The Neuroscience of Language

On Brain Circuits of Words and Serial Order

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Neuroscience Of Language On Brain Circuits Of Words And Serial Order:

The Neuroscience of Language Friedemann Pulvermüller,2002 This 2003 book puts forth a systematic model of language to bridge the gap between linguistics and neuroscience **Neuroanatomy of Language Regions of the Human Brain** Michael Petrides,2013-12-03 Many studies of the neural bases of language processes are now conducted with functional and structural neuroimaging Research is often compromised because of difficulties in identifying the core structures in the face of the complex morphology of these regions of the brain Although there are many books on the cognitive aspects of language and also on neurolinguistics and aphasiology Neuroanatomy of Language Regions of the Human Brain is the first anatomical atlas that focuses on the core regions of the cerebral cortex involved in language processing This atlas is a richly illustrated guide for scientists interested in the gross morphology of the sulci and gyri of the core language regions in the cytoarchitecture of the relevant cortical areas and in the connectivity of these areas Data from diffusion MRI and resting state connectivity are integrated iwth critical experimental anatomical data about homologous areas in the macaque monkey to provide the latest information on the connectivity of the language relevant cortical areas of the brain Although the anatomical connectivity data from studies on the macaque monkey provide the most detailed information they are often neglected because of difficulties in interpreting the terminology used and in making the monkey to human comparison This atlas helps investigators interpret this important source of information Neuroanatomy of Language Regions of the Human Brain will assist investigators of the neural bases of language in increasing the anatomical sophistication of their research adn in evaluating studies of language and the brain Abundantly illustrated with photographs 3 D MRI reconstructions and sections to represent the morphology of the sulci and gyri in the frontal temporal and parietal regions involved in language processing Photomicrographs showing the cytoarchitecture of cortical areas involved in language processing Series of coronal sagittal and horizontal sections identifying the sulci and gyri to assist language investigators using structural and functional neuroimaging techniques All images accompanied by brief commentaries to help users navigate the complexities of the anatomy Integration of data from diffusion MRI and resting state connectivity with critical experimental anatomical data on the connectivity of homologous areas in the macaque monkey **Grammatical theory : From transformational grammar to constraint-based approaches** Stefan Müller,2023-01-04 This book introduces formal grammar theories that play a role in current linguistic theorizing Phrase Structure Grammar Transformational Grammar Government Binding Generalized Phrase Structure Grammar Lexical Functional Grammar Categorial Grammar Head Driven Phrase Structure Grammar ConstructionGrammar Tree Adjoining Grammar The key assumptions are explained and it is shown how the respective theory treats arguments and adjuncts the active passive alternation local reorderings verb placement and fronting of constituents over long distances The analyses are explained with German as the object language The second part of the book compares these approaches with respect to their predictions regarding language acquisition and psycholinguistic

plausibility The nativism hypothesis which assumes that humans posses genetically determined innate language specific knowledge is critically examined and alternative models of language acquisition are discussed The second part then addresses controversial issues of current theory building such as the question of flat or binary branching structures being more appropriate the question whether constructions should be treated on the phrasal or the lexical level and the question whether abstract non visible entities should play a role in syntactic analyses It is shown that the analyses suggested in the respective frameworks are often translatable into each other The book closes with a chapter showing how properties common to all languages or to certain classes of languages can be captured   Discourse Studies in Public Communication Eliecer Crespo-Fernández,2021-04-15 The collection of articles in Discourse Studies in Public Communication illustrates that public communication is a fascinating evidence based storehouse for research in discourse analysis The contributions to this volume in the spheres of political rhetoric gender and sexuality and corporate and academic communication provide good evidence of contemporary social structure social phenomena and social issues In this way following the parameters of different analytical frameworks critical discourse analysis cognitive metaphor theory appraisal theory multimodality etc the contributors address not only the linguistic aspects of texts but also and more importantly the cultural and cognitive dimensions of public communication in a range of real life communicative contexts and kinds of discourse Although the volume is addressed first and foremost to readers with diverse interests in English linguistics it may also prove valuable to scholars in other non linguistic research fields like communication studies social theory political science or psychology

The Spatial Foundations of Cognition and Language Kelly S. Mix,Linda B. Smith,Michael Gasser,2010 This book presents recent research on the role of space as a mechanism in language use and learning Experimental psychologists computer scientists robotocists linguists and researchers in child language consider the nature and applications of this research and its implications for understanding the processes involved in language acquisition   Talking About Nothing Jody Azzouni,2010-09-30 This book reconfigures metaphysics and the role of metaphysics in semantics in radical ways that allow the accommodation of our ordinary ways of speaking of what does not exist while retaining the absolutely crucial presupposition that such objects exist in no way at all have no properties and so are not the truth makers for the truths and falsities that are about them   *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

