



# PHONETIC DATA ANALYSIS

An Introduction to  
Fieldwork and  
Instrumental Techniques

PETER LADEFOGED



Blackwell  
Publishing

# Phonetic Data Analysis An Introduction To Fieldwork And Instrumental Techniques

**Rajiv Rao**



## **Phonetic Data Analysis An Introduction To Fieldwork And Instrumental Techniques:**

**Phonetic Data Analysis** Peter Ladefoged, 2003-09-26 *Phonetic Data Analysis* examines the procedures involved in describing the sounds of a language and illustrates the basic techniques of experimental phonetics most of them requiring little more than a tape recorder a video camera and a computer Examines the procedures involved in describing the sounds of a language and illustrates the basic techniques of experimental phonetics Written by Peter Ladefoged one of the world's leading phoneticians Enables readers to work with a speaker in class or go out into the field and make their own discoveries about how the sounds of a language are made Provides full descriptions of techniques that are readily available and do not require the resources of a major phonetics laboratory Includes enlightening comments throughout about Ladefoged's own fieldwork experiences Research Methods in Clinical Linguistics and Phonetics Nicole Müller, Martin J. Ball, 2013-10-24 *Research Methods in Clinical Linguistics and Phonetics* GUIDES TO RESEARCH METHODS IN LANGUAGE AND LINGUISTICS Up to date and covering a refreshingly wide range of approaches this is a first rate guide and resource for both practitioners and consumers of research in clinical linguistics and phonetics Mick Perkins University of Sheffield This truly outstanding collection of readings treating a number of critical issues with great clarity is certain to be quickly recognized as a valuable resource by the community of researchers Martin R Gitterman The City University of New York *Research Methods in Clinical Linguistics and Phonetics* introduces a wide range of research philosophies methods and tools used across linguistics phonetics and speech science as applied to disordered speech and language Comprised of sixteen chapters each authored by specialists representing a variety of approaches the volume addresses core topics for students undertaking their own research including experimental and quasi experimental methods qualitative methods including ethnography and conversation analysis sociolinguistics corpus construction and analysis data recording transcription and digital analysis of speech In addition to exploring these and other topics the volume considers the research ethics associated with working with those who have speech or other communication difficulties There is a detailed discussion of the dissemination of research results in the form of theses dissertations and journal articles and of the peer review process Chapters include summary boxes to highlight salient information and resources for researchers such as relevant web archives and tools It offers students and researchers from a variety of entry points such as linguistics education psychology and speech pathology an introduction to the scope of research in clinical linguistics and phonetics and a practical guide to this interdisciplinary field

*The Bloomsbury Companion to Phonetics* Mark J. Jones, Rachael-Anne Knight, 2013-04-25 *The Bloomsbury Companion To Phonetics* is designed to be the essential one volume resource for advanced students and academics It offers a comprehensive reference resource giving an overview of key topics and key terms in phonetics It offers a survey of current research areas and new directions in the field as well as featuring a manageable guide to beginning or developing research The book gives readers practical guidance for advanced study in the area The volume covers all the most important issues

concepts movements and approaches in the field looking at both the core and applied domains of phonetics and speech science It offers insights into areas as diverse as the acquisition production and perception of speech and clinical and forensic phonetics There is a state of the art exploration of voice and phonation tone and intonation phonetic pedagogy speech technology and phonetic universals

**Linguistic Fieldwork** Claire Bowerman, 2007-11-28 This is a practical guide to all aspects of linguistic fieldwork It not only discusses techniques for working on the phonetics phonology morphology syntax and discourse of an undescribed language but also considers field technology grant application preparation ethical research methods and problems which might arise when in the field

*Linguistic Fieldwork* C. Bowerman, 2015-02-10 Linguistic Fieldwork offers practical guidance on areas such as applying for funding the first session on a new language writing up the data and returning materials to communities This expanded second edition provides new content on the results of research on prosody elicitation on field experiment design and on working in complex syntax

