their environment in time and space These relationships are made explicit in spatial temporal and organizational scale that also sets the stage for the crucially important role that ecology always plays in evolution The ecological hallmarks of density and frequency dependent interactions allow the authors to explore new and exciting insights into evolution s dynamics The theories and principles are then brought together in a final synthesis on

adaptation The book's unique approach unites genetic development and environmental influences into a single comprehensive treatment of the eco evolutionary process      The Geographic Mosaic of Coevolution John N.

Thompson,2005-06-15 Coevolution reciprocal evolutionary change in interacting species driven by natural selection is one of the most important ecological and genetic processes organizing the earth's biodiversity most plants and animals require coevolved interactions with other species to survive and reproduce The Geographic Mosaic of Coevolution analyzes how the biology of species provides the raw material for long term coevolution evaluates how local coadaptation forms the basic module of coevolutionary change and explores how the coevolutionary process reshapes locally coevolving interactions across the earth's constantly changing landscapes Picking up where his influential The Coevolutionary Process left off John N Thompson synthesizes the state of a rapidly developing science that integrates approaches from evolutionary ecology population genetics phylogeography systematics evolutionary biochemistry and physiology and molecular biology Using models data and hypotheses to develop a complete conceptual framework Thompson also draws on examples from a wide range of taxa and environments illustrating the expanding breadth and depth of research in coevolutionary biology

**Evolutionary Ecology of Plant-Herbivore Interaction** Juan Núñez-Farfán, Pedro Luis Valverde,2020-07-30 Plant herbivore interactions are a central topic in evolutionary ecology Historically their study has been a cornerstone for coevolutionary theory Starting from classic ecological studies at the phenotypic level it has since expanded to molecular and genomic approaches After a historical perspective the book's subsequent chapters cover a wide range of topics from populations to ecosystems plant and herbivore focused studies in natural and in man modified ecosystems and both micro and macro evolutionary levels All chapters include valuable background information and empirical evidence Given its scope the book will be of interest to both students and researchers and will hopefully stimulate further research in this exciting field of evolutionary biology      **The Evolution of Personality and Individual Differences** David M. Buss,2011 Capturing a scientific change in thinking about personality and individual differences this volume provides theories and empirical evidence which suggest that personality and individual differences are central to evolved psychological mechanisms and behavioural functioning      *Manual of Environmental Microbiology* Cindy H. Nakatsu, Robert V. Miller, Suresh D.

Pillai,2020-08-11 The single most comprehensive resource for environmental microbiology Environmental microbiology the study of the roles that microbes play in all planetary environments is one of the most important areas of scientific research The Manual of Environmental Microbiology Fourth Edition provides comprehensive coverage of this critical and growing field Thoroughly updated and revised the Manual is the definitive reference for information on microbes in air water and soil and their impact on human health and welfare Written in accessible clear prose the manual covers four broad areas general methodologies environmental public health microbiology microbial ecology and biodegradation and biotransformation This wealth of information is divided into 18 sections each containing chapters written by acknowledged topical experts from the

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**Strickberger's Evolution** Brian Hall, Benedikt Hallgrímsson, 2008 Thoroughly updated and reorganized Strickberger's Evolution Fourth Edition presents biology students with a basic introduction to prevailing knowledge and ideas about evolution discussing how why and where the world and its organisms changed throughout history Keeping consistent with Strickberger's engaging writing style the authors carefully unfold a broad range of philosophical and historical topics that frame the theories of today including cosmological and geological evolution and its impact on life the origins of life on earth the development of molecular pathways from genetic systems to organismic morphology and function the evolutionary history of organisms from microbes to animals and the numerous molecular and populational concepts that explain the earth's dynamic evolution

