Unnatural Selection

KATRINA van GROUW

*Unnatural Selection* is a stunningly illustrated book about selective breeding—the ongoing transformation of animals at the hand of man. More important, it’s a book about selective breeding on a far, far grander scale—a scale that encompasses all life on Earth. We’d call it evolution.

A unique fusion of art, science, and history, this book celebrates the 150th anniversary of Charles Darwin’s monumental work *The Variation of Animals and Plants under Domestication*, and is intended as a tribute to what Darwin might have achieved had he possessed that elusive missing piece to the evolutionary puzzle—the knowledge of how individual traits are passed from one generation to the next. With the benefit of a century and a half of hindsight, Katrina van Grouw explains evolution by building on the analogy that Darwin himself used—comparing the selective breeding process with natural selection in the wild, and, like Darwin, featuring a multitude of fascinating examples.

This is more than just a book about pets and livestock, however. The revelation of *Unnatural Selection* is that identical traits can occur in all animals, wild and domesticated, and both are governed by the same evolutionary principles. As van Grouw shows, animals are plastic things, constantly changing. In wild animals the changes are usually too slow to see—species appear to stay the same. When it comes to domesticated animals, however, change happens fast, making them the perfect model of evolution in action.

Featuring more than four hundred breathtaking illustrations of living animals, skeletons, and historical specimens, *Unnatural Selection* will be enjoyed by anyone with an interest in natural history and the history of evolutionary thinking.

Katrina van Grouw, author of *The Unfeathered Bird* (Princeton), inhabits that no-man’s-land midway between art and science. She holds degrees in fine art and natural history illustration and is a former curator of ornithological collections at a major national museum. She’s a self-taught scientist with a passion for evolutionary biology and its history.

JUNE

978-0-691-15706-1 Cloth $45.00T
304 pages. 400 b/w illus. 10 x 12.

NATURAL HISTORY

PRESS.PRINCETON.EDU
An accessible and richly illustrated introduction to the natural history of dogs—from evolution, anatomy, cognition, and behavior to the relationship between dogs and humans.

**The Dog**

A Natural History

ÁDÁM MIKLÓSI

As one of the oldest domesticated species, selectively bred over millennia to possess specific behaviors and physical characteristics, the dog enjoys a unique relationship with humans. More than any other animal, dogs are attuned to human behavior and emotions, and accordingly play a range of roles in human society, from police and military work to sensory and emotional support. Selective breeding has led to the development of more than three hundred breeds that, despite vast differences, still belong to a single species, Canis familiaris.

The Dog is an accessible, richly illustrated, and comprehensive introduction to the fascinating natural history and scientific understanding of this beloved species. Ádám Miklósi, a leading authority on dogs, provides an appealing overview of dogs’ evolution and ecology; anatomy and biology; behavior and society; sensing, thinking, and personality; and connections to humans.

Illustrated with some 250 color photographs, The Dog begins with an introductory overview followed by an exploration of the dog’s prehistoric origins, including current research about where and when canine domestication first began. The book proceeds to examine dogs’ biology and behavior, paying particular attention to the physiological and psychological aspects of the ways dogs see, hear, and smell, and how they communicate with other dogs and with humans. The book also describes how dogs learn about their physical and social environments and the ways they form attachments to humans. The book ends with a section showcasing a select number of dog breeds to illustrate their amazing physical variety.

Beautifully designed and filled with surprising facts and insights, this book will delight anyone who loves dogs and wants to understand them better.

Ádám Miklósi is professor of ethology at Hungary’s Eötvös Loránd University, where he directs the Family Dog Project. He is the author of *Dog Behavior, Evolution, and Cognition.*

APRIL

978-0-691-17693-2 Cloth $27.95T

224 pages. 250 color illus. 8 x 9.

