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# Vowel Perception and Production

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B. S. ROSNER and J. B. PICKERING

OXFORD SCIENCE PUBLICATIONS

# Vowel Perception And Production

**Judith Lynn Jackson**



## **Vowel Perception And Production:**

**Vowel Perception and Production** B. S. Rosner, J. B. Pickering, 1994-07-21 The last 50 years have witnessed a rapid growth in the understanding of the articulation and the acoustics of vowels Contemporary theories of speech perception have concentrated on consonant perception and this volume is intended as a balance to such bias The authors propose a computational theory of auditory vowel perception accounting for vowel identification in the face of acoustic differences between speakers and speaking rate and stress This work lays the foundation for future experimental and computational studies of vowel perception

**The Waveform Model of Vowel Perception and Production** Michael A. Stokes, 2010-04 This book presents a new model of vowel perception and production derived from visual cues identified in waveform displays In addition to describing waveform displays of vowels beyond previous descriptions included in the book are descriptions of experimental evidence supporting near 100% vowel identification accuracy across 20 male talkers using the concepts in the model The book content will be of interest to several academic fields including Cognitive Science Psychology Linguistics Speech and Hearing Language Acquisition Neurolinguistics Phonetics and areas within Physics and Mathematics Beyond these academic fields the new model of vowel perception presented here could possibly be used to improve accuracy and speed within existing speech recognition systems or it could be used to generate a new speech recognition program Many speech recognition programs are based on simple statistical programs like Hidden Markov Models that ignore any theoretical basis to speech recognition The Waveform Model differs from the HMM approaches since it has a theoretical basis rooted in articulation and that has potentially more promise than these simple HMM models that just take overall similarities in waveforms and try to match them to phonemes and words Furthermore many of the speech recognition programs use extensive training by a single user in quiet conditions in order to attain over 90% accuracy which is still a relatively poor performance The Waveform Model requires no training can be used across talkers and has accuracy above reported speech recognition performance specific to vowels In summary the Waveform Model is innovative and new to the literature and research communities

**Vowel Perception and Production Abilities in Down's Syndrome** Judith Lynn Jackson, 1980

**Native and Nonnative Differences in the Perception and Production of Vowels** Dennie Hoopingarner, 2004

**ON THE DEVELOPMENT OF SPEECH PERCEPTION AND PRODUCTION: EVIDENCE FROM THE VOWEL DURATION CUE TO FINAL CONSONANT VOICING.** MARK EDWARD LEHMAN, 1988 discrimination in relation to the categorical and dual coding models of speech perception

**The Link Between the Perception and Production of the English Vowel /i** Elaina M. Frieda, 1998

**The Initiation of Sound Change** Maria-Josep Solé, Daniel Recasens i Vives, 2012 Examines advanced approaches to sound change from various theoretical and methodological perspectives including articulatory variation and modeling speech perception mechanisms and neurobiological processes geographical and social variation and diachronic phonology

**Sound perception and production in a foreign language** Nimz, Katharina, 2016-04-13 The

present study addresses the question of how German vowels are perceived and produced by Polish learners of German as a Foreign Language It comprises three main experiments a discrimination experiment a production experiment and an identification experiment With the exception of the discrimination task the experiments further investigated the influence of orthographic marking on the perception and production of German vowel length It was assumed that explicit markings such as the Dehnungs h lengthening h could help Polish GFL learners in perceiving and producing German words more correctly The discrimination experiment with manipulated nonce words showed that Polish GFL learners detect pure length differences in German vowels less accurately than German native speakers while this was not the case for pure quality differences The results of the identification experiment contrast with the results of the discrimination task in that Polish GFL learners were better at judging incorrect vowel length than incorrect vowel quality in manipulated real words However orthographic marking did not turn out to be the driving factor and it is suggested that metalinguistic awareness can explain the asymmetry between the two perception experiments The production experiment supported the results of the identification task in that lengthening h did not help Polish learners in producing German vowel length more correctly Yet as far as vowel quality productions are concerned it is argued that orthography does influence L2 sound productions because Polish learners seem to be negatively influenced by their native grapheme to phoneme correspondences It is concluded that it is important to differentiate between the influence of the L1 and L2 orthographic system On the one hand the investigation of the influence of orthographic vowel length markers in German suggests that Polish GFL learners do not make use of length information provided by the L2 orthographic system On the other hand the vowel quality data suggest that the L1 orthographic system plays a crucial role in the acquisition of a foreign language It is therefore proposed that orthography influences the acquisition of foreign sounds but not in the way it was originally assumed

**Speech Perception, Production and Linguistic Structure** Yoh'ichi Tohkura, Eric Vatikiotis-Bateson, Yoshinori Sagisaka, 1992

**Vowel Perception and Its Relationship to Production, Verbal Memory and Phonological Processing in Dyslexic Subjects** Carol B. Bertucci, 1995

