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The Emergence of Language Development and Evolution

WILLIAM S.-Y. WANG

THE EMERGENCE OF LANGUAGE IS ONE OF THE MOST IMPORTANT QUESTIONS IN THE HISTORY OF HUMANITY. IT IS A QUESTION THAT HAS BEEN ASKED FOR CENTURIES AND IS STILL BEING ASKED TODAY. THE ANSWER IS NOT KNOWN, BUT THE QUEST IS STILL GOING ON.



Emergence Of Language Development And Evolution

Rudolf Botha, Martin Everaert



Emergence Of Language Development And Evolution:

The Emergence of Language William S.-Y. Wang, 1991 EDUCATION The Evolution of Language Out of Pre-language Talmy Givón, Bertram F. Malle, 2002-01-01 The contributors to this volume are linguists psychologists neuroscientists primatologists and anthropologists who share the assumption that language just as mind and brain are products of biological evolution The rise of human language is not viewed as a serendipitous mutation that gave birth to a unique linguistic organ but as a gradual adaptive extension of pre existing mental capacities and brain structures The contributors carefully study brain mechanisms diachronic change language acquisition and the parallels between cognitive and linguistic structures to weave a web of hypotheses and suggestive empirical findings on the origins of language and the connections of language to other human capacities The chapters discuss brain pathways that support linguistic processing origins of specific linguistic features in temporal and hierarchical structures of the mind the possible co evolution of language and the reasoning about mental states and the aspects of language learning that may serve as models of evolutionary change **The Evolutionary Emergence of Language** Chris Knight, Michael Studdert-Kennedy, James Hurford, 2000-11-20 Language has no counterpart in the animal world Unique to Homo sapiens it appears inseparable from human nature But how when and why did it emerge The contributors to this volume linguists anthropologists cognitive scientists and others adopt a modern Darwinian perspective which offers a bold synthesis of the human and natural sciences As a feature of human social intelligence language evolution is driven by biologically anomalous levels of social cooperation Phonetic competence correspondingly reflects social pressures for vocal imitation learning and other forms of social transmission Distinctively human social and cultural strategies gave rise to the complex syntactical structure of speech This book presenting language as a remarkable social adaptation testifies to the growing influence of evolutionary thinking in contemporary linguistics It will be welcomed by all those interested in human evolution evolutionary psychology linguistic anthropology and general linguistics *The Evolutionary Emergence of Language* Rudolf Botha, Martin Everaert, 2013-07-25 Leading primatologists cognitive scientists anthropologists and linguists consider how language evolution can be understood by means of inference from the study of linked or analogous phenomena in language animal behaviour genetics neurology culture and biology Language Evolution Morten H. Christiansen, Simon Kirby, 2003-07-24 What is it that makes us human This is one of the most challenging and important questions we face Our species defining characteristic is language we appear to be unique in the natural world in having such an incredibly open ended system for putting thoughts into words If we are to truly understand ourselves as a species we must understand the origins of this strange and unique ability To do so we need to answer some of the most intriguing questions in contemporary scientific research Where did language come from How did it evolve Why are we unique in possessing it This book for the first time brings together the leading thinkers who are trying to unlock the puzzle of language evolution Here we see the latest ideas and theories from fields as diverse as anthropology archaeology

artificial life biology cognitive science linguistics neuroscience and psychology In a series of seventeen well written and accessible chapters we get an unrivalled view of the state of the art in this exciting area Current controversies are revealed and new perspectives uncovered in a clear and readable guide to the latest theories This collection marks a major step forward in our quest to understand the origins and evolution of human language In doing so it sheds new light on the process of evolution the workings of the brain the structure of language and most importantly what it means to be human Language Evolution is essential reading for researchers and students working in the areas covered and has been used as a textbook for courses in the field It will also attract the general reader who wants to know more about this fascinating subject Vico, Metaphor, and the Origin of Language Marcel Danesi, 1993-09-22 serious scholars of Vico as well as glottogeneticists will find much of value in this excellent monograph New Vico Studies a provocative well researched argument which might find reapplication in the fields of anthropology semiotics archeology psychology or even philosophy Theological Book Review Danesi returns to the work of the 18th century Italian philosopher Giambattista Vico to create a persuasive original account of the evolution and development of language one of the deep mysteries of human existence The Vichian reconstruction of the origin of language is described at length then evaluated in light of contemporary research in the cognitive social and biological sciences *Language Evolution* Rudolf P. Botha, 2016-03-03 Addresses the question how can we unravel the evolution of language given that there is no direct evidence about it *The Motor Theory of Language Origin* Robin Allott, 2012-02-03 The motor theory is about the process by which language emerged and developed and how it functions now in human speech The concern is with both synchronic and the diachronic aspects of language language evolving over time and differentiating over space In English alone we have half a million words and endless syntatic complexities as Chomsky has demonstrated Add the multitude of other languages that exist and have existed and it is apparent that language is a massive multiply faceted fact in time and space Where did all the complexity come from Whence the power of words seen in so many diverse forms of human interaction How does this thread of sound tie our minds together **Approaches to the Evolution of Language** James R. Hurford, Michael Studdert-Kennedy, Chris Knight, 1998-09-17 This is one of the first systematic attempts to bring language within the neo Darwinian framework of modern evolutionary theory without abandoning the vast gains in phonology and syntax achieved by formal linguistics over the past forty years The contributors linguists psychologists and paleoanthropologists address such questions as what is language as a category of behavior is it an instrument of thought or of communication what do individuals know when they know a language what cognitive perceptual and motor capacities must they have to speak hear and understand a language For the past two centuries scientists have tended to see language function as largely concerned with the exchange of practical information By contrast this volume takes as its starting point the view of human intelligence as social and of language as a device for forming alliances in exploring the origins of the sound patterns and formal structures that characterize language *The Evolution of Language*

