

**Supplementary Table 1.** Regression model for concurrent correlations between prosodic hyper-scores (HS) of IDS at 18 months and children’s vocabulary size at 18 months ( $N = 43$ ).

	<i>Estimate</i>	<i>SE</i>	<i>t</i>	<i>p</i>
(Intercept)	140.32	98.10	1.43	0.157
Familiarity (Unfamiliar)	244.34	136.34	1.79	0.077.
Articulation rate HS	112.38	101.74	1.11	0.273
F0 range HS	-65.78	41.25	-1.59	0.115
Familiarity (Unfamiliar): Articulation rate HS	-258.08	143.73	-1.80	0.076.

Notes. \* $p < .05$ ; \*\* $p < .01$ ; \*\*\* $p < .001$ .

**Supplementary Table 2.** Regression model for concurrent correlations between prosodic hyper-scores at 24 months and children’s vocabulary size at 24 months ( $N = 27$ ).

	<i>Estimate</i>	<i>SE</i>	<i>t</i>	<i>p</i>
(Intercept)	266.88	223.02	1.20	0.238
Familiarity (Unfamiliar)	899.37	391.06	2.30	0.026*
Articulation rate HS	54.14	118.36	0.46	0.650
Mean F0 HS	91.75	136.39	0.67	0.505
F0 range HS	98.14	38.27	2.56	0.014*
Familiarity (Unfamiliar): Articulation rate HS	-424.46	223.59	-1.90	0.064.
Familiarity (Unfamiliar): Mean F0 HS	-467.7	240.81	-1.94	0.058.

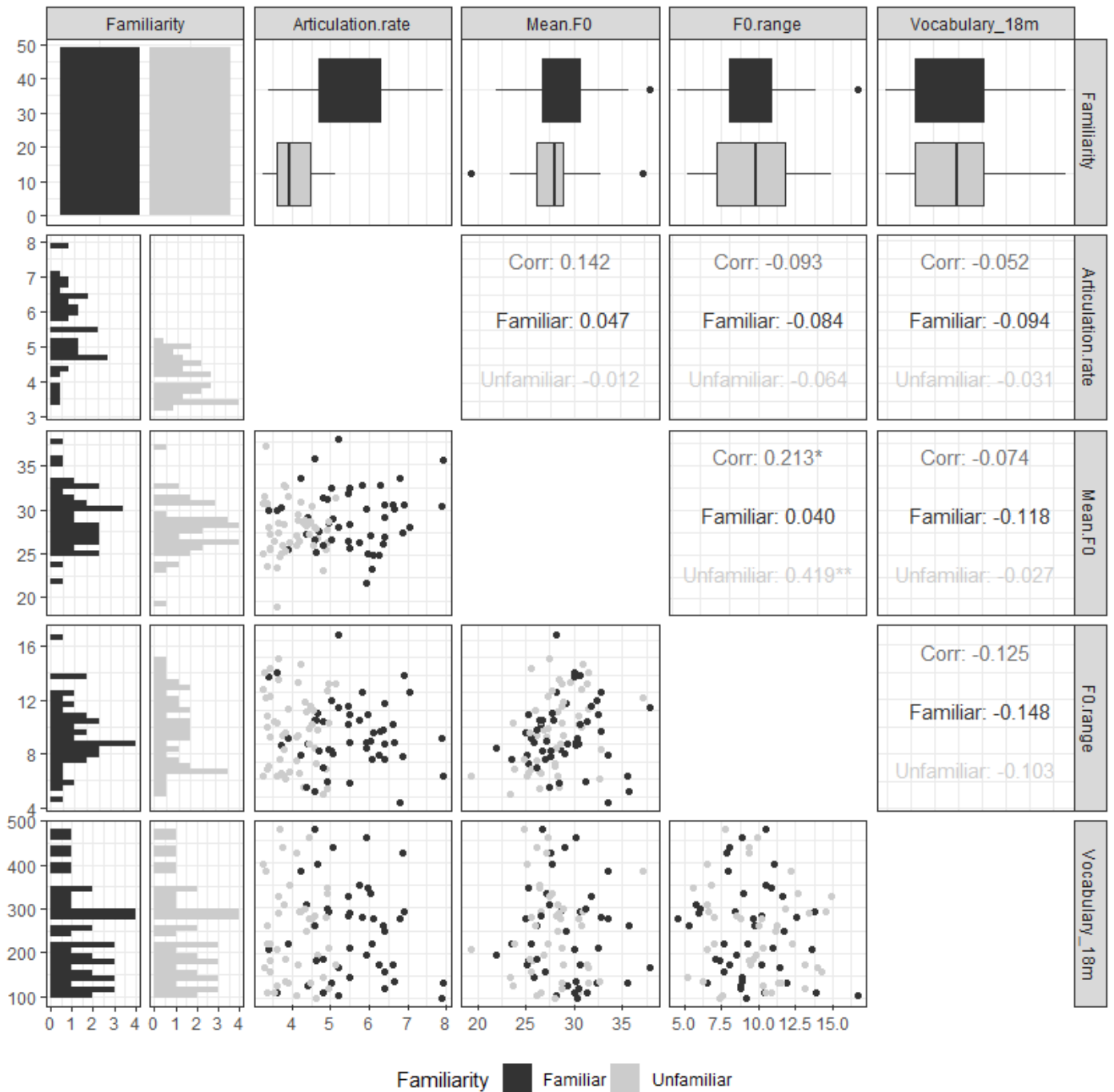
Notes. \* $p < .05$ ; \*\* $p < .01$ ; \*\*\* $p < .001$ .

