

Cognitive Phonology

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1. Introduction

Phonology is usually thought of as the study of the 'sound systems' of languages. In this article I will make an attempt to explain what that means for me and why I refer to the approach that I favor as 'cognitive'. Frankly, I have no idea how phonology could ever be anything but cognitive. However, there is a certain view that explanation in this domain must be crucially built upon our understanding of how sounds are produced and perceived. I do not dispute that insight into linguistic sound systems can be derived from such understanding. My point is that some fundamental properties of sound systems cannot be understood in this way, but rather must come from theories about the cognitive representations that underlie sound systems. Hence 'cognitive phonology'. As we will see, phonology, being cognitive, is not fully encapsulated in the mind, as there must also be a system for externalizing the phonological representations.

In section 2 I first discuss what it means to say someone knows linguistic sound events. Section 3 argues for a strong parallelism between grammatical components (phonology, syntax and semantics) and contains a brief excursion on the evolution of language. Sections 4 and 5 home in on the phonological component, discussing static (i.e. phonotactic) and dynamic (i.e. allomorphy) phenomena, respectively. In section 6, I argue that even though the phonological system is non-derivational and constraint-based, two levels (in different planes) are necessary. Section 7 offers some conclusions.

This article can be read as an attempt on my part to explain to interested parties (linguists who are not, or not primarily, phonologists, scholars in other fields, colleagues, friends, relatives) what it is that I'm studying and why I hold certain beliefs or guiding ideas about this subject. Hence I do not presuppose much prior knowledge of phonology, although the exposition becomes increasingly more involved and complex, all of which, I hope is not offending Hans den Besten, to whom I offer this article as a token of both my esteem for him as a linguist as well as my friendship as a colleague.

Phonology A Cognitive View

**Jeroen Maarten van de Weijer, Vincent
van Heuven, Harry van der Hulst**

Phonology A Cognitive View:

Phonology Jonathan Kaye, 1989 Designed to acquaint the reader with the field of phonology the study of the systems of linguistically significant sounds this book begins with a brief introduction to linguistics and a discussion of phonology's place within that field It then goes on to cover a variety of topics including the nature of phonological units phonological rules which types of phenomena interest phonologists and the evolution of phonological theory Suitable for many applications this volume assumes no previous knowledge of linguistics An excellent text for use in first or second year phonology courses it will also be of value to those involved in cognitive science neuroscience artificial intelligence and computer science **The**

Phonological Spectrum: Segmental structure Jeroen Maarten van de Weijer, Vincent van Heuven, Harry van der Hulst, 2003 The two volumes of the Phonological Spectrum aim at giving a comprehensive overview of current developments in phonological theory by providing a number of papers in different areas of current theorizing which reflect on particular problems from different angles Volume I is concerned with segmental structure and focuses on nasality voicing and other laryngeal features as well as segmental timing With respect to nasality questions such as the phonetic underpinning of a distinctive feature nasal and the treatment of nasal harmony are treated As for voicing the behaviour of voicing assimilation in Dutch is covered while its application in German is examined with an eye to its implications for the stratification of the German lexicon In the final section of volume I the structure of diphthongs is examined as well as the treatment of lenition and the relation between phonetic and phonological specification in sign language *The Routledge Handbook of*

Phonological Theory S.J. Hannahs, Anna Bosch, 2017-12-14 The Routledge Handbook of Phonological Theory provides a comprehensive overview of the major contemporary approaches to phonology Phonology is frequently defined as the systematic organisation of the sounds of human language For some this includes aspects of both the surface phonetics together with systematic structural properties of the sound system for others phonology is seen as distinct from and autonomous from phonetics The Routledge Handbook of Phonological Theory surveys the differing ways in which phonology is viewed with a focus on current approaches to phonology Divided into two parts this handbook covers major conceptual frameworks within phonology including rule based phonology Optimality Theory Government Phonology Dependency Phonology and connectionist approaches to generative phonology explores the central issue of the relationship between phonetics and phonology features 23 chapters written by leading academics from around the world The Routledge Handbook of Phonological Theory is an authoritative survey of this key field in linguistics and is essential reading for students studying phonology **Optimality Theory** Rene Kager, 1999-06-28 This is an introduction to Optimality Theory whose central idea is that surface forms of language reflect resolutions of conflicts between competing constraints A surface form is optimal if it incurs the least serious violations of a set of constraints taking into account their hierarchical ranking Languages differ in the ranking of constraints and any violations must be minimal The book does not limit its empirical scope to phonological

phenomena but also contains chapters on the learnability of OT grammars OT's implications for syntax and other issues such as opacity It also reviews in detail a selection of the considerable research output which OT has already produced Exercises accompany chapters 1-7 and there are sections on further reading Optimality Theory will be welcomed by any linguist with a basic knowledge of derivational Generative Phonology