Applied English Phonology Mehmet Yavas, 2020-03-10 The new edition of the leading textbook for English applied phonetics and phonology A leading textbook for English Phonetics and Phonology the fourth edition of Applied English Phonology is an accessible authoritative introduction to the English sound system Providing clear explanations and numerous illustrative examples this new edition has been fully updated with the latest research and references Detailed discussions of fundamental concepts of applied English phonology cover phonetic elements phonemics English consonants and vowels stress and intonation structural factors in second language phonology and much more Designed for students and professionals in both theoretical and applied linguistics education and communication sciences and disorders this textbook contains new material throughout including a new chapter introducing typical phonological development patterns of simplification and disordered phonology Expanded sections explore topics such as contracted forms issues in consonant and vowel transcription conventions and regional dialects of American English The essential introduction to phonetics and phonology this textbook Presents new and revised exercises references and recommended readings Covers developmental disorders relevant to the field of speech pathology Includes end of chapter passages that help students check their phonetic transcriptions Features an enhanced companion website which contains instructor resources and sound files for transcription exercises Written by an internationally recognized scholar and educator Applied English Phonology Fourth Edition is essential reading for anyone in applied phonetics and phonology courses as well as students and practitioners in areas of language and linguistics TESOL and communication sciences and disorders

*On the Physiology of Voice Production in South-Siberian Throat Singing* Sven Grawunder, 2009-03-03 This book presents the first field work based phonetic study focussing such extraordinary phonatory outcomes as occur in the context of South Siberian throat singing In throat singing specific voice production types serve as source which are subject to various ways of formant shaping merging adjustment and reinforcement all of which function to enhance individual harmonics Two main types are proposed for voice production in South Siberian throat singing a voice

production by means of the vocal folds featuring a constriction of the aryepiglottic sphincter and a voice production with involvement of the ventricular folds Furthermore a simple schematic model for the articulation types in throat singing is suggested One of the basic questions throughout this study is whether the phenomenon of throat singing shows fairly clear regional variants in different parts of southern Central Siberia or whether the variation is chiefly a matter of individual styles

*Key Issues in the Teaching of Spanish Pronunciation* Rajiv Rao, 2019-04-24 *Key Issues in the Teaching of Spanish Pronunciation From Description to Pedagogy* is a resource that encourages Spanish teachers and curriculum designers to increase their incorporation of pronunciation into the classroom Combining theory and practical guidance it will help language practitioners integrate the teaching of Spanish pronunciation with confidence and effectiveness The international group of scholars across its 15 chapters is made up of individuals with well established research records and training in best pedagogical practices Key features A range of topics including vowels various classes of consonants prosody the use of technology the role of orthography the importance of both perception and production individual learner differences and teacher training Overviews of descriptive empirical and acquisition based research associated with each aspect of the Spanish sound system Guidance on the difficulties that teachers face when incorporating the teaching of pronunciation into the classroom Clear explanations of concepts accompanied by an abundance of concrete examples and references Multiple sample activities and lesson plans tailored to different levels and backgrounds of students A bilingual glossary of terms to help the content reach the widest audience possible Written in a clear and accessible manner *Key Issues in the Teaching of Spanish Pronunciation* is an essential resource for teachers of Spanish at all levels It is also an excellent reference book for researchers and both undergraduate and graduate university students interested in Spanish phonetics and language acquisition

*The Oxford Handbook of Language Prosody* Carlos Gussenhoven, Aiju Chen, 2021-01-07 This handbook presents detailed accounts of current research in all aspects of language prosody written by leading experts from different disciplines The volume's comprehensive coverage and multidisciplinary approach will make it an invaluable resource for all researchers students and practitioners interested in prosody

**Encyclopedia of Language and Linguistics**, 2005-11-24 The first edition of ELL 1993 Ron Asher Editor was hailed as the field's standard reference work for a generation Now the all new second edition matches ELL's comprehensiveness and high quality expanded for a new generation while being the first encyclopedia to really exploit the multimedia potential of linguistics The most authoritative up to date comprehensive and international reference source in its field An entirely new work with new editors new authors new topics and newly commissioned articles with a handful of classic articles The first Encyclopedia to exploit the multimedia potential of linguistics through the online edition Ground breaking and International in scope and approach Alphabetically arranged with extensive cross referencing Available in print and online priced separately The online version will include updates as subjects develop ELL2 includes c 7 500 000 words c 11 000 pages c 3 000 articles c 1 500 figures 130 halftones and 150 colour

