# **Drop the beat & miss T2: How various dimensions of** music influence attentional failures

Jessica Madrid, Arryn Robbins, & Michael C. Hout

## Emotional distractors and the attentional blink

• It is well established that emotional distractors enhance attentional control in demanding tasks such as the attentional blink paradigm. (Olivers & Neiuwenhuis, 2005) When inducing moods using music, the interaction of emotional valence and level of arousal have unique effects on second target accuracy detection. (Jefferies, Smilek, Eich, & Enns, 2008)

# Methods

Design We used a 2 x 2 x 2 x 2 x 2 mixed design. Musical valence, rhythmicity, and arousal were the primary between-subjects factors. The presentation of music (music or not) was a within-subjects factor. Also manipulated within-subjects was the lag between T1 and T2. N= 193



### Results





- However, it is unclear how these dimensions, along with rhythmicity specifically influence attention.
- The current study aims to disentangle how emotional valence, arousal, and rhythmicity affect the attentional blink.

Symphony

Strings

Arousal

**Attentional Blink Task** The attentional blink task is a rapid serial visual presentation (RSVP) task. Trials began with a centered fixation cross. Participants then viewed a stream of letters and were told to identify the two numbers that appeared (T1 and T2). Each letter or number appeared for 75ms with a 15ms pause before the next item. The lag between T1 and T2 varied between 1-5 items. There were a total of 22 letters used (excluded l, o, q and z) and numbers used were 1-9.