Language and Complex Systems William A. Kretzschmar (Jr.),2015-05-28 A study of the relationship between language and complexity   Essential Psychology Philip Banyard,Gayle Dillon,Christine Norman,Belinda Winder,2015-01-30 Essential Psychology returns for a second edition with a vivid narrative writing style for undergraduates features designed to stimulate critical thinking and inspire students to learn independently and an expanded companion website full of useful resources for lecturers and students This comprehensive introductory text is relevant for both the specialist and non specialist psychology student challenging those who studied psychology before university while remaining accessible to those who did not The 2nd edition Gives students a firm foundation in all areas covered on accredited British Psychological Society degree courses Includes new chapters on psychopathology research methods language motivation and emotion lifespan development health psychology forensic psychology and critical social psychology Relates theory to the real world to help students think about where they will employ their degree after undergraduate study Comes with a SAGE edge companion website with a suite of resources to enhance the learning experience https edge sagepub com banyard2e   **Neural Assemblies** Günther Palm,2022-07-28 In the new edition of Neural Assemblies the author places his original ideas and motivations within the framework of modern and cognitive neuroscience and gives a short and focused overview of the development of computational neuroscience and artificial neural networks over the last 40 years In this book the author develops a theory of how the human brain might function Starting with a motivational introduction to the brain as an organ of information processing he presents a computational perspective on the basic concepts and ideas of neuroscience research on the underlying principles of brain function In addition the reader is introduced to the most important methods from computer science and mathematical modeling that are required for a computational understanding of information processing in the brain Written by an expert in the field of neural information processing this book offers a personal historical view of the development of artificial intelligence artificial neural networks and computational cognitive neuroscience over the last 40 years with a focus on the realization of higher cognitive functions rather than more peripheral sensory or motor organization The book is therefore aimed at students and researchers who want to understand how the basic neuroscientific and computational concepts in the study of brain function have changed over the last decades   *Grammatical theory* Stefan Müller , This book introduces formal grammar theories that play a role in current linguistic theorizing Phrase Structure Grammar Transformational Grammar Government Binding Generalized Phrase Structure Grammar Lexical Functional Grammar Categorial Grammar Head Driven Phrase Structure Grammar Construction Grammar Tree Adjoining Grammar The key assumptions are explained and it is shown how the respective theory treats arguments and adjuncts the active passive alternation local reorderings verb placement and fronting of constituents over long distances The analyses are explained with

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Grammatical theory Stefan Müller,2020-09-28 This book introduces formal grammar theories that play a role in current linguistic theorizing Phrase Structure Grammar Transformational Grammar Government Binding Generalized Phrase Structure Grammar Lexical Functional Grammar Categorial Grammar Head Driven Phrase Structure Grammar Construction Grammar Tree Adjoining Grammar The key assumptions are explained and it is shown how the respective theory treats arguments and adjuncts the active passive alternation local reorderings verb placement and fronting of constituents over long distances The analyses are explained with German as the object language The second part of the book compares these approaches with respect to their predictions regarding language acquisition and psycholinguistic plausibility The nativism hypothesis which assumes that humans posses genetically determined innate language specific knowledge is critically examined and alternative models of language acquisition are discussed The second part then addresses controversial issues of current theory building such as the question of flat or binary branching structures being more appropriate the question whether constructions should be treated on the phrasal or the lexical level and the question whether abstract non visible entities should play a role in syntactic analyses It is shown that the analyses suggested in the respective frameworks are often translatable into each other The book closes with a chapter showing how properties common to all languages or to certain classes of languages can be captured The book is a translation of the German book Grammatiktheorie which was published by Stauffenburg in 2010 This book is a new edition of http langsci press org catalog book 25 http langsci press org catalog book 195 and http langsci press org catalog book 255   *The Body-Brain Connection* Gravity Goldberg,2025-05-13 Embrace movement big and small to fuel learning success Learning happens in our whole bodies not just in our heads Movement both big and small unconscious and conscious fuels our success and yet we don t often acknowledge the body s role in learning In The Body Brain Connection author Gravity Goldberg explores the powerful relationship between physical activity and cognitive function This comprehensive guide delves into evidence based strategies that can help reduce anxiety boost student engagement and enhance comprehension in all K 12 classrooms Helpful features guide your learning with Prime Yourself personal experiences to bring your attention to key ideas in each section Guiding questions to set the purpose

