

## Appendix 6

Table A6. Principal component analysis results illustrating the contribution of acoustic features in the first four principal components to the sex variation of chuck calls, sorted in decreasing order according to the total squared cosine ( $\cos^2$ ) score of the first two principal components (values more than 0.8 in bold).

Acoustic features	Loadings				Cos <sup>2</sup>		
	PC1	PC2	PC3	PC4	PC1	PC2	Total
meanfreq	0.2559	0.2281	-0.0100	-0.0921	0.6110	0.3346	<b>0.9456</b>
meandom	0.2205	0.2676	-0.0254	-0.0150	0.4537	0.4605	<b>0.9142</b>
freq.median	0.2435	0.2360	-0.0088	-0.1224	0.5535	0.3582	<b>0.9117</b>
freq.Q75	0.2797	0.1510	-0.0971	-0.1125	0.7301	0.1467	<b>0.8767</b>
freq.Q25	0.1822	0.2960	0.0932	-0.0891	0.3098	0.5634	<b>0.8731</b>
maxdom	0.2830	0.0778	-0.1348	0.1032	0.7477	0.0389	0.7866
mindom	0.0540	0.3216	0.1566	-0.0554	0.0272	0.6653	0.6925
meanpeakf	0.2071	0.2095	-0.0454	-0.0323	0.4003	0.2823	0.6826
top.freq	0.2664	0.0398	-0.1713	0.1517	0.6623	0.0102	0.6725
time.Q75	0.1974	-0.2058	0.2554	0.0094	0.3638	0.2723	0.6361
time.IQR	0.1902	-0.2101	0.2370	0.0013	0.3378	0.2840	0.6218
entropy	0.2085	-0.1825	-0.0763	-0.0762	0.4057	0.2141	0.6198
duration	0.1924	-0.2057	0.2572	0.0341	0.3456	0.2720	0.6176
time.median	0.1910	-0.2019	0.2544	0.0071	0.3406	0.2621	0.6027
dfrange	0.2105	-0.1437	-0.2200	0.1260	0.4136	0.1327	0.5464
sd	0.2012	-0.1569	-0.2749	0.0711	0.3780	0.1583	0.5362
time.Q25	0.1853	-0.1796	0.2500	0.0177	0.3203	0.2074	0.5277
time.ent	0.2005	-0.1450	-0.0130	0.0853	0.3753	0.1353	0.5106
bottom.freq	0.0928	0.2522	0.2206	-0.2183	0.0805	0.4090	0.4895
freq.IQR	0.1831	-0.1625	-0.2705	-0.0527	0.3131	0.1697	0.4828
modindx	0.1606	-0.1868	0.2834	-0.0801	0.2406	0.2243	0.4649
enddom	0.1473	0.1957	0.1200	-0.0340	0.2025	0.2462	0.4487
bw	0.1820	-0.1076	-0.2757	0.2571	0.3091	0.0745	0.3836
sp.ent	0.1199	-0.1714	-0.1851	-0.4011	0.1343	0.1888	0.3231
startdom	0.0651	0.1621	-0.1084	0.2895	0.0395	0.1690	0.2085
sfm	0.0747	-0.1244	-0.1546	-0.4321	0.0521	0.0996	0.1516
kurt	0.1157	0.0120	0.1976	0.2798	0.1249	0.0009	0.1259
skew	0.0724	0.0560	0.1910	0.4085	0.0489	0.0202	0.0691
dfslope	0.0362	-0.0684	0.1555	-0.2858	0.0122	0.0301	0.0423
Standard deviation	3.0551	2.5358	2.1989	1.4935			
Proportion of Variance	0.3219	0.2217	0.1667	0.0769			
Cumulative Proportion	0.3219	0.5436	0.7103	0.7873			
Eigenvalue	9.3338	6.4305	4.8353	2.2305			