

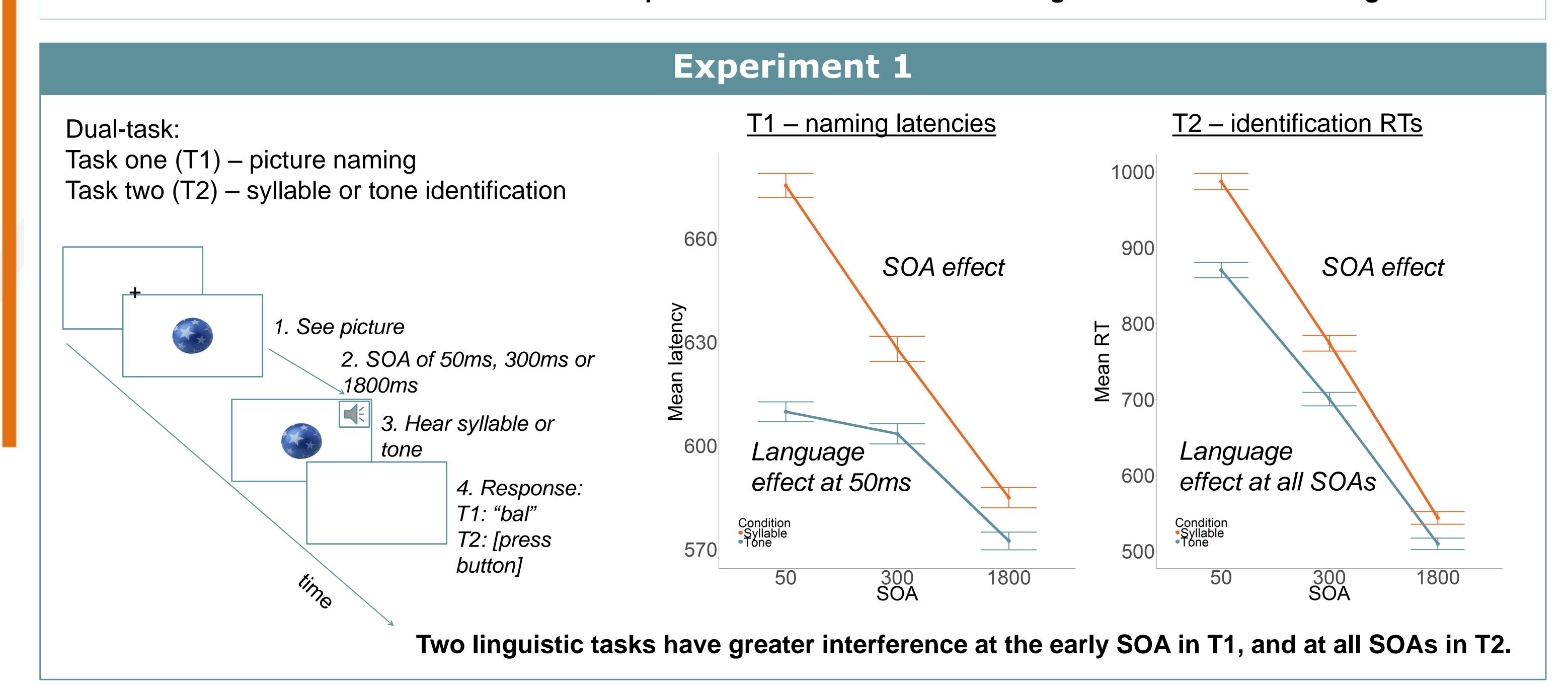
Dual-tasking in language: Concurrent production and comprehension interfere at the phonological level

