LACRE 2022: abstract

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Previous studies suggest that bilinguals access their lexicon in a language non-selective way: recognising and producing words in one language activates word representations in the other (e.g., Costa, Caramazza, and Sebastian-Galles 2000; Thierry and Wu 2007). This parallel activation of both languages seems to be already present during toddlerhood (e.g., Von Holzen and Mani 2012), but its impact on the developing lexicon remains unclear. We investigated this issue by testing bilingual toddlers in a primed word recognition task adapted from Mani and Plunkett (2010). In each trial, participants were first presented with a prime picture in silence. Then, two more pictures were presented side by side, and one of them (target picture) was named in participants’ dominant language. We registered participants’ looking preference for the target picture as an indicator of word recognition. We designed three types of trials by manipulating the phonological overlap between the prime and the target labels (at word onset), and the cognate status of the prime label. Following Mani and Plunkett (2010)’s findings, we expected participants to generate an implicit label for the prime picture, which should interfere with the recognition of the subsequent recognition of the target word if both labels share phonological overlap. Under the hypothesis that bilingual participants would activate labels for the prime pictures in both languages, we further predicted that interference would be stronger after cognate primes (labels from both languages overlap with the target word) than after non-cognate primes (only the label in the language of test overlaps with the target word). We tested bilingual toddlers (and same-aged monolingual controls) at three age points (21, 25, and 30 months) to investigate how parallel activation of both languages emerged or changed across these ages, capitalising on the potential role of vocabulary size. We present preliminary data from this ongoing study, and discuss the potential implications of the current collected data on out hypotheses.

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