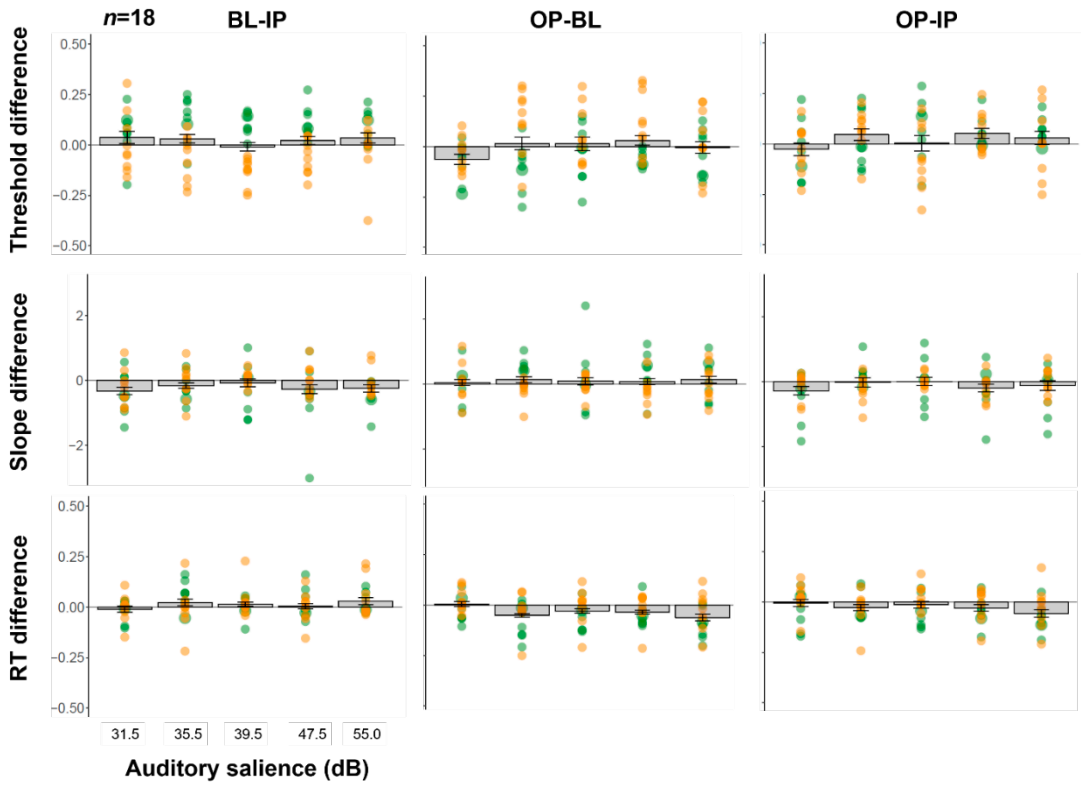

Figure S1. Threshold, slope, and RT difference across auditory salience levels. Green: Enhancement group; Orange: Suppression group.

