

PURDUE UNIVERSITY

## SLHS WEEKLY SEMINAR

# *"A COMPREHENSIVE MODEL OF INTERFERENCE AND CONTROL IN LANGUAGE PRODUCTION."*



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The notion of the domain-generality of cognitive control is used widely and loosely in many areas of psychology. Researchers correlate performance on a task of interest with performance on tasks such as Flanker, Stroop, and Simon, to determine the involvement of "domain-general" cognitive control. Language has not been exempt. In this talk, I will focus on two sources of interference often observed in language production: contextual similarity and a prepotent distractor. Using behavioral, electrophysiological, and neuroimaging data, I will demonstrate that these two types of interference and their mechanisms of resolution are fundamentally different. I will then show that even within one kind of interference, domain-specific representations play a key role, limiting the functional domain-generality of cognitive control. I will end by presenting a computational model that captures all of these effects.



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and Hearing Sciences

**MONDAY, APRIL 27, 2026 | 12:30 - 1:30 PM**

LYLES-PORTER HALL 1160