

## **UC Merced**

### **Proceedings of the Annual Meeting of the Cognitive Science Society**

#### **Title**

Did you say Beer, Deer, or Gear? Exploring the McGurk effect using word stimuli

#### **Permalink**

<https://escholarship.org/uc/item/6q14911w>

#### **Journal**

Proceedings of the Annual Meeting of the Cognitive Science Society, 46(0)

#### **Author**

Getz, Laura

#### **Publication Date**

2024

#### **Copyright Information**

This work is made available under the terms of a Creative Commons Attribution License, available at <https://creativecommons.org/licenses/by/4.0/>

Peer reviewed

# Did you say Beer, Deer, or Gear? Exploring the McGurk effect using word stimuli

Laura Getz

University of San Diego, San Deigo, California, United States

## Abstract

The McGurk effect is a demonstration of the multimodal nature of speech perception; listening to /b/ while watching visual mouth movements for /g/ is expected to result in a “fusion” perception of /d/. A majority of studies on the effect use isolated syllables, whereas our goal was to enhance ecological validity by examining word stimuli. We varied task (forced-choice vs. open-ended) and stimuli (words vs. non-words) between participants. In the word condition, all three stimuli formed words (e.g., beer/deer/gear), and in the non-word condition, the B, D, or G stimulus was a word while the other two were nonwords (e.g., besk/desk/gesk). Fusion responses were much lower than in previous studies, but importantly, participants showed the most fusion responses when the D stimulus was a word and B and G were non-words. These results challenge assumptions about the underlying mechanisms of the McGurk effect, arguing against a purely perceptual illusion.