For sale only in the United States, its territories and dependencies & Canada

NATURAL HISTORY | DOGS
Plants That Kill
A Natural History of the World’s Most Poisonous Plants

ELIZABETH A. DAUNCEY & SONNY LARSSON

This richly illustrated book provides an in-depth natural history of the most poisonous plants on earth, covering everything from the lethal effects of hemlock and deadly nightshade to the uses of such plants in medicine, ritual, and chemical warfare.

Featuring hundreds of color photos and diagrams throughout, *Plants That Kill* explains how certain plants evolved toxicity to deter herbivores and other threats and sheds light on their physiology and the biochemistry involved in the production of their toxins. It discusses the interactions of poisonous plants with other organisms—particularly humans—and explores the various ways plant toxins can target the normal functioning of bodily systems in mammals, from the effects of wolfsbane on the heart to toxins that cause a skin reaction when combined with the sun’s rays. This intriguing book also looks at plants that can harm you only if your exposure to them is prolonged, the ethnobotany of poisons throughout human history, and much more.

A must for experts and armchair botanists alike, *Plants That Kill* is the essential illustrated compendium to these deadly yet intriguing plants.

- Provides an authoritative natural history of the most poisonous plants on earth
- Features hundreds of color illustrations throughout
- Looks at how and why plants produce toxins
- Describes the effects of numerous poisonous plants, from hemlock and deadly nightshade to poppies and tobacco
- Explains their evolution, strategies for survival, physiology, and biochemistry

Elizabeth A. Dauncey is a freelance plant toxicologist and the author of *Poisonous Plants: A Guide for Parents and Childcare Providers*. Sonny Larsson is a licensed pharmacist at the Swedish Poisons Information Centre.

MARCH

978-0-691-17876-9 Cloth $29.95T

224 pages. 400 color illus. 8 ½ x 11.

For sale only in North America
Butterfly Gardening
The North American Butterfly Association Guide

JANE HURWITZ

Butterfly gardening creates habitats that support butterflies, connecting us with some of the most beautiful creatures in the natural world and bringing new levels of excitement and joy to gardening. In this engaging and accessible guide, lavishly illustrated with more than two hundred color photographs and maps, accomplished butterfly gardener Jane Hurwitz presents essential information on how to choose and cultivate plants that will attract a range of butterflies to your garden and help sustain all the stages of their life cycles.

An indispensable resource for aspiring and experienced butterfly gardeners alike, Butterfly Gardening is the most gardener-friendly source on the subject, covering all the practical details needed to create a vibrant garden habitat that fosters butterflies. It tells you which plants support which butterflies, depending on where you live; it describes what different butterflies require in the garden over the course of their lives; and it shows you how to become a butterfly watcher as well as a butterfly gardener.

While recommending predominantly regionally native plants, the book includes information on non-native plants. It also features informative interviews with experienced butterfly gardeners from across the United States. These gardeners share a wealth of information on plants and practices to draw butterflies to all kinds of gardens—from small suburban gardens to community plots and larger expanses.

Whether you are a gardener who wants to see more butterflies in your garden, a butterfly enthusiast who wants to bring that passion to the garden, or someone who simply wants to make their garden or yard friendlier to Monarchs or other butterflies, this is a must-have guide.

Jane Hurwitz is the editor of Butterfly Gardener magazine and the former director of the Butterfly Garden and Habitat Program for the North American Butterfly Association.

APRIL
978-0-691-17034-3  Paper Flexibound  $29.95T
288 pages. 183 color illus. 31 maps. 8 x 10.