for your learning A Look in the Mirror self reflection feature to encourage application of the material into your own life and teaching practice Summaries of key ideas and practices for each chapter Whether you re a teacher or school administrator this innovative book offers valuable tools and techniques to foster a holistic approach to education ensuring that students thrive both mentally and physically It s time we start paying more attention to our bodies to create an environment where we can all feel safer be more integrated and be more successful as readers writers and thinkers *New Perspectives on the Origins of Language* Claire Lefebvre,Bernard Comrie,Henri Cohen,2013-11-15 The question of how language emerged is one of the most fascinating and difficult problems in science In recent years a strong resurgence of interest in the emergence of language from an evolutionary perspective has been helped by the convergence of approaches methods and ideas from several disciplines The selection of contributions in this volume highlight scenarios of language origin and the prerequisites for a faculty of language based on biological historical social cultural and paleontological forays into the conditions that brought forth and favored language emergence augmented by insights from sister disciplines The chapters all reflect new speculation discoveries and more refined research methods leading to a more focused understanding of the range of possibilities and how we might choose among them There is much that we do not yet know but the outlines of the path ahead are ever clearer **English Coordinate Constructions** Arne Lohmann,2014-09-29 Drawing on extensive corpus based research this book explores the nature of coordinate constructions in three case studies covering order in copulative compounds binomials and more complex phrases The author uses empirical analyses to explore a wide range of factors and also offers readers a processing perspective on the results obtained **Mental States** Andrea C. Schalley,Drew Khlentzos,2007 Collecting the work of linguists psychologists neuroscientists archaeologists artificial intelligence researchers and philosophers this volume presents a richly varied picture of the nature and function of mental states Starting from questions about the cognitive capacities of the early hominin homo floresiensis the essays proceed to the role mental representations play in guiding the behaviour of simple organisms and robots thence to the question of which features of its environment the human brain represents and the extent to which complex cognitive skills such as language acquisition and comprehension are impaired when the brain lacks certain important neural structures Other papers explore topics ranging from nativism to the presumed constancy of categorization across signed and spoken languages from the formal representation of metaphor actions and vague language to philosophical questions about conceptual schemes and colours Anyone interested in mental states will find much to reward them in this fine volume **New Trends in Grammaticalization and Language Change** Sylvie Hancil,Tine Breban,José Vicente Lozano,2018-12-06 The chapters in this volume present a state of the art of grammaticalization research in the 2010s They are concerned with the application of new models such as constructionalization the ongoing debate about the status and modelling of the development of discourse markers and reveal a renewed interest in the typological application of grammaticalization and in the cognitive motivations

for unidirectionality The contributors consider data from a wide range of languages including several that have not or marginally been looked at in terms of grammaticalization Chinese Dutch varieties of English French German Japanese Maltese Old Saxon Spanish and languages of the South Caucasian and Zhuang Tai Kadai families The chapters range from theoretical discussions to fine grained analyses of new historical and comparative language data This volume will be of interest to linguists studying morphosyntactic changes in a range of languages and in particular to those interested in models for grammatical change **Using Priming Methods in Second Language Research** Kim McDonough,Pavel Trofimovich,2011-02-25 Using Priming Methods in Second Language Research is an accessible introduction to the use of auditory semantic and syntactic priming methods for second language L2 processing and acquisition research It provides a guide for the use design and implementation of priming tasks and an overview of how to analyze and report priming research Key principles about auditory semantic and syntactic priming are introduced and issues for L2 researchers to consider when designing priming studies are pointed out Empirical studies that have adopted priming methods are highlighted to illustrate the application of experimental techniques from psychology to L2 processing and acquisition research Each chapter concludes with follow up questions and activities that provide additional reinforcement of the chapter content while the final chapter includes data sets that can be used to practice the statistical tests commonly used with priming data *The Geometry of Meaning* Peter Gardenfors,2017-02-24 A novel cognitive theory of semantics that proposes that the meanings of words can be described in terms of geometric structures In The Geometry of Meaning Peter G rdenfors proposes a theory of semantics that bridges cognitive science and linguistics and shows how theories of cognitive processes in particular concept formation can be exploited in a general semantic model He argues that our minds organize the information involved in communicative acts in a format that can be modeled in geometric or topological terms in what he terms conceptual spaces extending the theory he presented in an earlier book by that name Many semantic theories consider the meanings of words as relatively stable and independent of the communicative context G rdenfors focuses instead on how various forms of communication establish a system of meanings that becomes shared between interlocutors He argues that these meetings of mind depend on the underlying geometric structures and that these structures facilitate language learning Turning to lexical semantics G rdenfors argues that a unified theory of word meaning can be developed by using conceptual spaces He shows that the meaning of different word classes can be given a cognitive grounding and offers semantic analyses of nouns adjectives verbs and prepositions He also presents models of how the meanings of words are composed to form new meanings and of the basic semantic role of sentences Finally he considers the future implications of his theory for robot semantics and the Semantic Web **Outside-In ⬚ Inside-Out** Costantino Maeder,Olga Fischer,William J. Herlofsky,2005-02-28 This fourth volume of the Iconicity series is like its predecessors devoted to the study of iconicity in language and literature in all its forms Many of the papers turn the notion of iconicity inside out some suggesting that less is

more others focus on the cognitive factors inside the brain that are important for the iconic phenomena that are produced in the outside world In addition this volume includes a paper related to iconicity in music and its interaction with language Other papers range from the theoretical issues involved in the evolution of language to those that offer many inside out claims such as claiming that nouns are derived from pronouns and as such should more properly be called pro pronouns Also this volume includes perhaps the first English language analysis of the iconic aspects of sound symbolism in a prayer from the Koran This is a truly interdisciplinary collection that should turn some of the notions of iconicity in language and literature outside in and inside out

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