Appendix B: Correlations and PCA results for social and voice quality factors

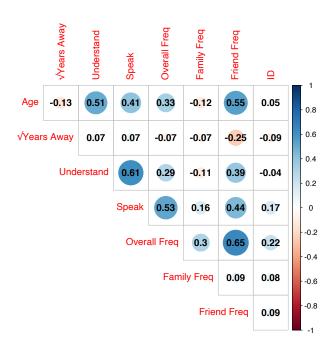


Figure 1: Social factor correlation matrix

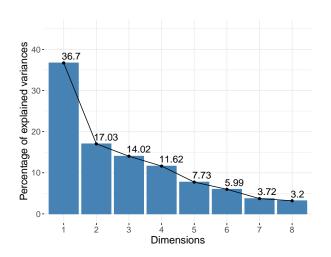


Figure 2: Scree plot for social variables

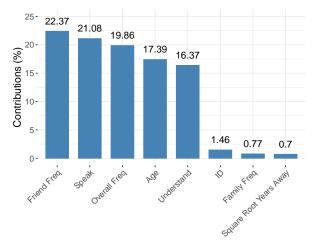


Figure 3: Social variables, Dimension 1

Table 1: Correlation of social factors to PCA dimensions

	Dim 1	Dim 2	Dim 3	Dim 4	Dim 5	Dim 6	Dim 7	Dim 8
Speak	0.82	0.38	0.17	-0.01	-0.03	-0.09	-0.29	0.24
Understand	0.80	0.24	0.29	-0.10	0.21	-0.33	0.15	-0.19
Overall Frequency	0.76	-0.16	-0.13	0.36	-0.41	0.07	-0.12	-0.23
Friend Frequency	0.73	-0.54	-0.12	0.12	-0.14	-0.06	0.25	0.23
Age	0.69	-0.39	0.27	-0.21	0.36	0.35	-0.05	-0.05
ID	0.42	0.64	-0.30	-0.45	-0.19	0.23	0.18	0.00
Family Frequency	0.23	0.31	-0.57	0.62	0.37	0.06	0.03	0.01
√Years Away	-0.16	0.34	0.74	0.50	-0.10	0.17	0.14	0.05

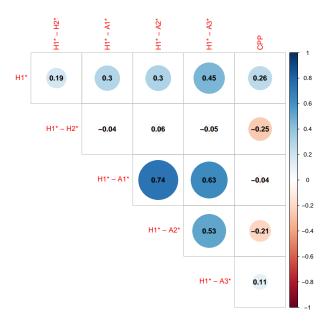


Figure 4: Voice quality correlation matrix

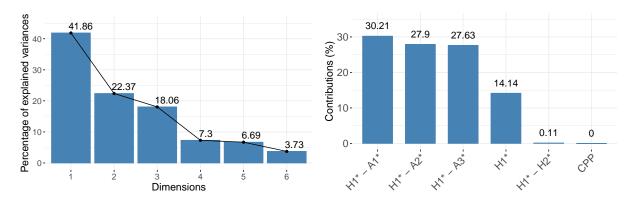


Figure 5: Scree plot for voice quality measures

Figure 6: Voice quality measures, Dimension 1

Table 2: Correlation of voice quality measures to PCA dimensions

	Dim 1	Dim 2	Dim 3	Dim 4	Dim 5	Dim 6
H1* - A1*	0.87	-0.08	-0.25	0.23	0.08	-0.33
H1* - A2*	0.84	-0.29	-0.19	0.07	0.29	0.30
H1* - A3*	0.83	0.18	-0.03	-0.06	-0.51	0.10
H1*	0.60	0.30	0.61	-0.38	0.19	-0.08
H1* - H2*	0.05	-0.57	0.76	0.30	-0.09	0.01
CPP	0.01	0.90	0.20	0.37	0.08	0.08