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STATISTICAL RESULTS FOR EXPERIMENT 1 – INITIALITY EFFECTS

(1) **SPANISH** – *iV* sequence duration (ms): mean (st.dev)

Speaker	*1*	*2*	*3*	*4*
Initial-stressed	172 (26.5)	153 (19.9)	140 (13)	161 (28.7)
Initial-unstressed	138 (28.1)	97.4 (16.7)	109 (21.3)	119 (24.9)
Noninitial-stressed	152 (24.1)	129 (19.5)	135 (16.3)	115 (23.6)

ANOVA – Spanish
Main effect of Position&Stress: F (2,513) = 158.622, p < .0001
Post-hoc LSD test: initial stressed > noninitial stressed > initial unstressed
p < .05

Main effect of Speaker: F (3,513) = 42.176, p < .0001
Interaction: F (6,513) = 8.794, p < .0001

Post-hoc LSD test (data split by Speaker):
Sp1, 2 initial stressed > noninitial stressed > initial unstressed
Sp3 initial, noninitial stressed > initial unstressed
Sp4 initial stressed > initial unstressed, noninitial stressed
p < .05

Overall means: initial stressed 157 ms
noninitial stressed 133 ms
initial unstressed 116 ms

(2) **ROMANIAN** – *iV* sequence duration (ms): mean (st.dev)

Speaker	*1*	*2*	*3*	*4*
Wd-initial	217 (36.4)	202 (23.5)	222 (32.3)	202 (26)
Wd-medial	200 (34.3)	185 (23.6)	209 (30.9)	182 (23.3)

ANOVA – Romanian
Main effect of Position: F (1,552) = 44.818, p < .0001
Main effect of Speaker: F (3,552) = 21.717, p < .0001
no interaction
Overall means: initial 211 ms, medial 194 ms

(3) **ROMANIAN** Duration of *iV* hiatus sequences vs. diphthongs (ms): means (st.dev)

Speaker	*1*	*2*	*3*	*4*
Sequence	185 (24.16)	169 (25.91)	223 (33.69)	220 (35.53)
Diphthong	128 (21.77)	151 (28.38)	135 (21.26)	173 (30.67)
	p < .001	p < .01	p < .001	p < .001

(4) **FRENCH** – *iV* sequence duration (ms): mean (st.dev)

Speaker	*Word-initial*	*Word-medial*
1	164 (39)	158 (47.5)
2	159 (41.8)	150 (43.6)
3	127 (33.4)	120 (31.5)
4	131 (40.2)	117 (47.8)
5	160 (52.3)	155 (54)

ANOVA – French
Main effect of Position: F (1,601) = 5.232, p = .023
Main effect of Speaker: F (4,601) = 22.657, p <.0001
no interaction
Overall means: initial 148.2 ms, medial 140 ms

(5) **EUROPEAN PORTUGUESE** – *iV* sequence duration (ms): mean (st.dev)

Speaker	*1*	*2*	*3*	*4*
Wd-initial	288 (28)	194 (40)	256 (42.84)	258 (33.17)
Wd-medial	282 (29.07)	187 (38.67)	246 (44.12)	265 (30.86)

No effect of position: F(494,1) = 1.446, p = .230
Overall means: initial 249 ms, medial 245 ms

(6) **BRAZILIAN PORTUGUESE** – *iV* sequence duration (ms): mean (st.dev)

Speaker	*1*	*2*	*3*	*4*	*5*
Initial	294 (28.28)	278 (32.49)	334 (36.91)	235 (36.53)	220 (32.05)
Medial	286 (38.97)	288 (49.72)	338 (43.46)	220 (39.86)	218 (43.85)

No effect of position: F(259,1) = .140, p = .708
Overall means: initial 272 ms, medial 270 ms

STATISTICAL RESULTS FOR EXPERIMENT 2 – PROXIMITY TO STRESS EFFECTS

(1) **SPANISH** – *iV* sequence duration (ms): mean (st.dev)

Speaker	*1*	*2*	*3*	*4*
stressed	193 (14.25)	152 (15.71)	134 (6.91)	154 (22.29)
pretonic	154 (27.88)	94 (14.95)	108 (21.48)	127 (26.84)
pre-pretonic	118 (18.87)	95 (19.76)	99 (22.59)	107 (18.37)

Overall means: stressed 158 ms
pretonic 121 ms
pre-pretonic 104 ms

ANOVA Spanish

Main effect of stress class: F (2,148) = 63.024, p < .0001
Main effect of speaker: F (3,148) = 29.514, p < .0001
Interaction: F (6,148) = 3.365, p = .004

Post-hoc LSD test for stress class (data split by Speaker):
Sp1,4 stressed > pretonic > pre-pretonic
Sp2,3 stressed > pretonic, pre-pretonic
p < .05