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**A Grammatical Sketch of Hainan Cham** Graham Thurgood, Ela Thurgood, Li Fengxiang, 2015-03-03 This volume is a grammatical sketch of Hainan Cham an endangered tonal Austronesian language The study focuses on three areas social background and contact history the grammar including all the recorded vocabulary and a description of the sound system including acoustic description The appendixes also include the wordlist of Sanya Chinese forms and four analyzed texts

*Practical Corpus Linguistics* Martin Weisser, 2016-02-16 This is the first book of its kind to provide a practical and student friendly guide to corpus linguistics that explains the nature of electronic data and how it can be collected and analyzed Designed to equip readers with the technical skills necessary to analyze and interpret language data both written and orthographically transcribed Introduces a number of easy to use yet powerful free analysis resources consisting of standalone programs and web interfaces for use with Windows Mac OS X and Linux Each section includes practical exercises a list of sources and further reading and illustrated step by step introductions to analysis tools Requires only a basic knowledge of computer concepts in order to develop the specific linguistic analysis skills required for understanding analyzing corpus data

*Production, perception, and comprehension of subphonemic detail: Word-Final /s/ in English* Dominic Schmitz, 2022-11-22 The complexities of speech production perception and comprehension are enormous Theoretical approaches of these complexities most recently face the challenge of accounting for findings on subphonemic differences The aim of the present dissertation is to establish a robust foundation of findings on such subphonemic differences One rather popular case for differences in subphonemic detail is word final s and z in English henceforth S as it constitutes a number of morphological functions Using word final S three general issues are investigated First are there subphonemic durational differences between different types of word final S If there are such differences how can they be accounted for Second can such subphonemic durational differences be perceived Third do such subphonemic durational differences influence the comprehension of S These questions are investigated by five highly controlled studies a production task an implementation of Linear Discriminative Learning a same different task and two number decision tasks

Using not only real words but also pseudowords as target items potentially confounding effects of lexical storage are controlled for Concerning the first issue the results show that there are indeed durational differences between different types of word final S Non morphemic S is longest in duration clitic S is shortest in duration and plural S duration is in between non morphemic S and clitic S durations It appears that the durational differences are connected to a word s semantic activation diversity and its phonological certainty Regarding the second issue subphonemic durational differences in word final S can be perceived with higher levels of perceptibility for differences of 35 ms and higher In regard to the third issue subphonemic durational differences are found not to influence the speed of comprehension but show a significant effect on the process of comprehension The overall results give raise to a revision of various extant models of speech production perception and comprehension

**Rethinking Reduction** Francesco Cangemi, Meghan Clayards, Oliver Niebuhr, Barbara Schuppler, Margaret Zellers, 2018-06-25 Phonetically reduced forms are plentiful theoretically interesting and a key challenge for automatic speech recognition systems Yet canonical forms are still central to models of production and perception Drawing from different fields and diverse languages this volume brings new insights to the debate on abstractions and canonical forms in linguistics their psychological reality descriptive adequacy and technical implementability

*Spoken Language Pragmatics* Regina Weinert, 2007-07-26 This volume provides a detailed analysis of the relationships between form and function in spontaneous spoken language The contributors analyse English German and Spanish data to present a multilingual perspective on the complexities facing speakers in a variety of contexts Through an examination of the language of everyday conversation interviews consultations task based dialogues football commentaries radio play productions and intercultural conversations the book demonstrates the effect of informational discourse external and personal factors on form and shows how speakers position themselves in relation to their discourse orchestrate different tasks move between different voices and negotiate meaning The result is a comprehensive analysis of the multiple layers of spontaneous spoken language *Spoken Language Pragmatics* presents research that will be of interest to academics working in linguistics applied linguistics discourse analysis and pragmatics

