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Dr. Dugatkin is the author of over 145 articles on evolution and behavior in journals such as *Nature* and *The Proceedings of the National Academy of Sciences* and several trade monographs on the evolution of cooperation and the history of science. He is also the author of *Principles of Animal Behavior*, Second Edition.

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contribution to the study of animal behavior. These contributions have enabled ethologists to draw on a rich trove of information that has greatly expanded our understanding of animal behavior (Figure 1.4). Aristotle's work on animals, for example, though 2,500 years old, is a treasure chest of ethological tidbits.

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Overview. 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.

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Principles of Animal Behavior

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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, Second Edition, builds on the first edition's reputation as a contemporary and forward-looking text with several distinct features: balanced coverage of proximate and ultimate factors, bolstered by a significant expansion of proximate coverage in the new edition through coverage of phylogeny and animal behavior has been added to the book's integrated view of natural selection, learning, and cultural transmission a focus on current research and the process of science through interviews with prominent researchers at the end of every chapter.

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Evolution presents foundational concepts through a contemporary framework of population genetics and phylogenetics that is enriched by current research and stunning art. In every chapter, new critical thinking questions and expanded end-of-chapter problems emphasizing data interpretation reinforce the Second Edition's focus on helping students think like evolutionary biologists.

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.

In a world supposedly governed by ruthless survival of the fittest, why do we see acts of goodness in both animals and humans? This problem plagued Charles Darwin in the 1850s as he developed his theory of evolution through natural selection. Indeed, Darwin worried that the goodness he observed in nature could be the Achilles heel of his theory. Ever since then, scientists and other thinkers have engaged in a fierce debate about the origins of goodness that has dragged politics, philosophy, and religion into what remains a major question for evolutionary biology. The Altruism Equation traces the history of this debate from Darwin to the present through an extraordinary cast of characters-from the Russian prince Petr Kropotkin, who wanted to base society on altruism, to the brilliant biologist George Price, who fell into poverty and succumbed to suicide as he obsessed over the problem. In a final surprising turn, William Hamilton, the scientist who came up with the equation that reduced altruism to the cold language of natural selection, desperately hoped that his theory did not apply to humans. Hamilton's Rule, which states that relatives are worth helping in direct proportion to their blood relatedness, is as fundamental to evolutionary biology as Newton's laws of motion are to physics. But even today, decades after its formulation, Hamilton's Rule is still hotly debated among those who cannot accept that goodness can be explained by a simple mathematical formula. For the first time, Lee Alan Dugatkin brings to life the people, the issues, and the passions that have surrounded the altruism debate. Readers will be swept along by this fast-paced tale of history, biography, and scientific discovery.

Animal Behavior, Second Edition, covers the broad sweep of animal behavior from its neurological underpinnings to the importance of behavior in conservation. The authors, Michael Breed and Janice Moore, bring almost 60 years of combined experience as university professors to this textbook, much of that teaching animal behavior. An entire chapter is devoted to the vibrant new field of behavior and conservation, including topics such as social behavior and the relationship between parasites, pathogens, and behavior. Thoughtful coverage has also been given to foraging behavior, mating and parenting behavior, anti-predator behavior, and learning. This text addresses the physiological foundations of behavior in a way that is both accessible and inviting, with each chapter beginning with learning objectives and ending with thought-provoking questions. Additionally, special terms and definitions are highlighted throughout. Animal Behavior provides a rich resource for students (and professors) from a wide range of life science disciplines. Provides a rich resource for students and professors from a wide range of life science disciplines Updated and revised chapters, with at least 50% new case studies and the addition of contemporary in-text examples Expanded and updated coverage of animal welfare topics Includes behavior and homeostatic mechanisms, behavior and conservation, and behavioral aspects of disease Available lab manual with fully developed and tested laboratory exercises Companion website includes newly developed slide sets/templates (PowerPoints) coordinated with the book

Tucked away in Siberia, there are furry, four-legged creatures with wagging tails and floppy ears that are as docile and friendly as any lapdog. But, despite appearances, these are not dogs--they are foxes. They are the result of the most astonishing experiment in breeding ever undertaken--imagine speeding up thousands of years of evolution into a few decades. In 1959, biologists Dmitri Belyaev and Lyudmila Trut set out to do just that, by starting with a few dozen silver foxes from fox farms in the USSR and attempting to recreate the evolution of wolves into dogs in real time in order to witness the process of domestication. This is the extraordinary, untold story of this remarkable undertaking. Most accounts of the natural evolution of wolves place it over a span of about 15,000 years, but within a decade, Belyaev and Trut's fox breeding experiments had resulted in puppy-like foxes with floppy ears, piebald spots, and curly tails. Along with these physical changes came genetic and behavioral changes, as well. The foxes were bred using selection criteria for tameness, and with each generation, they became increasingly interested in human companionship. Trut has been there the whole time, and has been the lead scientist on this work since Belyaev's death in 1985, and with Lee Dugatkin, biologist and science writer, she tells the story of the adventure, science, politics, and love behind it all. In *How to Tame a Fox*, Dugatkin and Trut take us inside this path-breaking experiment in the midst of the brutal winters of Siberia to reveal how scientific history is made and continues to be made today. To date, fifty-six generations of foxes have been domesticated, and we continue to learn significant lessons from them about the genetic and behavioral evolution of domesticated animals. *How to Tame a Fox* offers an incredible tale of scientists at work, while also celebrating the deep attachments that have brought humans and animals together throughout time.