



SOCIAL LEARNING IN ANIMALS

THE ROOTS OF CULTURE



Edited by
Cecilia M. Heyes and Bennett G. Galef, Jr.

Social Learning In Animals The Roots Of Culture

Robert Boyd, Peter J. Richerson



Social Learning In Animals The Roots Of Culture:

Social Learning In Animals Cecilia M. Heyes, Bennett G. Galef Jr., 1996-05-23 The increasing realization among behaviorists and psychologists is that many animals learn by observation as members of social systems Such settings contribute to the formation of culture This book combines the knowledge of two groups of scientists with different backgrounds to establish a working consensus for future research The book is divided into two major sections with contributions by a well known international and interdisciplinary team which integrates these growing areas of inquiry Integrates the broad range of scientific approaches being used in the studies of social learning and imitation and society and culture Provides an introduction to this field of study as well as a starting point for the more experienced researcher Chapters are succinct reviews of innovative discoveries and progress made during the past decade Includes statements of varied theoretical perspectives on controversial topics Authoritative contributions by an international team of leading researchers

The Evolution of Cognition Cecilia M. Heyes, Ludwig Huber, 2000 In the last decade evolutionary psychology has come to refer exclusively to research on human mentality and behavior motivated by a nativist interpretation of how evolution operates This book encompasses the behavior and mentality of nonhuman as well as human animals and a full range of evolutionary approaches Rather than a collection by and for the like minded it is a debate about how evolutionary processes have shaped cognition The debate is divided into five sections Orientations on the phylogenetic ecological and psychological comparative approaches to the evolution of cognition Categorization on how various animals parse their environments how they represent objects and events and the relations among them Causality on whether and in what ways nonhuman animals represent cause and effect relationships Consciousness on whether it makes sense to talk about the evolution of consciousness and whether the phenomenon can be investigated empirically in nonhuman animals and Culture on the cognitive requirements for nongenetic transmission of information and the evolutionary consequences of such cultural exchange Contributors Bernard Balleine Patrick Bateson Michael J Beran M E Bitterman Robert Boyd Nicola Clayton Juan Delius Anthony Dickinson Robin Dunbar D P Griffiths Bernd Heinrich Cecilia Heyes William A Hillix Ludwig Huber Nicholas Humphrey Masako Jitsumori Louis Lefebvre Nicholas Mackintosh Euan M Macphail Peter Richerson Duane M Rumbaugh Sara Shettleworth Martina Siemann Kim Sterelny Michael Tomasello Laura Weiser Alexandra Wells Carolyn Wilczynski David Sloan Wilson

The ^AOrigin and Evolution of Cultures Robert Boyd, Peter J. Richerson, 2005-01-20 Oxford presents in one convenient and coherently organized volume 20 influential but until now relatively inaccessible articles that form the backbone of Boyd and Richerson's path breaking work on evolution and culture Their interdisciplinary research is based on two notions First that culture is crucial for understanding human behavior unlike other organisms socially transmitted beliefs attitudes and values heavily influence our behavior Secondly culture is part of biology the capacity to acquire and transmit culture is a derived component of human psychology and the contents of culture are deeply intertwined with our biology

Culture then is a pool of information stored in the brains of the population that gets transmitted from one brain to another by social learning processes Therefore culture can account for both our outstanding ecological success as well as the maladaptations that characterize much of human behavior The interest in this collection will span anthropology psychology economics philosophy and political science Mammalian Social Learning Hilary O. Box, Kathleen R. Gibson, 1999-10-07 Social learning commonly refers to the social transfer of information and skill among individuals It encompasses a wide range of behaviours that include where and how to obtain food how to interact with members of one's own social group and to identify and respond appropriately to predators The behaviour of experienced individuals provides natural sources of information by which inexperienced individuals may learn about the opportunities and hazards of their environment and develop and modify their own behaviour as a result A wide diversity of species is discussed in this book some of which have never been discussed in this context before and particular reference is made to their natural life strategies Social learning in humans is also considered by comparison with other mammals especially in their technological and craft traditions Moreover a discussion is included of the social learning abilities of prehistoric hominids The Origin and Evolution of Cultures Los Angeles Robert Boyd Professor of Anthropology University of California, Davis Peter J. Richerson Professor of Environmental Science and Policy University of California, 2004-12-22 Oxford presents in one convenient and coherently organized volume 20 influential but until now relatively inaccessible articles that form the backbone of Boyd and Richerson's path breaking work on evolution and culture Their interdisciplinary research is based on two notions First that culture is crucial for understanding human behavior unlike other organisms socially transmitted beliefs attitudes and values heavily influence our behavior Secondly culture is part of biology the capacity to acquire and transmit culture is a derived component of human psychology and the contents of culture are deeply intertwined with our biology Culture then is a pool of information stored in the brains of the population that gets transmitted from one brain to another by social learning processes Therefore culture can account for both our outstanding ecological success as well as the maladaptations that characterize much of human behavior The interest in this collection will span anthropology psychology economics philosophy and political science