Perception and Production of English Vowels by Brazilian Efl Speakers Andréia Schurt Rauber, Universidade Federal de Santa Catarina. Programa de Pós-Graduação em Letras/Inglês e Literatura

Correspondente, 2006 This study investigated the relationship between the perception and production of English vowels by 18 highly proficient Brazilian EFL speakers most of them M A and doctoral students of the Graduate Program in English of the Universidade Federal de Santa Catarina Two experiments were carried out A production test to measure the first two formants of the learners English and Brazilian Portuguese BP vowels and an identification test with synthetic stimuli to investigate the L2 second language perception of English vowels The production and perception results reveal that the Euclidean distance between the three English target pairs i I E ae U u was significantly larger for the American English monolinguals than for the L2 learners thus indicating that the Brazilians have difficulty in both producing and perceiving

these vowels in a native like fashion. Importantly, some relationship between vowel perception and production was found because the target pairs which were better perceived were also the ones produced more accurately by the L2 learners. These results provide further evidence for the fact that L2 perception outperforms L2 production. The Relationship Between Speech Production and Speech Perception, 1994

**Perception and Production of Vowel Reduction in Second Language Acquisition**, 2009 *L2 Vowel Perception and Production Accuracy* Hanne Pernille Andersen, 2007 Formal Approaches to Multilingual Phonology Jennifer Cabrelli, Baris Kabak, John Archibald, 2026-03-17

Over the past 30 years formal approaches to second and additional language acquisition (SLA) have made great advances in understanding the nature of the multilingual mind. However, it is undeniable that most of the research into the speech of learners and multilinguals has focused on more phonetic rather than phonological approaches. These phonetic approaches, among other contributions, enrich our understanding of surface variation in the production and perception of various sound phenomena. Complementing these phonetic approaches, phonological approaches seek to describe mental representations that connect sound and meaning and may tell us about both universal and language specific patterns in non-native development and use. Studies undertaking these objectives, however, are comparatively scarce in the literature, particularly those whose empirical examination of SLA seek to further develop complex linguistic models of the mental representation of phonology and to inform phonological theory. In this Research Topic, we seek to inform principled psycholinguistic phenomena within a formal framework of phonological theory to describe and account for learner knowledge and behavior. Specifically, we aim to further our understanding of fundamental notions such as phonological features, syllabic and metrical structure, markedness and complexity and phonological processes, e.g. assimilation, syllable repair, vowel harmony, as well as dynamic e.g. allophonic variation and static e.g. phonotactic patterns, sound distributions in the lexicon. These articles will provide empirical data to evaluate phonological theory and at the same time shed light on cognitive aspects of non-native speech perception and production. This Research Topic invites original empirical studies that represent the latest insights into formal approaches to multilingual phonology, corroborate current theoretical accounts of phonological representation and/or test different approaches against one another in light of multilingual data. The umbrella of multilingual phonology in this topic covers second language acquisition, use of third language acquisition, use of early bi- and multilingualism, including heritage speaker bilingualism and attrition. Unrestricted to a specific theoretical approach to phonology, we welcome papers that address one or more of the fundamental notions above via the empirical investigation of subsegmental phenomena, e.g. representational aspects of phonological features, segmental phenomena and phonological processes, e.g. phonemic contrasts, allophonic alternations, assimilation, lenition, etc. vowel and nasal harmony systems, suprasegmental phenomena, e.g. prosodic constituency, suprasegmental units and metrical structure, word and higher level prosodic prominence, tonal patterns in tonal and intonational languages, alike, etc. interface phenomena, phonetics, phonology, morphophonology, phonology, syntax, mapping, etc.

**The Routledge Handbook of Second Language**

**Acquisition and Speaking** Tracey M. Derwing, Murray J. Munro, Ron I. Thomson, 2022-03-10 This Handbook is a comprehensive volume outlining the foremost issues regarding research and teaching of second language speaking examining such diverse topics as cognitive processing articulation knowledge of pragmatics instruction in sub components of speaking e g grammar pronunciation and vocabulary and the attrition of the first language Outstanding academics have contributed chapters to provide an integrated and inclusive perspective on oral language skills Specialized contexts for speaking are also explored e g English as a Lingua Franca workplace and interpreting The Routledge Handbook of Second Language Acquisition and Speaking will be an indispensable resource for students and scholars in applied linguistics cognitive psychology linguistics and education

**Language Regard** Betsy E. Evans, Erica J. Benson, James N. Stanford, 2018-01-18 Bringing together a team of renowned international scholars this volume provides a wide ranging collection of historical and state of the art perspectives on language regard particularly in the context of language variation and language change and importantly highlights the range of new methodologies being used by linguists to explore and evaluate it The importance of language regard to the inquiry of language variation and change in the field of sociolinguistics is increasingly being recognized yet misunderstandings about its nature and importance continue to exist This volume provides scholars and students of sociolinguistics with the tools and theory to pursue such inquiry Contributions and research come from Europe North America and Asia and language varieties such as Spanish Dutch Danish and American Sign Language are discussed

