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The phonetics–phonology interface

John Kingston

17.1 Introduction

Phonetics interfaces with phonology in three ways. First, phonetics defines distinctive features. Second, phonetics explains many phonological patterns. These two interfaces constitute what has come to be called the ‘substantive grounding’ of phonology (Archangeli & Pulleyblank 1994). Finally, phonetics implements phonological representations.

The number and depth of these interfaces is so great that one is naturally moved to ask how autonomous phonetics and phonology are from one another and whether one can be largely reduced to the other. The answers to these questions in the current literature could not differ more. At one extreme, Ohala (1990b) argues that there is in fact no interface between phonetics and phonology because the latter can largely if not completely be reduced to the former. At the opposite extreme, Hale & Reiss (2000b) argue for excluding phonetics entirely from phonology because the latter is about computation, while the former is about something else. Between these extremes is a large variety of other answers to these questions, ranging from Blevins’s (2004) claim that phonetics motivates sound change but does not otherwise regulate synchronic sound patterns to Browman & Goldstein’s (1995) assertion that phonological representations are merely an assemblage of phonetic units of a grain coarse enough to be reliably categorized (see also Hayes 1999).

These examples aren’t a comprehensive list of current points of view, nor do they represent the principal alternatives from which one might choose. They instead merely show that the field has reached no consensus about what the interface is, nor has it even agreed that one exists at all. The field therefore cannot agree about how distinctive features are defined, phonological patterns explained, or phonological representations implemented by the phonetics. The confident assertions about the three interfaces with which I began this paper are not self-evident truths to everyone, much less any particular phonetic definitions, explanations, or implementations.

References Cambridge Handbook Of Phonology

Mark Aronoff,Janie Rees-Miller



References Cambridge Handbook Of Phonology:

The Cambridge Handbook of Phonology Paul de Lacy, 2007-02-01 Phonology the study of how the sounds of speech are represented in our minds is one of the core areas of linguistic theory and is central to the study of human language This handbook brings together the world's leading experts in phonology to present the most comprehensive and detailed overview of the field Focusing on research and the most influential theories the authors discuss each of the central issues in phonological theory explore a variety of empirical phenomena and show how phonology interacts with other aspects of language such as syntax morphology phonetics and language acquisition Providing a one stop guide to every aspect of this important field The Cambridge Handbook of Phonology will serve as an invaluable source of readings for advanced undergraduate and graduate students an informative overview for linguists and a useful starting point for anyone beginning phonological research

The Handbook of Linguistics Mark Aronoff, Janie Rees-Miller, 2017-03-08 The first edition of this Handbook is built on surveys by well known figures from around the world and around the intellectual world reflecting several different theoretical predilections balancing coverage of enduring questions and important recent work Those strengths are now enhanced by adding new chapters and thoroughly revising almost all other chapters partly to reflect ways in which the field has changed in the intervening twenty years in some places radically The result is a magnificent volume that can be used for many purposes David W Lightfoot Georgetown University The Handbook of Linguistics Second Edition is a stupendous achievement Aronoff and Rees Miller have provided overviews of 29 subfields of linguistics each written by one of the leading researchers in that subfield and each impressively crafted in both style and content I know of no finer resource for anyone who would wish to be better informed on recent developments in linguistics Frederick J Newmeyer University of Washington University of British Columbia and Simon Fraser University Linguists their students colleagues family and friends anyone interested in the latest findings from a wide array of linguistic subfields will welcome this second updated and expanded edition of The Handbook of Linguistics Leading scholars provide highly accessible yet substantive introductions to their fields it's an even more valuable resource than its predecessor Sally McConnell Ginet Cornell University No handbook or text offers a more comprehensive contemporary overview of the field of linguistics in the twenty first century New and thoroughly updated chapters by prominent scholars on each topic and subfield make this a unique landmark publication Walt Wolfram North Carolina State University This second edition of The Handbook of Linguistics provides an updated and timely overview of the field of linguistics The editor's broad definition of the field ensures that the book may be read by those seeking a comprehensive introduction to the subject but with little or no prior knowledge of the area Building on the popular first edition The Handbook of Linguistics Second Edition features new and revised content reflecting advances within the discipline New chapters expand the already broad coverage of the Handbook to address and take account of key changes within the field in the intervening years It explores psycholinguistics linguistic anthropology and ethnolinguistics

sociolinguistic theory language variation and second language pedagogy With contributions from a global team of leading linguists this comprehensive and accessible volume is the ideal resource for those engaged in study and work within the dynamic field of linguistics *The Handbook of Phonological Theory* John A. Goldsmith, Jason Riggle, Alan C. L.

