

Does orthography influence speech production? Cross-linguistic evidence using different picture-naming paradigms

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Time : 10:30 am – 11:30 am
Venue : LI-1301, 1/F, Li Dak Sum Yip Yio Chin Academic Building, CityU
Moderator : Dr. Dannii Yeung (Associate Professor)
Language : English

Abstract

Speech production requires the activation of phonological representations. Phonological representations are converted into phonetic codes, and further into articulatory-motor commands to orchestrate the movements of the jaw, the lips, and the tongue involved in speaking. Crosstalk between phonological and orthographic codes is possible. Consider reading or writing: reading aloud requires the conversion of written codes (spelling, orthography) into phonological codes, while writing-to-dictation includes the conversion of phonological codes into orthographic ones. However, one theoretically important question for the cognitive architecture of the language system is in how far these representations are independent of each other and whether orthographic codes play a role even when not strictly needed, for instance, in picture naming.



In this talk, the Speaker will introduce a widely accepted model of speech production and demonstrate the role of phonological segments during speaking. Then the Speaker will present several studies from different labs, including his own, that provide evidence for orthographic priming, even in language production situations that do not involve written representations of language, and from languages that lack a one-to-one mapping between orthographic units (i.e., graphemes, letters) and phonological units (i.e., phonemes, sounds). The implications of these findings for models of speech production will be discussed.

Biography

Prof Schiller is a full professor of psycho- and neurolinguistics at Leiden University Centre of Linguistics (LUCL), Leiden University (The Netherlands). He was the academic director of LUCL between 2016-2020 and has been serving in several Management Teams of Leiden University since 2006. Prof Schiller has published more than 125 articles in Web of Science journals and more than 6,000 citations on Google Scholar and Research Gate. The total amount of his grants exceeded 3 million Euros. Prof Schiller had more than 30 PhD advisees successfully graduated. Besides fundamental research, Prof Schiller is also involved in some applied research, such as SpeechView.

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