Social Learning William Hoppitt, Kevin N. Laland, 2013-07-21 Many animals including humans acquire valuable skills and knowledge by copying others Scientists refer to this as social learning It is one of the most exciting and rapidly developing areas of behavioral research and sits at the interface of many academic disciplines including biology experimental psychology economics and cognitive neuroscience Social Learning provides a comprehensive practical guide to the research methods of this important emerging field William Hoppitt and Kevin N. Lala define the mechanisms thought to underlie social learning and demonstrate how to distinguish them experimentally in the laboratory They present techniques for detecting and quantifying social learning in nature including statistical modeling of the spatial distribution of behavior traits They also describe the latest theory and empirical findings on social learning strategies and introduce readers to mathematical

methods and models used in the study of cultural evolution This book is an indispensable tool for researchers and an essential primer for students Provides a comprehensive practical guide to social learning research Combines theoretical and empirical approaches Describes techniques for the laboratory and the field Covers social learning mechanisms and strategies statistical modeling techniques for field data mathematical modeling of cultural evolution and more

Imitation and Social Learning in Robots, Humans and Animals Chrystopher L. Nehaniv, Kerstin Dautenhahn, 2009-04-09 Mechanisms of imitation and social matching play a fundamental role in development communication interaction learning and culture Their investigation in different agents animals humans and robots has significantly influenced our understanding of the nature and origins of social intelligence Whilst such issues have traditionally been studied in areas such as psychology biology and ethnology it has become increasingly recognised that a constructive approach towards imitation and social learning via the synthesis of artificial agents can provide important insights into mechanisms and create artefacts that can be instructed and taught by imitation demonstration and social interaction rather than by explicit programming This book studies increasingly sophisticated models and mechanisms of social matching behaviour and marks an important step towards the development of an interdisciplinary research field consolidating and providing a valuable reference for the increasing number of researchers in the field of imitation and social learning in robots humans and animals

Advances in Psychological Science, Volume 2 Fergus Craik, Michele Robert, Michel Sabourin, 2014-01-21 The chapters in this volume are the edited versions of invited addresses to the XXVI International Congress of Psychology held in Montr al in August 1996 As one major goal of the Congress was to promote communication among specializations in scientific psychology the speakers were asked to survey their research area and present their own work in a way that would be accessible to their colleagues in other areas Another purpose of the meeting was to bring researchers together from different parts of the world reflecting their different approaches to the scientific study of mind brain and behavior Consequently the eminent researchers who have written the twenty six chapters included in the present volume were drawn from universities and research institutes in North America Europe Japan Russia Israel and New Zealand The chapters cover a range of topics in human and animal experimental psychology The first section deals with psychobiological processes the interplay of body and mind in determining intelligence stress and pain The next five chapters address current issues in neuropsychology and neuroscience including the neural correlates of attention and vision A third section looks at learning processes in humans and animals and a fourth deals with a range of topics in perception and cognition The final five chapters take a developmental perspective presenting theoretical and empirical analyses of the acquisition of perceptual and cognitive abilities Overall the collection illustrates the growing trend to break down traditional barriers between areas of experimental psychology there are many instances of profitable interactions between researchers studying aspects of behavior and those studying the biological bases of these behaviors The twenty six chapters give an excellent overview of current research in scientific psychology