Segmental Structure and Representations Jeroen van de Weijer, 2023-03-20 Representing Phonological Detail Part I Segmental Structure and Representations Part II Syllable Stress and Sign Part I of Representing Phonological Detail focuses on the latest phonological research on a range of issues The first main theme in this volume is vowel representation with special attention paid to topics such as vowel harmony and other vocalic processes e.g. historical umlaut vowel epenthesis and the representation of vowel quality and height The second main theme is consonant representation and consonantal processes including laryngeal phonology and stop insertion Finally the acquisition of phonology and the interface between phonology and morphosyntax are examined attending in particular to boundary symbols morphological blends and the status of recursion in phonology and syntax

Primitives of Phonological Structure Florian Breit, Bert Botma, Marijn van 't Veer, Marc van Oostendorp, 2023-06-19 This book brings together phonologists working in different areas to explore key questions relating to phonological primitives the basic building blocks that are at the heart of phonological structure and over which phonological computations are carried out Whether these units are referred to as features elements gestures or something else entirely the assumptions that are made about them are fundamental to modern phonological theory Even so there is limited consensus on the specifics of those assumptions The chapters in this book present differing perspectives on phonological primitives and their implications addressing some of the most pressing issues in the field such as how many features there are whether those features are privative or binary and whether segments need to be specified for all features The studies cover a wide range of methodologies and domains including experimental work fieldwork language acquisition theory internal concerns and many more and will be of interest to phoneticians and phonologists from all theoretical backgrounds

Rules, Constraints, and Phonological Phenomena Bert Vaux, Andrew Nevins, 2008-05-01 This volume of new work by prominent phonologists goes to the heart of current debates in phonological and linguistic theory should the explanation of phonological variety be constraint or rule based and in the light of the resolution of this question how in the mind does phonology interface with other components of the grammar The book includes contributions from leading proponents of both sides of the argument and an extensive introduction setting out the history nature and more general linguistic implications of current phonological theory

The Prosody-Morphology Interface René Kager, Harry van der Hulst, Wim Zonneveld, 1999-05-06 Leading linguists address various issues in the interaction of word formation and prosody

Living on the Edge Stefan Ploch, 2011-09-27 This collection of papers by an international group of authors honors Jonathan Kaye's contributions to phonology by expanding some of Kaye's ideas to a variety of theoretical topics and languages The set of ideas discussed or used in this collection

includes empty categories licensing relationships and constraints a restrictive two levelled approach to phonology without rule ordering or constraint ranking a restrictive theory of syllabic representation without the codas constituent and with exclusively binary branching theories of the phonology phonetics interface in which phonology is motivated independently of phonetics and the metatheoretical flaws in a number of widely accepted but rarely questioned views on phonology Slavic Prosody Christina Y. Bethin, 1998-07-13 In Slavic Prosody first published in 1998 Professor Bethin gives a coherent account of the Slavic languages at the time of their differentiation and relates these developments to issues in phonological theory First Professor Bethin argues that the syllable structure of Slavic changed before the fall of the jers and suggests that intrasyllabic and intersyllabic reorganization in Late Common Slavic was far more significant for Slavic prosody than the loss of weak jers She then makes a case for the existence of a bisyllabic prosodic domain in Late Common Slavic and trochaic metrical organization Finally she explores the implications of Slavic data for phonological theory discussing sonority skeletal structure the representation of length and prominence and language typology in some detail The Form of Structure, the Structure of Form Sabrina Bendjaballah, Noam Faust, Mohamed Lahrouchi, Nicola Lampitelli, 2014-12-15 This volume brings together articles by some major figures in various linguistics domains phonology morphology and syntax aiming at explaining the form of linguistic items by exploring the structures that underlie them The book is divided in 5 parts vowels syllables templates syntax morphology interface and Afro Asiatic languages Specific topics are the internal structure of vowels and its relation to harmony the logic of recurrent vocalic patterns syllabic prominence the interaction of syllabic and templatic structure and segmental realization the innateness of templates and paradigms the limits of phonology and various morpho syntactic implications on phonological form The volume renders homage to Jean Lowenstamm's work by underlining the importance of seeking structural and intermodular insight in the study of linguistic form

