

Does Music Convey Social Information to Infants?

Mehr, Song<sup>1</sup> & Spelke<sup>1,2</sup>

<sup>1</sup> Wilhelm-Wundt-University

<sup>2</sup> Konstanz Business School

Author Note

Add complete departmental affiliations for each author here. Each new line herein must be indented, like this line.

Enter author note here.

Correspondence concerning this article should be addressed to Mehr, Song, Postal address. E-mail: my@email.com

## Abstract

One or two sentences providing a **basic introduction** to the field, comprehensible to a scientist in any discipline. Five month old infants were exposed to one of two novel songs containing different melodies with lyrics and rhythms being the same. Infants either heard the songs through a toy in which their parent's voice was recorded or was sung live by a friendly unfamiliar person initially and later through video recording. Infant's selective attention was tested by having them listen to two presentations of either familiar or unfamiliar songs. Infants payed attention to the familiar song, sung by their parent in the past. No infant preference was observed between the toy onto which parent's voice was recorded or a video recording of an unfamiliar person, briefly met by an infant initially. Infants in the later two conditions retained the memory of the melody for longer than 8 months. These findings suggest that songs performed by parents at home convey social meaning to a child.

Two to three sentences of **more detailed background**, comprehensible to scientists in related disciplines.

One sentence clearly stating the **general problem** being addressed by this particular study.

One sentence summarizing the main result (with the words "**here we show**" or their equivalent).

Two or three sentences explaining what the **main result** reveals in direct comparison to what was thought to be the case previously, or how the main result adds to previous knowledge.

One or two sentences to put the results into a more **general context**.

Two or three sentences to provide a **broader perspective**, readily comprehensible to

35 a scientist in any discipline.

36 *Keywords:* keywords

37 Word count: X

## Does Music Convey Social Information to Infants?

Introduction - Music is a universal phenomenon that captures our imaginations throughout our lifetime, starting from early childhood. Parents usually sing to their infants and children in a globally recognizable style of singing.

### subheader

## Methods

We report how we determined our sample size, all data exclusions (if any), all manipulations, and all measures in the study.

### Participants

### Material

### Procedure

### Data analysis

We used R (Version 3.5.2; R Core Team, 2018) and the R-packages *data.table* (Version 1.12.0; Dowle & Srinivasan, 2019), *papaja* (Version 0.1.0.9842; Aust & Barth, 2018), *pwr* (Version 1.2.2; Champely, 2018), and *summarytools* (Version 0.9.2; Comtois, 2019) for all our analyses.

```
## Warning: package 'summarytools' was built under R version 3.5.3
```

## Results

lets say we want to make a figure if we wanted to find power

```
## Warning: package 'pwr' was built under R version 3.5.3
```

```
##
```

```
## Two-sample t test power calculation
```

```
60 ##
61 ##           n = 44
62 ##           d = 0.8
63 ##       sig.level = 0.05
64 ##           power = 0.9599534
65 ##       alternative = two.sided
66 ##
67 ## NOTE: n is number in *each* group
```

```
68                                     Discussion
```

## References

Mehr, S. A., Song, L. A., & Spelke, E. S. (2016). For 5-month-old infants, melodies are social. *Psychological Science*, 27, 486-501 (???) did some experiments

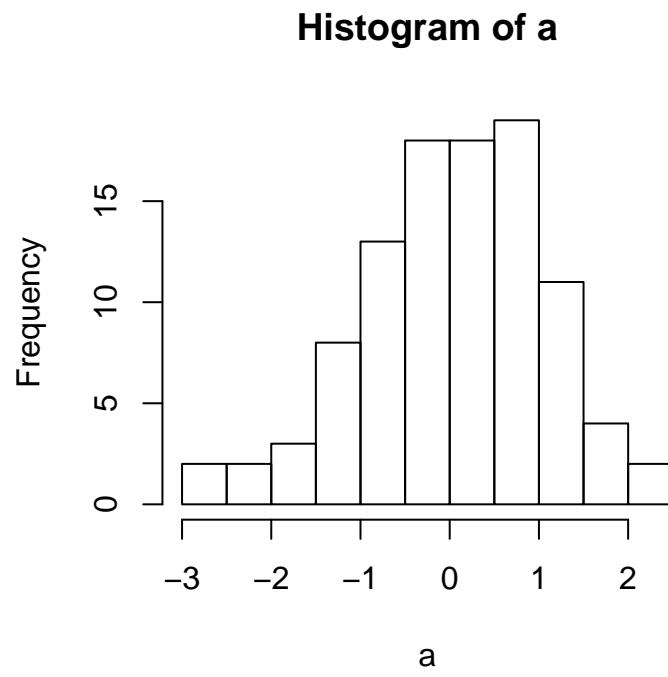
Aust, F., & Barth, M. (2018). *papaja: Create APA manuscripts with R Markdown*. Retrieved from <https://github.com/crsh/papaja>

Champely, S. (2018). *Pwr: Basic functions for power analysis*. Retrieved from <https://CRAN.R-project.org/package=pwr>

Comtois, D. (2019). *Summarytools: Tools to quickly and neatly summarize data*. Retrieved from <https://CRAN.R-project.org/package=summarytools>

Dowle, M., & Srinivasan, A. (2019). *Data.table: Extension of 'data.frame'*. Retrieved from <https://CRAN.R-project.org/package=data.table>

R Core Team. (2018). *R: A language and environment for statistical computing*. Vienna, Austria: R Foundation for Statistical Computing. Retrieved from <https://www.R-project.org/>



*Figure 1.* this is a histogram