

# *Papers in Laboratory Phonology II*

## *Gesture, Segment, Prosody*

EDITED BY

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D. Robert Ladd*

# Gesture Segment Prosody

**Sun-Ah Jun**



## **Gesture Segment Prosody:**

*Gesture, Segment, Prosody* Gerard J. Docherty, D. Robert Ladd, 1992-05-14 Laboratory Phonology uses speech data to research questions about the abstract categorical structures of phonology. This collection of papers broadly addresses three such questions: what structures underlie the temporal coordination of articulatory gestures? What is the proper role of segments and features in phonological description? And what structures hierarchical or otherwise relate morphosyntax to prosody? In order to encourage the interdisciplinary understanding required for progress in this field, each of the three groups of papers is preceded by a tutorial paper commissioned for this volume on theories and findings presupposed by some or all of the papers in the group. In addition, most of the papers are followed by commentaries written by noted researchers in phonetics and phonology which serve to bring important theoretical and methodological issues into perspective. Most of the material collected here is based on papers presented at the Second Conference on Laboratory Phonology in Edinburgh 1989. The volume is therefore a sequel to Kingston and Beckman's *Papers in Laboratory Phonology I* also published by Cambridge University Press.

**A Prosodic Model of Sign Language Phonology** Diane Brentari, 1998 Superior to any other book on the subject that I have seen, I can see it being used as a class text or reference for current theory in sign language phonology. Carol A. Padden, Department of Communication, University of California.

**Segmental and prosodic issues in Romance phonology** Pilar Prieto, Joan Mascaró, Maria-Josep Solé, 2007-04-06 This volume is a collection of cutting edge research papers written by well known researchers in the field of Romance phonetics and phonology. An important goal of this book is to bridge the gap between traditional Romance linguistics with its long and rich tradition in data collection, cross language comparison and phonetic variation and laboratory phonology work. The book is organized around three main themes: segmental processes, prosody and the acquisition of segments and prosody. The various articles provide new empirical data on production, perception, sound change, first and second language learning, rhythm and intonation, presenting a state of the art overview of research in laboratory phonology centred on Romance languages. The Romance data are used to test the predictions of a number of theoretical frameworks such as gestural phonology, exemplar models, generative phonology and optimality theory. The book will constitute a useful companion volume for phoneticians, phonologists and researchers investigating sound structure in Romance languages and will serve to generate further interest in laboratory phonology.

**Prosodic Typology** Sun-Ah Jun, 2006 This book illustrates an approach to prosodic typology through descriptions of the intonation and the prosodic structure of thirteen typologically different languages based on the same theoretical framework: the autosegmental metrical model of intonational phonology and the transcription system of prosody known as Tones and Break Indices ToBI. It is the first book introducing the history and principles of this system and it covers European languages, Asian languages, an Australian aboriginal language and an American Indian language. The book shows how languages and dialects are similar to or different from other languages or dialect varieties in terms of the prosodic structure: the intonational

