Supplementary information

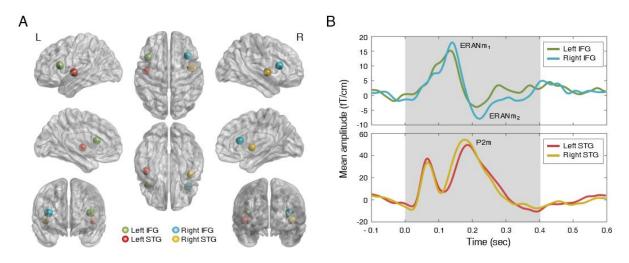


Figure S1. Mean dipole source locations of all participants in the bilateral IFGs and STGs, and the time window. (A) The ECDs of P2m (magnetic counterpart of P2) and ERANm (magnetic counterpart of ERAN) in the ending chord in each condition were localized in the bilateral IFGs and STGs. The green dot (left IFG), sky blue dot (right IFG), red dot (left STG), and yellow dot (right STG) indicate the grand average (n = 19) of individual ECDs estimated by BESA 5.1.8.10. (x, y, and z in Talairach coordinates, millimeters, left IFG, -40.8, 18.5, and 15.6; right IFG, 37.6, 21.2, and 15.1; left STG, -45.1, -8.9, and 1.9; right STG, 43.1, -2.6, and 2). The brain map and dipole source location were generated by BrainNet Viewer (http://nitrc.org/projects/bnv/). (B) The LTDMI values were calculated in the time window of 0 ms to 400 ms after the ending chord onset in the MEG signal of ECDs for four ROIs. The green, sky blue, red, and yellow lines denotes the mean amplitudes of three conditions (n = 19) in each ROI across all participants. The gray shadow indicates the time window of 400 ms encompassing the peak latencies of ERANm₁ and ERANm₂ in the bilateral IFGs and P2m in the bilateral STGs, respectively.

Table S1. *Post hoc* one-way repeated measures ANOVAs results of the LTDMI for the Condition factor in 12 connections. The P-values were corrected by FDR for multiple comparisons of 12 connections. *P < 0.05, and ***P < 0.01.

	df	${\it F}$	P
Left STG \rightarrow Right STG	2/36	1.275	0.501
Left STG \rightarrow Left IFG	2/36	3.235	0.153
Left STG \rightarrow Right IFG	2/36	0.023	0.977
Right STG \rightarrow Left STG	2/36	12.373	*** < 0.001
Right STG \rightarrow Left IFG	2/36	4.828	0.056
Right STG \rightarrow Right IFG	2/36	0.478	0.749
Left IFG $ ightarrow$ Left STG	2/36	0.234	0.864
Left IFG \rightarrow Right STG	1.399/25.187	1.024	0.522
Left IFG \rightarrow Right IFG	1.220/21.951	3.030	0.178
Right IFG \rightarrow Left STG	2/36	0.905	0.552
Right IFG \rightarrow Right STG	2/36	2.855	0.170
Right IFG \rightarrow Left IFG	2/36	6.526	* 0.024