

Social influences on vocal development

EDITED BY

CHARLES T. SNOWDON & MARTINE HAUSERGER



Social Influences On Vocal Development

**Ulrike Griebel,D. Kimbrough Oller
,Irene M. Pepperberg**



Social Influences On Vocal Development:

Social Influences on Vocal Development Charles T. Snowdon, Martine Hausberger, 1997-03-20 For at least 30 years there have been close parallels between studies of birdsong development and those of the development of human language Both song and language require species specific stimulation at a sensitive period in development and subsequent practice through subsong and plastic song in birds and babbling in infant humans leading to the development of characteristic vocalisations for each species This book illustrates how social interactions during development can shape vocal learning and extend the sensitive period beyond infancy and how social companions can induce flexibility even into adulthood Social companions in a wide range of species including birds and humans but also cetaceans and nonhuman primates play important roles in shaping vocal production as well as the comprehension and appropriate usage of vocal communication This book will be required reading for students and researchers interested in animal and human communication and its development **Social**

Influences on Vocal Development in a Wild Parrot Caleb Michael Mand Arellano, 2019 [Evolutionary Perspectives on Human Development](#) Robert G. Burgess, Kevin MacDonald, 2005 This new edition of *Evolutionary Perspectives on Human Development* is obligatory reading for anyone interested in the integration of evolutionary theory into developmental psychology It provides a valuable corrective to recent narrow approaches which argue that the human mind is constructed exclusively of domain specific mechanisms and which deemphasize the importance of human psychological and behavioral plasticity Anyone who reads this book will come away with a richer understanding of our shared human nature Bill Irons Northwestern University In this volume Burgess and MacDonald have brought together a distinguished group of psychologists and anthropologists to investigate how given our evolutionary heritage genetic make up and salient environment behavior cognition and emotion unfold from the human organism They make clear that both evolutionary functional and proximate behavioral perspectives are essential to understanding the human mind and its products Many of these essays should be required reading for sociobiologists evolutionary psychologists and evolutionary anthropologists and their ilk Jeffrey Kurland Penn State It is clear that evolutionary biology has a tremendous amount to offer when it comes to our understanding of human development and yet many experts in developmental psychology have remained impervious to these insights At last this may change Burgess and MacDonald have compiled a rich array of theory and data much of it contributed by the leading lights of evolutionary psychology or if you prefer sociobiology A very valuable collection and one that might help define a new and important field David P Barash University of Washington *Evolutionary Perspectives on Human Development* Second Edition considers the role of evolutionary theory in the field of developmental psychology to examine key topics of individual human development This unique book fills an important gap in the literature applying evolutionary models to human development by focusing on central development issues The book emphasizes both domain general evolved psychological mechanisms and domain specific processes The text also integrates behavior genetic research

with evolutionary and developmental principles In this contributed volume editors Robert L Burgess and Kevin MacDonald have brought together a distinguished group of social and behavioral scientists employing multiple levels of analysis drawn from a variety of academic disciplines This diverse group of contributors illustrates the enormous power of evolutionary theory by elucidating human behavior and its development and the various ways it is manifested in different environments Evolutionary Perspectives on Human Development applies evolutionary theory to such topics as parent child relationships the maltreatment of children psychopathology cooperation and competition among siblings and the acquisition of vital resources in different cultural settings from an evolutionary point of view Key Features Comprehensive coverage of the impact of evolutionary theory on human development provides students with the most thorough foundation available in this area Contributions by leading scholars and researchers expose readers to the exciting research and developments that have been occurring in the field An introductory chapter written by the volume editors provides an accessible overview of the book Evolutionary Perspectives on Human Development provides state of the art groundwork in evolutionary theory as viewed by leading thinkers in the field It is an excellent supplementary textbook for advanced undergraduate and graduate courses in evolutionary and developmental psychology

Evolution of Communication Systems D. Kimbrough Oller, Ulrike Griebel, 2004 Using a comparative approach in order to understand the origins of communication this title explores the mysterious circumstances that surround the emergence of human languages as well as the methods that other species use in order to communicate

Primate Communication and Human Language Anne Vilain, Jean-Luc Schwartz, Christian Abry, Jacques Vauclair, 2011 After a long period where it has been conceived as iconoclastic and almost forbidden the question of language origins is now at the centre of a rich debate confronting acute proposals and original theories Most importantly the debate is nourished by a large set of experimental data from disciplines surrounding language The editors of the present book have gathered researchers from various fields with the common objective of taking as seriously as possible the search for continuities from non human primate vocal and gestural communication systems to human speech and language in a multidisciplinary perspective combining ethology neuroscience developmental psychology and linguistics as well as computer science and robotics New data and theoretical elaborations on the emergence of referential communication and language are debated here by some of the most creative scientists in the world