**Supplementary Table 3.** Regression model for longitudinal correlations between prosodic hyper-scores at 18 months and children’s vocabulary growth ( $N = 27$ ).

	<i>Estimate</i>	<i>Std. Error</i>	<i>t</i>	<i>p</i>
(Intercept)	351.08	20.15	17.42	<0.001***
18m Vocabulary	0.74	0.07	10.21	<0.001***
Familiarity (Unfamiliar)	-7.03	14.72	-0.48	0.635
F0 range HS	-19.89	32.68	-0.61	0.546
Familiarity (Unfamiliar): Utterance F0 range HS	125.19	54.25	2.31	0.025*

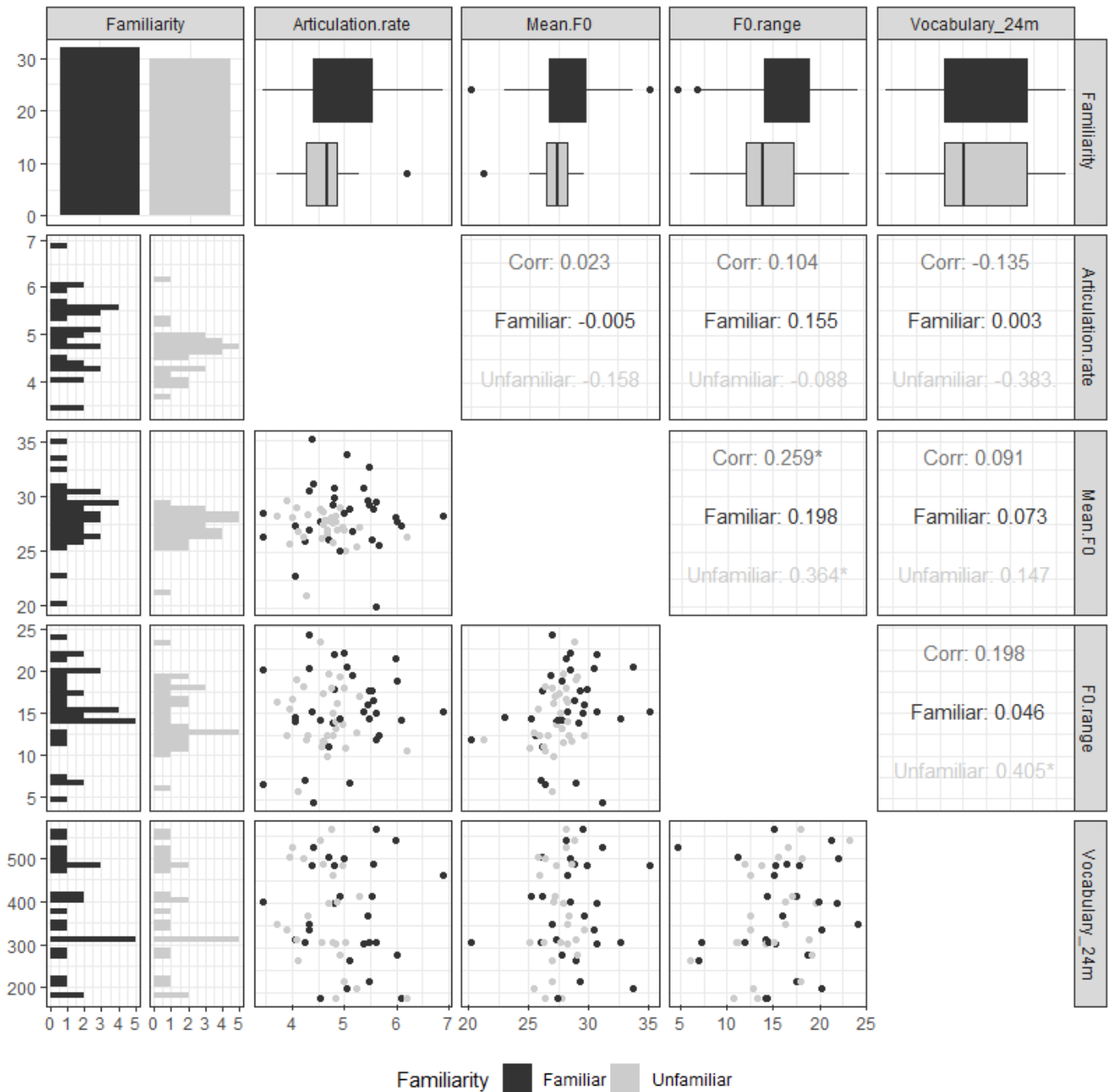
Notes. \* $p < .05$ ; \*\* $p < .01$ ; \*\*\* $p < .001$ .

**Supplementary Figure 1.** Scatter plot matrix of raw prosodic values of mothers' IDS at 18 months and children's receptive vocabulary at 18 months ( $N = 43$ ).<sup>1</sup>

