

Supplementary Materials. Pearson Correlations with FDR-Adjusted p Values

Hearing Signers

			Prefrontal			Frontal			Central			Parietal			Occipital		
			FP1	FPz	FP2	F3	Fz	F4	C3	Cz	C4	P3	Pz	P4	O1	Oz	O2
Semantic (325-625 ms)	English Spelling	<i>r</i>	0.431	0.328	0.371	0.244	0.117	0.174	0.148	0.131	0.143	0.275	0.252	0.217	0.411	0.381	0.311
		<i>p</i>	0.401	0.453	0.401	0.498	0.624	0.624	0.624	0.624	0.624	0.624	0.498	0.498	0.539	0.401	0.401
	ASL Comprehension	<i>r</i>	0.284	0.289	0.193	0.393	0.246	0.212	0.363	0.306	0.216	0.443	0.380	0.361	0.502	0.460	0.438
		<i>p</i>	0.305	0.305	0.415	0.221	0.370	0.396	0.221	0.305	0.396	0.203	0.221	0.221	0.203	0.203	0.203
	ASL Production	<i>r</i>	0.608	0.601	0.588	0.542	0.548	0.508	0.444	0.454	0.431	0.336	0.348	0.289	0.410	0.368	0.272
		<i>p</i>	0.030	0.030	0.030	0.042	0.042	0.055	0.094	0.094	0.097	0.171	0.166	0.231	0.108	0.150	0.246
Rime (325-625 ms)	English Spelling	<i>r</i>	-0.091	-0.163	-0.284	-0.201	-0.148	-0.314	-0.343	-0.334	-0.411	-0.468	-0.406	-0.426	-0.342	-0.384	-0.357
		<i>p</i>	0.704	0.569	0.305	0.494	0.570	0.267	0.252	0.252	0.252	0.252	0.252	0.252	0.252	0.252	0.252
	ASL Comprehension	<i>r</i>	-0.311	-0.409	-0.492	-0.109	-0.331	-0.444	-0.240	-0.492	-0.619	-0.543	-0.745	-0.681	-0.502	-0.678	-0.575
		<i>p</i>	0.209	0.100	0.047	0.646	0.193	0.075	0.330	0.047	0.015	0.033	0.000	0.005	0.047	0.005	0.024
	ASL Production	<i>r</i>	0.221	0.107	0.029	0.296	0.330	0.171	0.127	0.123	0.008	-0.125	-0.005	-0.036	-0.154	-0.202	-0.291
		<i>p</i>	0.889	0.889	0.982	0.889	0.889	0.889	0.889	0.889	0.982	0.889	0.982	0.982	0.889	0.889	0.889
Rime (700-900 ms)	English Spelling	<i>r</i>	-0.048	-0.232	-0.318	-0.341	-0.378	-0.436	-0.520	-0.554	-0.510	-0.662	-0.604	-0.535	-0.635	-0.594	-0.554
		<i>p</i>	0.840	0.348	0.198	0.176	0.136	0.083	0.036	0.028	0.037	0.015	0.023	0.032	0.023	0.023	0.028
	ASL Comprehension	<i>r</i>	-0.065	-0.183	-0.227	-0.155	-0.313	-0.348	-0.317	-0.477	-0.468	-0.514	-0.625	-0.512	-0.568	-0.595	-0.544
		<i>p</i>	0.785	0.507	0.419	0.551	0.244	0.220	0.244	0.071	0.071	0.053	0.045	0.053	0.045	0.045	0.049
	ASL Production	<i>r</i>	0.134	0.089	0.049	0.245	0.250	0.222	0.046	0.108	0.056	-0.095	-0.009	0.009	-0.103	-0.130	-0.179
		<i>p</i>	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970

Deaf Signers

		Prefrontal			Frontal			Central			Parietal			Occipital		
		FP1	FPz	FP2	F3	Fz	F4	C3	Cz	C4	P3	Pz	P4	O1	Oz	O2
Semantic (325-625 ms)	<i>r</i>	-0.139	-0.038	-0.090	-0.209	-0.200	-0.071	-0.297	-0.121	0.044	-0.207	-0.079	-0.020	-0.064	-0.060	-0.061
	<i>p</i>	0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.924	0.923	0.923	0.923
	<i>r</i>	-0.020	-0.122	-0.133	-0.058	-0.066	-0.055	-0.041	-0.046	-0.061	0.089	0.083	-0.005	0.163	0.227	0.180
	<i>p</i>	0.983	0.980	0.980	0.980	0.980	0.980	0.980	0.980	0.980	0.980	0.980	0.983	0.980	0.980	0.980
Rime (325-625 ms)	<i>r</i>	0.161	0.200	0.191	0.074	0.084	0.150	-0.116	0.062	0.191	-0.041	0.053	0.080	0.027	0.143	0.133
	<i>p</i>	0.902	0.902	0.902	0.902	0.902	0.902	0.902	0.902	0.902	0.902	0.902	0.902	0.902	0.902	0.902
	<i>r</i>	-0.409	-0.252	-0.205	-0.373	-0.350	-0.268	-0.225	-0.244	-0.215	-0.103	-0.204	-0.130	-0.048	-0.096	-0.130
	<i>p</i>	0.470	0.510	0.510	0.470	0.470	0.510	0.510	0.510	0.510	0.703	0.510	0.681	0.825	0.703	0.681
Rime (700-900 ms)	<i>r</i>	-0.101	-0.122	-0.011	-0.177	-0.244	-0.138	-0.230	-0.168	-0.109	-0.066	-0.168	-0.058	0.005	-0.095	-0.049
	<i>p</i>	0.946	0.946	0.983	0.946	0.946	0.946	0.946	0.946	0.946	0.946	0.946	0.946	0.983	0.946	0.946
	<i>r</i>	-0.146	-0.047	-0.028	-0.157	-0.173	-0.114	-0.118	-0.010	0.072	0.074	0.087	0.142	0.168	0.184	0.242
	<i>p</i>	0.924	0.954	0.961	0.924	0.924	0.924	0.924	0.962	0.924	0.924	0.924	0.924	0.924	0.924	0.924
Rime (700-900 ms)	<i>r</i>	-0.078	-0.113	-0.042	-0.202	-0.291	-0.144	-0.369	-0.417	-0.357	-0.443	-0.464	-0.407	-0.420	-0.402	-0.424
	<i>p</i>	0.769	0.691	0.846	0.468	0.251	0.626	0.143	0.109	0.145	0.109	0.109	0.109	0.109	0.109	0.109
	<i>r</i>	0.039	-0.074	0.018	-0.004	-0.135	-0.035	-0.184	-0.177	-0.104	-0.265	-0.310	-0.168	-0.236	-0.229	-0.147
	<i>p</i>	0.984	0.984	0.984	0.984	0.883	0.984	0.883	0.883	0.945	0.883	0.883	0.883	0.883	0.883	0.883
Rime (700-900 ms)	<i>r</i>	-0.075	-0.184	-0.211	-0.161	-0.312	-0.305	-0.299	-0.318	-0.262	-0.221	-0.237	-0.195	0.008	0.005	0.001
	<i>p</i>	0.908	0.585	0.585	0.618	0.585	0.585	0.585	0.585	0.585	0.585	0.585	0.585	0.997	0.997	0.997