The Integrative Neurobiology of Affiliation Carol Sue Carter, I. Izja Lederhendler, Brian Kirkpatrick, 1999 This book examines the biological especially the neural substrates of affiliation and related social behaviors Affiliation refers to social behaviors that bring individuals closer together This includes such associations as attachment parent offspring interactions pair bonding and the building of coalitions Affiliations provide a social matrix within which other behaviors including reproduction and aggression may occur While reproduction and aggression also reduce the distance between individuals their expression is regulated in part by the positive social fabric of affiliative behavior Until recently researchers have paid little attention to the regulatory physiology

and neural processes that subserve affiliative behaviors The integrative approach in this book reflects the constructive interactions between those who study behavior in the context of natural history and evolution and those who study the nervous system The book contains the partial proceedings of a conference of the same title held in Washington DC in 1996 The full proceedings was published as part of the Annals of the York Academy of Sciences Handbook of Parenting Marc H. Bornstein, 2005-02-16 Despite the fact that most people become parents and everyone who has ever lived has had parents parenting remains a mystifying subject about which almost everyone has opinions but about which few people agree Striking permutations on the theme of parenting are emerging single parenthood blended families lesbian and gay parents and teen versus fifties first time moms and dads Divided into four volumes the Handbook of Parenting is concerned with different types of parents basic characteristics of parenting forces that shape parenting problems faced by parents and the practical sides of parenting Contributors have worked in different ways toward understanding all of these diverse aspects of parenting and look to the most recent research and thinking in the field to shed light on many topics every parent has wondered about Because development is too subtle dynamic and intricate to admit that parental caregiving alone determines the course and outcome of ontogeny volume 1 concerns how children influence parenting Volume 2 relates parenting to its biological roots and sets parenting in its ecological framework Volume 3 distinguishes among the cast of characters responsible for parenting and is revealing of the psychological make ups and social interests of those individuals Volume 4 describes problems of parenting as well as the promotion of positive parenting practices Written to be read and absorbed in a single sitting each chapter addresses a different but central topic in parenting and is rooted in current thinking and theory as well as classic and modern research on that topic All chapters follow a standard organization including an introduction to the chapter as a whole followed by historical considerations of the topic a discussion of central issues and theory a review of classic and modern research forecasts of future directions for theory and research and a conclusion In addition to considering their own convictions and research the chapter contributors present and broadly interpret all major points of view and central lines of inquiry Speech Motor Control Ben Maassen, 2007-08-16 In our everyday communication we transfer sentences concepts thoughts and ideas How though is the speaker able to convert these into movements of the speech apparatus This volume presents state of the art research in the science of speech motor control and speech disorders **The Oxford Handbook of Human Symbolic Evolution** Nathalie Gontier, Andy Lock, Chris Sinha, 2024 The Oxford Handbook of Human Symbolic Evolution explores the origins of our characteristically human abilities our ability to speak create images play music and read and write The book investigates how symbolization evolved in human evolution and how symbolism is expressed across the various areas of human life *Developmental Psychobiology* Elliott M. Blass, 2012-12-06 ELLIOTT M BLASS Fifteen years have passed since the first volume on developmental psychobiology Blass 1986 appeared in this series and 13 since the publication of the second volume Blass 1988 These volumes documented the status of the broad domain of scientific inquiry

called developmental psychobiology and were also written with an eye to the future. The future has been revolutionary in at least three ways. First, there was the demise of a descriptive ethology as we had known it to be replaced first by sociobiology and later by its more sophisticated versions based on quantitative predictions of social interactions that reflected relatedness and inclusive fitness. Second, there was the emergence of cognitive science including cognitive development as an enormously strong and interactive multidisciplinary effort. Making the functional brain more accessible made this revolution all the more relevant to our discipline. In the laboratory, immunocytochemical detection of immediate early genes such as *fos* now allows us to trace neuronal circuits activated during complex behaviors. The functional brain of primates, especially humans, was also made very accessible through neuroimaging with which we can look at and into brains as they solve and attempt to solve particular tasks. Those of us who were trained in neurology as graduate students two or three decades ago recognize only the people in white coats and patients in beds or on gurneys when we visit neurological units today. The rest is essentially new.

