

**Grant Number**: ES/N014677/1

**Sponsor: ESRC**

**Project title**: *Cross-modal number comparison in adults: timing modulates the distance effect, experimental data 2017*

The following files have been archived:

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| File name | File description (Short description of content, sample size, format, any linking between different types of data, i.e. survey and interviews/focus groups) |
| MethodsDescription.docx | Word document describing the method for Experiment 1 and 2 |
| **In 1st Exp.zip:** | Zip folder/Archive |
| Codebook\_ANOVA\_Exp1.csv | Explain variable names in the “TimingModulatesDistanceEffect\_Exp1.csv”  |
| TimingModulatesDistanceEffect\_DataAnalysisSyntaxExp1.txt | SPSS syntax code to run the ANOVA in Experiment 1. |
| TimingModulatesDistanceEffect\_Exp1.csv | The dataset to run the ANOVA in Experiment 1 (by subject). |
| Codebook\_LMM.csv | Explain variable names in the .csv files in below. |
| Exp1\_LMMrcode.R | The R code to run the LMM in Experiment 1. |
| Exp1\_everyitem.csv | The dataset includes all trials (all AV, VA, and SOA trials) in Experiment 1. |
| Exp1\_AV.csv | The sub-dataset that includes all AV trials in Experiment 1. |
| Exp1\_AV500.csv | The sub-dataset that includes only AV500 trials in Experiment1. |
| Exp1\_SOA0.csv | The sub-dataset that includes only SOA 0 trials in Experiment 1. |
| Exp1\_VA.csv | The sub-dataset that includes all VA trials in Experiment 1. |
| Exp1\_VA500.csv | The sub-dataset that includes only VA500 trials in Experiment 1. |
| **In 2nd Exp.zip:** | Zip folder/Archive |
| Codebook\_ANOVA\_Exp2.csv | Explain variable names in the “TimingModulatesDistanceEffect\_Exp2.csv”  |
| TimingModulatesDistanceEffect\_DataAnalysisSyntaxExp2.txt | SPSS syntax code to run the ANOVA in Experiment 2. |
| TimingModulatesDistanceEffect\_Exp2.csv | The dataset to run the ANOVA in Experiment 2 (by subject). |
| Codebook\_LMM.csv | Explain variable names in the .csv files in below. |
| Exp2\_LMMrcode.R | The R code to run the LMM in Experiment 2. |
| Exp2\_everyitem.csv | The dataset includes all trials (all AV, VA, and SOA trials) in Experiment 2. |
| Exp2\_AV.csv | The sub-dataset that includes all AV trials in Experiment 2. |
| Exp2\_AV200.csv | The sub-dataset that includes only AV500 trials in Experiment1. |
| Exp2\_SOA0.csv | The sub-dataset that includes only SOA 0 trials in Experiment 2. |
| Exp2\_VA.csv | The sub-dataset that includes all VA trials in Experiment 2. |
| Exp2\_VA200.csv | The sub-dataset that includes only VA500 trials in Experiment 2. |

**To compute the ANOVAs for each experiment, please open the 'TimingModulatesDistanceEffect\_DataAnalysisSyntax' file and 'TimingModulatesDistanceEffect.csv' file via SPSS.**

**Please see 'Codebook\_ANOVA' for more information about the meaning of data columns.**

**To compute the LMM for each experiment, please use the R codes in 'Exp\_LMMrcode.R' and other .csv files.**

**If you want to run LMM for other SOA conditions (which were not reported in our paper), you can use subset function in R to separate those conditions from the 'Exp\_everyitem.csv' file.**

**Please see 'Codebook\_LMM' for more information about the meaning of data columns.**

**Publications**: (based on this data, if any)

Lin, C.-J., & Göbel, S.M. (2019). Arabic digits and spoken number words: Timing modulates the cross-modal numerical distance effect. *Quarterly Journal of Experimental Psychology, 72*(11), 2632-2646. doi:10.1177/1747021819854444