Welcome to Princeton’s Biology list, which features many new and exciting titles. As we continue to grow our list of outstanding textbooks, we are proud to announce Benjamin Bolker’s *Ecological Models and Data in R*, the first truly practical introduction to modern statistical methods for ecology. Instructors will also want to check out James Clark’s *Models for Ecological Data*, Sarah Otto and Troy Day’s *A Biologist’s Guide to Mathematical Modeling in Ecology and Evolution*, Matt Keeling and Pejman Rohani’s *Modeling Infectious Diseases in Humans and Animals*, and William Karasov’s and Carlos Martinez del Rio’s *Physiological Ecology*.

Readers also won’t want to miss a provocative and controversial new book by Robert Park. In *Superstition: Belief in the Age of Science*, Park attacks what he sees as the pervasive influence of superstition and pseudoscience in what is supposedly an era of scientific objectivity.

Those interested in the Ocean Sciences will also find several new books. Mark Denny’s *How the Ocean Works* is an accessible introduction to marine science. Also be sure to check out Jorge Sarmiento and Nicolas Gruber’s *Ocean Biogeochemical Dynamics* and Robert Ballard’s *Archaeological Oceanography*. And, as always, we have several important new books in ecology, including *Exploring Animal Social Networks* by Darren Croft et al., *Theories of Population Variation in Genes and Genomes* by Freddy Bugge Christiansen, and *Infectious Disease Ecology* edited by Ostfeld et al.

Last but not least there are several great new field guides and natural history titles, including a new edition of Hadoram Shirihai’s *A Complete Guide to Antarctic Wildlife* and two mammal guides of international conservation importance: Andrew Smith and Yan Xie’s *A Guide to the Mammals of China* and Charles Francis’s *A Guide to the Mammals of Southeast Asia*.

Robert Kirk
Executive Editor, Biological Sciences & Natural History

Alison Kalett
Editor, Biological & Earth Sciences

Cover image: Sharknose goby *Elacatinus evelynae* on brain coral by Laszlo Ilyes/Creative Commons
Forthcoming

Archaeological Oceanography
Edited by Robert D. Ballard

See page 14 for details.

September 2008. 296 pages. 170 color illus. 8 line illus.
Cl: 978-0-691-12940-2 $45.00 | £26.95

New

Physiological Ecology
How Animals Process Energy, Nutrients, and Toxins
William H. Karasov & Carlos Martínez del Rio

See page 5 for details.

2007. 744 pages. 40 halftones. 242 line illus.
Cl: 978-0-691-07453-5 $65.00 | £38.95

Forthcoming

Ecological Models and Data in R
Benjamin M. Bolker

See page 4 for details.

September 2008. 400 pages. 99 line illus.
Cl: 978-0-691-12522-0 $55.00 | £32.95

New

Modeling Infectious Diseases in Humans and Animals
Matt J. Keeling & Pejman Rohani

See page 19 for details.

2007. 384 pages. 141 line illus. 7 tables.
Cl: 978-0-691-11617-4 $65.00 | £38.95

New

Theories of Population Variation in Genes and Genomes
Freddy Bugge Christiansen

See page 8 for details.

Princeton Series in Theoretical and Computational Biology
2008. 432 pages. 100 color illus. 100 line illus. 46 tables.
Cl: 978-0-691-13367-6 $75.00 | £44.95

Mathematics in Nature
Modeling Patterns in the Natural World
John A. Adam

See page 19 for details.