**The Effect of Auditory and Articulatory Phonetic Training on the Perception and Production of L2 Vowels by Catalan-Spanish Learners of English** Cristina Aliaga-Garcia, 2018 Adult second language learners often experience major difficulties in perceiving and producing non native speech sounds Several perception training studies Iverson Nishi Carlet Kartushina et al 2016 However research on the assessment of methods other than perceptual training for non native vowels is still scarce and none of the previous vowel studies has compared the impact of auditory vs production based training on a full set of vowels The purpose of this study was to evaluate two training methods that might be used to improve learners identification and articulation of the 11 English RP monophthongal vowels i e P N9 u A total of 84 bilingual Catalan Spanish learners of English were divided into two experimental groups and a control group and all were tested on vowel identification identification of synthesized vowels with manipulated duration vowel discrimination and vowel production based on a delayed repetition task Two groups of bilingual Catalan Spanish learners of English N 64 were assigned to different types of audiovisual High Variability Phonetic Training HVPT based on natural CVC words from multiple talkers either identification ID or articulatory ART training Both training procedures comprised 10 one hour computer based sessions over 5 weeks which guaranteed exposure to a minimum of 132 trials session Whereas the ID training required learners to focus on the critical audiovisual cues to recognize the vowel category within a vowel subset ART training learners were expected to focus on the relevant audiovisual cues for more accurate vowel articulation Auditory

feedback provided assistance to correct identification or to change erroneous articulations This paper compares some remarkable effects of perceptual and production based audiovisual HVPT on the perception and production of the fullset of English vowels The two HVPT groups showed higher accuracy in vowel perception as well generalization to new words talkers and contexts HVPT not only improved vowel identification and discrimination but also reduced the learners heavy reliance on vowel duration and improved their use of spectral cues in English vowel perception However a clear advantage of the ID group was seen in a better identification of trained words and a lesser degree of error dispersion per vowel Both HVPT methods were effective in leading to significant formant movement for some vowels with less spectral overlap but differences in the amount of spectral shift after each training method suggest that ART training was more effective in vowel production Training was effective in making the production of contrastive vowels more distinct and revealed a conscious attempt of learners to produce acoustically distinct vowel quality targets with a great deal less spectral overlapping Pedagogical implications will be discussed TDX

### **Multimodality, Digitalization and Cognitivity in Communication and Pedagogy**

Natalya V. Sukhova, Tatiana Dubrovskaya, Yulia A. Lobina, 2021-10-21 This book positions itself at the intersection of the key areas of the modern humanities Different authors from a variety of countries take innovative approaches to investigating multimodal communication adapting pedagogical design to digital environments and enhancing cognitive skills through transformations in teaching and learning practices The eclectic forms under study require eclectic approaches and methodologies and the authors cross disciplinary boundaries drawing on philosophy linguistics semiotics computational linguistics mathematics cognitive studies and neuroaesthetics Part I presents methods of analysing multimodal communication in its different displays covering promotional video in crowdfunding project presentations multimodal public signs of prohibition and visuals as arguments Part II explores varied teaching methodologies that have emerged as a result of and in response to modern technological changes and contains some practical hints for educators It demonstrates the pedagogical potential of video games virtual worlds linguistic corpora and online dictionaries Part III focuses on psychological and cognitive factors influencing success in the classroom primarily ways of developing students and teachers personalities The volume sits at the intersection between Communication Studies Digital Humanities Discourse Analysis Education Theory and Cognitive Studies and is useful to scholars and students of communication languages education and other areas of the humanities This book should trigger scholarly discussions as well as stimulating practitioners interest in these fields

*A Guide to Quantitative Research Methods in Second Language Pronunciation* Charlie Nagle, 2024-07-31 This book offers a comprehensive resource on the state of the art in L2 pronunciation surveying the most up to date theoretical and methodological developments to highlight the multidimensional nature of pronunciation scholarship and directions for future research The volume examines both speech perception and production including the perception production link The book explores production from a range of perspectives including acoustic analysis of specific features and listener based

ratings of global dimensions of pronunciation Each chapter spotlights a different dimension of pronunciation through a consistent structure including a summary of the latest research a critical appraisal of methods and an overview of data analysis procedures with recommendations for practical implementation The innovative interconnected structure allows readers to build on their knowledge with each successive chapter while also allowing the flexibility to use chapters as standalone units depending on individual interests A concluding chapter outlines a research agenda for future scholarship spotlighting the methods and approaches that are most likely to advance the field This book is an invaluable resource for graduate students and researchers at all stages of their careers looking to expand their knowledge base in SLA and L2 pronunciation and related fields such as phonetics and phonology

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