

# Principles Of Animal Behavior Dugatkin

## 3rd Edition

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since the last edition of this definitive textbook was published in 2013 much has happened in the field of animal behavior in this fourth edition lee alan dugatkin draws on cutting edge new work not only to update and expand on the studies presented but also to reinforce the previous editions focus on ultimate and proximate causation as well as the book s unique emphasis on natural selection learning and cultural transmission the result is a state of the art textbook on animal behavior that explains underlying concepts in a way that is both scientifically rigorous and accessible to students each chapter in the book provides a sound theoretical and conceptual basis upon which the empirical

studies rest a completely new feature in this edition are the cognitive connection boxes in chapters 2-17 designed to dig deep into the importance of the cognitive underpinnings to many types of behaviors each box focuses on a specific issue related to cognition and the particular topic covered in that chapter as principles of animal behavior makes clear the tapestry of animal behavior is created from weaving all of these components into a beautiful whole with dugatkin's exquisitely illustrated comprehensive and up to date fourth edition we are able to admire that beauty anew

principles of animal behavior has long been considered the most current and engaging introduction to animal behavior the third edition is now also the most comprehensive and balanced in its approach to the theoretical framework behind how biologists study behavior

the most balanced comprehensive and current animal behavior text available

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here biologist lee dugatkin outlines four paths to cooperation shared by humans and other animals family dynamics reciprocal transactions or tit for tat so called selfish teamwork and group altruism he draws on a wealth of examples from babysitting among mongooses and food sharing among vampire bats to cooperation in hutterite communities and on kibbutzim to show not only that cooperation exists throughout the animal kingdom but how an understanding of the natural history of altruism might foster our own best instincts toward our fellow humans

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game theory has revolutionized the study of animal behavior the fundamental principle of evolutionary game theory that the strategy adopted by one individual depends on the strategies exhibited by others has proven a powerful tool in uncovering the forces shaping otherwise mysterious behaviors in this volume the first since 1982 devoted to evolutionary game theory leading researchers describe applications of the theory to diverse types of behavior providing an overview of recent discoveries and a synthesis of current research the volume begins with a clear introduction to game theory and its explanatory scope this is followed by a series of chapters on the use of game theory to understand a range of behaviors social foraging cooperation animal contests

communication reproductive skew and nepotism within groups sibling rivalry alternative life histories habitat selection trophic level interactions learning and human social behavior in addition the volume includes a discussion of the relations among game theory optimality and quantitative genetics and an assessment of the overall utility of game theory to the study of social behavior presented in a manner accessible to anyone interested in animal behavior but not necessarily trained in the mathematics of game theory the book is intended for a wide audience of undergraduates graduate students and professional biologists pursuing the evolutionary analysis of animal behavior

incorporating essential revisions to reflect the latest scientific advancements a celebrated author and scientist offers a leading textbook on animal behavior so much has happened in the field of animal behavior since the last edition of this definitive textbook was published in 2020 in this fifth edition lee alan dugatkin continues to draw on cutting edge new research not only to update and expand on the studies presented but also to reinforce the previous editions focus on ultimate and proximate causation as well as the book s unique emphasis on natural selection learning and cultural transmission in nonhuman animals the result is an essential update to the leading textbook on animal behavior that explains underlying concepts accessibly and with scientific rigor completely new features include anthropogenic connection boxes humans are changing the planet we are clearing forests polluting the oceans irrigating deserts poisoning the soils and driving a dramatic increase in global temperatures all of these changes alter both the habitats where animals live and the species themselves as they evolve in response to our impact on their surroundings students will dig deep into how anthropogenic evolution affects animal behavior social network connection boxes researchers have discovered that social networks play a critical role in almost every aspect of animal life what they eat how they protect themselves who they mate with the dynamics of parent offspring relations aggression navigation communication play cooperation culture and more students will discover how social network studies enrich our understanding of the wondrous complexity of animal behavior as principles of animal behavior makes clear the tapestry of animal behavior is created by weaving all of these components into a beautiful whole in this lavishly illustrated comprehensive and up to date edition we can admire that beauty anew

chart a path to power weigh costs and benefits assess thy rivals watch and be watched build alliances cement the hold survive the battles rise and fall

game theory has reshaped the study of animal behaviour with this book the editors present an overview of game theory models their uses and their strengths and weaknesses

the study of animal cognition has been largely confined to birds and mammals a historical bias which has led to the belief that learning plays little or no part in the development of behaviour in fishes and reptiles research in recent decades

has begun to redress this misconception and it is now recognised that fishes exhibit a rich array of sophisticated behaviour with impressive learning capabilities entirely comparable with those of mammals and other terrestrial animals in this fascinating book an international team of experts have been brought together to explore all major areas of fish learning including foraging skills predator recognition social organisation and learning welfare and pain fish cognition and behavior is an important contribution to all fish biologists and ethologists and contains much information of commercial importance for fisheries managers and aquaculture personnel libraries in universities and research establishments will find it an important addition to their shelves

the first book to tell the grand story of animal communication to the lay reader and to reveal unique insights into how systems of communication in the animal kingdom may have provided the foundation for our own language

