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## **Speech Segmentation by Native and Non-Native Speakers: The Use of Lexical, Syntactic, and Stress-Pattern Cues**

**Lisa D. Sanders<sup>\*</sup>** and **Helen J. Neville**

*University of Oregon, Eugene*

**Marty G. Woldorff**

*Duke University Chapel Hill, NC*

### **Abstract**

Varying degrees of plasticity in different subsystems of language have been demonstrated by studies showing that some aspects of language are processed similarly by native speakers and late-learners whereas other aspects are processed differently by the two groups. The study of speech segmentation provides a means by which the ability to process different types of linguistic information can be measured within the same task, because lexical, syntactic, and stress-pattern information can all indicate where one word ends and the next begins in continuous speech. In this study, native Japanese and native Spanish late-learners of English (as well as near-monolingual Japanese and Spanish speakers) were asked to determine whether specific sounds fell at the beginning or in the middle of words in English sentences. Similar to native English speakers, late-learners employed lexical information to perform the segmentation task. However, non-native speakers did not use syntactic information to the same extent as native English speakers. Although both groups of late-learners of English used stress pattern as a segmentation cue, the extent to which this cue was relied upon depended on the stress-pattern characteristics of their native language. These findings support the hypothesis that learning a second language later in life has differential effects on subsystems within language.

### **Keywords**

bilingual; speech segmentation; lexical; syntax; stress pattern

Many studies have shown that differences in language experience (e.g., learning an L1 or L2, age of acquisition) affect how language is processed. However, past studies have typically focused on a single aspect of language. In contrast, this study investigates multiple aspects of language, measuring the influence of language experience on the use of lexico-semantic, syntactic, and prosodic information. Previous research has suggested that some subsystems of language remain flexible throughout life such that individuals learning an L1, an L2 early in life, or an L2 later in life achieve similar levels of processing. Other subsystems are greatly affected by differences in language experience. Measuring the effects of language experience on different subsystems of language in the same individuals performing the same task makes it possible to determine the relative plasticity of these subsystems.

Contact author: Lisa D. Sanders, PhD, Linguistics Department, University of Maryland, 1400 Marie Mount Hall, College Park, MD 20742-7505, E-mail: lsanders@uam.umd.edu.

<sup>\*</sup>Currently affiliated with the University of Maryland, College Park.

# Acoustic Cues To Speech Segmentation In Spoken French Native And Non Native Strategies

**Angela D. Friederici**



## **Acoustic Cues To Speech Segmentation In Spoken French Native And Non Native Strategies:**

**Acoustic Cues to Speech Segmentation in Spoken French: Native and Non-native Strategies** Ellenor M. Shoemaker, 2010-03-25 This book presents an empirical study on the perception and comprehension of spoken French by both native and non native speakers of the language The phonological processes of liaison elision and enchaînement in French often render syllable and word boundaries ambiguous e.g. un air a melody and un nerf a nerve both transcribed and syllabified identically Some research has suggested that in the case of liaison speakers of French give listeners acoustic cues to word boundaries by varying the duration of consonants that surface in liaison and the same consonant in initial position Production studies have shown that liaison consonants e.g. n in un air are significantly shorter than initial consonants e.g. n in un nerf Wauquier Gravelines 1996 Spinelli et al 2003 Studies on the perception of spoken French have suggested that listeners exploit these durational differences in the segmentation of running speech e.g. Gaskell et al 2002 Spinelli et al 2003 though no study to date has tested this hypothesis directly The experiments presented here show that segmental duration alone can indeed modulate the lexical interpretation of sequences rendered ambiguous by the possibility of liaison in spoken French These results have manifest implications for the study of the plasticity of the perceptual system as well as for the study of the upper limits of second language acquisition Though there was a great deal of variance in both groups eight out of 36 non native participants scored at or above the native mean These results are particularly interesting in that they are in line with current research that suggests that not only can advanced L2 learners develop native like sensitivity to non contrastive phonological variation in an L2 but that these learners can exploit this information in L2 speech processing see for example Darcy et al 2007