Angelo Cangelosi, Andrew D. M. Smith, Kenny Smith, 2006 This volume comprises refereed papers and abstracts from the 6th International Conference on the Evolution of Language EVOLANG6 The biennial EVOLANG conference focuses on the origins and evolution of human language and brings together researchers from many disciplines including anthropology archaeology artificial life biology cognitive science computer science ethology genetics linguistics neuroscience palaeontology primatology and psychology The collection presents the latest theoretical experimental and modeling research on language evolution and includes contributions from the leading scientists in the field including T Fitch V Gallese S Mithen D Parisi A Piazza L Cavali Sforza R Seyfarth D Cheney L Steels L Talmy and M Tomasello Evolution of Communication and Language in Embodied Agents Stefano Nolfi, Marco Mirolli, 2009-11-28 This field of research examines how embodied and situated agents such as robots evolve language and thus communicate with each other This book is a comprehensive survey of the research in this emerging field The contributions explain the theoretical and methodological foundations of the field and then illustrate the scientific and technological potentials and promising research directions The book also provides descriptions of research experiments and related open software and hardware tools allowing the reader to gain a practical knowledge of the topic The book will be of interest to scientists and undergraduate and graduate students in the areas of cognition artificial life artificial intelligence and linguistics *Linguistic Evolution through Language Acquisition* Ted Briscoe, 2002-08-08 This is a study of how children acquire language and how this affects language change over generations Written by an international team of experts the volume proceeds from the basis that we can not only address the language faculty per se within the framework of evolutionary theory but also the origins and subsequent development of languages themselves languages evolve via cultural rather than biological transmission on a historical rather than genetic timescale The book is distinctive in utilizing computational simulation and modelling to help ensure the theories constructed are complete and precise Drawing on a wide range of examples the book covers the why and how of specific syntactic universals the nature of syntactic change the language learning mechanisms required to acquire an existing linguistic system accurately and to impose further structure on an emerging system and the evolution of language s in relation to this learning mechanism **Mirror Neurons and the Evolution of Brain and Language** Maxim I. Stamenov, Vittorio Gallese, 2002-12-17 The emergence of language social intelligence and tool development are what made homo sapiens sapiens differentiate itself from all other biological species in the world The use of language and the management of social and instrumental skills imply an awareness of intention and the consideration that one faces another individual with an attitude analogical to that of one s own The metaphor of mirror aptly comes to mind Recent investigations have shown that the human ability to mirror other s actions originates in the brain at a much deeper level than phenomenal awareness A new class of neurons has been discovered in the premotor area of the monkey brain mirror neurons Quite remarkably they are tuned to fire to the enaction as well as observation of specific classes of behavior fine manual actions and actions performed

by mouth They become activated independent of the agent be it the self or a third person whose action is observed The activation in mirror neurons is automatic and binds the observation and enaction of some behavior by the self or by the observed other The peculiar first to third person intersubjectivity of the performance of mirror neurons and their surprising complementarity to the functioning of strategic communicative face to face first to second person interaction may shed new light on the functional architecture of conscious vs unconscious mental processes and the relationship between behavioral and communicative action in monkeys primates and humans The present volume discusses the nature of mirror neurons as presented by the research team of Prof Giacomo Rizzolatti University of Parma who originally discovered them and the implications to our understanding of the evolution of brain mind and communicative interaction in non human primates and man Series B

Evolutionary Epistemology, Language and Culture Nathalie Gontier, Jean Paul van Bendegem, Diederik Aerts, 2006-07-25 For the first time in history scholars working on language and culture from within an evolutionary epistemological framework and thereby emphasizing complementary or deviating theories of the Modern Synthesis were brought together Of course there have been excellent conferences on Evolutionary Epistemology in the past as well as numerous conferences on the topics of Language and Culture However until now these disciplines had not been brought together into one all encompassing conference Moreover previously there never had been such stress on alternative and complementary theories of the Modern Synthesis Today we know that natural selection and evolution are far from synonymous and that they do not explain isomorphic phenomena in the world Taking Darwin seriously is the way to go but today the time has come to take alternative and complementary theories that developed after the Modern Synthesis equally seriously and furthermore to examine how language and culture can merit from these diverse disciplines As this volume will make clear a specific inter and transdisciplinary approach is one of the next crucial steps that needs to be taken if we ever want to unravel the secrets of phenomena such as language and culture