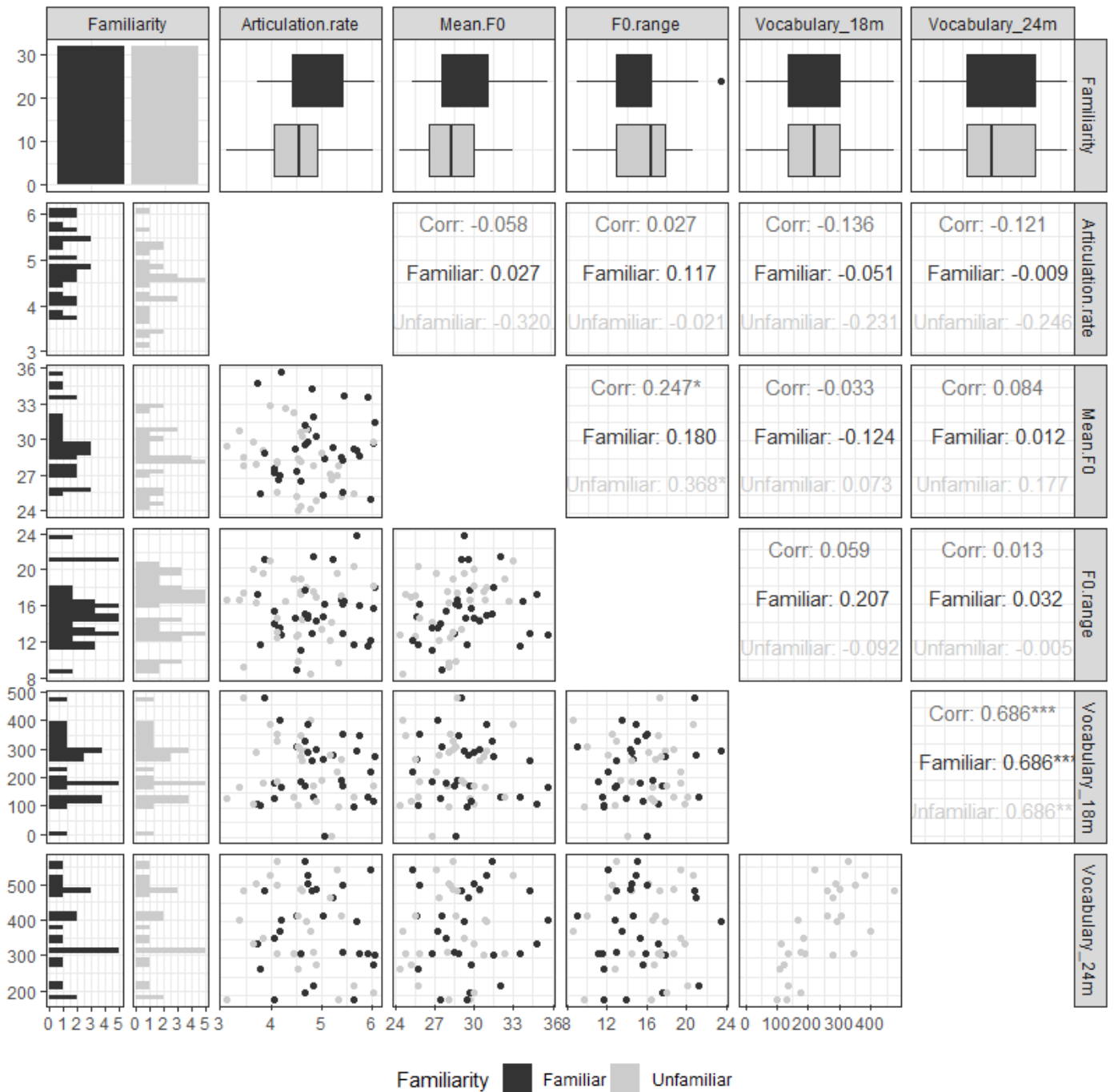


<sup>1</sup> The matrices in the Supplementary Materials show raw data including the outliers.