NATURAL HISTORY | GARDENING | BUTTERFLIES
Birds of Prey of the East
and Birds of Prey of the West
Field Guides

TEXT AND ILLUSTRATIONS BY BRIAN K. WHEELER

Birds of Prey of the East and Birds of Prey of the West are the most comprehensive and authoritative field guides to North American birds of prey ever published. Written and lavishly illustrated with stunning, lifelike paintings by leading field-guide illustrator, photographer, and author Brian Wheeler, these guides depict an enormous range of variations of age, sex, color, and plumage, and feature a significant amount of plumage data that has never been published before. The painted figures illustrate plumage and species comparisons in a classic field-guide layout. Each species is shown in the same posture and from the same viewpoint, which further assists comparisons. Facing-page text includes quick-reference identification points and brief natural history accounts that incorporate the latest information. The range maps are exceptionally accurate and much larger than those in other guides. They plot the most up-to-date distribution information for each species and include the location of cities for more accurate reference. Finally, these guides feature color habitat photographs next to the maps. The result sets a new standard for guides to North America’s birds of prey.

- Lavishly illustrated with stunning, lifelike paintings
- Written and illustrated by a leading authority on North American birds of prey
- Depicts more plumages than any other guide
- Concise facing-page text with quick-reference ID points
- Classic field-guide layout makes comparing species easy
- Unique color habitat photographs next to the maps

MAY

Birds of Prey of the East
978-0-691-11706-5 Paper Flexibound $27.95T
304 pages. 162 color illus. 38 maps. 5 x 8.

Birds of Prey of the West
978-0-691-11718-8 Paper Flexibound $27.95T
360 pages. 175 color illus. 58 maps. 5 x 8.

FIELD GUIDES | BIRDS
Brian K. Wheeler has been studying, painting, and photographing birds of prey throughout the United States and Canada for more than fifty years. He is the illustrator of Hawks of North America (Peterson Field Guides), the coauthor and photographer of A Photographic Guide to North American Raptors (Princeton), and the author and photographer of Raptors of Eastern North America and Raptors of Western North America (Princeton). His photographs have appeared in many other books and in many bird magazines. He lives in Firestone, Colorado.
Amazing Arachnids

JILLIAN COWLES

The American Southwest is home to an extraordinary diversity of arachnids, from spitting spiders that squirt silk over their prey to scorpions that court one another with kissing and dancing. Amazing Arachnids presents these enigmatic creatures as you have never seen them before. Featuring a wealth of color photos of more than 300 different kinds of arachnids from eleven taxonomic orders—both rare and common species—this stunningly illustrated book reveals the secret lives of arachnids in breathtaking detail, including never-before-seen images of their underground behavior.

Amazing Arachnids covers all aspects of arachnid biology, such as anatomy, sociality, mimicry, camouflage, and venoms. You will meet bolas spiders that lure their victims with fake moth pheromones, fishing spiders that woo their mates with silk-wrapped gifts, chivalrous cellar spiders, tiny mites and massive tarantulas, and many others. Along the way, you will learn why arachnids are living fossils in some respects and nimble opportunists in others, and how natural selection has perfected their sensory structures, defense mechanisms, reproductive strategies, and hunting methods.

- Covers more than 300 different kinds of arachnids, including ones new to science
- Features more than 750 stunning color photos
- Describes every aspect of arachnid biology, from physiology to biogeography
- Illustrates courtship and mating, birth, maternal care, hunting, and defense
- Includes first-ever photos of the underground lives of schizomids and vinegaroons
- Provides the first organized guide to macroscopic mites, including photos of living mites for easy reference

Jillian Cowles is a clinical microbiologist, naturalist, and photographer. Her photographs have appeared in numerous books and publications, as well as museum displays, art exhibits, and murals.

APRIL
978-0-691-17658-1 Cloth $45.00T
384 pages. 754 color photos. 8 x 10.
Seabirds evoke the spirit of the earth’s wildest places. They spend large portions of their lives at sea, often far from land, and nest on beautiful and remote islands that humans rarely visit. Thanks to the development of increasingly sophisticated and miniaturized devices that can track their every movement and behavior, it is now possible to observe the mysterious lives of these remarkable creatures as never before. This beautifully illustrated book takes you on a breathtaking journey around the globe to reveal where these birds actually go when they roam the sea, the tactics they employ to traverse vast tracts of ocean, the strategies they use to evade threats, and more.