Evolution of the Brain, Cognition, and Emotion in Vertebrates Shigeru Watanabe, Michel A Hofman, Toru Shimizu, 2017-09-05 This book presents a new view on the evolution of the brain cognition and emotion Around a half century ago Professor Harry Jerison published a seminal book entitled Evolution of the Brain and Intelligence Since then there has been a series of dramatic methodological and conceptual changes which have led to many new insights into the understanding of brain evolution and cognition This book is particularly focused on three significant aspects of such changes First taking advantage of a new integrated approach called evolutionary developmental biology or Evo Devo researchers have started to look into vertebrate brain evolution from the developmental perspective Second comparative neuroanatomists have accumulated a large amount of information about the brains of diverse animal groups to refute the old fashioned idea that vertebrate brains evolved linearly from non mammals to mammals Third comparative behavioral studies have demonstrated that sophisticated cognition and emotion are not unique to some primates but are also found in many non primate and even non mammalian species This work will appeal to a wide

readership in such fields as neuroscience cognitive science and behavioral science **Origins of Language** Sverker Johansson, 2005-01-01 Sverker Johansson has written an unusual book on language origins with its emphasis on empirical evidence rather than theory building This is a book for the student or researcher who prefers solid data and well supported conclusions over speculative scenarios Much that has been written on the origins of language is characterized by hypothesizing largely unconstrained by evidence But empirical data do exist and the purpose of this book is to integrate and review the available evidence from all relevant disciplines not only linguistics but also e g neurology primatology paleoanthropology and evolutionary biology The evidence is then used to constrain the multitude of scenarios for language origins demonstrating that many popular hypotheses are untenable Among the issues covered 1 Human evolutionary history 2 Anatomical prerequisites for language 3 Animal communication and ape language 4 Mind and language 5 The role of gesture 6 Innateness 7 Selective advantage of language 8 Proto language **Simulating the Evolution of Language**

Angelo Cangelosi, Domenico Parisi, 2012-12-06 This book is the first to provide a comprehensive survey of the computational models and methodologies used for studying the evolution and origin of language and communication Comprising contributions from the most influential figures in the field it presents and summarises the state of the art in computational approaches to language evolution and highlights new lines of development Essential reading for researchers and students in the fields of evolutionary and adaptive systems language evolution modelling and linguistics it will also be of interest to researchers working on applications of neural networks to language problems Furthermore due to the fact that language evolution models use multi agent methodologies it will also be of great interest to computer scientists working on multi agent systems robotics and internet agents **Protomusic: The role of Prosodic Modulation in the Emergence of Language**

Alessandra Anastasi, 2022-11-15 Anastasi introduces an alternative vision about language development and music involvement to the current scientific discourse Her view is based on a rigorous evolutionary perspective through which she not only demonstrates the hypothesis of vocal continuity with other species via morphological data but more importantly also demonstrates how music is first and foremost a biological and cognitive trait The bond between animal and human communication is here interpreted as an interspecific universal with a clear evolutionary impact on the speech s natural history Such continuity does not undermine the species specificity of our linguistic system and at the same time supports the theory according to which music had a clear evolutionary role in the inception of the prosodic and musical components of speech In leaning towards a bio naturalistic approach the most convincing view is that of a vocal and functional continuity of music This appears to be demonstrable through the evolutionary past of vocality in other animal species not constrained from having some form of cultural transmission The book evidences that the current research scenario on non human animal communication benefits from the support of semiotics and specifically zoosemiotics The latter approach enables us to interpret music and chant not only as a simple formal and meaningless exercise but rather as a communicative element

perceived and processed by organisms equipped with cognitive abilities Anastasi argues that vocal continuity made possible by biological constraints that mark its anatomical and physiological aspects places human beings in a relationship of semiotic continuity with non human communication forms In turn this enables us to better describe the phylogenetic processes which determined the development of musical behaviours in the Sapiens as well as the way in which such behaviours interwove with the expressive vocality of the animal world

The Nature and Origin of Language Denis Bouchard,2013-10 Denis Bouchard looks at how the human brain got the capacity for language and how language evolved He argues that language is a system of signs and considers how these elements first came together in the brain His account of language origins offers insights into language and to constructions that have defied decades of linguistic analysis

Understanding Language Change April M. S. McMahon,1994-03-17 This textbook analyses changes from every area of grammar and addresses recent developments in socio historical linguistics

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