Yu, 2014-01-07 *The Handbook of Phonological Theory* second edition offers an innovative and detailed examination of recent developments in phonology and the implications of these within linguistic theory and related disciplines Revised from the ground up for the second edition the book is comprised almost entirely of newly written and previously unpublished chapters Addresses the important questions in the field including learnability phonological interfaces tone and variation and assesses the findings and accomplishments in these domains Brings together a renowned and international contributor team Offers new and unique reflections on the advances in phonological theory since publication of the first edition in 1995 Along with the first edition still in publication it forms the most complete and current overview of the subject in print Origins of Sound Change Alan C. L. Yu, 2013-01-10 This volume showcases the current state of the art in phonologization research bringing together work by leading scholars in sound change research from different disciplinary and scholarly traditions

Phonological Architecture Bridget D. Samuels, 2011-10-13 *Phonological Architecture* bridges linguistic theory and the biological sciences presenting a comprehensive view of phonology from a biological perspective Its back to basics approach breaks phonology into primitive operations and representations and investigates their possible origins in cognitive abilities found throughout the animal kingdom Bridget Samuels opens the discussion by considering the general properties of the externalisation system in a theory neutral manner using animal cognition studies to identify which components of phonology may not be unique to humans and or to language She demonstrates on the basis of behavioural and physiological studies on primates songbirds and a wide variety of other species that the cognitive abilities underlying human phonological representations and operations are present in creatures other than *Homo sapiens* even if not to the same degree and in domains other than phonology or indeed language proper The second more linguistically technical half of the book explores what is necessarily unique about phonology The author discusses the properties of the phonological module which are dictated by the interface requirements of the syntactic module of Universal Grammar as well as different components of the human sensory motor system ie audition vision and motor control She proposes a repertoire of phonological representations and operations which are consistent with Universal Grammar and human cognitive evolution She illustrates the application of these operations with analyses of representative phonological data such as vowel harmony reduplication and tone spreading patterns Finally the author addresses the issue of cross linguistic and inter speaker variation **The Oxford Handbook of Language Production** Matthew Goldrick, Victor Ferreira, Michele Miozzo, 2014-04-11 *The Oxford Handbook of Language Production* provides a comprehensive multidisciplinary review of the complex mechanisms involved in language production It describes what we know of the computational linguistic cognitive and brain bases of human language production from how

we conceive the messages we aim to convey to how we retrieve the right and sometimes wrong words how we form grammatical sentences and how we assemble and articulate individual sounds letters and gestures Contributions from leading psycholinguists linguists and neuroscientists offer readers a broad perspective on the latest research highlighting key investigations into core aspects of human language processing The Handbook is organized into three sections speaking written and sign languages and how language production interfaces with the wider cognitive system including control processes memory non linguistic gestures and the perceptual system These chapters discuss a wide array of levels of representation from sentences to individual words speech sounds and articulatory gestures extending to discourse and the broader social context of speaking Detailed supporting chapters provide an overview of key issues in linguistic structure at each level of representation Authoritative yet concisely written the volume will be of interest to scholars and students working in cognitive psychology psycholinguistics cognitive neuroscience computer science audiology and education and related fields

Phonetic Causes of Sound Change Daniel Recasens i Vives, 2020 This book provides an integrated account of the phonetic causes of the diachronic processes of palatalization assibilation and affrication It draws on a variety of historical dialectological and phonetic data from a wide range of language families including Romance Bantu Slavic and Germanic

Word Prominence in Languages with Complex Morphologies Ksenia Bogomolets, Harry van der Hulst, 2023 This book focuses on the theoretical and analytical challenges that languages with complex morphologies pose for the theory and typology of word level prosodic phenomena The first three chapters explore general theoretical issues while later chapters offer a series of case studies from a range of genetically and geographically diverse languages

Prosodic Weight Kevin M. Ryan, 2019-02-21 This volume provides the most comprehensive treatment of phonological weight to date bringing together traditional notions of categorical rime based weight and new developments in statistical prosodic phonology The book demonstrates that while some systems treat weight as a simple heavy vs light distinction others treat it as a rich continuum of heaviness Following an introduction to weight sensitive systems in phonology Kevin Ryan explores the range of phenomena that interact with prosodic weight Chapters examine the analysis of scales in terms of prominence rather than moraic coercion prosodic minimality in the context of larger prosodic constituents syllable weight in metrics and the relationship between prosodic end weight and stress Throughout the analysis is based on a survey of weight systems both within and across the world's languages which yields a number of valuable generalizations and points towards a universal theory of weight in human language