Michael Brooke has visited every corner of the world in his lifelong pursuit of seabirds. Here, he draws on his own experiences and insights as well as the latest cutting-edge science to shed light on the elusive seafaring lives of albatrosses, frigatebirds, cormorants, and other ocean wanderers. Where do puffins go in the winter? How deep do penguins dive? From how far away can an albatross spot a fishing vessel worth following for its next meal? Brooke addresses these and other questions in this delightful book. Along the way, he reveals that seabirds are not the aimless wind-tossed creatures they may appear to be, and explains the observational innovations that are driving this exciting area of research.

Featuring illustrations by renowned artist Bruce Pearson and packed with intriguing facts, Far from Land provides an extraordinary up-close look at the activities of seabirds.

Michael Brooke is the Strickland Curator of Ornithology at the University Museum of Zoology, Cambridge. He is the author of Albatrosses and Petrels across the World and the coeditor of The Cambridge Encyclopedia of Ornithology, and has written widely on science and travel for outlets such as the Daily Telegraph and the Guardian.

"Michael Brooke's eminently readable book simply and clearly explains how the digital revolution has transformed our knowledge of the once mysterious lives of seabirds at sea. I’m confident that this entertaining and wide-ranging book will appeal to a broad audience, from the lay public to seabird biologists."

—Peter Ryan, director of the FitzPatrick Institute of African Ornithology, University of Cape Town
Wildlife of the Arctic

RICHARD SALE & PER MICHELEN

Wildlife of the Arctic is an accessible and richly illustrated pocket-sized photographic field guide to the birds, land and sea mammals, and plants and lichens of the northern polar region—including Alaska, Canada, Greenland, Iceland, Scandinavia, and Russia. Written and illustrated by naturalists with extensive Arctic experience, this handy book features detailed facing-page descriptions of each species, including information about identification, range, distribution, and breeding and wintering grounds. A substantial introduction explains the area covered, with information on the poles, geology, snow and ice, auroras, and the influence of global warming. This portable, user-friendly guide is the perfect companion for birders, ecotourists, and cruise-line passengers visiting the Arctic Circle and other areas of the far north.

- An accessible and richly illustrated pocket-sized photographic field guide to Arctic wildlife
- Features more than 800 color photos illustrating more than 250 bird species, 60 land mammals, and 30 seals and whales
- Includes extensive facing-page species descriptions and identification information
- Provides an overview of the Arctic region, with information on the poles, geology, snow and ice, auroras, and the influence of global warming
- Explores each family of birds and mammals, and has sections covering fish, insects, plants, and lichens

Richard Sale is an experienced explorer who has climbed and trekked all over the world. He has written and illustrated many books, including To the Ends of the Earth: The History of Polar Exploration, The Gyrfalcon, and A Complete Guide to Arctic Wildlife. Per Michelsen has been a passionate outdoor photographer since the late 1970s.

APRIL
978-0-691-18054-0 Paper $19.95T
304 pages. 800+ color photos. 4 ½ x 7 ½.
Princeton Pocket Guides
For sale only in North America, U.S. dependencies & the Philippines

FIELD GUIDES | NATURAL HISTORY
Gulls of the World
A Photographic Guide

KLAUS MALLING OLSEN

With more than 50 gull species in the world, this family of seabirds poses some of the greatest field identification challenges of any bird group: age-related plumage changes, extensive variations within species, frequent hybridization, and complex distribution.

_Gulls of the World_ takes on these challenges and is the first book to provide a comprehensive look at these birds. Concise text emphasizes field identification, with in-depth discussion of variations as well as coverage of habitat, status, and distribution. Abundant photographs highlight identification criteria and, crucially, factor in age and subspecific field separation. Informative species accounts are accompanied by detailed color range maps.

_Gulls of the World_ is the most authoritative photographic guide to this remarkable bird family.

