Appendix I *Experimental sentences*

La mujer llena / llenó la jarra.

El padre bebe / bebió la cerveza.

La madre manda / mandó la carta.

El director firma / firmó la factura.

La niña pinta / pintó la flor.

El niño sube / subió la pared.

El chico saca / sacó la foto.

La chica come / comió la naranja.

El primo lava / lavó los coches.

La prima graba / grabó los cuentos.

La señora canta / cantó la canción.

El señor compra / compró la joya.

El tío guarda / guardó los billetes.

La tía rompe / rompió la nota.

La vecina lanza / lanzó la pelota.

El vecino cambia / cambió la clave.

Appendix II*: Growth curve model fixed effects*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Parameter | Estimate | SE | *t* | *p* |
| **Intercept (γ00)** | **1.167** | **0.306** | **3.810** | **< .001** |
| **Time1 (γ10)** | **5.704** | **1.042** | **5.476** | **< .001** |
| **Time2 (γ20)** | **−1.373** | **0.423** | **−3.246** | **.001** |
| **Time3 (γ30)** | **−1.711** | **0.367** | **−4.658** | **< .001** |
| Syllable structure (γ01) | −0.074 | 0.203 | −0.365 | .715 |
| Time1 × Syllable structure (γ11) | 0.772 | 0.621 | 1.243 | .214 |
| Time2 × Syllable structure (γ21) | 0.571 | 0.310 | 1.842 | .066 |
| **Time3 × Syllable structure (γ31)** | **−0.594** | **0.260** | **−2.283** | **.022** |
| Lexical stress (γ02) | −0.092 | 0.246 | −0.373 | .709 |
| Time1 × Lexical stress (γ12) | 0.125 | 0.616 | 0.203 | .839 |
| **Time2 × Lexical stress (γ22)** | **0.666** | **0.305** | **2.184** | **.029** |
| Time3 × Lexical stress (γ32) | −0.325 | 0.256 | −1.269 | .204 |
| Group NIN (γ03) | −0.131 | 0.277 | −0.472 | .637 |
| Time1 × Group NIN (γ13) | 0.365 | 0.912 | 0.401 | .689 |
| **Time2 × Group NIN (γ23)** | **1.819** | **0.448** | **4.060** | **< .001** |
| Time3 × Group NIN (γ33) | 0.124 | 0.385 | 0.323 | .747 |
| Group IN (γ04) | −0.255 | 0.287 | −0.889 | .374 |
| Time1 × Group IN (γ14) | 0.668 | 0.942 | 0.709 | .478 |
| **Time2 × Group IN (γ24)** | **1.615** | **0.462** | **3.496** | **< .001** |
| Time3 × Group IN (γ34) | 0.022 | 0.396 | 0.056 | .956 |
| Syllable structure × Lexical stress (γ05) | −0.029 | 0.126 | −0.233 | .816 |
| **Time1 × Syllable structure × Lexical stress (γ15)** | **−1.047** | **0.464** | **−2.255** | **.024** |
| Time2 × Syllable structure × Lexical stress (γ25) | 0.146 | 0.282 | 0.517 | .605 |
| Time3 × Syllable structure × Lexical stress (γ35) | −0.405 | 0.224 | −1.811 | .070 |
| Syllable structure × Lexical stress × Group NIN (γ06) | 0.028 | 0.067 | 0.425 | .671 |
| **Time1 × Syllable structure × Lexical stress × Group NIN (γ16)** | **1.004** | **0.271** | **3.708** | **< .001** |
| Time2 × Syllable structure × Lexical stress × Group NIN (γ26) | 0.219 | 0.269 | 0.815 | .415 |
| Time3 × Syllable structure × Lexical stress × Group NIN (γ36) | −0.034 | 0.267 | −0.127 | .899 |
| Syllable structure × Lexical stress × Group IN (γ07) | −0.014 | 0.069 | −0.199 | .842 |
| Time1 × Syllable structure × Lexical stress × Group IN (γ17) | −0.507 | 0.278 | −1.821 | .069 |
| Time2 × Syllable structure × Lexical stress × Group IN (γ27) | 0.166 | 0.277 | 0.600 | .548 |
| **Time3 × Syllable structure × Lexical stress × Group IN (γ37)** | **0.773** | **0.275** | **2.816** | **.005** |

Appendix III *Pairwise comparisons between learner groups*.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Parameter | Estimate | SE | *t* | *p* |
| IN - NIN (γ08) | 0.124 | 0.283 | 0.436 | .663 |
| Time1 × IN - NIN (γ18) | −0.302 | 0.931 | −0.325 | .745 |
| Time2 × IN - NIN (γ28) | 0.204 | 0.457 | 0.447 | .655 |
| Time3 × IN - NIN (γ38) | 0.102 | 0.393 | 0.260 | .795 |
| Syllable structure × Lexical stress × IN - NIN (γ09) | 0.042 | 0.069 | 0.615 | .538 |
| **Time1 × Syllable structure × Lexical stress × IN - NIN (γ19)** | **1.511** | **0.277** | **5.463** | **< .001** |
| Time2 × Syllable structure × Lexical stress × IN - NIN (γ29) | 0.053 | 0.275 | 0.194 | .846 |
| **Time3 × Syllable structure × Lexical stress × IN - NIN (γ39)** | **−0.807** | **0.273** | **−2.954** | **.003** |

Appendix IV *Growth Curve Model Random Effects.*

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Group | Parameter | Variance | SD | Correlations |  |  |  |  |  |
| Participant | Intercept | 0.911 | 0.954 | 1.00 |  |  |  |  |  |
|  | Syllable structure | 0.275 | 0.524 | −.20 | 1.00 |  |  |  |  |
|  | Lexical stress | 0.789 | 0.888 | −.07 | .31 | 1.00 |  |  |  |
|  | Time1 | 9.548 | 3.090 | .42 | −.17 | .02 | 1.00 |  |  |
|  | Time2 | 1.640 | 1.281 | −.14 | .22 | .08 | .31 | 1.00 |  |
|  | Time3 | 0.980 | 0.990 | −.40 | .08 | −.18 | −.83 | −.14 | 1.00 |
| Item | Intercept | 0.264 | 0.514 | 1.00 |  |  |  |  |  |
|  | Time1 | 3.831 | 1.957 | .28 |  |  | 1.00 |  |  |
|  | Time2 | 1.304 | 1.142 | −.74 |  |  | −.37 | 1.00 |  |
|  | Time3 | 0.415 | 0.644 | .19 |  |  | −.86 | −.14 | 1.00 |
| Residual |  | 13.507 | 3.675 |  |  |  |  |  |  |