**Manual of Romance Phonetics and Phonology** Christoph Gabriel, Randall Gess, Trudel Meisenburg, 2021-11-22 This handbook is structured in two parts it provides on the one hand a comprehensive synchronic overview of the phonetics and phonology including prosody of a breadth of Romance languages and focuses on the other hand on central topics of research in Romance segmental and suprasegmental phonology including comparative and diachronic perspectives Phonetics and phonology have always been a core discipline in Romance linguistics the wide synchronic variety of languages and dialects derived from spoken Latin is extensively explored in numerous corpus and atlas projects and for quite a few of these varieties there is also more or less ample documentation of at least some of their diachronic stages This rich empirical database offers excellent testing grounds for different theoretical approaches and allows for substantial insights into phonological structuring as well as into incipient ongoing or concluded processes of phonological change The volume can be read both as a state of the art report of research in the field and as a manual of Romance languages with special emphasis on the key topics of phonetics and phonology

**Phonology in the Bilingual and Bidialectal Lexicon** Isabelle Darcy, Annie Tremblay, Miquel Simonet, 2017-07-06 A conversation between two people can only take place if the words intended by each speaker are successfully recognized Spoken word recognition is at the heart of

language comprehension This automatic and smooth process remains a challenge for models of spoken word recognition Both the process of mapping the speech signal onto stored representations for words and the format of the representation themselves are subject to debate So far existing research on the nature of spoken word representations has focused mainly on native speakers The picture becomes even more complex when looking at spoken word recognition in a second language Given that most of the world's speakers know and use more than one language it is crucial to reach a more precise understanding of how bilingual and multilingual individuals encode spoken words in the mental lexicon and why spoken word recognition is more difficult in a second language than in the native language Current models of native spoken word recognition operate under two assumptions i that listeners perception of the incoming speech signal is optimal and ii that listeners lexical representations are accurate As a result lexical representations are easily activated and intended words are successfully recognized However these assumptions are compromised when applied to a later learned second language For a variety of reasons e g phonetic phonological orthographic second language users may not perceive the speech signal optimally and they may still be refining the motor routines needed for articulation Accordingly their lexical representations may differ from those of native speakers which may in turn inhibit their selection of the intended word forms Second language users also have to solve a larger selection challenge having words in more than one language to choose from Thus for second language users the links between perception lexical representations orthography and production are all but clear Even for simultaneous bilinguals important questions remain about the specificity and interdependence of their lexical representations and the factors influencing cross language word activation This Frontiers Research Topic seeks to further our understanding of the factors that determine how multilinguals recognize and encode spoken words in the mental lexicon with a focus on the mapping between the input and lexical representations and on the quality of lexical representations

**The relationship between music and language** Lutz Jäncke, Traditionally music and language have been treated as different psychological faculties This duality is reflected in older theories about the lateralization of speech and music in that speech functions were thought to be localized on the left and music functions on the right hemisphere But with the advent of modern brain imaging techniques and the improvement of neurophysiological measures to investigate brain functions an entirely new view on the neural and psychological underpinnings of music and speech has evolved The main point of convergence in the findings of these new studies is that music and speech functions have many aspects in common and that several neural modules are similarly involved in speech and music There is also emerging evidence that speech functions can benefit from music functions and vice versa This new research field has accumulated a lot of new information and it is therefore timely to bring together the work of those researchers who have been most visible productive and inspiring in this field and to ask them to present their new work or provide a summary of their laboratory's work *Linguistics and Language Behavior Abstracts* ,2008 **Intelligibility, Oral Communication, and the Teaching of Pronunciation** John

M. Levis, 2018-10-04 An intelligibility based approach to teaching that presents pronunciation as critical yet neglected in communicative language teaching      *Second Language Speech* Laura Colantoni, Jeffrey Steele, Paola Escudero, 2015-09-10

Second language acquisition has rapidly grown as a field over the past decade as our knowledge of the ways in which children and adults learn and use a second language has become crucial for effective language teaching. In addition to this important applied function, research into second language acquisition has also informed the fields of linguistics and psychology in general as it has shed light on the differences between native and non-native models of human language and cognition. The focus of this accessible new book is second language speech: that is, how speakers perceive, process, understand and pronounce the sounds of a second language. Each chapter includes review questions and most chapters include tutorial and lab sections with practical exercises based on the University of Toronto Romance Phonetics Database available online for free. The book also has a companion website containing illustrated answers to the exercises, scripts for running acoustic analyses and useful weblinks.      *2000 IEEE International Conference on Acoustics, Speech and Signal Processing* IEEE Signal Processing Society, 2000      **Speech Perception and Spoken Word Recognition** Gareth Gaskell, Jelena Mirković, 2016-10-04

