Supplementary materials

Sound 1: "da.wav" - standard and deviant sound [da], phonemic condition

Sound 2: "ta.wav" - standard and deviant sound [ta], phonemic condition

Sound 3: "ad.wav" - standard and deviant sound [ad], allophonic condition

- Sound 4: "at.wav" standard and deviant sound [at], allophonic condition
- Sound 5: "mmn_dev_da.wav" excerpt of multifeature MMN paradigm with [da] as the target deviant
- Sound 6: "mmn_dev_ta.wav" excerpt of multifeature MMN paradigm with [ta] as the target deviant
- Sound 7: "mmn_dev_ad.wav" excerpt of multifeature MMN paradigm with [ad] as the target deviant
- Sound 8: "mmn_dev_at.wav" excerpt of multifeature MMN paradigm with [at] as the target deviant

Contrast	ast Cluster-level				Peak	Coordinates		
	$oldsymbol{ ho}_{FWE}$	p _{UNC}	k	\boldsymbol{p}_{FWE}	p _{UNC}	F	Ζ	x y ms
Phonemic [dæ]-[dæ]	< 0.001 0.003 0.057	< 0.001 0.002 0.035	34610 15745 6050	0.012 0.060 0.349 0.279 0.385 0.447	< 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	56.410 39.650 24.500 26.370 23.660 22.370	4.710 4.250 3.620 3.720 3.580 3.510	-40 -27 365 49 -30 323 28 -25 290 -30 -22 216 -45 -46 183 -21 -22 179
Phonemic [tæ]-[tæ]	< 0.001 0.041 0.037	< 0.001 0.028 0.025	26793 7581 7973	0.108 0.151 0.239 0.475 0.502	< 0.001 < 0.001 < 0.001 < 0.001 < 0.001	33.380 30.540 26.770 21.060 20.570	4.030 3.910 3.740 3.430 3.400	-15 -52 122 45 -27 141 -23 45 132 -40 40 97 -21 32 164
Allophonic [æd]-[æd]					n.s.			
Allophonic [æt]-[æt]	0.001 0.002	0.001 0.001	19796 18781	0.012 0.025 0.097 0.378	< 0.001 < 0.001 < 0.001 < 0.001	56.330 47.970 35.030 23.630	4.710 4.500 4.090 3.580	23 -22 167 34 -22 106 -23 -25 106 -23 -19 147

Tab. S1

Table S1. Results of the SPMs of the individual conditions, i.e., testing the difference waves against 0. The x, y, z coordinates refer to the 3D SPM volumes visualized in Fig. 3 (and S3) where x and y express the lateral plane (left-right) and the frontal plane (front-back) of the 64 x 64 pixel array of the sensors, respectively, and z express the temporal dimension (0-400 ms).

Tab. S	52
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Contrast	Cluster-level			Peak-level				Coordinates
	$oldsymbol{p}_{FWE}$	p _{UNC}	k	\boldsymbol{p}_{FWE}	p _{UNC}	F	Ζ	x y ms
Main effect of Context					n.s.			
Main effect of Phoneme	0.001 0.004	0.001 0.003	25918 18410	0.005 0.044 0.014	< 0.001 < 0.001 < 0.001	31.460 23.250 27.420	4.760 4.180 4.490	-28 -54 121 -19 -22 141 -32 48 133
Interaction effect of Context* Phoneme					n.s.			

Table S2: Results of the SPMs of the flexible factorial design with Context and

Phoneme as factors. The x, y, z coordinates refer to the 3D SPM volumes visualized

in Fig. 3 (and S3), see the caption for Table S1 for more details.



Figure S1. Histograms of the RTs from the behavioral paradigm.



Figure S2: Full channel overview (of the magnetometers) for all four conditions (**A:** [da]; **B:** [ta]; **C:** [ad]; **D:** [at]). ERFs to the standard and the deviant. For each sensor site typically showing MMNm effects, four channels are highlighted: left anterior, left posterior, right anterior, and right posterior lateral sensor sites. Positive values reflect magnetic flux out of the scalp while negative values reflect magnetic flux into the scalp. Low-pass-filtered at 15 Hz for illustrative purposes.



Figure S3. The SPMs of the four individual conditions and the flexible factorial analysis, thresholded at pFWE<0.05. See caption to figure 3 for more details.