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Language and Music as Cognitive Systems

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Language And Music As Cognitive Systems

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Language And Music As Cognitive Systems:

Language and Music as Cognitive Systems Patrick Rebuschat, 2012 The past 15 years have witnessed an increasing interest in the comparative study of language and music as cognitive systems This book presents an interdisciplinary study of language and music exploring the following core areas structural comparisons evolution learning and processing and neuroscience

Language and Music as Cognitive Systems, 2011 The past 15 years have witnessed an increasing interest in the comparative study of language and music as cognitive systems This book presents an interdisciplinary study of language and music exploring the following core areas structural comparisons evolution learning and processing and neuroscience

Relationship of Language and Music, Ten Years After: Neural Organization, Cross-domain Transfer and Evolutionary Origins Caicai Zhang, Chao-Yang Lee, William Shiyuan WANG, Mary Miu Yee Waye, 2022-09-03

The Evolution of Music Leonid Perlovsky, Aleksey Nikolsky, 2020-12-28 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org/about/contact

The Grammar of Chinese Characters James Myers, 2019-04-16 Anybody who reads or writes Chinese characters knows that they obey a grammar of sorts though numerous they are built out of a much smaller set of constituents often interpretable in meaning or pronunciation that are themselves built out of an even smaller set of strokes This book goes far beyond these basic facts to show that Chinese characters truly have a productive and psychologically real lexical grammar of the same sort seen in spoken and signed languages with non trivial analogs of morphology the combination of potentially interpretable constituents phonology formal regularities without implications for interpretation and phonetics articulatory and perceptual constraints Evidence comes from a wide variety of sources from quantitative corpus analyses to experiments on character reading writing and learning The grammatical approach helps capture how character constituents combine as they do how strokes systematically vary in different environments how character form evolved from ancient times to the modern simplified system and how readers and writers are able to process or learn even entirely novel characters This book not only provides tools for exploring the full richness of Chinese orthography but also offers new ways of thinking about the most fundamental question in linguistic theory what is grammar

The Children's Music Studio Wendell Hanna, 2016-12-02 The Children's Music Studio provides music teachers parents and early childhood educators a wealth of materials and a clear roadmap for applying Reggio Emilia principles and practices to preschool and early childhood music education Drawing on Professor Hanna's extensive experience researching and teaching in Reggio inspired music classrooms this pioneering book provides a

comprehensive and in depth manual for designing music ateliers hands on studios that capture the imagination and creativity of children Informed by the cutting edge research on music learning this practical guide includes detailed studio plans examples of Reggio inspired music studio explorations and documentation of children s work in music studios In this book you will Discover how children can naturally learn music through the studio approach See detailed examples and documentation of project based studio learning Understand how music learning increases overall artistic and academic literacy across the curriculum Learn how to develop customized projects for your classroom that will teach children to think and communicate fluently through music and sound Early childhood and elementary music teachers will find this book especially useful as it provides innovative ideas for Reggio inspired music teaching and learning techniques that can be integrated into the existing curriculum

You Are the Music Victoria Williamson,2014-03-06 You are the music While the music lasts T S Eliot The Four Quartets Do babies remember music from the womb Can classical music increase your child s IQ Is music good for productivity Can it aid recovery from illness and injury And what is going on in your brain when Ultravox s Vienna Schoenberg s Verkl rte Nacht or Dizzee Rascal s Bonkers transports you back to teenage years In a brilliant new work that will delight music lovers of every persuasion music psychologist Victoria Williamson examines our relationship with music across the whole of a lifetime Along the way she reveals the amazing ways in which music can physically reshape our brains explores how smart music listening can improve cognitive performance and considers the perennial puzzle of what causes earworms Requiring no specialist musical or scientific knowledge this upbeat eye opening book reveals as never before the extent of the universal language of music that lives deep inside us all

