Chapter 06: Analysis of Form: Metrical and Lexical effects on the Phonology and Phonetics of DCE Intonation

# **1. Summary of Pitch Accent distributions**

The raw data is unbalanced since there is not an equal number of tokens per speaker per condition. In some cases there are no tokens from one speaker, effectively reducing the number of participants for that condition by one. To make the presentation of these data both honest and representative, summaries are provided based on both the raw unbalanced, and adjusted balanced data are presented.

## **1.1 Raw Data**

These table summarize the number of PA tokens per condition regardless of any imbalance in the number of utterances per speaker per condition or the number of speakers per condition.

## 1.1.1 Pre-nuclear Pitch Accents

Foot size data presented first followed by anacrusis data, since the anacrusis targets reflect the number of syllables of anacrusis under maximum foot-size conditions.

#### PN Foot-size conditions

| foot\_syls | (\*) | L\* | H\* | >H\* | L\*H |
| --- | --- | --- | --- | --- | --- |
| 1 | 9 | 5 | 19 | 2 | 20 |
| 2 | 1 | 2 | 22 | 4 | 26 |
| 3 | 1 | 0 | 13 | 6 | 35 |
| 4 | 0 | 0 | 0 | 3 | 35 |

#### PN Anacrusis conditions

| ana\_syls | H\* | >H\* | L\*H |
| --- | --- | --- | --- |
| 0 | 0 | 3 | 35 |
| 1 | 9 | 5 | 42 |
| 2 | 0 | 4 | 52 |
| 3 | 0 | 4 | 51 |

## 1.1.2 Nuclear Pitch Accents

#### NUC Foot size

| foot\_syls | L\*H % | L\*H L% |
| --- | --- | --- |
| 1 | 50 | 1 |
| 2 | 55 | 0 |
| 3 | 30 | 5 |
| 4 | 54 | 1 |

#### NUC Preceding syllable count

| pre\_syls | L\*H % | L\*H L% |
| --- | --- | --- |
| 1 | 50 | 4 |
| 2 | 55 | 0 |
| 3 | 55 | 0 |
| 4 | 37 | 1 |

## **1.2 Adjusted Data**

These Tables summarize the number of PA tokens per condition once adjusted to take into account in the number of utterances per speaker per condition and the number of speakers per condition.

This is the distribution of PAs across conditions adjusted for number of speakers per target and number of repetitions per speaker. It is a better representation of the distribution of the PAs per foot-size condition, although it is not the set of actual values.

## 1.2.1 Pre-nuclear Pitch Accents

#### PN Foot Size

| foot\_syls | (\*) | L\* | H\* | >H\* | L\*H |
| --- | --- | --- | --- | --- | --- |
| 1 | 9 | 5 | 19 | 2 | 20 |
| 2 | 1 | 2 | 22 | 4 | 26 |
| 3 | 1 | 0 | 13 | 6 | 35 |
| 4 | 0 | 0 | 0 | 5 | 50 |

#### PN Anacrusis

| ana\_syls | H\* | >H\* | L\*H |
| --- | --- | --- | --- |
| 0 | 0 | 5 | 50 |
| 1 | 9 | 5 | 41 |
| 2 | 0 | 4 | 51 |
| 3 | 0 | 4 | 51 |

## 1.2.1 Nuclear Pitch Accents

#### NUC Foot size

| foot\_syls | L\*H % | L\*H L% |
| --- | --- | --- |
| 1 | 50 | 5 |
| 2 | 55 | 0 |
| 3 | 49 | 6 |
| 4 | 54 | 1 |

#### NUC Preceding syllable count

| pre\_syls | L\*H % | L\*H L% |
| --- | --- | --- |
| 1 | 51 | 4 |
| 2 | 55 | 0 |
| 3 | 55 | 0 |
| 4 | 53 | 2 |