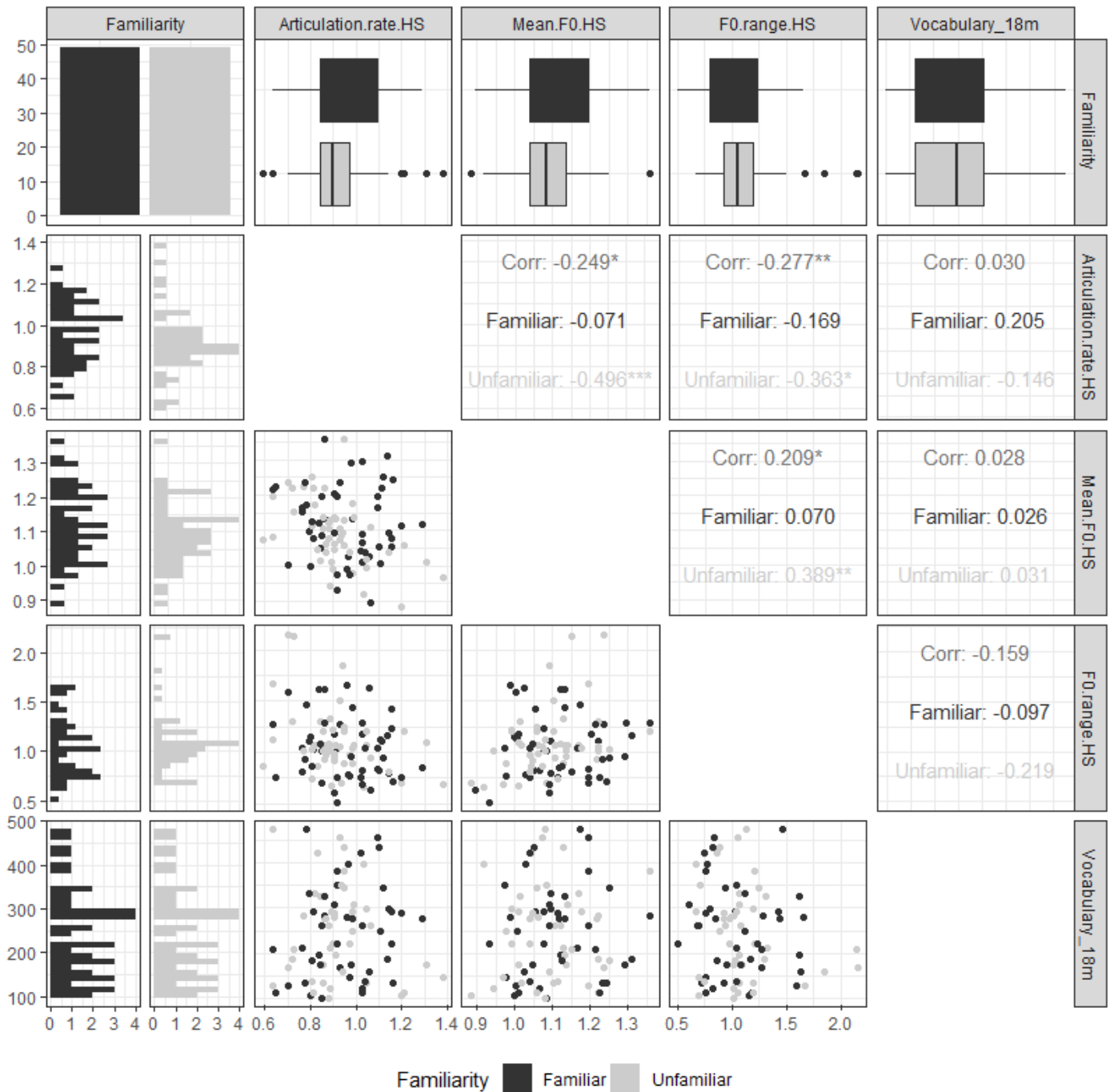
**Supplementary Figure 2.** Scatter plot matrix of raw prosodic values of mothers' IDS at 24 months and children's receptive vocabulary at 24 months ( $N = 27$ ).