categories and their realizations This is the first book on intonation which is accompanied by a CD ROM where sound files mentioned in each chapter are stored *Experimental Approaches to Phonology* Maria-Josep Sole, Patrice Speeter Beddor, Manjari Ohala, 2007-08-10 This wide ranging survey of experimental methods in phonetics and phonology shows the insights and results provided by different methods of investigation including laboratory based statistical psycholinguistic computational modeling corpus and field techniques The five chapters in the first part of the book examine the recent history and interrelations of theory and method The remaining 18 chapters are organized into parts devoted to four key current areas of research phonological universals phonetic variation and phonological change maintaining enhancing and modeling phonological contrasts and phonological knowledge The book provides fresh insights into the findings and theoretical advances that emerge from experimental investigation of phonological structure and phonological knowledge as well as critical perspectives on experimental methods in the perception production and modeling of speech This book will be a valuable asset for all researchers into the sound structure of language including scholars and advanced students of phonetics phonology speech science psycholinguistics and applied linguistics Simultaneous Structure in Phonology D. Robert Ladd, 2014-04-03 In this book D Robert Ladd focuses on problems with the one dimensional idealization of language on which much linguistic theory is based Strings of sequentially ordered elements play an important role as theoretical abstractions in both phonology and syntax Yet many well known phonological phenomena such as vowel harmony ablaut morphology and pitch features are problematic for this one dimensional idealization and many attempts such as autosegmental phonology have been made to allow for these troublesome characteristics in our theories The book deals with diverse aspects of these problematical non sequential phenomena The five main chapters cover distinctive features and autosegments systematic phonetics the definition of prosody aspects of vocal paralinguistic communication and gradience and duality of patterning Each chapter reviews a wide range of relevant literature generally going back to the beginnings of modern linguistics in the early twentieth century and all of them can usefully be read as free standing synthetic overviews of the issues they discuss The final chapter suggests that phonological structure sequential or otherwise can be seen as a special case of the segmentation of continuous action into discrete events and that research on this general topic within cognitive psychology is relevant to phonological theory Professor Ladd s unique work makes a fundamental contribution to phonology and phonetics and to linguistic theory more generally His book will interest all theoretical linguists and cognitive scientists concerned with understanding the relation between phonological representations and the speech signal **The Phonetics and Phonology of Geminate Consonants** Haruo Kubozono, 2017 This book is the first volume specifically devoted to the phonetic manifestation and phonological nature of geminate or long consonants a feature of many of the world s languages including Arabic Bengali Finnish Hungarian Italian Japanese Malayalam Persian Saami Swiss German and Turkish *Laboratory Phonology 8* Louis Goldstein, D. H. Whalen, Catherine T. Best, 2009-02-26 This collection of papers from Eighth Conference on

Laboratory Phonology held in New Haven CT explores what laboratory data that can tell us about the nature of speakers phonological competence and how they acquire it and outlines models of the human phonological capacity that can meet the challenge of formalizing that competence The window on the phonological capacity is broadened by including for the first time in the Laboratory Phonology series work on signed languages and papers that explicitly compare signed and spoken phonologies A major focus cutting across signed and spoken phonologies is that phonological competence must include both qualitative or categorical and quantitative or variable knowledge Theoretical approaches represented in the collection for accommodating these types of knowledge include modularity dynamical grammars and probabilistic grammars A second major focus is on the acquisition of this knowledge Here the papers pursue the consequences for acquisition of taking into account the richness and variability of the adult systems that provide input to the child The final focus is on how phonological knowledge guides speech production Data and models address the question of how speech gestures interact with one another locally through articulatory constraints and syllable level organization and how they interact with the prosodic structure of an utterance The twenty six papers in the collection include invited contributions from Diane Brentari David Corina David Perlmutter D Robert Ladd Diamandis Gafos Marilyn Vihman Shelley Velleman Stefanie Shattuck Hufnagel and Dani Byrd

**Variation within and across Romance Languages** Marie-Hélène Côté, Eric Mathieu, 2014-12-15 This volume is a selection of twenty peer reviewed articles first presented at the 41st annual Linguistic Symposium on Romance Languages LSRL held at the University of Ottawa in 2011 They are thematically linked by a broad notion of variation across languages dialects speakers time linguistic contexts and communicative situations Furthermore the articles address common theoretical and empirical issues from different formal experimental or corpus based perspectives The languages analyzed belong to the main members of the Romance family Spanish Portuguese Catalan French Ladin Italian Sardinian and Romanian and a variety of topics across a wide spectrum of linguistic subfields from phonetics to semantics as well as historical linguistics bilingualism and second language learning is covered By illustrating the richness and complementarity of subjects methods and theoretical frameworks explored within Romance linguistics significant contributions are made to both the documentation of Romance languages and to linguistic theory

