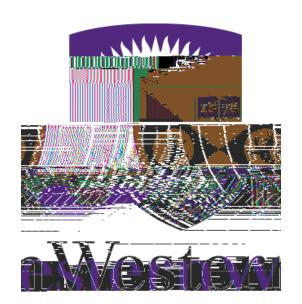
Parallel implicit and explicit processing mechanisms in statistical language learning

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Introduction

- O Statistical learning refers to the discovery of patterns in the input
- O The learning of word boundaries can occur through an **implicit** computation of **transitional probabilities**, which are statistically predictive relationships between syllables (Saffran et al., 1996)
- O Statistical learning is considered a **domain-general** resource (Kirkham et al., 2002), although **domain-specific interference effects** have not been investigated in detail

Method

Participants

Procedure

Artificial Language Stimuli

- O Six trisyllabic "words" generated from 12 CV syllables
- Only cue to word boundaries were the **transitional probabilities** between syllables

putibu bupada pidadi babupu dutaba tutibu

Explicit Working Memory Task

Implicit Learning Test Phase

Results

Note: "#\$%&'(%)*+,!-&. /\$0!1. (\$+&%2!')2'3'2/+,,4!*. !1.)*&. ,0!/0')-!\$,+))%2! 0'(\$,%!1.)*&+0*05!!

bolded values are p < .05