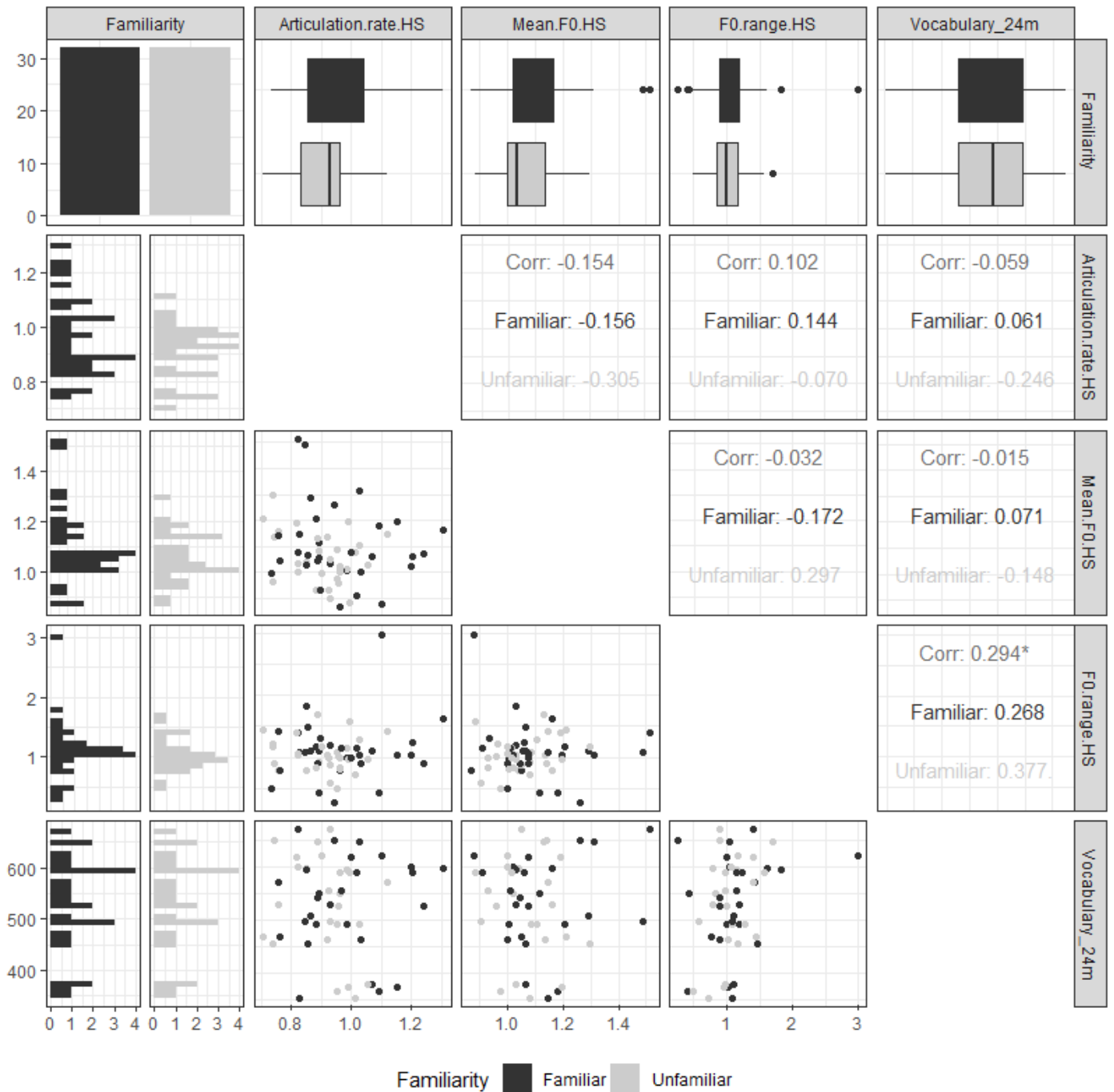
**Supplementary Figure 3.** Scatter plot matrix of raw prosodic values of mothers' IDS at 18 months and children's receptive vocabulary at 18 and 24 months ( $N = 27$ ).



**Supplementary Figure 4.** Scatter plot matrix of prosodic hyper-scores at 18 months and children's receptive vocabulary at 18 months ( $N = 43$ ).



**Supplementary Figure 5.** Scatter plot matrix of prosodic hyper-scores at 24 months and children's receptive vocabulary at 24 months ( $N = 27$ ).



**Supplementary Figure 6.** Scatter plot matrix of prosodic hyper-scores at 18 months and children's receptive vocabulary at 18 and 24 months ( $N = 27$ ).