- The first book to provide in-depth coverage of the world’s gull species
- More than 600 stunning color photographs
- Concise text looks at variations, habitat, status, and distribution
- Informative species accounts and color range maps

Klaus Malling Olsen is widely regarded as the world’s foremost gull expert. His previous books include _Terns of Europe and North America_ and _Gulls of North America, Europe, and Asia_ (both Princeton).

APRIL
978-0-691-18059-5 Cloth $45.00 T
488 pages. 600+ color photos. 6 ½ x 9 ½.
Not for sale in the Commonwealth (except Canada) & the European Union

FIELD GUIDES | BIRDS
Birds of the Greater Sundas, the Philippines, and Wallacea

NORMAN ARLOTT

*Birds of the Greater Sundas, the Philippines, and Wallacea* is a comprehensive illustrated guide to the varied and fascinating avian population inhabiting these Southeast Asian islands, which include Indonesian territories, the Philippine archipelago, and Borneo, the third-largest island in the world. Covering more than 1,900 species, this volume contains 179 beautiful color plates and 600 maps. The accompanying text provides detailed information about plumage, voice, range, distribution, status, and habitat. This accessible and much-needed guide will be essential for all bird enthusiasts traveling to this unique region.

- A comprehensive look at the more than 1,900 bird species of the Greater Sundas, the Philippines, and Wallacea
- Lavishly illustrated with 179 stunning color plates
- Gives detailed information about plumage, voice, range, distribution, status, and habitat
- Handy and easy to use

**Norman Arlott** is one of the world’s leading bird artists. His books include *Birds of the West Indies* and the two-volume *Birds of Europe, Russia, China, and Japan* (both Princeton).

JUNE

978-0-691-18062-5  Paper $29.95T

304 pages. 1,900+ color illus. 600 maps. 5 x 7 ½.

Princeton Illustrated Checklists

For sale only in North America, U.S. dependencies & the Philippines

FIELD GUIDES | BIRDS
This is the first modern-style photographic field guide to the birds of Chile, an increasingly popular destination with birders and naturalists. Compact and easy to carry, pack, and use, *Birds of Chile* is ideal for curious naturalists and experienced birders alike, providing everything anyone needs to identify the birds they see. Clear photographs and brief, facing-page species accounts highlight what to look for and how to quickly identify species. The photos include both close-ups and birds-in-habitat images to further aid real-life identification. An introduction and maps provide an overview of Chile’s geographic regions and their distinctive birdlife. *Birds of Chile* is also a great resource for birding in nearby countries, especially Argentina, Bolivia, and Peru.

- The first field-friendly photographic guide to the birds of Chile
- More than 1,000 real-life photos and brief, facing-page text make bird identification easy
- Overview and maps describe the distinct bird regions of Chile
- Perfect for curious naturalists and experienced birders alike
- Compact and easy to carry and pack
- Also a great resource for birding in Argentina, Bolivia, and Peru

**Steve N. G. Howell** is an international bird tour leader with WINGS and a research associate at the California Academy of Sciences and Point Blue Conservation Science. He is the author of many books, including *Petrels, Albatrosses, and Storm-Petrels of North America* (Princeton) and *Molt in North American Birds* (Peterson Reference Guides). **Fabrice Schmitt** is an international bird tour leader with WINGS and a lecturer on Ponant Antarctic cruises. He lived in Chile from 2005 to 2015, founded the online birding magazine *La Chiricoca*, and helped develop the eBird online birding tool for Chile and the rest of South America.

"Succinct but amazingly informative, this guide reflects the authors’ decades of experience with the birds of Chile. The guide is incredibly well illustrated, clearly written, and a pleasure to explore. It will be a very useful tool in the field given its imagery, information, and small size."