**Encyclopedia of Ecology** Brian D. Fath, 2014-11-03 The groundbreaking Encyclopedia of Ecology provides an authoritative and comprehensive coverage of the complete field of ecology from general to applied It includes over 500 detailed entries structured to provide the user with complete coverage of the core knowledge accessed as intuitively as possible and heavily cross referenced Written by an international team of leading experts this revolutionary encyclopedia will serve as a one stop shop to concise stand alone articles to be used as a point of entry for undergraduate students or as a tool for active researchers looking for the latest information in the field Entries cover a range of topics including Behavioral Ecology Ecological Processes Ecological Modeling Ecological Engineering Ecological Indicators Ecological Informatics Ecosystems Ecotoxicology Evolutionary Ecology General Ecology Global Ecology Human Ecology System Ecology The first reference work to cover all aspects of ecology from basic to applied Over 500 concise stand alone articles are written by prominent leaders in the field Article text is supported by full color photos drawings tables and other visual material Fully indexed and cross referenced with detailed references for further study Writing level is suited to both the expert and non expert Available electronically on ScienceDirect shortly upon publication

*Behavioural Responses to a Changing World* Ulrika Candolin, Bob B.M. Wong, 2012-06-14 Species are typically adapted to the local environmental conditions in which they have evolved

**Evolution Illuminated** Andrew P. Hendry, Stephen C. Stearns, 2004 This work gives a critical overview on the evolution and population biology of salmon and their relatives It should appeal to investigators in each of the scientific disciplines it integrates evolutionary biology ecology salmonid biology management and conservation Variation in salmonids can be used to illustrate virtually all evolution

**Foundations of Economic Evolution** Carsten Herrmann-Pillath, 2013-01-01 This book

is an ambitious intellectual enterprise to build a naturalistic foundation for economics with amazingly vast knowledge of physical biological social sciences and philosophy Readers will discover that approaches and insights emergent in institutional studies social neuroscience network theory ecological economics bio culture dualistic evolution etc are persuasively placed in a grand unified frame It is written in a good Hayekian tradition I recommend this book particularly to young readers who aspire to go beyond a narrowly specified discipline in the age of expanding communicability of knowledge and ideas Masahiko Aoki Stanford University US Carsten Herrmann Pillath s new book is an in depth application of natural philosophy to economics that draws up an entirely new framework for economic analysis It offers path breaking insights on the interactions between human economic activity and nature and outlines a convincing solution to the long standing reductionism controversy A must read for everyone interested in the philosophical underpinnings of economics as a science Ulrich Witt Max Planck Institute of Economics Jena Germany Big picture philosophy of economics drifted into a dull cul de sac as it became obsessively focused on falsifiability and rationality In this book Carsten Herrmann Pillath pushes the field back onto the open highway by locating economics in the larger frameworks of metaphysics evolutionary dynamics and information theory This is large scale ambitious synthesis of ideas of the kind we expect from time to time to see devoted to physics and biology Why should economics merit anything less But of course this kind of intellectual tapestry must await the appearance of an unusually devoted scholar with special patience and eccentric independence from the pressure for quick returns that characterizes academic life In the person of Hermann Pillath this scholar has appeared No one who wants to examine economics whole and in its richest context should miss his virtuoso performance in this book Don Ross University of Cape Town South Africa and Georgia State University US Herrmann Pillath s work attempts to bring to bear upon the discipline of economics perspectives from other discourses which have been burgeoning recently namely thermodynamics evolutionary biology and semiotics aiming at a consilience contextualized by economic activity and problems This marks the work as a contemporary example of natural philosophy which is now at the doorstep of a revival The overall perspective is that human economic activity is an aspect of the ecology of the earth s surface viewing it as an evolving physical system mediated through distributed mentality as expressed in technology evolution Knowledge is taken to be physical with a performative function as in Peirce s pragmatism Thus the social meanings of expectations prices and credit are found to be rooted in energy flows The work draws its foundation from Hegel and C S Peirce and its immediate guidance from Hayek Veblen and Georescu Roegen The author generates an energetic theory of economic growth guided by Odum s maximum power principle Economic discourse itself is reworked in the final chapter in light of the examinations of the previous chapters naturalizing economics within an extremely powerful contemporary framework Stanley N Salthe Binghamton University US An Oscar winning performance in the theatre of consilience It s hard to know which to praise first Carsten Herrmann Pillath s humility or his ambition He says his book is not a great intellectual feat because he pursues the humble