Imitation in Animals and Artifacts Chrystopher L. Nehaniv, Kerstin Dautenhahn, 2002 An interdisciplinary overview of current research on imitation in animals and artifacts Oxford Handbook of Evolutionary Psychology Robin Ian MacDonald Dunbar, Louise Barrett, 2007 The Oxford Handbook of Evolutionary Psychology is the definitive comprehensive and authoritative text on this burgeoning field With contributions from over fifty experts in the field the range and depth of coverage is unequalled It will be an essential resource for students and researchers in psychology **Social Information Transmission and Human Biology** Jonathan CK Wells, Simon Strickland, Kevin Laland, 2006-05-22 Recent research has emphasized that socially transmitted information may affect both the gene pool and the phenotypes of individuals and populations and that an improved understanding of evolutionary issues is beneficial to those working towards the improvement of human health In response to a growing interest across disciplines for information regarding the contribution of social behavior to a range of biological outcomes Social Information Transmission and Human Biology connects the work of evolutionary theorists and those dealing with practical issues in human health and demographics Combining evolutionary models with biomedical research authors from various disciplines look at how human behavior influences health and how reproductive fitness sheds light on the processes that shaped the evolution of human behavior Both academic and medical researchers will find much useful insight in this text **The Imaginary of Animals** Annabelle Dufourcq, 2021-07-29 This book explores the phenomenon of animal imagination and its profound power over the human imagination It examines the structural and ethical role that the human imagination must play to provide an interface between humans subjectivity and the real cognitive capacities of animals The book offers a systematic study of the increasing importance of the metaphors the virtual and figures in contemporary animal studies It explores human animal and real imaginary dichotomies revealing them to be the source of oppressive cultural structures Through an analysis of creative playful and theatric enactments and mimicry of animal behaviors and communication the book establishes that human imagination is based on animal imagination This helps redefine our traditional knowledge about animals and presents new practices and ethical concerns in regard to the animals The book strongly contends that allowing imagination to play a role in our relation to animals will lead to the development of a more empathetic approach towards them Drawing on works in phenomenology contemporary animal philosophy as well as ethological evidence and biosemiotics this book is the first to rethink the traditional philosophical concepts of imagination images the imaginary and reality in the light of a zoocentric perspective It will appeal to philosophers scholars and students in the field of animal studies as well as anyone interested in human and non human imaginations **Shared Representations** Sukhvinder S. Obhi, Emily S. Cross, 2016-11-17 Socially situated thought and behaviour are pervasive and vitally important in human society The social brain has become a focus of study for researchers in the neurosciences psychology biology and other areas of behavioural science and it is becoming increasingly clear that social behaviour is heavily dependent on shared representations Any social activity from a simple conversation to a well

drilled military exercise to an exquisitely perfected dance routine involves information sharing between the brains of those involved This volume comprises a collection of cutting edge essays centred on the idea of shared representations broadly defined Featuring contributions from established world leaders in their fields and written in a simultaneously accessible and detailed style this is an invaluable resource for established researchers and those who are new to the field Avian Cognition Carel ten Cate,Susan D. Healy,2017-06-22 The cognitive abilities of birds are remarkable hummingbirds integrate spatial and temporal information about food sources day old chicks have a sense of numbers parrots can make and use tools and ravens have sophisticated insights in social relationships This volume describes the full range of avian cognitive abilities the mechanisms behind such abilities and how they relate to the ecology of the species Synthesising the latest research in avian cognition a range of experts in the field provide first hand insights into experimental procedures outcomes and theoretical advances including a discussion of how the findings in birds relate to the cognitive abilities of other species including humans The authors cover a range of topics such as spatial cognition social learning tool use perceptual categorization and concept learning providing the broader context for students and researchers interested in the current state of avian cognition research its key questions and appropriate experimental approaches Animal Welfare and International Environmental Law Werner Scholtz,2019 At a time when the planet s wildlife faces countless dangers international environmental law continues to overlook its evolving welfare interests This thought provoking book provides a crucial exploration of how international environmental law must adapt to take account of the growing recognition of the intrinsic value of wildlife *Determinants of Animal Behaviour* Jo Anne Cartwright,2002-09-11 Are animals intelligent How do they learn to solve everyday survival problems Can they be intentionally deceptive The investigation of animal behaviour is an important and fascinating aspect of comparative psychology *Determinants of Animal Behaviour* thoroughly covers the section on determinants of animal behaviour in the AQA A comparative psychology module and deals with the three main topics featured in the syllabus Firstly the evolutionary explanations of animal behaviour are discussed including the biological explanations of apparent altruism Secondly the nature of classical and operant conditioning in animal behaviour is considered and finally the role of social learning in animals is investigated Real life examples are used throughout the book to illustrate the arguments presented *Determinants of Animal Behaviour* is an ideal introductory text to the subject full of real life examples and both traditional and cutting edge research It will be of interest to all students new to comparative psychology and highly accessible to anyone wishing to know more about the diversity and ingenuity of animal behaviour