The Oxford Handbook of Music Psychology Susan Hallam,Ian Cross,Michael Thaut,2016-01-14 The second edition of The Oxford Handbook of Music Psychology updates the original landmark text and provides a comprehensive review of the latest developments in this fast growing area of research Covering both experimental and theoretical perspectives each of the 11 sections is edited by an internationally recognised authority in the area The first ten parts present chapters that focus on specific areas of music psychology the origins and functions of music music perception responses to music music and the brain musical development learning musical skills musical performance composition and improvisation the role of music in everyday life and music therapy In each part authors critically review the literature highlight current issues and explore possibilities for the future The final part examines how in recent years the study of music psychology has broadened to include a range of other disciplines It considers the way that research has developed in relation to technological advances and points the direction for further development in the field With contributions from internationally recognised experts across 55 chapters it is an essential resource for students and researchers in psychology and musicology

Language vs. Music? Exploring Music's Links to Language Jeanette Gonsior,2011-07-14 Seminar paper from the year 2011 in the subject American Studies Linguistics grade 2.0 Humboldt University of Berlin Institut f r Anglistik und Amerikanistik course Language vs Culture A

Comparison between Language and Music language English abstract Language and music both can be found in every human society are the most basic socio cognitive domains of the human species At first glance they share fundamental similarities such as being based on acoustic modalities and involving complex sound sequences Language as well as music functions as a means of communication and a form of expression Both systems are organized into hierarchically structured sequences and a written system was developed for language and for music The interest in music language relations has a long history of course and does not originate with modern cognitive science The topic has long drawn interest from a wide range of thinkers including philosophers biologists poets composers linguists and musicologists Over 2 000 years ago Plato claimed that the power of certain musical modes to uplift the spirit stemmed from their resemblance to the sounds of noble speech Neubauer 1986 Much later Darwin 1871 considered how a form of communication intermediate between modern language and music may have been the origin of our species communicative abilities Many other historical figures have contemplated music language relations including Vincenzo Galilei father of Galileo Jean Jacques Rousseau and Ludwig Wittgenstein This long line of speculative thinking has continued down to the modern era e g Bernstein 1976 In the era of cognitive science however research into this topic is undergoing a dramatic shift using new concepts and tools to advance from suggestions and analogies to empirical research Cp PATEL 2008 Music Language and the Brain The production of music and language is a prime example of the human brain s capacities But does the brain process music as it processes language Are language and music processed in the same hemisphere s Are linguistic and musical irregularities processed by the same brain area s What are the cognitive differences and similarities And how can brain activity be measured These and other very complex questions are to be approached in this seminar paper The central interest is to explore and compare some of the structural and cognitive properties of language and music and the links between them in order to find out whether music is language like in certain regards The central questions are Does music have something like a grammar or syntax Is music able to transfer meaningful information Chapter 2 1 examines the structural units

The Evolution of Rhythm Cognition:
Timing in Music and Speech Andrea Ravignani, Henkjan Honing, Sonja A. Kotz, 2018-07-24 Human speech and music share a number of similarities and differences One of the closest similarities is their temporal nature as both i develop over time ii form sequences of temporal intervals possibly differing in duration and acoustical marking by different spectral properties which are perceived as a rhythm and iii generate metrical expectations Human brains are particularly efficient in perceiving producing and processing fine rhythmic information in music and speech However a number of critical questions remain to be answered Where does this human sensitivity for rhythm arise How did rhythm cognition develop in human evolution How did environmental rhythms affect the evolution of brain rhythms Which rhythm specific neural circuits are shared between speech and music or even with other domains Evolutionary processes long time scales often prevent direct observation understanding the psychology of rhythm and its evolution requires a close fitting integration of different perspectives First

empirical observations of music and speech in the field are contrasted and generate testable hypotheses Experiments exploring linguistic and musical rhythm are performed across sensory modalities ages and animal species to address questions about domain specificity development and an evolutionary path of rhythm Finally experimental insights are integrated via synthetic modeling generating testable predictions about brain oscillations underlying rhythm cognition and its evolution Our understanding of the cognitive neurobiological and evolutionary bases of rhythm is rapidly increasing However researchers in different fields often work on parallel potentially converging strands with little mutual awareness This research topic builds a bridge across several disciplines focusing on the cognitive neuroscience of rhythm as an evolutionary process It includes contributions encompassing although not limited to 1 developmental and comparative studies of rhythm e g critical acquisition periods innateness 2 evidence of rhythmic behavior in other species both spontaneous and in controlled experiments 3 comparisons of rhythm processing in music and speech e g behavioral experiments systems neuroscience perspectives on music speech networks 4 evidence on rhythm processing across modalities and domains 5 studies on rhythm in interaction and context social affective etc 6 mathematical and computational e g connectionist symbolic models of rhythmicity as an evolved behavior