*Sociolinguistic Approaches to Sibilant Variation in Spanish* Eva Núñez-Méndez, 2021-04-27 Social processes and the nature of language variation have driven sibilant variation across the Spanish speaking world This book explores the current state of Spanish sibilants and their dialectal variations Focusing on different processes undergone by sibilants in Spanish e g voicing devoicing weakening aspiration elision in various geographical areas and language contact situations each chapter offers an analysis on a unique sociolinguistic case from different formal experimental and data based approaches The opening chapter orients the reader with an overview of sibilant system s evolution which serves as an anchor to the other chapters and facilitates understanding for readers new to the topic The volume is organized around three thematic sections part one Spain part two United States and part three Central and South America The collection includes research on dialects in both Peninsular and Trans Atlantic Spanish such as Jerezano

Caribbean Spanish in Boston and New York City Cuban Spanish in Miami Colombia Barranquilla Spanish northern Buenos Aires Argentine Spanish and USA heritage Spanish among other case studies This volume offers an original and concise approach to one of the most studied variables in Spanish phonetics taking into account geographically based phonetic variation sociolinguistic factors and various Spanish language contact situations Written in English this detailed synthesis of the wide ranging geolinguistic features of Spanish sibilants provides a valuable resource for scholars in Hispanic studies linguistics Spanish dialectology and sociolinguistics

**The Acehnese Language and Society: Language and Linguistics** Maya Safhida, dkk,2022-10-27 Indonesia is a pluralistic nation consisting of various ethnic groups throughout the country Each tribe has its own language to communicate both among ethnic and inter ethnic groups Language has an important role as a means of communication for humans to convey their intentions and ideas and express themselves in interactions in society The Acehnese language is one of the regional languages in Aceh Province one of the provinces out of 37 provinces in Indonesia This language is one of the languages with the largest number of speakers in the province It dominates in the acquisition of the language of the people in Aceh However until now few people know about the fundamentals of the Acehnese language Structurally the Acehnese language has many unique features One of its uniqueness is the phonological aspect or the sound of the language The Acehnese language has a higher number of phonemes when compared to other regional languages in Aceh even Indonesian Another of its uniqueness for example is in the aspect of vocabulary and how some word differences are seen in the varieties of Acehnese spoken throughout the province country and even those speakers who reside in other countries There are also many social factors in Acehnese society that affect the meaning of a particular word or phrase in this language Therefore we had invited researchers and practitioners to contribute to writing the book The Acehnese Language and Society as part of the Universitas Syiah Kuala Press Book Series Language and Linguistics

*Understanding Linguistic Fieldwork* Felicity Meakins,Jennifer Green,Myfany Turpin,2018-03-19 Understanding Linguistic Fieldwork offers a diverse and practical introduction to research methods used in field linguistics Designed to teach students how to collect quality linguistic data in an ethical and responsible manner the key features include A focus on fieldwork in countries and continents that have undergone colonial expansion including Australia the United States of America Canada South America and Africa A description of specialist methods used to conduct research on phonological grammatical and lexical description but also including methods for research on gesture and sign language acquisition language contact and the verbal arts Examples of resources that have resulted from collaborations with language communities and which both advance linguistic understanding and support language revitalisation work Annotated guidance on sources for further reading This book is essential reading for students studying modules relating to linguistic fieldwork or those looking to embark upon field research

*Discovering Sociolinguistics* Dick Smakman,2017-10-31 This engagingly written textbook provides a unique hands on introduction to sociolinguistics which equips readers with the tools to start their



own sociolinguistic research project The book begins by outlining the historical theoretical and cultural space in which language use occurs before delving into the key topics and concepts of today s field It examines the choices speakers make in everyday life and assesses language and status across the world by investigating variation in cultural norms Sociolinguistic variables such as age and gender are surveyed along with the socio cultural context of second language acquisition The second half of the book equips readers with the skills needed to undertake sociolinguistic research of their own This is an ideal introductory text for students taking courses in sociolinguistics language and society language in use or language variation      *Science, technology and art in the spoken expression of meaning* Plinio Almeida Barbosa,Sandra Madureira,Åsa Abelin,2023-08-31

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