The SAGE Handbook of Gender and Psychology Michelle K. Ryan, Nyla R. Branscombe, 2013-09-23. The SAGE Handbook of Gender and Psychology is a unique state-of-the-art synthesis of the known work combined with current research trends in the broad field of gender and psychology. In the past 35 years, academic publications on the subject have increased tenfold, and this level of activity as well as the diversity of research looks set to increase in the coming years too. The time is ideal for a systematic review of the field. Contributions come from academics around the world and many different disciplines, and as a result, multiple perspectives and a diversity of methodologies are presented to understand gender and its implications for behaviour. Chapters cover a wide variety of topics, theoretical approaches, contexts, and social issues; they also critically examine the key issues and current debates. Both advanced students and scholars will find extensive range and depth in the topics covered across the Handbook's 29 chapters. Published as a single volume, the handbook is aimed at individuals as well as the library market. The SAGE Handbook of Gender and Psychology will have mass appeal across the field of psychology, including social psychology and gender and psychology, as well as a number of other subject groups such as gender studies, sociology, organizational behaviour, and political science.

[Encyclopedia of Animal Behavior](#), 2009-04-01. The Encyclopedia of Animal Behavior Three Volume Set has engaged with great success the efforts of many of the best behavioral biologists of the 21st century. Section editors drawn from the most accomplished behavioral scientists of their generation have enrolled an international cast of highly respected thinkers and writers, all of whom have taken great care and joy in illuminating every imaginable corner of animal behavior. This comprehensive work covers not only the usual topics such as communication, learning, sexual selection, navigation, and the history of the field, but also emerging topics in cognition, animal welfare, conservation, and applications of animal behavior. The large section on animal cognition brings together many of the world's experts on the subject to provide a comprehensive overview of this rapidly developing area. Chapters relating to animal welfare give a full view of behavioral interactions of humans with companion animals, farm animals, and animals in the

wild The key role of animal behavior in conservation biology receives broad attention including chapters on topics such as the effects of noise pollution captive breeding and how the behavioral effects of parasites interacts with conservation issues Animal behavior in environmental biology is highlighted in chapters on the effects of endocrine disruptors on behavior and a large number of chapters on key species such as wolves chimpanzees hyenas and sharks Clear accessible writing complements a wealth of information for undergraduate college students about the essential concepts of animal behavior and the application of those concepts across the field In depth coverage of concepts methods and exemplar organisms serves the needs of graduate students and professionals in the field From the use of behavior in assessing the welfare of pigs to the social behavior of insects from animal empathy to bat brains this authoritative reference with its in depth introductory articles rich array of illustrations interactive cross referenced links and numerous suggested readings can guide the student or the professional to an expanded appreciation of the far flung world of animal behavior An invaluable tool for teaching and a source of enrichment and detail for any topic covered in an animal behavior course the Encyclopedia of Animal Behavior is the definitive reference work in its field and will be for years to come Comprehensive work which covers the usual topics along with emerging areas of animal behavior This encyclopedia contains clear accessible writing and is well illustrated including an online video complimenting a wealth of information As an online reference this work will be subject to period updating This ensures that the work always remains current Contains in depth introductions to the material that make each well illustrated section come alive with the best the new content the discipline has to offer Glossary includes a compendium of behavioral terms that form a succinct mosaic of virtually every concept and phenomenon related to animal behavior Section editors drawn from around the world represent the best and the brightest among today s behavioral biologists and have recruited a broad range of internationally recognized experts Editors in Chief are experienced scientists and writers who between them have authored or edited eight books and teach courses in animal behavior at their respective universities

Emotions of Animals and Humans Shigeru Watanabe, Stan Kuczaj, 2012-08-31 This book takes a multidisciplinary approach to emotion with contributions from biologists psychologists neuroscientists robot engineers and artists A wide range of emotional phenomena is discussed including the notion that humans sophisticated sensibility as evidenced by our aesthetic appreciation of the arts is based at least in part on a basic emotional sensibility that is found in young children and perhaps even some non human animal species As a result this book comprises a unique comparative perspective on the study of emotion A number of chapters consider emotions in a variety of animal groups including fish birds and mammals Other chapters expand the scope of the book to humans and robots Specific topics covered in these chapters run the gamut from lower level emotional activity such as emotional expression to higher level emotional activity such as altruism love and aesthetics Taken as a whole the book presents manifold perspectives on emotion and provides a solid foundation for future multidisciplinary research on the nature of emotions

Electricity Transmission Pricing and Technology A.F. Kalverboer, A.