2006. 416 pages. 24 color illus. 84 line illus. 9 tables.
Pa: 978-0-691-12796-5 $24.95 | £14.95
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Principles of Animal Locomotion  
R. McNeill Alexander  
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2006. 384 pages. 105 line illus. 6 tables.  
Pa: 978-0-691-12634-0 $45.00 | £26.95  
Cl: 978-0-691-08678-1 $85.00 | £50.00  

How the Ocean Works  
An Introduction to Oceanography  
Mark Denny  
See page 15 for details.  
2008. 344 pages. 148 color illus. 7 tables.  
Pa: 978-0-691-12647-0 $45.00 | £26.95  
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Atlantic Shorelines  
Natural History and Ecology  
Mark D. Bertness  
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2006. 464 pages. 69 color plates. 327 line illus. 3 tables.  
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Dynamic Models in Biology  
Stephen P. Ellner & John Guckenheimer  
See page 18 for details.  
2006. 352 pages. 10 halftones. 90 line illus. 15 tables.  
Pa: 978-0-691-12589-3 $52.50 | £30.95  
Cl: 978-0-691-11843-7 $110.00 | £65.00  

Models for Ecological Data  
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James S. Clark  
See page 18 for details.  
2007. 632 pages. 163 line illus. 21 tables.  
Cl: 978-0-691-12178-9 $67.50 | £40.00  

Aquatic Photosynthesis  
Paul G. Falkowski & John A. Raven  
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2006. 512 pages. 8 color plates. 10 halftones. 145 line illus. 22 tables.  
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Cornell Lab of Ornithology Handbook of Bird Biology  
Cornell Laboratory of Ornithology  
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2004. 1,248 pages. 1,000+ illus. 8 1/2 x 11.  
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Cl: 978-0-691-12577-0 $16.95 | £9.95  

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Richard Karban & Mikaela Huntzinger  
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Sarah P. Otto & Troy Day
See page 6 for details.
2007. 744 pages. 207 line illus. 22 tables.
Cl: 978-0-691-12344-8 $65.00 | £38.95

Second Edition
Evolutionary Ecology of Parasites
Robert Poulin
See page 11 for details.
2006. 360 pages. 109 line illus. 2 tables.
Pa: 978-0-691-12085-0 $42.00 | £24.95
Cl: 978-0-691-12084-3 $105.00 | £62.00

Introduction to Computational Science
Modeling and Simulation for the Sciences
Angela B. Shiflet & George W. Shiflet
See page 19 for details.
2006. 576 pages. 198 line illus. 62 tables.
Cl: 978-0-691-12565-7 $69.50 | £40.95

Comparative Biomechanics
Life’s Physical World
Steven Vogel
See page 17 for details.
2003. 592 pages. 234 line illus. 33 tables.
Cl: 978-0-691-11297-8 $75.00 | £44.95

Fisheries Ecology and Management
Carl J. Walters & Steven J. D. Martell
See page 16 for details.
2004. 448 pages. 95 line illus. 7 tables.
Pa: 978-0-691-11545-0 $55.00 | £32.95
Cl: 978-0-691-11544-3 $115.00 | £67.50

Population Ecology
First Principles
John H. Vandermeer & Deborah E. Goldberg
2003. 304 pages. 8 tables. 8 halftones. 88 line illus.
Pa: 978-0-691-11441-5 $47.50 | £27.95
Cl: 978-0-691-11440-8 $105.00 | £62.00
Forthcoming

**Ecological Models and Data in R**

Benjamin M. Bolker

“I have no doubt that this book will become a fixture on many ecologists’ bookshelves (it certainly will be on mine). With a presentation that is gentle and encouraging rather than jargon-filled and intimidating, it empowers ecologists to develop their own statistical procedures. I strongly recommend it.”

—Timothy Essington, University of Washington

*Ecological Models and Data in R* is the first truly practical introduction to modern statistical methods for ecology. In step-by-step detail, the book teaches ecology graduate students and researchers everything they need to know in order to use maximum likelihood, information-theoretic, and Bayesian techniques to analyze their own data using the programming language R. Drawing on extensive experience teaching these techniques to graduate students in ecology, Benjamin Bolker shows how to choose among and construct statistical models for data, estimate their parameters and confidence limits, and interpret the results. The book also covers statistical frameworks, the philosophy of statistical modeling, and critical mathematical functions and probability distributions. It requires no programming background—only basic calculus and statistics.

Benjamin M. Bolker is a theoretical ecologist in the Department of Zoology at the University of Florida.

