Supplementary Materials Online

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Results of statistical analyses performed on the complete sample. For Monolinguals, n = 41; for Bilinguals, n = 36.

Table s1. Summary of mixed-effects regression analyses for the implicit learning task.

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ACCURACY | Coef. Std. Err. z P>|z| [95% Conf. Interval]

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 Baseline | .7584623 1.198771 0.63 0.527 -1.591086 3.108011

 rep1 | .5642619 .3022368 1.87 0.062 -.0281114 1.156635

 rep2 | .6865712 .3122138 2.20 0.028 .0746434 1.298499

 rep3 | 1.367711 .3884847 3.52 0.000 .6062953 2.129127

 bil | -.0656866 .303886 -0.22 0.829 -.6612923 .5299191

 \_cons | 2.831503 .2783386 10.17 0.000 2.285969 3.377037

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 var(\_cons) | .5239778 .2774848 .1855834 1.479404

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REACTION TIME| Coef. Std. Err. z P>|z| [95% Conf. Interval]

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 Baseline | .1219547 .0559373 2.18 0.029 .0123195 .2315898

 rep1 | -74.97953 14.76147 -5.08 0.000 -103.9115 -46.04757

 rep2 | -102.5438 14.84702 -6.91 0.000 -131.6434 -73.44413

 rep3 | -118.0994 14.75181 -8.01 0.000 -147.0124 -89.18636

 bil | -148.7409 36.56436 -4.07 0.000 -220.4058 -77.0761

 \_cons | 1028.039 26.45409 38.86 0.000 976.1897 1079.888

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 Random-effects Parameters | Estimate Std. Err. [95% Conf. Interval]

 var(\_cons) | 23038.35 4277.633 16010.5 33151.08

 var(Residual) | 46211.49 1611.277 43158.94 49479.95

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Note. bil = Bilingual; rep0 = item’s first appearance (reference level); rep1 = item’s second appearance (first repetition); rep2 = item’s third appearance; rep3 = item’s fourth appearance (third repetition). Baseline = see text for description. For both Accuracy and Reaction Time the interactions Bilingual × Repetition did not improve the models fit and therefore are not reported in the table. For Monolinguals, n = 41; for Bilinguals, n = 36.

Table s2. Resistance to proactive interference: Summary of mixed-effects regression analyses for accuracy and reaction time data.

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ACCURACY | Coef. Std. Err. z P>|z| [95% Conf. Interval]

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 interf | -1.443706 .1820522 -7.93 0.000 -1.800521 -1.08689

 bil | -.3130712 .2530639 -1.24 0.216 -.8090673 .182925

interf × bil | .7481497 .256621 2.92 0.004 .2451818 1.251118

 \_cons | 3.186455 .186546 17.08 0.000 2.820832 3.552079

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 var(\_cons)| .3185734 .1006587 .1714976 .591781

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REACTION TIME| Coef. Std. Err. z P>|z| [95% Conf. Interval]

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 interf | 73.16026 12.45349 5.87 0.000 48.75187 97.56865

 bil | -72.25602 41.95629 -1.72 0.085 -154.4888 9.976786

interf × bil | -38.75721 17.99564 -2.15 0.031 -74.02801 -3.486401

 \_cons | 1115.172 28.66538 38.90 0.000 1058.989 1171.356

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 Random-effects Parameters | Estimate Std. Err. [95% Conf. Interval]

 var(\_cons) | 29987.37 5144.538 21424.41 41972.79

 var(Residual) | 64376.85 1626.533 61266.55 67645.05

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Note. interf = Interference; bil = Bilingual. For Monolinguals, n = 41; for Bilinguals, n = 36.

Table s3. Performance monitoring: Summary of mixed-effects regression analyses for reaction time data.

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REACTION TIME | Coef. Std. Err. z P>|z| [95% Conf. Interval]

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 Tone | -140.849 28.21434 -4.99 0.000 -196.1481 -85.54995

 P-E | -3.969865 27.48841 -0.14 0.885 -57.84616 49.90643

 Tone × P-E | 96.22812 38.64006 2.49 0.013 20.49499 171.9612

 bil | -224.2427 44.33779 -5.06 0.000 -311.1431 -137.3422

 Tone × bil | 88.96429 41.06204 2.17 0.030 8.484166 169.4444

 P-E × bil | 82.90964 40.27178 2.06 0.040 3.978394 161.8409

Tone × P-E × bil | -93.36073 56.43048 -1.65 0.098 -203.9624 17.24099

 \_cons | 701.0147 29.82228 23.51 0.000 642.5641 759.4652

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 Random-effects Parameters | Estimate Std. Err. [95% Conf. Interval]

 var(\_cons) | 18160.97 3661.764 12232.43 26962.82

 var(Residual) | 101040.8 3192.645 94973.19 107496.1

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Note. P-E = Post-Error; bil = Bilingual. For Monolinguals, n = 41; for Bilinguals, n = 36.

Table s4. Attention switching: Summary of mixed-effects regression analyses for accuracy and reaction time data.

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ACCURACY | Coef. Std. Err. z P>|z| [95% Conf. Interval]

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 asw | -.115522 .116685 -0.99 0.322 -.3442204 .1131765

 bil | -.0360974 .2085719 -0.17 0.863 -.4448909 .3726961

 asw × bil | -.2598306 .1679851 -1.55 0.122 -.5890752 .0694141

 \_cons | 3.333454 .1450689 22.98 0.000 3.049124 3.617784

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 var(\_cons)| .5026695 .115341 .3206036 .7881279

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REACTION TIME| Coef. Std. Err. z P>|z| [95% Conf. Interval]

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 asw | 91.88255 6.064425 15.15 0.000 79.9965 103.7686

 bil | -59.70209 30.33635 -1.97 0.049 -119.1602 -.2439423

 asw × bil | -57.78529 8.948101 -6.46 0.000 -75.32324 -40.24733

 \_cons | 950.267 20.72642 45.85 0.000 909.644 990.89

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 Random-effects Parameters | Estimate Std. Err. [95% Conf. Interval]

 var(\_cons) | 16447.39 2750.998 11850.17 22828.08

 var(Residual) | 58053.63 759.1216 56584.68 59560.71

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Note. asw = Attention switching; bil = Bilingual. For Monolinguals, n = 41; for Bilinguals, n = 36.