Gramsbergen,2001-11-30 The electric utility industry and its stakeholders in the United States appear to be at a critical juncture in time Powerful forces of global proportions are propelling the industry instinctively and in a secular fashion towards restructuring That the industry will change is a fait accompli The nature and timing of the change is still a matter of intense debate however Because of the evolution of the industry into its present day form i e regulated local monopolies in their designated franchise service territories the relative roles and expectations of various institutions would have to change to conform to the new state in the future In either encouraging or allowing this change to happen society is essentially saying that future societal welfare would be better served by the changed structure contemplated What that assumption translates into in more direct terms is that creation of future wealth would be better accomplished through redistribution of wealth today Thoughtful individuals recognize the enormous responsibility placed upon the various entities empowered with jurisdiction over the timing and nature of the structural change They are trying hard to bring analytical rigor to bear on the debate One very critical element of this debate on restructuring is the issue of the treatment of transmission The issue has been variously labeled transmission access or pricing Volumes have been written and spoken on this topic **Acoustic**

Communication Andrea Simmons,Richard R. Fay,2006-04-18 In order to communicate animals send and receive signals that are subject to their particular anatomical psychological and environmental constraints This SHAR volume discusses both the production and perception of acoustic signals Chapters address the information that animals communicate how the communication is developed and learned and how communication systems have adapted and evolved within species The book will give examples from a variety of species **Parrots of the Wild** Catherine A. Toft,Timothy F. Wright,2015-11-16 Parrots

of the Wild is an exhaustive compendium of information about parrots from their evolutionary history to their behavior to present day conservation issues A must have for anyone interested in these amazing creatures Irene M Pepperberg Professor at Harvard University and author of Alex Me How a Scientist and a Parrot Discovered a Hidden World of Animal Intelligence and Formed a Deep Bond in the Process If you like parrots then you ll love this book From their evolutionary past to their modern day love lives Parrots of the Wild presents a suitably captivating read I thought I knew a lot about parrots until I delved into these pages Tony Juniper author of What Has Nature Ever Done for Us and Spix s Macaw The Race to Save the World s Rarest Bird Parrots of the Wild explores recent scientific discoveries and what they reveal about the lives of wild parrots which are among the most intelligent and rarest of birds Catherine A Toft and Tim Wright discuss the evolutionary history of parrots and how this history affects perceptual and cognitive abilities diet and foraging patterns and mating and social behavior The authors also discuss conservation status and the various ways different populations are adapting to a world that is rapidly changing The book focuses on general patterns across the 350 odd species of parrots as well as what can be learned from interesting exceptions to these generalities A synthetic account of the diversity and ecology of wild parrots this book distills knowledge from the authors own research and from their review of more than 2 400 published

scientific studies The book is enhanced by an array of illustrations including nearly ninety color photos of wild parrots represented in their natural habitats Parrots of the Wild melds scientific exploration with features directed at the parrot enthusiast to inform and delight a broad audience

Oxford Handbook of Developmental Behavioral Neuroscience

Mark Blumberg, John Freeman, Scott R. Robinson, 2010 The Oxford Handbook of Developmental Behavioral Neuroscience is a seminal reference work in the burgeoning field of developmental behavioral neuroscience which has emerged in recent years as an important sister discipline to developmental psychobiology This handbook part of the Oxford Library of Neuroscience provides an introduction to recent advances in research at the intersection of developmental science and behavioral neuroscience while emphasizing the central research perspectives of developmental psychobiology Contributors to the Oxford Handbook of Developmental Behavioral Neuroscience are drawn from a variety of fields including developmental psychobiology neuroscience comparative psychology and evolutionary biology demonstrating the opportunities to advance our understanding of behavioral and neural development through enhanced interactions among parallel disciplines In a field ripe for collaboration and integration the Oxford Handbook of Developmental Behavioral Neuroscience provides an unprecedented overview of conceptual and methodological issues pertaining to comparative and developmental neuroscience that can serve as a roadmap for researchers and a textbook for educators Its broad reach will spur new insights and compel new collaborations in this rapidly growing field