September 2008. 400 pages. 99 line illus.
Cl: 978-0-691-12522-0 $55.00 | £32.95

New

**Infectious Disease Ecology**

Effects of Ecosystems on Disease and of Disease on Ecosystems

Edited by Richard S. Ostfeld, Felicia Keesing & Valerie T. Eviner

“This book introduces the latest thinking in an exciting new field in biology: disease ecology. The authors assembled represent the most diverse collection of experts ever appearing together in one book on the subject. Both graduate students and readers from outside the field will find it exceptionally useful. It will be the source.”

—Peter Kareiva, Nature Conservancy

News headlines are forever reporting diseases that take huge tolls on humans, wildlife, domestic animals, and both cultivated and native plants worldwide. These diseases can also completely transform the ecosystems that feed us and provide us with other critical benefits, from flood control to water purification. And yet diseases sometimes serve to maintain the structure and function of the ecosystems on which humans depend.

Gathering thirteen essays by forty leading experts who convened at the Cary Conference at the Institute of Ecosystem Studies in 2005, this book develops an integrated framework for understanding where these diseases come from, what ecological factors influence their impacts, and how they in turn influence ecosystem dynamics. It marks the first comprehensive and in-depth exploration of the rich and complex linkages between ecology and disease.

Richard S. Ostfeld is senior scientist at the Institute of Ecosystem Studies. Felicia Keesing is associate professor of biology at Bard College. Valerie T. Eviner is assistant professor of plant sciences at the University of California, Davis.

2008. 520 pages. 66 line illus. 21 tables.
Pa: 978-0-691-12485-8 $45.00 | £26.95
Cl: 978-0-691-12484-1 $99.50 | £59.95
Physiological Ecology
How Animals Process Energy, Nutrients, and Toxins
William H. Karasov & Carlos Martinez del Rio

“This book fills a major gap in the ecological and physiological literature in the most delightful way. An exciting journey into the wondrous mechanical world behind the great diversity of animals on earth, it is an exhaustive overview of everything to do with resource processing and use in animals. From page to page it demonstrates the seamless connection between ecology and physiology. The writing was a joy to read; the authors are in command of the subject and write lucidly about it.”
—Theunis Piersma, University of Groningen and Royal Netherlands Institute for Sea Research

Unlocking the puzzle of how animals behave and how they interact with their environments is impossible without understanding the physiological processes that determine their use of food resources. But long overdue is a user-friendly introduction to the subject that systematically bridges the gap between physiology and ecology. Here, William Karasov and Carlos Martinez del Rio present the first accessible and authoritative one-volume overview of the physiological and biochemical principles that shape how animals procure energy and nutrients and free themselves of toxins—and how this relates to broader ecological phenomena.

William H. Karasov is professor of wildlife ecology at the University of Wisconsin, Madison. Carlos Martinez del Rio is professor of zoology and physiology at the University of Wyoming, Laramie.

What Bugged the Dinosaurs?
Insects, Disease, and Death in the Cretaceous
George Poinar, Jr. & Roberta Poinar

“Thanks to the astonishingly detailed evidence provided by insects trapped in amber, we know that insects competed with dinosaurs for food, preyed on them, scavenged their corpses and cleared away their droppings. Most importantly perhaps, they infected them with thousands of different diseases and parasites. The authors . . . even go so far as to argue that these diseases may have been the killing blow that finally pushed the dinosaurs into extinction. [What Bugged the Dinosaurs?] does an excellent job of bringing to life the mini-beasts of the Mesozoic.”
—Luis Villazon, BBC Focus Magazine

Millions of years ago in the Cretaceous period, the mighty Tyrannosaurus rex—with its dagger-like teeth for tearing its prey to ribbons—was undoubtedly the fiercest carnivore to roam the Earth. Yet as What Bugged the Dinosaurs? reveals, T. rex was not the only killer. George and Roberta Poinar show how insects—from biting sand flies to disease-causing parasites—dominated life on the planet and played a significant role in the life and death of the dinosaurs.