task of putting together the ideas of others When he finally gets to economics he tries to be as simple as possible and to conceive of economics in terms of the basics at undergraduate level so to say On the other hand the scale of his ambition is to rethink the foundations of economics from first principles while at the same time holding a running dialogue between contemporary sciences and classic philosophy He is much too modest of course because Foundations is a major achievement but his modesty points to what makes it such a powerful treatise the book is not about his preferences or prejudices it is a scientific approach that aims at establishing truthful propositions about reality That is much harder to achieve than grand theories or complicated mathematics because it amounts to a new modern synthesis of the field an achievement on a par with Julian Huxley's whose own modern synthesis of evolutionary theories in the 1940s allowed for the explosive growth of the biosciences over the next decades The structure of the book is simple enough providing a framework for the naturalistic turn in economics Starting from material existence causation and evolution Herrmann Pillath takes us through four fundamental concepts individuals networks institutions and technology before coming finally to the realm of economics proper i.e. markets However Herrmann Pillath believes that the foundations of economics cannot be found within economics but only in dialogue with other sciences or what he calls the theatre of consilience It is a theatre in which various characters come and go where dialogue ebbs and flows conflicts arise and are resolved and where individual actions can be seen as concepts as leading to higher levels of meaning as the plot unfolds The magic of theatre of course is that the point of intelligibility where the characters' actions and narrative resolve into meaningfulness is projected out of the drama itself into the spectator That is you dear reader So it is with economics as a discipline Economics is a player in a much larger performance about what constitutes knowledge and how we know that It is also a player in the economy it seeks to explain To understand why money firms growth prices markets and other staples of economic thought emerge and function the way they do it is necessary to situate the analysis beyond economics and the economy and to engage with developments across the human evolutionary and complexity sciences This is what Herrmann Pillath does analyzing a breathtaking range of illuminating and sometimes challenging work along the way We are treated to new ideas about the externalized brain the evolution of knowledge in the Earth System i.e. not just among humans the role of signs and performativity in these processes as well as that of energetic transformations But Herrmann Pillath is not satisfied with the modest task of bringing the best of modern scientific thought to bear on economic concepts and performances he really does harbor a deeper purpose The clue is in his apparently quixotic desire to hang on to philosophical insights associated with pre-evolutionary thinkers like Aristotle and Hegel and his apparently eccentric desire to place the semiotic philosophy of C. S. Pierce at center stage But the patient observer will see that he is not seeking to change the facts by imposing idealist notions on them after the event Instead he is arguing for a change in the way we perform ourselves in the face of these facts He is looking for a modern day equivalent of Confucius or Socrates one who can imagine values and beliefs that define the human species in a new way For those who have eyes to see

as the drama unfolds it may be that we have found such a figure in Carsten Herrmann Pillath himself modesty ambition and all This is Cultural Science as it should be done John Hartley Curtin University Australia and Cardiff University UK

Behavior of Lizards Vincent Bels,Anthony Russell,2019-02-06 Key features Presents a contemporary snapshot of the mechanisms underlying the evolution and adaptation of behavior Explores how genetics epigenetics development and environment shape behavior Discusses a broad range of behavioral repertoires and responses including those related to thermoregulatory foraging predatory displaying social and escape strategies Examines physiological and sensory mechanisms Covers the effects of various aspects of global change on behavior with chapters that focus on the impacts of climate change on hydoregulatory behavior and behavioral responses to the effects of habitat alteration resulting from human mediated change and colonization by invasive species Lizards serve as focal organisms for many of biological questions related to evolution ecology physiology and morphology They are studied at multiple spatial and temporal scales from the individual to the community level This book authored by expert contributors from around the world explores behaviors underlying the evolution and adaptation of these organisms It covers conceptual empirical and methodological approaches to the understanding of the role that natural and sexual selection play in molding the behavioral traits of lizards This thorough illustrated reference should stimulate discussion of the conceptual and methodological approaches for studying the behavioral traits of these fascinating and highly diverse vertebrates

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