—Alvaro Jaramillo, author of *Birds of Chile*
Wildlife of Madeira and the Canary Islands
A Photographic Field Guide to Birds, Mammals, Reptiles, Amphibians, Butterflies and Dragonflies

JOHN BOWLER

This beautifully illustrated photographic field guide is the first to focus on the identification of the fascinating, diverse and unique wildlife of Madeira and the Canary Islands—featuring the birds, mammals, reptiles, amphibians, butterflies and dragonflies that are most likely to be seen. Richly illustrated introductory sections cover the key wildlife sites to visit on each of the islands and provide an overview of the islands’ geography, climate, habitat types and current conservation efforts. Stunning colour photographs highlight the key identification features of each species, and the accompanying text covers status, habitat preference, behaviour and, where appropriate, calls. The guide also features an up-to-date distribution map for each species. Complete with an attractive, user-friendly design, this is a must-have guide for all visitors to these magical islands.

John Bowler is a conservation officer on the island of Tiree in the Scottish Inner Hebrides. He is the author of a number of field guides, including Wildlife of Seychelles (Princeton WILDGuides).

MAY
978-0-691-17076-3 Paper Flexibound $27.95S
192 pages. 600 color illus. 284 maps. 6 x 8.

Snakes of Europe, North Africa and the Middle East
A Photographic Guide

PHILIPPE GENIEZ
Translated by Tony Williams

This is a fully up-to-date and comprehensive photographic field guide to the snakes of Europe, North Africa and the Middle East. Lavishly illustrated with 387 color photographs, it includes coverage of all 122 snake species found in these regions.

The guide’s detailed introduction discusses snake anatomy, biology, habitats and taxonomy. It also explores the health of snakes in captivity and conservation measures, and provides a succinct explanation of the chemical composition, physical effects and cultural uses of snake venom. Species accounts are arranged taxonomically and provide identification features, a description of the species’ habitat and behavior and information on whether a snake is venomous. Abundant distribution maps describe each species’ geographic variation and usual habitats. Clear photos aid identification and are supplemented with illustrations highlighting key anatomical features. A table of all species, country by country, is included at the back of the book.

Philippe Geniez is a researcher at the École Pratique des Hautes Études within the Centre d’Écologie Fonctionnelle et Évolutive in Montpellier, France.

MAY
978-0-691-17239-2 Paper $29.95T
384 pages. 387 color illus. 122 maps. 5 x 7 ½.

FIELD GUIDES | NATURAL HISTORY
Birds of Mongolia

GOMBOBAATAR SUNDEV & CHRISTOPHER W. LEAHY

Mongolia is a huge, landlocked Central Asian country encompassing a wide range of habitats, including forests, vast treeless plains, the Altai Mountains, and, of course, the Gobi Desert. With an avian population that reflects this diverse landscape, the country is rapidly becoming a popular destination for birders. The first field guide dedicated to the birds of Mongolia, this beautiful volume provides in-depth details for every species to be found in the region.

Gombobaatar Sundev, Mongolia’s most famous ornithologist, and Christopher Leahy follow traditional field-guide design with lavish color plates—83 in total—arranged opposite the text. Detailed maps not to be found anywhere else accompany the species entries.

Birds of Mongolia is an indispensable guide for birders, adventurers, and all those interested in this central Asian nation.

- The first dedicated field guide to the birds of Mongolia
- Entries include all recorded species for the country
- 83 lavish color plates
- Detailed distribution maps for all species

Gombobaatar Sundev is a professor at the National University of Mongolia and has been president of the Mongolian Ornithological Society for more than twenty years. Christopher W. Leahy holds the Gerard A. Bertrand Chair of Natural History and Field Ornithology at Massachusetts Audubon. He is the author of A Birdwatcher’s Companion to North American Birdlife (Princeton).

JUNE
978-0-691-13882-4 Paper $35.00T
224 pages. 83 color illus. 5 x 8 ½.
Princeton Field Guides
Not for sale in the Commonwealth (except Canada) & the European Union

FIELD GUIDES | BIRDS