A scientific adventure story from the authors whose research inspired Jurassic Park, What Bugged the Dinosaurs? offers compelling evidence of how insects directly and indirectly contributed to the dinosaurs’ demise.

George Poinar, Jr., is currently in the Zoology Department at Oregon State University. Roberta Poinar is a retired research scientist.

2008. 296 pages. 61 color illus. 39 line illus.
Cl: 978-0-691-12431-5 $29.95 | £17.95
Sarah P. Otto & Troy Day

“A gentle but thorough introduction to the mathematical techniques employed in ecological and evolutionary theory. Readers who … finish this well-written book will be prepared to read and understand a sizeable fraction of the current literature.”
—Donald L. EeAngelis, Quarterly Review of Biology

“A wonderfully pedagogical introduction to mathematical modeling in population biology: an ideal first course for biologists.”
—Simon A. Levin, Princeton University

2007. 744 pages. 207 line illus. 22 tables.
Cl: 978-0-691-12344-8  $65.00 | £38.95

Atlantic Shorelines
Natural History and Ecology
Mark D. Bertness

“The major strength of this book is Bertness’ ability to present important concepts and ideas in a conversational text, one which should be engaging to students. I think he does an excellent job in pulling together many fields of study (geology, hydrology, and ecology) in a way that shows the interconnectedness of these fields on the Atlantic shorelines.”
—Mary Crowe, Ecology

“A definite seashore man at heart, Bertness has produced a wonderful general introduction and field guide to the ecology of shoreline communities of the North American coast.”
—Biology Digest

2006. 464 pages. 69 color plates. 327 line illus. 3 tables.
Pa: 978-0-691-12554-1  $45.00 | £26.95
Ci: 978-0-691-12553-4  $105.00 | £62.00

How to Do Ecology
A Concise Handbook
Richard Karban & Mikaela Huntzinger

 “[A] refreshing, concise work aimed primarily at those contemplating or performing ecological research studies. The authors’ approach will be equally beneficial to those in various other areas of study…. Highly recommended:”
—Choice

“How to Do Ecology contains much of the sage advice that good supervisors have been giving their postgraduate students for years…. [I]t’s absolutely correct and vital information.”
—Robyn K. Whipp, Austral Ecology

2006. 168 pages. 10 line illus. 4 tables.
Pa: 978-0-691-12577-0  $16.95 | £9.95

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Winner of the 2007 Wildlife Publications Award, Outstanding Edited Book Category, The Wildlife Society

**Handbook of Capture-Recapture Analysis**
*Edited by Steven C. Amstrup, Trent L. McDonald & Bryan F. J. Manly*

“This is a good book for anyone with a basic understanding of capture-recapture models who wants to develop their knowledge and apply these techniques to their own data. Exactly what a handbook should be!”
—Laura Cowen, *Quarterly Review of Biology*

“The editors have done an admirable job in trying to make complex capture-recapture models accessible to a greater range of field-based ecologists.”
—David Wilson, *Austral Ecology*

2006. 336 pages. 20 halftones. 6 line illus. 74 tables.
Pa: 978-0-691-08968-3 $55.00 | £32.95
Cl: 978-0-691-08967-6 $120.00 | £71.00

**Self-Organization in Complex Ecosystems**
*Ricard V. Solé & Jordi Bascompte*

“Self-Organization in Complex Ecosystems is an excellent book, and could very well be the very best of its type.”
—Timothy F. H. Allen, *BioScience*

“This book is an outstandingly good summary of where we currently stand in the field of ecology. It draws together, in a clear and synoptic way, a large variety of new ideas and supporting them where possible and appropriate by data.”
—Robert M. May, University of Oxford

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2006. 384 pages. 112 line illus. 6 tables.
Pa: 978-0-691-07040-7 $52.50 | £30.95
Cl: 978-0-691-07039-1 $110.00 | £65.00

