11-2013

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Does bilingual fluency moderate the disruption effect of cultural cues on second-language processing?

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Zhang et al. (1) argued that cultural priming disrupts bilinguals’ second-language (L2) processing because of interference from first-language (L1) structures that are activated by heritage-culture images. Although these findings are compelling, we have some concerns about the study.

First, the researchers measured English fluency by words spoken per minute after extraneous words (e.g., repetitions and self-corrections) were pruned. Despite the assumed effectiveness of this technique, speech rate analysis that focuses solely on temporal qualities cannot adequately capture the multi-faceted nature of fluency (2), which entails not only speed fluency (i.e., speech rate) but also breakdown fluency (e.g., mean length of pauses), and repair fluency (e.g., repetitions). Without considering pause times and other aspects of speech, slowed speech alone may not necessarily reflect other notable disruptions in language processing. This is especially true given that the researchers’ method overlooked the quality of speech produced with regard to participants’ lexical diversity or grammatical accuracy.

Second, the authors argued in Study 3 that faster recognition for literal-translation trials occurred because of the heightened accessibility of Chinese lexical structures. It should be noted, however, that there are alternative interpretations of this phenomenon. In general, faster recognition occurs because of various meta-memorial factors including but not limited to enhanced familiarity, greater confidence, and ease of recognition. Moreover, given that the literal-translation recognition task required, at its core, searching for Chinese compound names, reliance on L1 was not only necessary but also logical. Thus, fast response can be attributed to more adaptive and strategic responses that better meet the context of a specific speech act.

Third, the authors failed to consider that their Chinese-English bilingual participants’ L2 proficiency could have potentially skewed the study’s outcome. Since insufficient exposure to L2 increases L1 dependence, the recent immigrants who participated in the study with relatively low L2 proficiency should have been subject to greater L1 interference, especially when L1 representations were activated by cultural cues. In contrast, the literature
suggests that high L2 proficiency increases interference control (4), and that highly proficient bilinguals should be subject to less disruption in their L2 processing despite L1 interference.

Lastly, Zhang et al. contended in Study 4 that the increased use of literal translations throughout the object-naming task reflected a heightened accessibility to Chinese lexical structures, which affected their selection during English production. Their argument is based on the assumption that structures from L1 and L2 compete for selection, regardless of bilingual proficiency. The literature, however, suggests that highly proficient bilinguals are quite competent at selecting and producing words from only one of their lexicons despite the parallel activation of both languages (5). Therefore, it is possible that the intrusion of L1 lexical structures in the production of L2 could be specific to bilinguals with low proficiency, but not to those with high proficiency. Given the aforementioned concerns, it is warranted that the moderating role of language proficiency should be examined to elucidate the scope of this phenomenon and the true significance of Zhang et al.’s findings.

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