The Sonority Controversy Steve Parker, 2012-08-31 Sonority has a long and contentious history It has often been invoked by linguists as an explanatory principle underlying various cross linguistic phonotactic generalizations especially within the domain of the syllable However many phonologists and phoneticians have expressed concerns about the adequacy of formal accounts based on sonority including even doubts about the very existence of sonority itself To date the topic of sonority has never been the focus of an entire book Consequently this is the first

complete volume that explores diverging viewpoints about phonological phenomena rooted in sonority taken from numerous languages. All of the contributors are well known and respected linguists who publish their research in leading academic outlets. Furthermore, each chapter in this collection contains new cutting edge results based on the latest trends in the field. Hence, no other extant piece of literature matches this volume in terms of its breadth and coverage of issues all converging on the common theme of sonority. Given the wide variety of subtopics in this collection, there is something to appeal to everyone; the list of contributions encompasses areas such as Optimality Theory, acquisition, computational modeling, acoustic phonetics, typology, syllable structure, speech perception, markedness, connectionism, psycholinguistics, and even MRI technology. What ties all of these issues together is a solid and consistent emphasis on sonority as a unified background phenomenon. Furthermore, a continuum of opinions about sonority is represented, ranging from complete acceptance and enthusiasm on the one hand to moderate skepticism on the other hand.

A Theory of Phonological Features San Duanmu, 2016-03-17. This book outlines a system of phonological features that is minimally sufficient to distinguish all consonants and vowels in the languages of the world. The extensive evidence is drawn from datasets with a combined total of about 1000 sound inventories. The interpretation of phonetic transcriptions from different languages is a long-standing problem. In this book, San Duanmu proposes a solution that relies on the notion of contrast. X and Y are different sounds if and only if they contrast in some language. He focuses on a simple procedure to interpret empirical data for each phonetic dimension: all inventories are searched in order to determine the maximal number of contrasts required. In addition, every unusual feature or extra degree of contrast is re-examined to confirm its validity. The resulting feature system is surprisingly simple: fewer features are needed than previously proposed, and for each feature, a two-way contrast is sufficient. Nevertheless, the proposal is reliable in that the notion of contrast is uncontroversial, the procedure is explicit, and the result is repeatable. The book also offers discussion of non-contrastive differences between languages, sound classes, and complex sounds such as affricates, consonant glide units, consonant liquid units, contour tones, pre-nasalized stops, clicks, ejectives, and implosives.

The Routledge Handbook of Historical Linguistics Claire Bowerman, Bethwyn Evans, 2015-03-24. The Routledge Handbook of Historical Linguistics provides a survey of the field, covering the methods which underpin current work, models of language change, and the importance of historical linguistics for other subfields of linguistics and other disciplines. Divided into five sections, the volume encompasses a wide range of approaches and addresses issues in the following areas: historical perspectives, methods and models, language change, interfaces, regional summaries. Each of the thirty-two chapters is written by a specialist in the field and provides an introduction to the subject, an analysis of the relationship between the diachronic and synchronic study of the topic, an overview of the main current and critical trends, and examples from primary data. The Routledge Handbook of Historical Linguistics is essential reading for researchers and postgraduate students working in this area. Chapter 28 of this book is freely available as a downloadable Open Access PDF under a Creative Commons Attribution