**Mechanistic Home Range Analysis**
*Paul R. Moorcroft & Mark A. Lewis*

“This new book provides an original starting point for new directions in the analysis of territorial behavior.”
—Donald Kramer, Katrine Turgeon, and Patrick Leighton, *Quarterly Review of Biology*

“This book greatly advances our rather simple and descriptive view of animal home ranges. It will have a profound effect on the analysis of animal movement data.”
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Monographs in Population Biology
2006. 208 pages. 20 color illus. 4 halftones. 57 line illus.
Pa: 978-0-691-09666-7 $42.00 | £24.95
Cl: 978-0-691-09665-0 $90.00 | £53.00

**Individual-based Modeling and Ecology**
*Volker Grimm & Steven F. Railsback*

“This seminal book truly deserves to be called the founding text for the growing field of individual-based modeling and the broader program of individual-based ecology. Core procedures and standards for formulating, parameterizing, testing, and communicating such models have long been lacking. Even the basic definitions have been missing. In one stroke, Grimm and Railsback provide all of those things.”
—Don DeAngelis, author of *Dynamics of Nutrient Cycling and Food Webs*

Princeton Series in Theoretical and Computational Biology
2005. 448 pages. 12 halftones. 34 line illus. 3 tables.
Pa: 978-0-691-09666-7 $55.00 | £32.95
Cl: 978-0-691-09665-0 $110.00 | £65.00

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New

**Analysis of Evolutionary Processes**
The Adaptive Dynamics Approach and Its Applications

*Fabio Dercole & Sergio Rinaldi*

“This is a major achievement—a self-contained presentation of the adaptive dynamics approach, of its role within evolutionary theory, and of the kind of evolutionary dynamics that can be predicted. I believe it will become a standard text for researchers and students in evolutionary dynamics. To my knowledge there is no other book that presents the theory of AD, places it in a proper biological context, and develops it with an approach that is mathematically sound but not overwhelming.”

—Andrea Pugliese, University of Trento, Italy

Quantitative approaches to evolutionary biology traditionally consider evolutionary change in isolation from an important pressure in natural selection: the demography of coevolving populations. In *Analysis of Evolutionary Processes*, Fabio Dercole and Sergio Rinaldi have written the first comprehensive book on Adaptive Dynamics (AD), a quantitative modeling approach that explicitly links evolutionary changes to demographic ones. The book shows how the so-called AD canonical equation can answer questions of paramount interest in biology, engineering, and the social sciences, especially economics.

Fabio Dercole is assistant professor at Politecnico di Milano, in Milan, Italy. Sergio Rinaldi is professor of system theory at Politecnico di Milano and holds an appointment with the IIASA Evolution and Ecology Program.

*Princeton Series in Theoretical and Computational Biology*

2008. 352 pages. 6 halftones. 102 line illus. 10 tables.
Cl: 978-0-691-12006-5 $65.00 | £38.95

New

**Theories of Population Variation in Genes and Genomes**

*Freddy Bugge Christiansen*

This textbook provides an authoritative introduction to both classical and coalescent approaches to population genetics. Written for graduate students and advanced undergraduates by one of the world’s leading authorities in the field, the book focuses on the theoretical background of population genetics, while emphasizing the close interplay between theory and empiricism. Traditional topics such as genetic and phenotypic variation, mutation, migration, and linkage are covered and advanced by contemporary coalescent theory, which describes the genealogy of genes in a population, ultimately connecting them to a single common ancestor. Effects of selection, particularly genomic effects, are discussed with reference to molecular genetic variation. The book is designed for students of population genetics, bioinformatics, evolutionary biology, molecular evolution, and theoretical biology—as well as biologists, molecular biologists, breeders, biomathematicians, and biostatisticians.

Freddy Bugge Christiansen is professor of population biology at the University of Aarhus in Denmark.

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Douglas H. Erwin is senior scientist and curator in the Department of Paleobiology at the Smithsonian’s National Museum of Natural History and an external faculty member of the Santa Fe Institute.

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—Eörs Szathmáry, **Nature**

Andreas Wagner is professor of biochemistry at the University of Zurich.

