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| Response variable | Full vs Null Model Comparison with Behavioural Activity included as a control |
| total duration (s) | χ2=16.57, df=4, P=0.0023 |
| # calls in the introduction | χ2=10.81, df=4, P=0.029 |
| introduction duration (s) | χ2=9.22, df=4, P=0.056 |
| F0 of last call of the introduction (Hz) | χ2=7.72, df=4, P=0.11 |
| duration of the last call of the introduction (s) | χ2=4.44, df=4, P=0.35 |
| pF of the last call of the introduction (Hz) | χ2=7.16, df=4, P=0.13 |
| # of voiced calls in the build-up | χ2=13.61, df=4, P=0.0087 |
| duration of the build-up (s) | χ2=1.76, df=4, P=0.78 |
| F0 of the middle call of the build-up (Hz) | χ2=16.00, df=4, P=0.003 |
| duration of the middle call of the build-up | χ2=14.47, df=4, P=0.0059 |
| pF of the middle call of the build-up (Hz) | χ2=13.69, df=4, P=0.0084 |
| # of elements in the climax | χ2=29.01, df=4, P=0.00001 |
| duration of the climax (s) | χ2=21.91, df=4, P=0.00024 |
| F0 of the highest call of the climax (Hz) | χ2=6.04, df=4, P=0.20 |
| duration of the highest call of the climax (s) | χ2=1.76, df=4, P=0.78 |
| pF of the highest call of the climax (Hz) | χ2=11.36, df=4, P=0.027 |
| duration of drumming (s) | χ2=31.24, df=4, P<0.00001 |
| # of drum beats | χ2=24.95, df=4, P=0.0001 |

\*Transformation of the response, sample size, error structure and link functions were all identical to Table 3 in the main manuscript.