**Phonological Augmentation in Prominent Positions** Jennifer L. Smith, 2004-07 1 Positional augmentation markedness constraints for prominent positions 2 A theory of positional augmentation constraints 3 Augmentation of phonetically strong positions 4 Augmentation of psycholinguistically strong positions 5 Positional augmentation and positional neutralization 6 Conclusions implications and future directions

**Phonological Typology** Larry M. Hyman, Frans Plank, 2018-04-09 Despite earlier work by Trubetzkoy Jakobson and Greenberg phonological typology is often underrepresented in typology textbooks At the same time most phonologists do not see a difference between phonological typology and cross linguistic formal phonology The purpose of this book is to bring together leading scholars to address the issue of phonological typology both in terms of the unity and the diversity of

phonological systems      **Phonetics and Phonology** Marina Vigário, Sónia Frota, M. João Freitas, 2009-10-28 The papers included in the volume *Phonetics and Phonology Interactions and interrelations* are concerned with some of the multiple possible forms of interactions and interrelations in phonetics and phonology the phonetic and or phonological nature of speech patterns segmental and prosodic interactions and interactions between segments and features both in child and in adult language combining perception and production data and doing so from theoretically as well as experimentally oriented perspectives The book is unique in the universe of recent publications for its topic wide scope and coherent thematic content It is of interest to all researchers teachers and students in the fields of phonetics and phonology as well as to those interested in the interplay between production and perception the organization of grammar and language typology In general *Phonetics and Phonology Interactions and interrelations* may be a useful companion to all those wishing to widen and deepen their knowledge of the sound structure of language s      *Phonetically Based Phonology* Bruce Hayes, Robert Kirchner, Donca Steriade, 2004-08-12 *Phonetically Based Phonology* is centred around the hypothesis that phonologies of languages are determined by phonetic principles that is phonetic patterns involving ease of articulation and perception are expressed linguistically as grammatical constraints This book brings together a team of scholars to provide a wide ranging study of phonetically based phonology It investigates the role of phonetics in many phonological phenomena such as assimilation vowel reduction vowel harmony syllable weight contour line distribution metathesis lenition sonority sequencing and the Obligatory Contour Principle OCP exploring in particular the phonetic bases of phonological markedness in these key areas The analyses also illustrate several analytical strategies whereby phonological sound patterns can be related to their phonological underpinnings Each chapter includes a tutorial discussion of the phonetics on which the phonological discussion is based Diverse and comprehensive in its coverage *Phonetically Based Phonology* will be welcomed by all linguists interested in the relationship between phonetics and phonological theory      **Prosodic boundary phenomena** Fabian Schubö, Sabine Zerbian, Sandra Hanne, Isabell Wartenburger, 2023-05-05 In spoken language comprehension the hearer is faced with a more or less continuous stream of auditory information Prosodic cues such as pitch movement pre boundary lengthening and pauses incrementally help to organize the incoming stream of information into prosodic phrases which often coincide with syntactic units Prosody is hence central to spoken language comprehension and some models assume that the speaker produces prosody in a consistent and hierarchical fashion While there is manifold empirical evidence that prosodic boundary cues are reliably and robustly produced and effectively guide spoken sentence comprehension across different populations and languages the underlying mechanisms and the nature of the prosody syntax interface still have not been identified sufficiently This is also reflected in the fact that most models on sentence processing completely lack prosodic information This edited book volume is grounded in a workshop that was held in 2021 at the annual conference of the Deutsche Gesellschaft f r Sprachwissenschaft DGfS The five chapters cover selected topics on the production and

comprehension of prosodic cues in various populations and languages all focusing in particular on processing of prosody at structurally relevant prosodic boundaries Specifically the book comprises cross linguistic evidence as well as evidence from non native listeners infants adults and elderly speakers highlighting the important role of prosody in both language production and comprehension

