

the  
emergence  
of the  
speech  
capacity



d. kimbrough oller

# Emergence Of The Speech Capacity

**Barbara L. Davis, Lisa M. Bedore**



## **Emergence Of The Speech Capacity:**

**The Emergence of the Speech Capacity** D. Kimbrough Oller, 2000 Oller constructs a new infrastructural model of vocal communication systems that permits provocative reconceptualizations of the ways infant vocalizations progress systematically toward speech insightful comparisons between **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 ***Emergence of Linguistic Abilities*** Frédérique Gayraud, Sophie Kern, Egidio Marsico, 2009-03-26 This book attempts to address an interrelated set of issues about the emergence of linguistic abilities in the child The various chapters intend to shed light on a particular and critical period in language development the first three years of life It is generally assumed in the field of the ontogeny of language that the child s first years of life are particularly crucial This period is even sometimes considered as predictive at least in the short term of the later abilities to communicate During these first three years gestures phonetico phonological lexical and morpho syntactic skills chronologically emerge The main goal of this book is to address the issue of continuity between the developments of the different language components by the means of recent findings of experts in each domain Furthermore the originality of this selection of chapters is to broaden the

scope of the discussion by including papers dealing with related phenomena but from different perspectives such as phylogeny pathology and animal communication This book primarily concerns graduate students and researchers in the field of language acquisition but the audience can also include scholars from evolution of language language pathology animal communication ontogeny phylogeny research fields      Blackwell Handbook of Language Development Erika Hoff, Marilyn Shatz, 2009-05-11 The Blackwell Handbook of Language Development provides a comprehensive treatment of the major topics and current concerns in the field exploring the progress of 21st century research its precursors and promising research topics for the future Provides comprehensive treatments of the major topics and current concerns in the field of language development Explores foundational and theoretical approaches Focuses on the 21st century s research into the areas of brain development computational skills bilingualism education and cross cultural comparison Looks at language development in infancy through early childhood as well as atypical development Considers the past work present research and promising topics for the future Broad coverage makes this an excellent resource for graduate students in a variety of disciplines      *An Emergence Approach to Speech Acquisition* Barbara L. Davis, Lisa M. Bedore, 2013-07-24 The central assertion in this volume is that the young child uses general skills scaffolded by adults to acquire the complex knowledge of sound patterns and the goal directed behaviors for communicating ideas through language and producing speech A child s acquisition of phonology is seen as a product of her physical and social interaction capacities supported by input from adult models about ambient language sound patterns Acquisition of phonological knowledge and behavior is a product of this function oriented complex system No pre existing mental knowledge base is necessary for acquiring phonology in this view Importantly the child s diverse abilities are used for many other functions as well as phonological acquisition Throughout an evaluation is made of the research on patterns of typical development across languages in monolingual and bilingual children and children with speech impairments affecting various aspects of their developing complex system Also considered is the status of available theoretical perspectives on phonological acquisition relative to an emergence proposal and contributions that this perspective could make to more comprehensive modeling of the nature of phonological acquisition are proposed The volume will be of interest to cognitive psychologists linguistics and speech pathologists      *Advances in the Spoken-Language Development of Deaf and Hard-of-Hearing Children* Patricia Elizabeth Spencer, Marc Marschark, 2006 Contributors present the latest information on both the new world evolving for deaf hard of hearing children the improved expectations for their acquisition of spoken language      *Developmental Phonological Disorders* Susan Rvachew, Françoise Brosseau-Lapré, 2016-12-30 Developmental Phonological Disorders Foundations of Clinical Practice Second Edition is the only graduate level textbook designed for a competency based approach to teaching learning and assessment The book provides a deep review of the knowledge base necessary for the competent assessment diagnosis and treatment of developmental phonological disorders Thoroughly revised and updated the textbook contains learning objectives in each