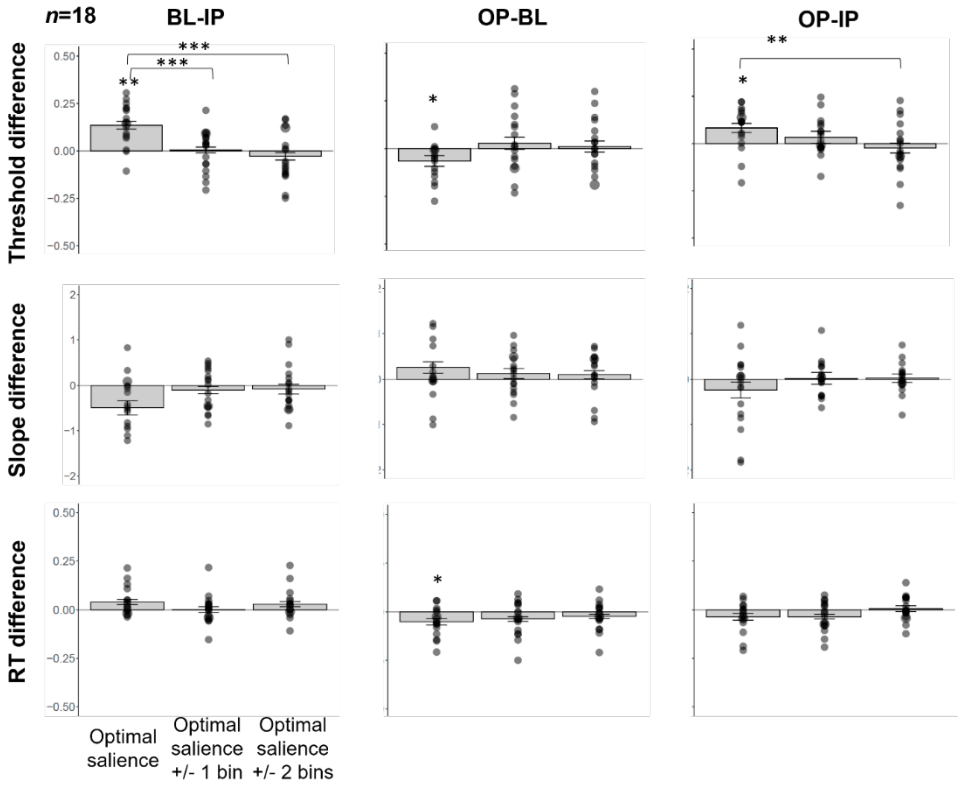

Figure S2. Threshold, slope, and RT difference aligned to individual participants' optimal auditory salience.

Table S1. Results of overall statistical analysis.

		BL vs. IP	**OP vs. BL**	**OP vs. IP**
Threshold difference	Mean threshold difference at mid-salience (*SD*)	-0.009 (0.137)	0.014 (0.144)	0.004 (0.172)
	t-test against zero for threshold difference at mid salience	$t(17) = -0.292$, $p = 0.774$	$t(17) = 0.400$, $p = 0.694$	$t(17) = 0.103$, $p = 0.919$
	F-test for the main effect of salience on threshold difference	$F(4,68) = 0.645$, $p = 0.632$, $\eta^2_G = 0.017$ Intercept: $F(1,17) = 0.992$, p =0.333, $\eta^2_G = 0.031$	$F(4,68) = 1.598$, $p = 0.185$, $\eta^2_G = 0.051$ Intercept: $F(1,17) = 0.005$, p=0.943, $\eta^2_G < 0.001$	$F(4,68) = 1.044$, $p = 0.391$, $\eta^2_G = 0.049$ Intercept: $F(1,17) = 2.903$, p =0.107, $\eta^2_G = 0.027$
Slope difference	Mean slope difference at mid-salience (*SD*)	-0.081 (0.563)	0.085 (0.714)	0.005 (0.511)
	t-test against zero for slope difference at mid salience	$t(17) = 0.608$, $p = 0.551$	$t(17) = 0.508$, $p = 0.618$	$t(17) = 0.038$, $p = 0.970$
	F-test for the main effect of salience on slope difference	$F(4,68) = 0.696$, $p = 0.598$, $\eta^2_G = 0.021$ Intercept: $F(1,17)=4.818$, $p = 0.042$, $\eta^2_G = 0.119$	$F(4,68) = 0.171$, $p = 0.953$, $\eta^2_G = 0.004$ Intercept: $F(1,17)=0.777$, $p = 0.390$, $\eta^2_G = 0.026$	$F(4,68) = 0.808$, $p = 0.524$, $\eta^2_G = 0.040$ Intercept: $F(1,17)=7.618$, $p = 0.013$, $\eta^2_G = 0.052$
RT difference	Mean RT difference at mid-salience (*SD*)	0.015 (0.066)	-0.029 (0.080)	-0.014 (0.073)
	t-test against zero for RT difference at mid salience	$t(17) = 0.999$, $p = 0.332$	$t(17) = 1.549$, $p = 0.140$	$t(17) = 0.804$, $p = 0.433$
	F-test for the main effect of salience on RT difference	$F(4,68) = 1.183$, $p = 0.326$, $\eta^2_G = 0.036$ Intercept: $F(1,17) = 1.102$, $p = 0.308$, $\eta^2_G = 0.029$	$F(4,68) = 4.856$, $p = 0.002$, $\eta^2_G = 0.082$ Intercept: $F(1,17) = 5.028$, $p = 0.039$, $\eta^2_G = 0.169$	$F(4,68) = 1.368$, $p = 0.254$, $\eta^2_G = 0.049$ Intercept: $F(1,17) = 5.702$, $p = 0.029$, $\eta^2_G = 0.106$