A model of sonority based on pitch intelligibility Aviad Albert, 2023-06-10 Sonority is a central notion in phonetics and phonology and it is essential for generalizations related to syllabic organization However to date there is no clear consensus on the phonetic basis of sonority neither in perception nor in production The widely used Sonority Sequencing Principle SSP represents the speech signal as a sequence of discrete units where phonological processes are modeled as symbol manipulating rules that lack a temporal dimension and are devoid of inherent links to perceptual motoric or cognitive processes The current work aims to change this by outlining a novel approach for the extraction of continuous entities from acoustic space in order to model dynamic aspects of phonological perception It is used here to advance a functional understanding of sonority as a universal aspect of prosody that requires pitch bearing syllables as the building blocks of speech This book argues that sonority is best understood as a measurement of pitch intelligibility in perception which is closely linked to periodic energy in acoustics It presents a novel principle for sonority based determinations of well formedness the Nucleus Attraction Principle NAP Two complementary NAP models independently account for symbolic and continuous representations and they mostly outperform SSP based models demonstrated here with experimental perception studies and with a corpus study of Modern Hebrew nouns This work also includes a description of ProPer Prosodic Analysis with Periodic Energy The ProPer toolbox further exploits the proposal that periodic energy reflects sonority in order to cover major topics in prosodic research such as prominence intonation and speech rate The book is finally concluded with brief discussions on selected topics i the phonotactic division of labor with respect to s stop clusters ii the debate about the universality of sonority and iii the fate of the classic phonetics phonology dichotomy as it relates to continuity and dynamics in phonology

The Routledge Handbook of Phonetics William F. Katz, Peter F. Assmann, 2019-03-15 The Routledge Handbook of Phonetics provides a comprehensive and up to date compilation of research history and techniques in phonetics With contributions from 41 prominent authors from North America Europe Australia and Japan and including over 130 figures to illustrate key points this handbook covers all the most important areas in the field including the history and scope of techniques used including speech synthesis vocal tract imaging techniques and obtaining information on under researched languages from language archives the physiological bases of speech and hearing including auditory articulatory and neural explanations of hearing speech and language processes theories and models of speech perception and production related to the processing of consonants vowels prosody tone and intonation linguistic phonetics with discussions of the phonetics phonology interface sound change second language acquisition sociophonetics and second language teaching research applications and extensions including phonetics and gender clinical phonetics and forensic

phonetics The Routledge Handbook of Phonetics will be indispensable reading for students and practitioners in the fields of speech language linguistics and hearing sciences

**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

*Intonation and Prosodic Structure* Caroline Féry, 2017 This book provides a state of the art survey of intonation and prosody from a phonological perspective for advanced students and researchers in phonology

**Features in Phonology and Phonetics** Annie Rialland, Rachid Ridouane, Harry van der Hulst, 2015-05-19 This book intends to place Nick Clements contribution to Feature Theory in a historical and contemporary context and to introduce some of his unpublished manuscripts as well as new work with colleagues collected in this book

**The Blackwell Companion to Phonology, 5 Volume Set** Marc van Oostendorp, 2011-04-04 Available online or as a five volume print set The Blackwell Companion to Phonology is a major reference work drawing together 124 new contributions from leading international scholars in the field It will be indispensable to students and researchers in the field for years to come

**Key Features** Full explorations of all the most important ideas and key developments in the field Documents major insights into human language gathered by phonologists in past decades highlights interdisciplinary connections such as the social and computational sciences and examines statistical and experimental techniques Offers an overview of theoretical positions and ongoing debates within phonology at the beginning of the twenty first century An extensive reference work based on the best and most recent scholarly research ideal for advanced undergraduates through to faculty and researchers Publishing simultaneously in print and online visit [www.companiontophonology.com](http://www.companiontophonology.com) for full details Additional features of the online edition ISBN 978 1 4443 3526 2 Powerful searching browsing and cross referencing capabilities including Open URL linking with all entries classified by key topic subject place people and period For those institutions already subscribing to Blackwell Reference Online it offers fully integrated and searchable content with the comprehensive Handbooks in Linguistics series



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