Age Effects in the Acquisition of English Onset Clusters by Turkish Learners Yasemin Yildiz, 2010-08-11 Age Effects in the Acquisition of English Onset Clusters by Turkish Learners An Optimality Theoretic Approach offers a state of the art examination of the acquisition of English onset clusters by Turkish learners and considers the age effects in second language L2 phonology Unlike previous research trends this research examines the developmental paths of L2 phonology rather than the end state of acquisition This in return will yield insightful data which appeals to both L2 theory and phonological theory The L2 data presented here will be accounted for within a constraint based framework known as Optimality Theory OT The first two chapters provide an overview of first and second language phonology and are also discussed under OT framework in chapter 3 Chapter 4 serves to highlight the syllable structure of Turkish and English and addresses a number of partially overlapping themes synchronic and diachronic analysis of English and Turkish consonant inventory loan phonology and prosodic development The remaining chapters provide a detailed presentation of the novel empirical results along with a discussion of its wider implications in phonological theory and phonological acquisition Indispensable for students and researchers working in the areas of phonological theory

and phonological acquisition this volume will also appeal to applied linguists and speech language pathologists

Fonética y fonología descriptivas de la lengua española Juana Gil, Joaquim Llisterri, 2024-10-01 The most up to date and comprehensive description of the Spanish language's phonetic and phonological system Though there has been considerable research in Spanish phonology until now no in depth and complete descriptive reference work has existed *Fonética y fonología descriptivas de la lengua española* Volumes 1 and 2 is a comprehensive reference written in Spanish describing the phonetics and phonology of Spanish Edited by Juana Gil Fernandez and Joaquim Llisterri this set provides a comprehensive overview for understanding segmental and suprasegmental topics in Spanish phonology making clear what further research is needed The international set of contributors in this essential reference present evidence never before analyzed introduce new theoretical concepts and issues not considered previously extend the scope of the case studies and organize its many subtopics as well as suggest new topics for future research A descriptive reference with copious figures and tables this book is the key to the field's assumptions and a presentation of accepted research on which future scholarship is based With state of the art information on all topics related to the sounds of Spanish *Fonética y fonología descriptivas de la lengua española* will be a valuable resource for researchers students and scholars of Spanish linguistics who wish to deepen their understanding of the phonetic and phonological characteristics of all the varieties in the Spanish language

Focus on Phonological Acquisition S.J. Hannahs, Martha Young-Scholten, 1997-12-31 The publication of this edited volume comes at a time when interest in the acquisition of phonology by both children learning a first language and adults learning a second is starting to swell The ten contributions from established scholars and relative newcomers alike provide a comprehensive demonstration of the progress being made in the field through the theory based analysis of both spontaneous and experimental acquisition data involving a number of first and second languages including English French German Korean Polish and Spanish Aimed at those active in phonology and its acquisition yet written to be accessible to the non specialist as well the volume carefully lays out the various theoretical frameworks in which the authors work such as Feature Geometry Lexical Phonology Non Linear Phonology Prosodic Phonology and Optimality Theory

Typological Studies in Word and Sentence Prosody Tomas Riad, Carlos Gussenhoven, 2009-02-26 Despite the recent advances in the integration of lexical tone and intonation in phonological theory all too often the study of intonation and the study of lexical tone are viewed as belonging to different research traditions This collection strengthens the integrated approach by studying tone and intonation within a common framework and by tracing their interaction in specific prosodic systems Some papers deal with the structural properties of lexical tone and intonation while others focus on the historical development of prosodic systems The volume also includes a re evaluation of a classic paper on the typology of tone rules and a survey of features signalling question intonation in African languages

