## The impact of acquisition context on the affective perception of swear words

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### Background

#### **Background**

- Bilinguals report that their second language as less emotional cannot swear cathartically in it as compared to their first<sup>2</sup>.
- Bi-dialectals have different patterns of use for taboo words, retain taboo understanding regardless of use<sup>3</sup>.
- Late Positive Component (LPC): Explicit, emotional proces **Research Question**

Can the affective perception of words be influenced by the con which they are acquired, even within L1?

### Methods

- Participants: Native speakers of American English (N=25, ag 21, cis-female: 14; cis-male: 11; right handed: 23)
- Materials: 30 American Taboo words (AT), 30 British Taboo (BT), 30 negative words, 30 positive words, and 120 neutral
- Norming studies: Native speakers of American English (N= British English (N=63) participated in the norming of
  - Valence (Scale 1-9)
  - Arousal (Scale 1-9)
  - Taboo (Scale 1-9)
  - Comprehension (Scale 1-5)

Right: Example of stimulus presentation for the lexical decision task.



# wanker $285 \mathrm{ms}$

### References

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		Methods: Stimuli							
al <sup>1</sup> ,		Native Dialect	Rating	American Taboo	British Taboo	Negative	Positive	Neutral	
, but			Example	slut	wanker	mangy	giggle	salute	
ssing <sup>4</sup> .		American	Valence	3.7	3.8	3.9	6.8	5.2	
			Arousal	5.0	4.6	5.0	5.0	4.8	
ntext in			Taboo	5.9	4.2	1.8	1.6	1.7	
			Comprehension	4.5	3.7	4.4	4.5	4.4	
		British	Valence	3.7	3.8	3.9	6.8	5.2	
.ge: 18-			Arousal	3.0	2.6	2.5	3.5	2.6	
			Taboo	4.9	4.2	2.1	1.7	1.7	
) words			Comprehension	4.5	4.5	4.2	4.5	4.3	
=63) and	Behavioral Results								
1000 ms		1.00 0.95 0.90 0.85 0.80 0.75 0.70 0.65 0.60 0.55 0.50 AT	* * * BT Negative Word Type	*   Positive	Overall, BT words had lower accuracy and slower RTs than all other conditions. AT and positive words had the highest accuracy, however only positive words showed facilitation in RTs.				
ficient bi- gy of		Left:Avera	ge accuracy for each cates	6 6 20Y	80 60 T	*	ſ		

of words in LDT. Rigth: Average RT for each categoy of words in LDT. \*significantly differ from all other categories.

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RM-ANOVA of resulting ERPs showed that American taboo words showed an increased amplitude of the late positive complex (LPC) as compared to all other categories of words. British taboo words did not differ significantly from any category of non-taboo words.



dotted lines) for pseudowords vs other conditions

### Discussion and Conclusions

- affective perception of said word.
- Contextual interaction matters for word learning
- as words.

### ERP Results

• Social context is required to acquire a complete understanding of a word and alters the

• While taboo words from the native dialect showed differences in later, explicit

language processing, words from the non-native dialect that were still considered taboo showed no difference in processing from non-taboo words.

• That is, despite knowing that the word *wanker* is offensive, speakers of American English do not process it the same way as a word like *asshole* 

Similarities in N400 confirm that despite being non-native BT words are still processed

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