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Vowel-Shifting in the English Language Kamil Kaźmierski, 2015-03-10 English has long been suspected to be a vowel shifting language. This hypothesis, often only adumbrated in previous work, is closely investigated in this book. Framed within a novel framework combining evolutionary linguistics and Optimality Theory, the account proposed here argues that the replacement of duration by quality as the primary cue to signaling vowel oppositions has resulted in the shiftiness of many post-medieval English varieties. **Reconciling Indo-European Syllabification** Adam Cooper, 2014-10-09 In *Reconciling Indo-European Syllabification*, Adam Cooper brings together two seemingly disparate phenomena associated with Indo-European syllable structure: the heterosyllabic treatment of medial consonant clusters which tolerates CVC syllables and the right-hand vocalization of sonorants which ostensibly avoids them. Operating from a perspective that is simultaneously empirical, theoretical, and historical in nature, he establishes their compatibility by crafting a formal analysis that integrates them into a single picture of the reconstructed system. More generally, drawing on evidence from Vedic, Greek, and Proto-Indo-European itself, Cooper demonstrates the continued relevance of the ancient Indo-European languages to contemporary linguistic theory and, moreover, reaffirms the value of the syllable as a unit of phonology necessary for these languages' formal representation. **Morphological Length and Prosodically Defective Morphemes** Eva Zimmermann, 2017 This work examines specific sound changes that cannot be explained by phonological means alone but crucially rely on morphological information. It offers a unified theoretical account of these phenomena as well as a rich database of attested patterns in the world's languages. **Intonational Phrasing in Romance and Germanic** Christoph Gabriel, Conxita Lleó, 2011 Languages differ regarding both the ways they group words into phrases and the surface cues they use to indicate relevant phrasing patterns. Modeling intonation in as many languages as possible has become a central goal of theoretical and empirical linguistics. However, intonational research has only recently begun to devote attention to the analysis of spontaneous speech, one of the central issues of this book. The volume contains eight contributions by international scholars, some of them members of the Research Center on Multilingualism, Hamburg, Germany, all of them experts on intonation and most also on multilingualism. A central goal of the present volume is to expand the cross-linguistic and multilingual perspective of phrasing, focusing thereby on languages from the Romance and Germanic families, among them Catalan, French, German, Italian, Occitan, and Spanish. Within Spanish, special attention is given to several Argentinean varieties, and within Italian, the Neapolitan variety is compared with the standard one. **The Indo-European Syllable** Andrew Byrd, 2015-06-02 In *The Indo-European Syllable*, Andrew Miles Byrd investigates the process of syllabification within Proto-Indo-European (PIE), revealing connections to a number of seemingly unrelated phonological processes in the proto-language. Drawing from insights in linguistic typology and synchronic theory, he makes two significant advances in our understanding of PIE phonology. First, by analyzing securely reconstructable consonant clusters at word's edge, he devises a methodology which allows us to predict which types of

consonant clusters could occur word medially in PIE. Thus a number of previously disconnected phonological rules can now be understood as being part of a conspiracy motivated by violations in syllable structure. Second, he uncovers evidence of morphological influence within the syllable created by processes such as quantitative ablaut. These advances allow us to view PIE as a synchronic grammar, one which can be described by and contribute to modern linguistic theory.

Asymmetries in Vowel Harmony Harry van der Hulst, 2018-08-23 This book deals with the phenomenon of vowel harmony, a phonological process whereby all the vowels in a word are required to share a specific phonological property such as front or back articulation. Vowel harmony occurs in the majority of languages of the world, though only in very few European languages and has been a central concern in phonological theory for many years. In this volume, Harry van der Hulst puts forward a new theory of vowel harmony which accounts for the patterns of and exceptions to this phenomenon in the widest range of languages ever considered. The book begins with an overview of the general causes of asymmetries in vowel harmony systems. The two following chapters provide a detailed account of a new theory of vowel harmony based on unary elements and licensing, which is embedded in a general dependency-based theory of phonological structure. In the remaining chapters, this theory is applied to a variety of vowel harmony phenomena from typologically diverse languages, including palatal harmony in languages such as Finnish and Hungarian, labial harmony in Turkic languages, and tongue root systems in Niger Congo, Nilo-Saharan, and Tungusic languages. The volume provides a valuable overview of the diversity of vowel harmony in the languages of the world and is essential reading for phonologists of all theoretical persuasions.

Interfaces of Phonetics Marcel Schlechtweg, 2024-03-18 The role of phonetic detail within the language system and its interplay with other kinds of linguistic information represent a hotly debated territory. In the current volume, different types of phonetic nuances are examined with a particular focus on their relation to phonological, morphological, and semantic/pragmatic phenomena. These three interfaces—the phonetic/phonological, the phonetic/morphological, and the phonetic/semantic/pragmatic one—are investigated from a variety of angles and by consistently taking the rapport between phonetics and phonology into consideration. In doing so, we provide an up-to-date picture of research dealing with the interaction of distinct linguistic areas and also discuss the question if and when phonology is needed to mediate between phonetics and other linguistic domains.

Patterns and Representation in Arabic Place Assimilation Islam Youssef, 2023-11-15 This book is a phonological investigation of place assimilation phenomena in two major Arabic dialects: Cairene Egyptian and Baghdadi Iraqi. The studied phenomena involve interactions between consonants: various types of local assimilation between vowels, monophthongization, or between consonants and vowels, emphasis spread, and labialization. Throughout the content chapters, the patterns for each of these processes are carefully described and validated by ample data and then analyzed representationally using a minimalist model of feature geometry. The analysis follows a holistic approach as the representations are consistently used for all the segmental phenomena within a dialect. The first exclusive treatment of place assimilation in colloquial Arabic, this

book will be of particular interest to scholars and advanced students of Arabic linguistics and dialectology and to phonologists in general and can be a point of reference for researchers examining the details of such phenomena in other dialects of Arabic as well

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