[Handbook of Research on the Education of Young Children](#) Olivia N. Saracho, 2019-10-30 The Handbook of Research on the Education of Young Children is the essential reference on research on early childhood education throughout the world This outstanding resource provides a comprehensive research overview of important contemporary issues as well as the information necessary to make knowledgeable judgments about these issues Now in its fourth edition this handbook features all new sections on social emotional learning non cognitive assessment child development early childhood education content areas teacher preparation technology multimedia and English language learners With thorough updates to chapters and references this new edition remains the cutting edge resource for making the field's extensive knowledge base readily available and accessible to researchers and educators It is a valuable resource for all of those who work and study in the field of early childhood education including researchers educators policy makers librarians and school administrators This volume addresses critical up to date research on several disciplines such as child development early childhood education psychology curriculum teacher preparation policy evaluation strategies technology and multimedia exposure

[Music in the Human Experience](#) Donald A. Hodges, 2019-10-07 Music in the Human Experience An Introduction to Music Psychology Second Edition is geared toward music students yet incorporates other disciplines to provide an explanation for why and how we make sense of music and respond to it cognitively physically and emotionally All human societies in every corner of the globe engage in music Taken collectively these musical experiences are widely varied and hugely complex affairs How did human beings come to be musical creatures How and why do our bodies respond to music Why do people have emotional responses to music Music in the Human Experience seeks to understand and explain these phenomena at the core of what it means to be a human being

New to this edition Expanded references and examples of non Western musical styles Updated literature on philosophical and spiritual issues Brief sections on tuning systems and the acoustics of musical instruments A section on creativity and improvisation in the discussion of musical performance New studies in musical genetics Greatly increased usage of explanatory figures

The Oxford Handbook of Singing Graham F. Welch, David M. Howard, John Nix, 2019-04-04 Singing has been a characteristic behaviour of humanity across several millennia Chorus America 2009 estimated that 42.6 million adults and children regularly sing in one of 270 000 choruses in the US representing more than 1.5 households Similarly recent European based data suggest that more than 37 million adults take part in group singing The Oxford Handbook of Singing is a landmark text on this topic It is a comprehensive resource for anyone who wishes to know more about the pluralistic nature of singing In part the narrative adopts a lifespan approach pre cradle to senescence to illustrate that singing is a commonplace behaviour which is an essential characteristic of our humanity In the overall design of the Handbook the chapter contents have been clustered into eight main sections embracing fifty three chapters by seventy two authors drawn from across the world with each chapter illustrating and illuminating a particular aspect of singing Offering a multi disciplinary perspective embracing the arts and humanities physical social and clinical sciences the book will be valuable for a broad audience within those fields

Body and Force in Music Youn Kim, 2022-09-01 Our understanding of music is inherently metaphorical and metaphoricity pervades all sorts of musical discourses be they theoretical analytical philosophical pedagogical or even scientific The notions of body and force are the two most pervasive and comprehensive scientific metaphors in musical discourse Throughout various intertwined contexts in history the body force pair manifests multiple layers of ideological frameworks and permits the conceptualization of music in a variety of ways Youn Kim investigates these concepts of body and force in the emerging field of music psychology in the late nineteenth and early twentieth centuries The field's discursive space spans diverse contexts including psychological theories of auditory perception and cognition pedagogical theories on the performer's bodily mechanism speculative and practical theories of musical rhythm and aesthetical discussion of the power of music This investigation of body and force aims to illuminate not just the past scene of music psychology but also the notions of music that are being constructed at present