Evolution of Nervous Systems Georg F. Striedter,Theodore H. Bullock,Todd M. Preuss,John Rubenstein,Leah A. Krubitser,2016-11-23 *Evolution of Nervous Systems* Second Edition Four Volume Set is a unique major reference which offers the gold standard for those interested both in evolution and nervous systems All biology only makes sense when seen in the light of evolution and this is especially true for the nervous system All animals have nervous systems that mediate their

behaviors many of them species specific yet these nervous systems all evolved from the simple nervous system of a common ancestor To understand these nervous systems we need to know how they vary and how this variation emerged in evolution In the first edition of this important reference work over 100 distinguished neuroscientists assembled the current state of the art knowledge on how nervous systems have evolved throughout the animal kingdom This second edition remains rich in detail and broad in scope outlining the changes in brain and nervous system organization that occurred from the first invertebrates and vertebrates to present day fishes reptiles birds mammals and especially primates including humans The book also includes wholly new content fully updating the chapters in the previous edition and offering brand new content on current developments in the field Each of the volumes has been carefully restructured to offer expanded coverage of non mammalian taxa mammals primates and the human nervous system The basic principles of brain evolution are discussed as are mechanisms of change The reader can select from chapters on highly specific topics or those that provide an overview of current thinking and approaches making this an indispensable work for students and researchers alike Presents a broad range of topics ranging from genetic control of development in invertebrates to human cognition offering a one stop resource for the evolution of nervous systems throughout the animal kingdom Incorporates the expertise of over 100 outstanding investigators who provide their conclusions in the context of the latest experimental results Presents areas of disagreement and consensus views that provide a holistic view of the subjects under discussion

Animal Models of Reproductive Behavior Raúl G. Paredes, Wendy Portillo, Marie Bedos, 2023-05-16 This volume presents the latest techniques to study several aspects of reproductive behavior in different species The chapters in this book cover topics such as methods to investigate social behavior sexual motivation and reward both of which are fundamental for the initiation of sexual behavior olfactory signaling different characteristics and models of reproductive function and parental behavior in both rats and rabbits In the Neuromethods series style chapters include the kind of detail and key advice from the specialists needed to get successful results in your laboratory Cutting edge and practical Animal Models of Reproductive Behavior is a valuable resource for both experienced researchers and students who want to incorporate new techniques into their studies of reproductive behavior

Comparative Vertebrate Cognition Lesley J. Rogers, Gisela Kaplan, 2012-12-06 This book explores afresh the long standing interest and emphasis on the special capacities of primates Some of the recent discoveries of the higher cognitive abilities of other mammals and also birds challenge the concept that primates are special and even the view that the cognitive ability of apes is more advanced than that of nonprimate mammals and birds It is therefore timely to ask whether primates are in fact special and to do so from a broad range of perspectives Divided into five sections this book deals with topics about higher cognition and how it is manifested in different species and also considers aspects of brain structure that might be associated with complex behavior

The Mentalities of Gorillas and Orangutans Sue Taylor Parker, Robert W. Mitchell, H. Lyn Miles, 1999-08-26 Research on the mental abilities of chimpanzees and bonobos has been widely celebrated

and used in reconstructions of human evolution In contrast less attention has been paid to the abilities of gorillas and orangutans This 1999 volume aims to help complete the picture of hominoid cognition by bringing together the work on gorillas and orangutans and setting it in comparative perspective The introductory chapters set the evolutionary context for comparing cognition in gorillas and orangutans to that of chimpanzees bonobos and humans The remaining chapters focus primarily on the kinds and levels of intelligence displayed by orangutans and gorillas compared to other great apes including performances in the classic domains of tool use and tool making imitation self awareness social communication and symbol use All those wanting more information on the mental abilities of these sometimes neglected but important primates will find this book a treasure trove

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