

Supplemental Material S3. Frequency table for the number and proportion of each fine-grained spelling error type across grades in text production.

Text production - Contingency table for the proportion for each fine grained type of error per year group

Cell Contents

Count
Expected values
Chi-square contribution
Row Percent
Column Percent
Total Percent
Std Residual

Total Observations in Table: 2117

SpellErr194\$ErrType	SpellErr194\$class_num					Row Total
	1	2	3	4	5	
MOR-ACCORD	20	49	26	68	70	233
	42.043	79.354	28.396	42.043	41.163	
	11.557	11.611	0.202	16.025	20.202	
	8.584%	21.030%	11.159%	29.185%	30.043%	11.006%
	5.236%	6.796%	10.078%	17.801%	18.717%	
	0.945%	2.315%	1.228%	3.212%	3.307%	
	-3.400	-3.407	-0.450	4.003	4.495	
MOR-COART	70	95	27	30	18	240
	43.307	81.738	29.249	43.307	42.400	
	16.453	2.152	0.173	4.089	14.041	
	29.167%	39.583%	11.250%	12.500%	7.500%	11.337%
	18.325%	13.176%	10.465%	7.853%	4.813%	
	3.307%	4.487%	1.275%	1.417%	0.850%	
	4.056	1.467	-0.416	-2.022	-3.747	
MOR-DER	6	9	5	6	4	30

	5.413 0.064 20.000% 1.571% 0.283% 0.252	10.217 0.145 30.000% 1.248% 0.425% -0.381	3.656 0.494 16.667% 1.938% 0.236% 0.703	5.413 0.064 20.000% 1.571% 0.283% 0.252	5.300 0.319 13.333% 1.070% 0.189% -0.565	1.417%	
MOR-HOM	20 37.893 8.449 9.524% 5.236% 0.945% -2.907	68 71.521 0.173 32.381% 9.431% 3.212% -0.416	33 25.593 2.144 15.714% 12.791% 1.559% 1.464	44 37.893 0.984 20.952% 11.518% 2.078% 0.992	45 37.100 1.682 21.429% 12.032% 2.126% 1.297	210 9.920%	
MOR-VERB	35 75.606 21.808 8.353% 9.162% 1.653% -4.670	109 142.701 7.959 26.014% 15.118% 5.149% -2.821	64 51.064 3.277 15.274% 24.806% 3.023% 1.810	93 75.606 4.002 22.196% 24.346% 4.393% 2.000	118 74.023 26.127 28.162% 31.551% 5.574% 5.111	419 19.792%	
NC	1 0.361 1.132 50.000% 0.262% 0.047% 1.064	1 0.681 0.149 50.000% 0.139% 0.047% 0.386	0 0.244 0.244 0.000% 0.000% 0.000% -0.494	0 0.361 0.361 0.000% 0.000% 0.000% -0.601	0 0.353 0.353 0.000% 0.000% 0.000% -0.594	2 0.094%	
ORTH-EXCPT	3 5.052 0.834 10.714% 0.785% 0.142% -0.913	8 9.536 0.247 28.571% 1.110% 0.378% -0.497	8 3.412 6.168 28.571% 3.101% 0.378% 2.483	6 5.052 0.178 21.429% 1.571% 0.283% 0.422	3 4.947 0.766 10.714% 0.802% 0.142% -0.875	28 1.323%	
ORTH-MUET	49 42.404	101 80.035	23 28.640	25 42.404	37 41.516	235	

	1.026 20.851% 12.827% 2.315% 1.013	5.491 42.979% 14.008% 4.771% 2.343	1.111 9.787% 8.915% 1.086% -1.054	7.143 10.638% 6.545% 1.181% -2.673	0.491 15.745% 9.893% 1.748% -0.701	11.101%	
ORTH-OA	14 14.075 0.000 17.949% 3.665% 0.661% -0.020	28 26.565 0.078 35.897% 3.883% 1.323% 0.278	10 9.506 0.026 12.821% 3.876% 0.472% 0.160	15 14.075 0.061 19.231% 3.927% 0.709% 0.247	11 13.780 0.561 14.103% 2.941% 0.520% -0.749	78 3.684%	
ORTH-SIGNE	22 27.608 1.139 14.379% 5.759% 1.039% -1.067	50 52.108 0.085 32.680% 6.935% 2.362% -0.292	12 18.646 2.369 7.843% 4.651% 0.567% -1.539	39 27.608 4.701 25.490% 10.209% 1.842% 2.168	30 27.030 0.326 19.608% 8.021% 1.417% 0.571	153 7.227%	
ORTH-SUB	76 47.998 16.336 28.571% 19.895% 3.590% 4.042	111 90.593 4.597 41.729% 15.395% 5.243% 2.144	33 32.418 0.010 12.406% 12.791% 1.559% 0.102	24 47.998 11.999 9.023% 6.283% 1.134% -3.464	22 46.993 13.292 8.271% 5.882% 1.039% -3.646	266 12.565%	
PHON-CLUSTER	2 0.361 7.445 100.000% 0.524% 0.094% 2.728	0 0.681 0.681 0.000% 0.000% 0.000% -0.825	0 0.244 0.244 0.000% 0.000% 0.000% -0.494	0 0.361 0.361 0.000% 0.000% 0.000% -0.601	0 0.353 0.353 0.000% 0.000% 0.000% -0.594	2 0.094%	
PHON-GRAPH-CO	25 14.436 7.731	35 27.246 2.207	6 9.750 1.442	9 14.436 2.047	5 14.133 5.902	80	

	31.250%	43.750%	7.500%	11.250%	6.250%	3.779%
	6.545%	4.854%	2.326%	2.356%	1.337%	
	1.181%	1.653%	0.283%	0.425%	0.236%	
	2.781	1.485	-1.201	-1.431	-2.429	
PHON-OAI	23	27	6	9	5	70
	12.631	23.840	8.531	12.631	12.367	
	8.512	0.419	0.751	1.044	4.388	
	32.857%	38.571%	8.571%	12.857%	7.143%	3.307%
	6.021%	3.745%	2.326%	2.356%	1.337%	
	1.086%	1.275%	0.283%	0.425%	0.236%	
	2.918	0.647	-0.867	-1.022	-2.095	
PHON-SUB	16	30	5	14	6	71
	12.812	24.181	8.653	12.812	12.543	
	0.794	1.400	1.542	0.110	3.413	
	22.535%	42.254%	7.042%	19.718%	8.451%	3.354%
	4.188%	4.161%	1.938%	3.665%	1.604%	
	0.756%	1.417%	0.236%	0.661%	0.283%	
	0.891	1.183	-1.242	0.332	-1.848	
Column Total	382	721	258	382	374	2117
	18.044%	34.058%	12.187%	18.044%	17.667%	

Statistics for All Table Factors

Pearson's Chi-squared test

Chi² = 306.257 d.f. = 56 p = 3.468908e-36