

Contents

Acknowledgements	9
List of tables	11
List of figures	13
Chapter One	
Introduction	15
1.1. Theories of speech perception in non-native language acquisition	16
1.1.1. L1 phonological filter	16
1.1.2. Markedness	17
1.1.3. Perceptual Assimilation Model	17
1.1.4. Speech Learning Model	20
1.1.5. Feature hypothesis and its extension	22
1.1.6. Native Language Magnet	24
1.1.7. Second Language Linguistic Perception Model	25
1.2. Features	26
1.3. Features and categories in non-native language acquisition	27
1.4. Vocalic systems	29
Chapter Two	
Selective attention to features	31
2.1. What in L2 speech perception cannot be explained by filtering through an L1 phonetic category inventory	31
2.2. Selective attention to features in non-native speech perception ...	32
2.3. Selective attention in other domains	34
2.4. Why should we try incorporating selective attention to features when accounting for non-native speech perception?	35
2.5. Research hypothesis	37
2.6. The ideas for testing selective attention to features in second, third and non-native languages	38

Chapter Three

Experiments on the perception of English vowels by Polish advanced learners in a formal setting: A longitudinal study	41
3.1. Non-native speech perception in a formal instruction setting	41
3.2. The role of language experience in non-native speech perception	43
3.3. Study comparing L2 consonant assimilation to L1 categories with L2 consonant identification	46
3.4. Polish vs. English vocalic systems	46
3.5. Previous studies on English vowel perception and production by Polish listeners	48
3.6. Duration cues	54
3.7. Research questions	55
3.8. Method	56
3.8.1. Stimuli	57
3.8.2. Subjects	59
3.8.3. Procedure	60
3.9. Results	62
3.9.1. English vowel assimilation to Polish vowel categories	63
3.9.2. Identification of English vowels	65
3.9.3. Discrimination results	66
3.9.4. Results of dissimilarity ratings	68
3.10. Discussion	71
3.10.1. Discussion of discrimination results	71
3.10.2. Discussion of categorization results	72
3.10.3. Discussion of identification results	78
3.10.4. Discussion of (dis-)similarity rating results	80
3.11. Conclusions	81

Chapter Four

Perception of third and foreign language vowels	85
4.1. Multilingual influence in L3 acquisition	86
4.1.1. Models of L3 acquisition	86
4.1.2. Complex nature of the cross-linguistic influence in L3 speech	88
4.1.3. Natural Growth Model: a reminder about the crucial questions	90
4.2. Cross-language perception of non-native vowels	91

- 4.2.1. Non-native vowel perception by listeners
with various L1s 92
- 4.2.2. Non-native vowel perception and L1 inventory size 94
- 4.2.3. Non-native vowel perception and native dialect 95
- 4.2.4. Non-native perception by bilingualsb 96
- 4.3. Speech perception in L3: questions about broad-based
bilingual advantage vs. a narrow L1/L2 to L3 transfer 97
 - 4.3.1. Previous research on perception in L3 97
 - 4.3.2. Assumptions for the current study 100
 - 4.3.3. Selective attention to features: hypothesis for L3
and foreign speech perception 102
- 4.4. Language characteristics: Vowel inventories of Dutch,
English and French 103
- 4.5. Study two 104
 - 4.5.1. Research questions 105
 - 4.5.2. Method 108
 - 4.5.2.1. Subjects 108
 - 4.5.2.2. Stimuli 111
 - 4.5.2.3. Procedure 112
- 4.6. Results 113
 - 4.6.1. Discrimination results 113
 - 4.6.2. Assimilation and goodness ratings 114
- 4.7. Discussion 118
 - 4.7.1. Discussion of discrimination results 119
 - 4.7.2. Discussion of the assimilation results of Dutch
vowels to Polish vowel categories by Polish learners
of L2 English, L3 French and L3 Dutch 121
 - 4.7.3. Discussion of the influence of the listeners' L2
or L3 on their perception of Dutch vowels 123
 - 4.7.4. Discussion of the role of selective attention
to features in L2 and FL 126

Chapter Five

- Perception of front rounded and back unrounded vowels 129**
- 5.1. Hypotheses 129
- 5.2. Method 132
 - 5.2.1. Stimuli 132
 - 5.2.2. Subjects 133
 - 5.2.3. Procedure 136

5.3. Results	137
5.4. Discussion of assimilation results and the comparison with study two	143

Chapter Six

General discussion	149
6.1. Proofs of isolation of features from L2 categories	149
6.1.1. Duration	149
6.1.2. Vowel height	151
6.1.3. Tongue advancement	153
6.1.4. Lip rounding	154
6.1.5. Hierarchy of features	155
6.2. Conclusions regarding the theories of speech perception	156
6.3. Directions for further research	157
6.4. Implications for teaching pronunciation	160
6.5. Final remarks	162

Appendix	163
-----------------------	-----

References	167
-------------------------	-----

Percepcja samogłosek w języku nienatywnym. Oddziaływanie kategorii i cech (Streszczenie)	183
--	-----