Baudelaire in Song Helen Abbott, 2017 This book looks at a key 50 year period 1880-1930 in France and Europe to see how and why Baudelaire's poetry has been set to music in classical music how composers have completely manipulated the texts which poems they have chosen and why

Music and Dementia Amee Baird, Sandra Garrido, Jeanette Tamplin, 2020 Dementia is a significant health issue facing our aging population Although there is no known cure there is increasing evidence that music is an effective treatment for various symptoms of dementia Music therapy and musical activities can have widespread benefits for people with dementia and their caretakers including triggering memories enhancing relationships reducing agitation and improving mood This book outlines the current research on music and dementia from internationally renowned

music therapists music psychologists and clinical neuropsychologists **The Oxford Handbook of Sound and Imagination, Volume 2** Mark Grimshaw-Aagaard, Mads Walther-Hansen, Martin Knakkegaard, 2019-07-26 In this two volume Handbook contributors address the tendency to discuss musical imagination through terms like compositional creativity or performance technique correcting the current bias towards visual imagination to instead highlight the many forms of sonic and musical imagination *The Primacy of Grammar* Nirmalangshu Mukherji, 2012-01-13 A proposal that the biolinguistic approach to human languages may have identified beyond the study of language a specific structure of the human mind The contemporary discipline of biolinguistics is beginning to have the feel of scientific inquiry Biolinguistics especially the work of Noam Chomsky suggests that the design of language may be perfect language is an optimal solution to conditions of sound and meaning What is the scope of this inquiry Which aspect of nature does this science investigate What is its relation to the rest of science What notions of language and mind are under investigation This book is a study of such foundational questions Exploring Chomsky's claims Nirmalangshu Mukherji argues that the significance of biolinguistic inquiry extends beyond the domain of language Biolinguistics is primarily concerned with grammars that represent just the computational aspects of the mind brain This restriction to grammars Mukherji argues opens the possibility that the computational system of human language may be involved in each cognitive system that requires similar computational resources Deploying analytical argumentation and empirical evidence Mukherji suggests that a computational system of language consisting of very specific principles and operations is likely to be involved in each articulatory symbol system such as music that manifests unboundedness In that sense the biolinguistics approach may have identified after thousands of years of inquiry a specific structure of the human mind *Neopoetics* Christopher Collins, 2016-11-29 The quest to understand the evolution of the literary mind has become a fertile field of inquiry and speculation for scholars across literary studies and cognitive science In *Paleopoetics* Christopher Collins's acclaimed earlier title he described how language emerged both as a communicative tool and as a means of fashioning other communicative tools stories songs and rituals In *Neopoetics* Collins turns his attention to the cognitive evolution of the writing ready brain Further integrating neuroscience into the popular field of cognitive poetics he adds empirical depth to our study of literary texts and verbal imagination and offers a whole new way to look at reading writing and creative expression Collins begins *Neopoetics* with the early use of visual signs first as reminders of narrative episodes and then as conventional symbols representing actual speech sounds Next he examines the implications of written texts for the play of the auditory and visual imagination To exemplify this long transition from oral to literate artistry Collins examines a wide array of classical texts from Homer and Hesiod to Plato and Aristotle and from the lyric innovations of Augustan Rome to the inner dialogues of St Augustine In this work of big history Collins demonstrates how biological and cultural evolution collaborated to shape both literature and the brain we use to read it *Postmonolingual Transnational Chinese Education* Yu Han, Xiaoyan Ji, 2022-10-20 This book examines Transnational

Chinese Language Education TCLE in the Australian context Taking a post monolingual perspective the authors examine Chinese teachers monolingual and multilingual practices and mindsets in their educational practices They find that a Chinese centric monolingual mindset dominates the Chinese teachers while a multilingual mindset permeates in their classroom teaching creating an unconscious tension between the two perspectives The book proposes that it is the responsibility of teacher educators to train future Chinese teachers with an awareness of this issue as well as suitable strategies to overcome it and be efficient language teachers This book will be of interest to applied linguists pre service and in service language teachers as well as students and scholars of Teaching Chinese to Speakers of Other Languages TCSOL

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