Tones and Tunes: Typological studies in word and sentence prosody Tomas Riad, Carlos Gussenhoven, 2007 Despite the recent advances in the integration of lexical tone and intonation in phonological theory all too

often the study of intonation and the study of lexical tone are viewed as belonging to different research traditions This collection aims to strengthen the integrated approach by studying tone and intonation within a common framework and by tracing their interaction in specific prosodic systems Some papers deal with the structural properties of lexical tone and intonation e g of Zina Kotoko Cameroon Borgloon Dutch Belgium and European Portuguese while others focus on the historical development of the prosodic systems of Basque Kagoshima Japanese and Scandinavian The volume also includes a re evaluation of a classic paper on the typology of tone rules and a survey of features signalling question intonation in African languages

The Oxford Handbook of English Grammar Bas Aarts, Jill Bowie, Gergana Popova, 2019-11-14 This handbook provides an authoritative critical survey of current research and knowledge in the grammar of the English language Following an introduction from the editors the volume's expert contributors explore a range of core topics in English grammar beginning with issues in grammar writing and methodology Chapters in part II then examine the various theoretical approaches to grammar such as cognitive constructional and generative approaches followed by the chapters in part III which comprehensively cover the different subdomains of grammar including compounds phrase structure clause types tense and aspect and information structure Part IV offers coverage of the relationship between grammar and other fields lexis phonology meaning and discourse while the concluding part of the book investigates grammatical change over time regional variation and genre and literary variation The handbook's wide ranging coverage will appeal to researchers and students of English language and linguistics from undergraduate level upwards

The Generative and the Structuralist Approach to the Syllable Renáta Gregová, 2016-12-14 This book offers thorough analyses of two typologically different languages English and Slovak from the viewpoint of two different approaches to language namely structuralism as introduced by Ferdinand de Saussure in the first half of the 20th century and generativism based on the ideas of Noam Chomsky's generative grammar presented in the 1960s Considering structuralist and generative phonology the most important unit of phonological analysis for both is the syllable Most of the theories within generative phonology provide a syllable model or rules for syllabification that are considered language universal but syllabification is not exhaustive since consonants that are part of a word but somehow violate the given syllable model or rules remain unsyllabified On the other hand in structuralist phonology syllable theories fulfil the condition of universality such that all languages have syllables and their syllabification is always exhaustive that is all segments in a word are syllabified In this book a generative understanding of the syllable is represented by the CVX syllable theory and the Syllable Structure Algorithm from Lexical Phonology and the synthetic phonological theory was chosen to typify structuralism As such the book adds to current research bridging the gap between generative and structuralist linguistics

Locality in Vowel Harmony Andrew Nevins, 2010 This work offers phonologists new evidence that viewing vowel harmony through the lens of relativized minimality has the potential to unify different levels of linguistic representation and different domains of empirical inquiry in a unified framework

What is

CVCV and why should it be? Tobias Scheer, 2012-10-24 This book presents a development of Jean Lowenstamm's idea that phonological constituent structure can be reduced to a strict sequence of non branching Onsets and non branching Nuclei. The approach at hand is known as CVCV and emerged from Government Phonology. Since its very beginnings in the early 80s the central claim of this theory has been that syllable based generalisations are due to lateral relations among constituents rather than to the familiar arboreal structure. This book shows that Standard Government Phonology did not go far enough in implementing this idea. CVCV completes the missing steps: structure and causality are fully lateralised. Detailed discussion is offered how basic phonological objects and processes such as Coda, closed syllables, long vowels, geminates, syllabic consonants, vowel zero, alternations, closed syllable shortening, compensatory lengthening, lenition and the like can be represented within the CVCV frame. The first part of the book is called 'What is CVCV'. It presents the properties of the theory. The second part focuses on the reasons why it is worthwhile considering CVCV a valuable and viable approach. The primary goal of the book is not to engage the dialogue with other phonological theories. Rather it aims at establishing a player in the general game. Defining the properties of a theory is always prior to its comparison with other models. In the current OT dominated phonological scene then CVCV appears as a true theory of the 80s insofar as it is representational at core: representations exist and are primitive rather than arising as accidental results from a heterogeneous set of constraints. The original analyses presented in this book are grounded in the languages that the author is best familiar with: i.e. Western Slavic, French, German and some Semitic. Particular attention is paid to diachronic evidence in its relation to the synchronic state of languages.

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