Table S2. Results of statistical analysis based on data aligned by optimal auditory salience.

		BL vs. IP	**OP vs. BL**	**OP vs. IP**
Threshold difference	Mean threshold difference at optimal salience (*SD*)	0.135 (0.106)	-0.064 (0.91)	0.083 (0.114)
	t-test against zero for threshold difference at optimal salience	$t(17) = 5.392$, $p < 0.002$	$t(17) = -3.002$, $p = 0.024$	$t(17) = 3.077$, $p = 0.021$
	F-test for the main effect of salience on threshold difference	$F(2,34) = 22.157$, $p < 0.001$, $\eta^2_G = 0.281$ * *Posthoc analysis: *p*s < 0.001 (Optimal vs. bin 1 & Optimal vs. bin 2) Intercept: $F(1,17) = 2.640$, p =0.123, $\eta^2_G = 0.098$	$F(2,34) = 2.777$, $p = 0.076$, $\eta^2_G = 0.091$ Intercept: $F(1,17) = 0.197$, p=0.663, $\eta^2_G = 0.004$	$F(2,34) = 3.774$, $p = 0.033$, $\eta^2_G = 0.127$ * *Posthoc analysis: $p = 0.009$ (Optimal vs. bin 2) Intercept: $F(1,17) = 3.747$, p =0.080, $\eta^2_G = 0.066$
Slope difference	Mean slope difference at optimal salience (*SD*)	-0.497 (0.826)	0.259 (0.797)	-0.239 (0.793)
	t-test against zero for slope difference at optimal salience	$t(17) = -2.555$, $p = 0.062$	$t(17) = 1.376$, $p = 0.654$	$t(17) = -1.278$, $p = 0.405$
	F-test for the main effect of salience on slope difference	$F(2,34) = 3.858$, $p = 0.031$, $\eta^2_G = 0.092$ * *Posthoc analysis: FDR-adjusted *p*s > 0.098 Intercept: $F(1,17)=4.506$, $p = 0.049$, $\eta^2_G = 0.128$	$F(2,34) = 0.620$, $p = 0.544$, $\eta^2_G = 0.014$ Intercept: $F(1,17) = 2.059$, $p = 0.169$, $\eta^2_G = 0.069$	$F(2,34) = 1.159$, $p = 0.326$, $\eta^2_G = 0.050$ Intercept: $F(1,17) = 1.189$, $p = 0.291$, $\eta^2_G = 0.016$
RT difference	Mean RT difference at optimal salience (*SD*)	0.040 (0.070)	-0.051 (0.070)	-0.036 (0.073)
	t-test against zero for RT difference at optimal salience	$t(17) = 2.418$, $p = 0.081$	$t(17) = -3.068$, $p = 0.021$	$t(17) = -2.100$, $p = 0.081$
	F-test for the main effect of salience on RT difference	$F(2,34) = 2.306$, $p = 0.115$, $\eta^2_G = 0.050$ Intercept: $F(1,17) = 3.009$, $p = 0.101$, $\eta^2_G = 0.098$	$F(2,34) = 1.050$, $p = 0.361$, $\eta^2_G = 0.023$ Intercept: $F(1,17) = 6.868$, $p = 0.018$, $\eta^2_G = 0.202$	$F(2,34) = 2.551$, $p = 0.093$, $\eta^2_G = 0.075$ Intercept: $F(1,17) = 4.021$, $p = 0.061$, $\eta^2_G = 0.098$