chapter to further support understanding of concepts and carefully designed case studies and demonstrations to promote application to clinical problem solving Key Features Learning objectives for each chapter subsection Includes the how why and when to apply each assessment and treatment procedure in clinical practice 62 tables containing clinically relevant information such as normative data to interpret phonological assessment results 99 figures to support clinical decision making such as recommending a treatment delivery model selecting treatment targets or choosing evidence based interventions 35 case studies to support a competency based approach to teaching and assessment 35 demonstrations that show how to implement assessment and treatment procedures The second edition provides a comprehensive overview of seminal studies and leading edge research on both phonological development and phonological disorders including motor speech disorders and emergent literacy This wealth of theoretical background is integrated with detailed descriptions and demonstrations of clinical practice allowing the speech language pathologist to design interventions that are adapted to the unique needs of each child while being consistent with the best research evidence New to the Second Edition Updated and expanded section on childhood apraxia of speech Updated and expanded sections on the identification and treatment of inconsistent phonological disorder Administration and interpretation of the Syllable Repetition Task added Administration and interpretation of the Diagnostic Evaluation of Articulation and Phonology added with case studies and demonstrations New organization formatting and editing to reduce the size of the book Case studies revised to a single page format Improved Table of Contents to ease access to content including norms tables case studies and demonstrations

**International Handbook of Language Acquisition** Jessica Horst, Janne von Koss Torkildsen, 2019-05-01 How do children acquire language How does real life language acquisition differ from results found in controlled environments And how is modern life challenging established theories Going far beyond laboratory experiments the International Handbook of Language Acquisition examines a wide range of topics surrounding language development to shed light on how children acquire language in the real world The foremost experts in the field cover a variety of issues from the underlying cognitive processes and role of language input to development of key language dimensions as well as both typical and atypical language development Horst and Torkildsen balance a theoretical foundation with data acquired from applied settings to offer a truly comprehensive reference book with an international outlook The International Handbook of Language Acquisition is essential reading for graduate students and researchers in language acquisition across developmental psychology developmental neuropsychology linguistics early childhood education and communication disorders

*Handbook of Vowels and Vowel Disorders* Karen Pollock, 2013-05-07 In the general study of speech and phonetics vowels have stood in second place to consonants But what vowels are how they differ from one another how they vary among speakers and how they are subject to disorder are questions that require a closer examination This Handbook presents a comprehensive cogent and up to date analysis of the vowel including its typical development in children s speech description by perceptual and instrumental methods cross linguistic and sociolinguistic

aspects and disorders of its production and use. It approaches the problems of vowel production and perception from the viewpoints of physiology, physics, psychology, linguistics, phonetics, phonology, and speech language pathology. The chapters are logically complementary and the major sections of the book are like key dimensions of understanding, each adding a perspective and base of knowledge on vowels. The sum total of the chapters is a synthesis of information on vowels that has no precedent.

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 Handbook of Phonetic Sciences* William J. Hardcastle, John Laver, Fiona E. Gibbon, 2012-09-17. Thoroughly revised and updated, the second edition of *The Handbook of Phonetic Sciences* provides an authoritative account of the key topics in both theoretical and applied areas of speech communication, written by an international team of leading scholars and practitioners. Combines new and influential research along with articulate overviews of the key topics in theoretical and applied areas of speech communication. Accessibly structured into five major sections covering experimental phonetics, biological perspectives, modelling speech production and perception, linguistic phonetics, and speech technology. Includes nine entirely new chapters on topics such as phonetic notation and sociophonetics, speech technology, biological perspectives, and prosody. A streamlined and re-oriented structure brings all contributions up to date with the latest research whilst maintaining the features that made the first edition so useful.