Princeton Studies in Complexity

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“Novel and intriguing…. [Nature] offers a distinctive point of view and an insightful synthesis that promises to provide the basis of much future work.”
—Douglas H. Erwin, Science

“Vermeij is one of the master naturalists of our time, and his command of the subtleties of animal interactions is exceptional. I think anyone can learn a great deal from this book.”
—Richard K. Bambach, American Scientist

“Vermeij, a well-known paleontologist and observer of nature writ large, has written a marvelously interdisciplinary work that makes an important contribution to the literature of complex adaptive systems.”
—Eric J. Chaissen, Quarterly Review of Biology

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“This book, like the first edition, will be a leading text in its field. The style of writing is superbly lucid and well organized. The discussion flows from one topic to the next, creating continuum. Poulin covers an impressive range of information on parasite ecology and evolution.”
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“Vermeij, a well-known paleontologist and observer of nature writ large, has written a marvelously interdisciplinary work that makes an important contribution to the literature of complex adaptive systems.”
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—R. C. Tinsley, Parasitology

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Forthcoming

Exploring Animal Social Networks
Darren P. Croft, Richard James & Jens Krause

“This book introduces ecologists, behaviorists, and others studying social behavior to the methods of network analysis. It is clearly written and accessible to readers whose primary training is in biology, not physics, mathematics, or sociology—the fields in which network techniques have largely been developed. The book is method oriented, so that it can serve as a practical guide to how readers can analyze their own data.”
—Stephen C. Pratt, Arizona State University

Social network analysis is used widely in the social sciences to study interactions among people, groups, and organizations, yet until now there has been no book that shows behavioral biologists how to apply it to their work on animal populations. Exploring Animal Social Networks provides a practical guide for researchers, undergraduates, and graduate students in ecology, evolutionary biology, animal behavior, and zoology.

Darren P. Croft is lecturer in animal behavior at the University of Wales, Bangor. Richard James is senior lecturer in physics at the University of Bath. Jens Krause is professor of behavioral ecology at the University of Leeds.

August 2008. 208 pages. 47 line illus. 17 tables.
Pa: 978-0-691-12752-1 $35.00 | £19.95
Cl: 978-0-691-12751-4 $75.00 | £44.95

A Natural History of Families
Scott Forbes

“[Forbes] reveal[s] the many fascinating aspects of human family life and reproduction that arise from evolutionary conflicts of interest.”
—Jonathan Wright, Nature

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—Seamus Sweeney, Times Literary Supplement

2007. 256 pages. 18 line illus.
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The Evolution of Animal Communication
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William A. Searcy & Stephen Nowicki

“William Searcy and Stephen Nowicki provide a fascinating perspective on the honesty of signals in animal communication systems…. [A] comprehensive yet concise review of what we currently know concerning signal reliability in animals, enriched with many in-depth examples.”
—Katherine E. LeVan and Noah Wilson-Rich, Science

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Pa: 978-0-691-07095-7 $47.50 | £27.95
Primates and Philosophers
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Frans de Waal
Edited by Stephen Macedo & Josiah Ober

“De Waal is one of the world’s foremost authorities on nonhuman primates, and his thoughtful contribution to *Primates and Philosophers* is enriched by decades of close observation of their behavior…. He argues that humans are like their closest evolutionary kin in being moral by nature…. [An impressively well-focused collection of essays.”

“Exceptionally rich but always lucid…. Intellectual soul food for biology-minded ethicists.”
—Ray Olsen, *Booklist*

University Center for Human Values
2006. 232 pages. 9 halftones. 3 tables.
Cl: 978-0-691-12447-6 $23.95 | £13.95

The Altruism Equation
Seven Scientists Search for the Origins of Goodness
Lee Alan Dugatkin

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Robert D. Ballard is president of the Institute for Exploration in Mystic, Connecticut, and professor of oceanography and director of the Institute for Archaeological Oceanography at the University of Rhode Island.
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