(2) **ROMANIAN** – *iV* sequence duration (ms): mean (st.dev)

Speaker	*1*	*2*	*3*	*4*
stressed	203 (26.54)	178 (16.22)	218 (16.27)	188 (9.69)
pretonic	179 (20.75)	163 (16.82)	191 (22.88)	168 (18.7)
pre-pretonic	160 (21.08)	154 (21.7)	188 (25.41)	154 (13.3)

Overall means: stressed 197 ms
pretonic 178 ms
pre-pretonic 164

ANOVA Romanian

Main effect of stress class: F (2,226) = 37.489, p < .0001
Main effect of speaker: F (3,226) = 26.026, p < .0001
no interaction

(3) **EUROPEAN PORTUGUESE** – *iV* sequence duration (ms): mean (st.dev)

Speaker	*1*	*2*	*3*	*4*
stressed	287 (21.08)	202 (18.7)	290 (19.69)	230 (19.19)
pretonic	154 (22.57)	131 (18.03)	181 (34.3)	158 (26.94)
pre-pretonic	120 (16.29)	121 (27.07)	161 (29.81)	146 (21.53)

Overall means: stressed 252 ms
pretonic 156 ms
pre-pretonic 137 ms

ANOVA European Portuguese

Main effect of stress class: F (2,400) = 553.782, p< .0001
Main effect of speaker: F (3,400) = 62.112, p < .0001
Interaction: F (6,400) = 15.343, p < .0001

Post-hoc LSD test for stress class (data split by Speaker):
EP1 stressed > pretonic > pre-pretonic
EP2,3,4 stressed > pretonic, pre-pretonic p < .05

(4) **BRAZILIAN PORTUGUESE** – *iV* sequence duration (ms): mean (st.dev)

Speaker	*1*	*2*	*3*	*4*	*5*
stressed	296 (33.92)	273 (37.85)	344 (39.84)	237 (39.14)	235(33.53)
pretonic	129 (18.28)	149 (22.91)	202 (28.57)	124 (16.58)	117(12.81)
pre-pretonic	108 (16.02)	162 (43.17)	182 (19.19)	105 (5.62)	101(14.18)

Overall means:	stressed	246 ms
	pretonic	144 ms
	pre-pretonic	132 ms

ANOVA Brazilian Portuguese

Main effect of stress class:	$F(2,198) = 421.436$, $p < .0001$
Main effect of speaker:	$F(4,198) = 75.808$, $p < .0001$
Interaction:	$F(8,198) = 5.592$, $p < .0001$

Post-hoc LSD test for stress class (data split by Speaker):

BP1,3,5	stressed > pretonic > pre-pretonic
BP2,4	stressed > pretonic, pre-pretonic

$p < .05$

(5) **SPANISH** – vowel duration (ms): mean (st.dev)

Speaker	*1*	*3*	*4*
stressed	79 (21.43)	68 (14.97)	74 (8.39)
pretonic	65 (13.35)	56 (13.82)	63 (9.16)
pre-pretonic	59 (12.5)	52 (8.75)	54 (7.88)

Overall means:	stressed	74 ms
	pretonic	62 ms
	pre-pretonic	55 ms

ANOVA Spanish

Main effect of stress class:	$F(2,171) = 32.985$, $p < .0001$
Main effect of speaker:	$F(2,171) = 6.891$, $p < .0001$

no interaction

(6) **ROMANIAN** – vowel duration (ms): mean (st.dev)

Speaker	*1*	*2*	*3*	*4*
stressed	119 (24.3)	90 (14.37)	95 (20.07)	84 (14.2)
pretonic	93 (23.98)	76 (10.7)	89 (14.38)	78 (14.04)
pre-pretonic	83 (26.59)	66 (14.69)	84 (17.38)	78 (16.99)

Overall means:	stressed	97 ms
	pretonic	84 ms
	pre-pretonic	78 ms

ANOVA Romanian

Main effect of stress class:	F (2,285) = 28.257, p < .001
Main effect of speaker:	F (3,285) = 20.845, p < .001
Interaction:	F (10,54) = 2.254, p = .002

Post-hoc LSD test for stress class (data split by Speaker):

R1	stressed > pretonic > pre-pretonic
R2,4	stressed > pretonic, pre-pretonic
R3	no significant difference

(7) **EUROPEAN PORTUGUESE** – vowel duration (ms): mean (st.dev)

Speaker	*2*	*3*	*4*
pretonic	60 (18.73)	72 (29.9)	60 (21.03)
pre-pretonic	58 (15.49)	62 (21.95)	54 (18.55)

Overall means:	pretonic	64 ms
	pre-pretonic	58 ms

ANOVA European Portuguese

Main effect of stress class:	F (1,271) = 5.136, p = .024
Main effect of speaker:	F (2,271) = 5.846, p = .003

no interaction