Drs. Martin, Tsakiris, and Wagemans

Editors

*Cognition*

College Park, January 16, 2019

Dear Drs. Martin, Tsakiris, and Wagemans,

Enclosed for your consideration is an original manuscript entitled “The development of infants' responses to mispronunciations: A Meta-Analysis”.

In this study, we use a meta-analytic approach to examine the developmental trajectory of infants’ ability to detect mispronunciations in familiar words (mispronunciation sensitivity). Interestingly, and contrary to mainstream theoretical accounts, infants’ mispronunciation sensitivity is not modulated by age or vocabulary size. In an exploratory analysis, we investigate whether researchers data analysis choices may have impacted this lack of a developmental effect. Our findings have implications for the broader study of cognition, both theoretically (a key linguistic skill emerges earlier than usually thought and might invite investigations across ages and populations) and practically (analyses decisions in a standard eye-tracking paradigm have a fundamental impact on the results, calling for the standardization and critical evaluation of eye-tracking analyses pipelines).

The manuscript is not currently submitted elsewhere and will not be submitted elsewhere prior to an editorial decision. An earlier analysis of this dataset was included in the 2018 Proceedings of the Cognitive Science Society (<https://mindmodeling.org/cogsci2018/papers/0228/0228.pdf>). This analysis was based on less papers than the current manuscript and did not contain the vocabulary analysis or the analysis of data analysis choices. We therefore believe the current submission is substantially more elaborated than this Proceedings paper.

We would be very happy if you consider our manuscript for publication in Cognition.

Yours sincerely,

Dr. Katie Von Holzen

Dr. Christina Bergmann