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## Phonological and semantic priming in American Sign Language An ERP study Brittany Lee<sup>1,2</sup>, Katherine J. Midgley<sup>1</sup>, Phillip J. Holcomb<sup>1</sup>, Karen Emmorey<sup>1</sup>, & Gabriela Meade<sup>1,2</sup> <sup>1</sup>San Diego State University, <sup>2</sup>University of California, San Diego



a smaller amplitude N400 for phonologically related signs vs. unrelated signs.

This finding is counter to another study of phonological priming in sign language<sup>2</sup>. This discrepancy is likely due to the different degrees of phonological overlap.

Behavioral and ERP results replicated semantic priming effects previously found in signed and spoken languages, with faster RTs and a smaller amplitude N400 for semantically related vs. unrelated signs.

Although there was a similar time course for phonological and semantic priming in ASL, differences in distribution (more right anterior for the phonological effect) were indicative of distinct processes.





