Nature’s distributional-learning experiment: Infants’ input, infants’ perception, and computational modeling

Benders, A.T.

Publication date
2013

Citation for published version (APA):

General rights
It is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), other than for strictly personal, individual use, unless the work is under an open content license (like Creative Commons).

Disclaimer/Complaints regulations
If you believe that digital publication of certain material infringes any of your rights or (privacy) interests, please let the Library know, stating your reasons. In case of a legitimate complaint, the Library will make the material inaccessible and/or remove it from the website. Please Ask the Library: https://uba.uva.nl/en/contact, or a letter to: Library of the University of Amsterdam, Secretariat, Singel 425, 1012 WP Amsterdam, The Netherlands. You will be contacted as soon as possible.

UvA-DARE is a service provided by the library of the University of Amsterdam (https://dare.uva.nl)

Download date: 10 Sep 2023
LIST OF TABLES

Table 1  The five pairs of lax vowels and tense vowels in Dutch.  
Table 2  The words for the stimuli used to elicit the four target vowels /i/, /u/, /a:/, and /a/, and /s/. 
Table 3  A summary of the content of the corpus. 
Table 4  The results from four ANOVAs making the comparison between IDS and ADS and between IDS-11 and IDS-15 with respect to the F1 and F2 of the vowels /i/, /u/, /a:/, and /a/.  
Table 5  The average F0-median and F0-excursions in IDS to infants at 11 months, IDS to infants at 15 months, and ADS.  
Table 6  The descriptive statistics of the vowels /a/ and /a:/ in Dutch IDS and the descriptives of the pooled distribution of all /a/ and /a:/ tokens in the corpus. 
Table 7  The local maxima in the smoothed two-dimensional distribution with a density over 0.25. 
Table 8  The stimulus sequences as used in the discrimination experiment. 
Table 9  The results of the ANOVA. 
Table 10 Acoustic measurements of the 12 tokens used in the categorization experiment. 
Table 11 A summary of each of the four blocks in the categorization experiment. 
Table 12 Analysis of reaction times. 
Table 13 Analysis of pupil dilations. 
Table 14 Analysis on 15-month-olds’ reaction times and CDI-score. 
Table 15 Analysis on 15-month-olds’ pupil dilations and CDI score.  
Table 16 The descriptive statistics of the vowels /a/ and /a:/ in the corpus of Dutch IDS.  
Table 17 The MoG models’ frequency estimates of the categories /a/ and /a:/ for F2 and duration that describe the average locations of the categories in the Mixture of Gaussians (MoG) in the auditory space.  
Table 18 The 2-cue-no-ρ MoG models’ perception quantified per quadrant. 
Table 19
| Table 20 | The estimates of the frequency of the categories /a/ and /æ:/ by the neural network model. 126 |
| Table 21 | The parameters of the 2-cue neural network models for the categories /a/ and /æ:/ that describe the location of the categories in the auditory space defined by F2 and duration. 127 |
| Table 22 | The 2-cue neural network models’ perception quantified per quadrant. 129 |