Speech Perception and Spoken Word Recognition features contributions from the field's leading scientists and covers recent developments and current issues in the study of cognitive and neural mechanisms that take patterns of air vibrations and turn them magically into meaning. The volume makes a unique theoretical contribution in linking behavioural and cognitive neuroscience research and cutting across traditional strands of study such as adult and developmental processing. The book focusses on the state of the art in the study of speech perception and spoken word recognition. It discusses the interplay between behavioural and cognitive neuroscience evidence and between adult and developmental research. It evaluates key theories in the field and relates them to recent empirical advances including the relationship between speech perception and speech production, meaning representation and real-time activation and bilingual and monolingual spoken word recognition. It examines emerging areas of study such as word learning and the time course of memory consolidation and how the science of human speech perception can help computer speech recognition. Overall, this book presents a renewed focus on theoretical and developmental issues as well as a multifaceted and broad review of the state of research in speech perception and spoken word recognition. Particularly interested readers will be researchers of psycholinguistics and adjoining fields as well as advanced undergraduate and postgraduate students.      *Language Comprehension: A Biological Perspective* Angela D. Friederici, 2012-12-06

Language comprehension and production is a uniquely human capability. We know little about the evolution of language as a human trait, possibly because our direct ancestors lived several million years ago. This fact certainly impedes the desirable advances in the biological basis of any theory of language evolution. Our knowledge about language as an existing species-specific biological system, however, has advanced dramatically over the last two decades. New experimental techniques have allowed the investigation of language

and language use within the methodological framework of the natural sciences The present book provides an overview of the experimental research in the area of language comprehension in particular A biological perspective on language appears to be the common ground for all the contributors Their research view is based on the conviction that knowledge about the language system can be gained on the basis of empirical research guided by modifiable theories Each of the contributors reports and discusses the relevant work in hers or his specific field of research Each of the nine chapters in this book focuses on a different level or aspect of language comprehension thereby covering the level of input processes and word recognition the level of sentence processing as well as the level of text processing Aspects of structural representation and access to this representation are also discussed One chapter finally attempts to describe the neurobiological basis of the different aspects of the language comprehension process     *Language Comprehension* Angela D. Friederici, 2012-12-06 The second edition of the book on language comprehension in honor of Pim Levelt's sixtieth birthday has been released before he turns sixty one Some things move faster than the years of age This seems to be especially true for advances in science Therefore the present edition entails changes in some of the chapters and incorporates an update of the current literature I would like to thank all contributors for their cooperation in making a second edition possible such a short time after the completion of the first one Angela D Friederici Leipzig November 23 1998 Preface to the first edition Language comprehension and production is a uniquely human capability We know little about the evolution of language as a human trait possibly because our direct ancestors lived several million years ago This fact certainly impedes the desirable advances in the biological basis of any theory of language evolution Our knowledge about language as an existing species specific biological system however has advanced dramatically over the last two decades New experimental techniques have allowed the investigation of language and language use within the methodological framework of the natural sciences The present book provides an overview of the experimental research in the area of language comprehension in particular     **Psychological Abstracts** Walter Samuel Hunter, 1999     The naïve language expert: How infants discover units and regularities in speech Claudia Männel, Jutta L Mueller, 2015-01-22     *Cognitive Psychology* Nick Braisby, Angus Gellatly, 2012-03 Cognitive Psychology provides insight into this illuminating subject leading readers through such topics as attention memory judgement and decision making and introducing us to the latest computational and imaging techniques through which our understanding of these topics is being continually enhanced     *MLA International Bibliography of Books and Articles on the Modern Languages and Literatures* , 2006     **Phonetica** , 1995     Cumulated Index Medicus , 1989     **Proceedings of the Sixteenth Annual Conference of the Cognitive Science Society** Ashwin Ram, Kurt Eiselt, 2019-05-23 This volume features the complete text of all regular papers posters and summaries of symposia presented at the 16th annual meeting of the Cognitive Science Society     **The Sound Shape of Language** Roman Jakobson, Linda R. Waugh, 2020-05-18 No detailed description available for The Sound Shape of Language     **Comprehensive Dissertation Index** , 1989

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