the fifty seven original essays in this book provide a comprehensive overview of the interdisciplinary field of animal cognition the contributors include cognitive ethologists behavioral ecologists experimental and developmental psychologists behaviorists philosophers neuroscientists computer scientists and modelers field biologists and others the diversity of approaches is both philosophical and methodological with contributors demonstrating various degrees of acceptance or disdain for such terms as consciousness and varying degrees of concern for laboratory experimentation versus naturalistic research in addition to primates particularly the nonhuman great apes the animals discussed include antelopes bees dogs dolphins earthworms fish hyenas parrots prairie dogs rats ravens sea lions snakes spiders and squirrels the topics include but are not limited to definitions of cognition the role of anecdotes in the study of animal cognition anthropomorphism attention perception learning memory thinking consciousness intentionality communication planning play aggression dominance predation recognition assessment of self and others social knowledge empathy conflict resolution reproduction parent young interactions and caregiving ecology evolution kin selection and neuroethology

the history of biology is populated by numerous model species or organisms but few vertebrate groups have aided evolutionary and ecological research more than the live bearing fishes of the family poeciliidae found throughout tropical and subtropical waters poeciliids exhibit a fascinating variety of reproductive specializations including viviparity matrotrophy unisexual reproduction and alternative mating strategies making them ideal models for research on patterns and processes in ecology behavior and evolution ecology and evolution of poeciliid fishes is a much needed overview of the scientific potential and understanding of these live bearing fishes chapters by leading researchers take up a wide range of topics including the evolution of unisexual reproduction life in extreme environments life history evolution and genetics designed to provide a single and highly approachable reference ecology and evolution of poeciliid fishes will appeal to students and specialists interested in all aspects of

## evolutionary ecology

revised and updated containing over 5 000 entries with over 1 100 more entries than in the previous edition animal behavior desk reference second edition a dictionary of behavior ecology and evolution provides definitions for terms in animal behavior biogeography evolution ecology genetics psychology statistics systematics and other related sciences formatted like a standard dictionary this reference presents definitions in a quick and easy to use style for each term where applicable you receive multiple definitions listed chronologically term hierarchies summarized in tables definition sources directives that show where a concept is defined under a synonymous name and concepts related to focal ones non technical and obsolete definitions pronunciations of selected terms common denominator entries synonyms classifications of organisms and descriptions of many taxa organizations related to animal behavior ecology evolution and related sciences still the most complete work of its kind animal behavior desk reference second edition a dictionary of behavior ecology and evolution will improve your scientific communication particularly in the fields of animal behavior evolution ecology and related branches of biology if you are a teacher student writer or active in science in any way this book will prove to be one of your most valuable resources

commitment is at the core of social life the social fabric is woven from promises and threats that are not always immediately advantageous to the parties involved many commitments such as signing a contract are fairly straightforward deals in which both parties agree to give up certain options other commitments such as the promise of life long love or a threat of murder are based on more intangible factors such as human emotions in evolution and the capacity for commitment distinguished researchers from the fields of economics psychology ethology anthropology philosophy medicine and law offer a rich variety of perspectives on the nature of commitment and question whether the capacity for making assessing and keeping commitments has been shaped by natural selection game theorists have shown that players who use commitment strategies by learning to convey subjective offers and to gauge commitments others are willing to make achieve greater success than those who rationally calculate every move for immediate reward evolution and the capacity for commitment includes contributions from some of the pioneering students of commitment their elegant analyses highlight the critical role of reputation building and show the importance of investigating how people can believe that others would carry out promises or threats that go against their own self interest other contributors provide real world examples of commitment across cultures and suggest the evolutionary origins of the capacity for commitment perhaps nowhere is the importance of commitment and reputation more evident than in the institutions of law medicine and religion essays by professionals in each field explore why many practitioners remain largely ethical in spite of manifest opportunities for client exploitation finally evolution and the capacity for commitment turns to leading animal behavior experts to explore

whether non humans also use commitment strategies most notably through the transmission of threats or signs of non aggression such examples illustrate how such tendencies in humans may have evolved viewed as an adaptive evolutionary strategy commitment offers enormous potential for explaining complex and irrational emotional behaviors within a biological framework evolution and the capacity for commitment presents compelling evidence for this view and offers a potential bridge across the current rift between biology and the social sciences a volume in the russell sage foundation series on trust

designed for a one semester introductory course in animal behavior animal behavior is a broad discipline with investigators and contributions from diverse perspectives including anthropology comparative psychology ecology ethology physiology and zoology the authors goal in this textbook is to use evolutionary principles as a unifying theme to provide students exposure to a number of approaches to the field of animal behavior they also demonstrate that the varied perspectives used to study behavior are complementary and often integrated they are not mutually exclusive the subtitle mechanisms ecology and evolution reflects the broad themes that dominate the book

combines accessible prose with solid science wall street journal demonstrates that whatever creature you are from a giraffe to a tasmanian devil life is all about who you know new scientist fascinating easily the most intriguing thorough explanation of animal behavior ever produced library journal starred review this book makes a fitting companion to ed yong s an immense world an entertaining tour of what we learn as we eavesdrop on the non human conversations all around us kirkus reviews terrific booklist an engaging exploration of the wondrous social webs that permeate life in animal societies around the world it s all about who you know whether vampire bats sharing blood meals for survival field crickets remembering champion fighters macaque monkeys forming grooming pacts after a deadly hurricane or great tit birds learning the best way to steal milk it pays to be well connected in this tour of the animal kingdom evolutionary biologist lee alan dugatkin reveals a new field of study uncovering social networks that existed long before the dawn of human social media he accessibly describes the latest findings from animal behavior evolution computer science psychology anthropology genetics and neurobiology and incorporates interviews and insights from researchers he finds swimming with manta rays avoiding pigeon poop and stopping monkeys from stealing ipads with dugatkin as our guide we investigate social networks in giraffes elephants kangaroos tasmanian devils whales bats and more from animal networks in australia and asia to africa europe and the americas the well connected animal is an eye opening exposé of wild friends enemies and everything in between

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