Turn-taking in human communicative interaction Judith Holler, Robin H. Kendrick, Marisa Casillas, 2016-05-09. The core use of language is in face-to-face conversation. This is characterized by rapid turn-taking. This turn-taking poses a number of central puzzles for the psychology of language. Consider, for example, that in large corpora the gap between turns is on the order of 100 to 300 ms, but the latencies involved in language production require minimally between 600 ms for a single word or 1500 ms for a simple sentence. This implies that participants in conversation are predicting the ends of the incoming turn and preparing in

advance But how is this done What aspects of this prediction are done when What happens when the prediction is wrong What stops participants coming in too early If the system is running on prediction why is there consistently a mode of 100 to 300 ms in response time The timing puzzle raises further puzzles it seems that comprehension must run parallel with the preparation for production but it has been presumed that there are strict cognitive limitations on more than one central process running at a time How is this bottleneck overcome Far from being easy as some psychologists have suggested conversation may be one of the most demanding cognitive tasks in our everyday lives Further questions naturally arise how do children learn to master this demanding task and what is the developmental trajectory in this domain Research shows that aspects of turn taking such as its timing are remarkably stable across languages and cultures but the word order of languages varies enormously How then does prediction of the incoming turn work when the verb often the informational nugget in a clause is at the end Conversely how can production work fast enough in languages that have the verb at the beginning thereby requiring early planning of the whole clause What happens when one changes modality as in sign languages with the loss of channel constraints is turn taking much freer And what about face to face communication amongst hearing individuals do gestures gaze and other body behaviors facilitate turn taking One can also ask the phylogenetic question how did such a system evolve There seem to be parallels analogies in duetting bird species and in a variety of monkey species but there is little evidence of anything like this among the great apes All this constitutes a neglected set of problems at the heart of the psychology of language and of the language sciences This Research Topic contributes to advancing our understanding of these problems by summarizing recent work from psycholinguists developmental psychologists students of dialog and conversation analysis linguists phoneticians and comparative ethologists

**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 Oxford Handbook of Deaf Studies, Language, and Education, Vol. 2** Marc Marschark,Patricia Elizabeth Spencer,2010-06-28

Oxford Handbooks offer authoritative and up to date reviews of original research in a particular subject area Specially commissioned chapters from leading figures in the discipline give critical examinations of the progress and direction of

debates as well as a foundation for future research Oxford Handbooks provide scholars and graduate students with compelling new perspectives upon a wide range of subjects in the humanities social sciences and sciences The adage Those who do not learn from history are doomed to repeat it is a powerful one for parents teachers and other professionals involved with or interested in deaf individuals or the Deaf community Myths grown from ignorance have long dogged the field and faulty assumptions and overgeneralizations have persisted despite contrary evidence A study of the history of deaf education reveals patterns that have affected educational policy and legislation for deaf people around the world these patterns are related to several themes critical to the chapters of this volume One such theme is the importance of parental involvement in raising and educating deaf children Another relates to how Deaf people have taken an increasingly greater role in influencing their own futures and places in society In published histories we see the longstanding conflicts through the centuries that pertain to sign language and spoken communication philosophies as well as the contributions of the individuals who advocated alternative strategies for teaching deaf children More recently investigators have recognized the need for a diverse approach to language and language learning Advances in technology cognitive science linguistics and the social sciences have alternately led and followed changes in theory and practice resulting in a changing landscape for deaf and hard of hearing individuals and those connected to them This second volume of the The Oxford Handbook of Deaf Studies Language and Education 2003 picks up where that first landmark volume left off describing those advances and offering readers the opportunity to understand the current status of research in the field while recognizing the opportunities and challenges that lie ahead In Volume 2 an international group of contributing experts provide state of the art summaries intended for students practitioners and researchers Not only does it describe where we are it helps to chart courses for the future

Cognitive Linguistics - Key Topics Ewa Dąbrowska,Dagmar Divjak,2019-07-08 The key topics discussed in this book illustrate the breadth of cognitive linguistic research and include semantic typology space fictive motion argument structure constructions and prototype effects in grammar New themes such as individual differences emergence and default non salient interpretations also receive coverage

**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 developmental 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.