The Quest for Symbolic Communication in Non-Human Animals

Ulrike Griebel, D. Kimbrough Oller, Irene M. Pepperberg, 2024-06-13 Human language is unique among animals We assume that complex cognitive capacities in general and language in particular evolved gradually and thus are manifest in different kinds and or degrees in other animals demonstrating social communication This assumption is supported by the fact that we can train social species from very different groups of animals e g great apes dolphins dogs parrots to understand and in several cases even use abstract symbols for communication with humans and conspecifics Even simple grammatical rules for sequences of 2 3 symbols can be trained to be understood by several species e g great apes dogs dolphins Even though human language training in these species takes considerable time and effort it convinces us that cognitive foundations for language are present in other species and given the relevant selection pressures symbolic communication could evolve in other species

The Emergence of the Speech Capacity

D. Kimbrough Oller, 2000-01-01 Recent studies of vocal development in infants have shed new light on old questions of how the speech capacity is founded and how it may have evolved in the human species Vocalizations in the very first months of life appear to provide previously unrecognized clues to the earliest steps in the process by which language came to exist and the processes by which communicative disorders arise Perhaps the most interesting sounds made by infants are the uniquely human protophones loosely babbling the precursors to speech Kimbrough Oller argues that these are most profitably interpreted in the context of a new infrastructural model of speech The model details the manner in which well formed speech units are constructed and it reveals how infant

vocalizations mature through the first months of life by increasingly adhering to the rules of well formed speech He lays out many advantages of an infrastructural approach Infrastructural interpretation illuminates the significance of vocal stages and highlights clinically significant deviations such as the previously unnoticed delays in vocal development that occur in deaf infants An infrastructural approach also specifies potential paths of evolution for vocal communicative systems

Infrastructural properties and principles of potential communicative systems prove to be organized according to a natural logic some properties and principles naturally presuppose others Consequently some paths of evolution are likely while others can be ruled out An infrastructural analysis also provides a stable basis for comparisons across species comparisons that show how human vocal capabilities outstrip those of their primate relatives even during the first months of human infancy The Emergence of the Speech Capacity will challenge psychologists linguists speech pathologists and primatologists alike to rethink the ways they categorize and describe communication Oller's infraphonological model permits provocative reconceptualizations of the ways infant vocalizations progress systematically toward speech insightful comparisons between speech and the vocal systems of other species and fruitful speculations about the origins of language

The Neuroethology of Birdsong Jon T. Sakata, Sarah C. Woolley, Richard R. Fay, Arthur N. Popper, 2020-03-19 Vocal signals are central for social communication across a wide range of vertebrate species consequently it is critical to understand the mechanisms underlying the learning control and evolution of vocal communication Songbirds are at the forefront of research into such neural mechanisms Indeed songbirds provide a particularly important model system for this endeavor because of the many parallels between birdsong and human speech Specifically 1 songbirds are one of the few vertebrate species that like humans learn their vocal signals during development 2 the processes of song learning and control in songbirds shares many parallels with the process of speech acquisition in humans and 3 there exist deep homologies between the circuits for the learning control and processing of vocal signals across songbirds and humans In addition because of the diversity of songbirds and song learning strategies songbirds offer a powerful model system to use the comparative method to reveal mechanisms underlying the evolution of song learning and production Taken together research on songbirds can not only reveal general principles underlying vertebrate vocal communication but can also provide insight into potential mechanisms underlying the learning control and processing of speech This volume will cover a range of topics in birdsong spanning multiple level of analysis Chapters will be authored by the world's leading experts on birdsong and will provide comprehensive reviews of the processes underlying song learning of the neural circuits for song learning and control as well as for the extraction and processing of song information of the selection pressures underlying song evolution and of genetic and molecular mechanisms underlying the learning and evolution of song The primary goals of this volume are to provide comprehensive integrative and comparative perspectives on birdsong and to underscore the importance of birdsong to biomedical research evolutionary biology and behavioral systems and computational neuroscience The target audience of this volume will be

graduate students postdoctoral fellows and established academics and neuroscientists who are interested in mechanisms of communication from an integrative and comparative perspective The volume is intended to function as a high profile and contemporary reference on current work related to the learning control processing and evolution of birdsong This volume will have broad appeal to comparative and sensory biologists neurophysiologists and behavioral systems and cognitive neuroscientists who attend meetings such as the Society for Neuroscience the International Society for Neuroethology and the Society for Integrative and Comparative Biology Because of the relevance of birdsong research to understanding human speech it is likely that the volume will also be of interest to speech researchers and clinicians researching communication motor and sensory processing disorders

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