

Supplementary Material

An ERP study on L2 syntax processing: When do learners fail?

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Data sheet 2: Results of the omnibus ANOVA

The results of the omnibus ANOVAs conducted on the grand mean ERPs are shown below. Results are reported for the 300–500 ms and the 600–1200 ms window, for the non-finite verb (VERB) and gender (GEN) condition. The analyses included the factors C=Correctness, G=Group, M=Modality, A=Anterior-Posterior and H=Hemisphere. The Greenhouse-Geisser correction was applied for violations of the sphericity assumption.

Significance codes: '***' = 0.001, '**' = 0.01, '*' = 0.05, '(*)' = 0.1.

Effect	VERB (300–500 ms)	VERB (600–1200 ms)	GEN (300–500 ms)	GEN (600–1200)
<i>Lateral ANOVA:</i>				
C	F(1,36) = 5.16, p = .029*	F(1,36) = 33.29, p < .001***	F(1,36) = 0.76, p = .388	F(1,36) = 11.91, p = .001**
G × C	F(1,36) = 3.65, p = .064(*)	F(1,36) = 0.00, p = .949	F(1,36) = 0.49, p = .488	F(1,36) = 13.12, p = .001**
C × M	F(1,36) = 0.97, p = .331	F(1,36) = 0.44, p = .510	F(1,36) = 0.06, p = .811	F(1,36) = 0.20, p = .657
C × A	F(3,108) = 6.02, p = .011*	F(3,108) = 17.95, p < .001***	F(3,108) = 0.95, p = .366	F(3,108) = 16.16, p < .001***
C × H	F(1,36) = 2.46, p = .126	F(1,36) = 1.08, p = .306	F(1,36) = 1.44, p = .239	F(1,36) = 6.50, p = .015*
G × C × M	F(1,36) = 1.39, p = .246	F(1,36) = 0.25, p = .618	F(1,36) = 0.16, p = .692	F(1,36) = 0.75, p = .394
G × C × A	F(3,108) = 0.36, p = .617	F(3,108) = 5.95, p = .008**	F(3,108) = 0.45, p = .573	F(3,108) = 20.17, p < .001***
G × C × H	F(1,36) = 0.18, p = .672	F(1,36) = 1.07, p = .308	F(1,36) = 2.04, p = .162	F(1,36) = 2.24, p = .144
C × M × A	F(3,108) = 0.90, p = .383	F(3,108) = 1.46, p = .241	F(3,108) = 3.90, p = .039*	F(3,108) = 7.31, p = .002**
C × M × H	F(1,36) = 1.09, p = .304	F(1,36) = 0.08, p = .783	F(1,36) = 1.01, p = .321	F(1,36) = 0.51, p = .481
C × A × H	F(3,108) = 2.31, p = .093(*)	F(3,108) = 2.66, p = .064(*)	F(3,108) = 1.41, p = .250	F(3,108) = 1.48, p = .231
G × C × M × A	F(3,108) = 0.30, p = .675	F(3,108) = 1.45, p = .243	F(3,108) = 2.10, p = .145	F(3,108) = 1.05, p = .349
G × C × M × H	F(1,36) = 0.01, p = .905	F(1,36) = 0.89, p = .353	F(1,36) = 5.24, p = .028*	F(1,36) = 0.35, p = .558
G × C × A × H	F(3,108) = 2.13, p = .113	F(3,108) = 2.73, p = .059(*)	F(3,108) = 1.55, p = .217	F(3,108) = 0.84, p = .452
C × M × A × H	F(3,108) = 1.12, p = .344	F(3,108) = 1.12, p = .344	F(3,108) = 0.12, p = .875	F(3,108) = 0.31, p = .752
G × C × M × A × H	F(3,108) = 1.61, p = .191	F(3,108) = 1.78, p = .155	F(3,108) = 1.06, p = .349	F(3,108) = 1.35, p = .265
<i>Medial ANOVA:</i>				
C	F(1,36) = 9.22, p = .004**	F(1,36) = 52.19, p < .001***	F(1,36) = 0.08, p = .775	F(1,36) = 17.23, p < .001***
G × C	F(1,36) = 0.81, p = .374	F(1,36) = 0.31, p = .580	F(1,36) = 4.30, p = .045*	F(1,36) = 21.72, p < .001***
C × M	F(1,36) = 0.27, p = .605	F(1,36) = 0.07, p = .793	F(1,36) = 0.26, p = .615	F(1,36) = 1.41, p = .244
C × A	F(1,36) = 3.33, p = .076(*)	F(1,36) = 22.93, p < .001***	F(1,36) = 0.79, p = .381	F(1,36) = 24.74, p < .001***
G × C × M	F(1,36) = 3.56, p = .067(*)	F(1,36) = 1.48, p = .231	F(1,36) = 0.10, p = .751	F(1,36) = 1.27, p = .266
G × C × A	F(1,36) = 0.06, p = .807	F(1,36) = 1.73, p = .197	F(1,36) = 1.32, p = .258	F(1,36) = 11.24, p = .002**
C × M × A	F(1,36) = 0.06, p = .801	F(1,36) = 0.02, p = .879	F(1,36) = 0.62, p = .438	F(1,36) = 1.39, p = .246
G × C × M × A	F(1,36) = 0.13, p = .725	F(1,36) = 0.39, p = .535	F(1,36) = 0.60, p = .443	F(1,36) = 1.94, p = .172