Language and History Nigel Love, 2006-04-18. When linguistics was first established as an academic discipline in the nineteenth century, it was envisaged as an essentially historical study. Languages were to be treated as historical objects evolving through gradual but constant processes of change over long periods of time. In recent years, however, there has been much discussion by historians of a linguistic turn in their own discipline, and in linguistics, integrationist theory has mounted a radical challenge to the traditional notion of languages as possible objects of inquiry. *Language and History* develops the integrationist critique of orthodox linguistics while at the same time extending its implications to the field of history. By doing so, it throws light on what is now recognized by many historians to be a crisis in their own discipline.

Underlying the post modernist scepticism about traditional forms of historiography the integrationist approach reveals a more deep seated problem concerning the interface between philosophy of history and philosophy of language With chapters from a range of leading international contributors Language and History represents a significant contribution to the developing work of the integrationists

**Phonological Templates in Development** Marilyn May Vihman, 2019-10-30 This book explores the role of phonological templates in early language use from the perspective of usage based phonology and exemplar models and within the larger developmental framework of Dynamic Systems Theory After analysing children s first words and their adult targets Vihman sets out procedures for establishing the children s later prosodic structures and templates drawing on data from American and British English Estonian Finnish French Italian and Welsh she also provides briefer longitudinal accounts of template use in Arabic and Brazilian Portuguese The children are found to begin with simple word forms that match their selected adult targets this is followed by the production of more challenging words adapted to fit the child s existing patterns Early accuracy is replaced by later recourse to an inner model a template of a favoured word shape The book also examines the timing fading quantification and function of child phonological templates In addition two chapters focus on the use of templates in adult language in the core grammar and in the more creative morphology of colloquial short forms and hypocoristics in French and Estonian and of English rhyming compounds The idea of templates is traced back to its origins in Prosodic Morphology but its uses are most in evidence in the informal settings of adult language at play Throughout the volume the discussion returns to the issues of emergent systematicity the roles of articulatory and memory challenges for children and the similarities and differences in the function of templates for adults as compared with children

**Comprehensive Handbook of Pediatric Audiology, Second Edition** Anne Marie Tharpe, Richard Seewald, 2016-02-19 The Comprehensive Handbook of Pediatric Audiology Second Edition is the most wide ranging and complete work of its kind and has become the definitive reference in the specialty area of pediatric audiology Content areas range from typical auditory development to identification and diagnostic processes to medical and audiologic management of childhood hearing and ear disorders An interdisciplinary assembly of sixty six internationally recognized experts from the fields of audiology speech language pathology education pediatric medicine otology and hearing science have contributed to this second edition Building from the success of the first edition and aligning with the evolution of the profession this edition expands and deepens its coverage of early identification of hearing loss etiology and medical considerations and hearing technologies especially implantable devices and the measurement of outcomes resulting from intervention Updates to the new edition include New chapters on the measurement of outcomes resulting from intervention preventable hearing loss implementation of newborn hearing screening programs and the future of implantable devices among others Reorganization for improved sequencing of content area Substantially updated chapters The Comprehensive Handbook of Pediatric Audiology Second Edition is intended for use in doctoral level education programs in audiology or hearing science as well as to serve as

an in depth reference source for practicing audiologists and other professionals educators scientists and policy makers seeking current and definitive information on evidence based pediatric audiology practice      **Phonetics and Phonology**

Marina Cláudia Vigário, Sonia Frota, Maria João Freitas, 2009 The papers included in the volume Phonetics and Phonology Interactions and interrelations are concerned with some of the multiple possible forms of interactions and interrelations in phonetics and phonology the phonetic and or phonological nature of speech patterns segmental and prosodic interactions and interactions between segments and features both in child and in adult language combining perception and production data and doing so from theoretically as well as experimentally oriented perspectives The book is unique in the universe of recent publications for its topic wide scope and coherent thematic content It is of interest to all researchers teachers and students in the fields of phonetics and phonology as well as to those interested in the interplay between production and perception the organization of grammar and language typology In general Phonetics and Phonology Interactions and interrelations may be a useful companion to all those wishing to widen and deepen their knowledge of the sound structure of language s

## **Emergence Of The Speech Capacity** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Emergence Of The Speech Capacity**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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