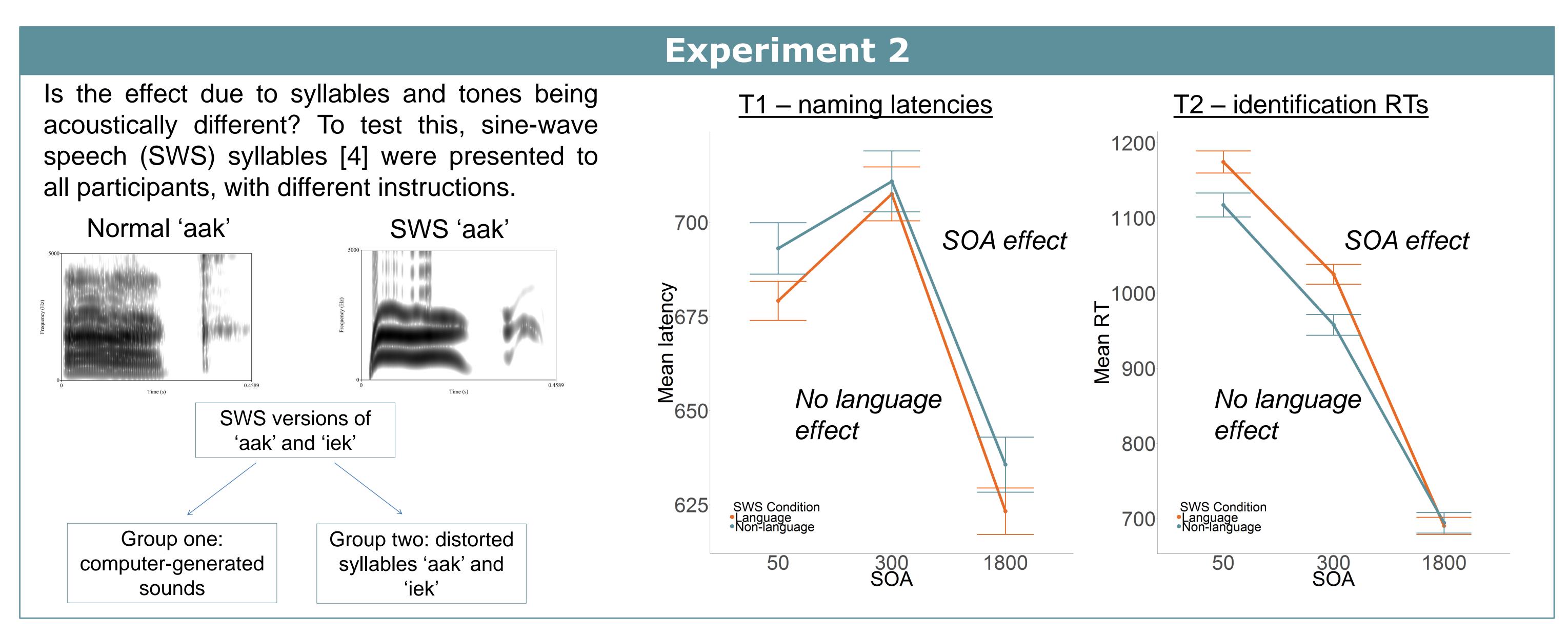
Amie Fairs^{1,2}, Sara Bögels^{2,3} & Antje S. Meyer^{2,3}

1 International Max Planck Research School for Language Sciences, Nijmegen, The Netherlands 2 Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands 3 Donders Institute for Brain, Cognition and Behaviour, Radboud University, Nijmegen, The Netherlands

During conversation, people appear to plan their speech while comprehending others [1]. However, dual-tasking research has shown that both language production and comprehension interfere with, and can be interfered with by, a concurrent non-linguistic task [e.g. 2, 3]. Little research has tested whether language production and comprehension interfere with one another in a dual-task. Here we ask:

Is there more dual-task interference when word production is combined with a linguistic than with a non-linguistic task?





Discussion & Conclusion

- There is greater dual-task interference with two linguistic tasks than one linguistic and one non-linguistic task in T1 and T2.
- The null results in Experiment 2 suggest that the complexity of language sounds may contribute to interference, but this is inconclusive.
- As the syllables are non-words without lexical representations, the greater linguistic interference is likely present at the phonological level.

Concurrent linguistic access results in interference in both production and comprehension.