

Infant attention, movement, and socio-emotional responses to live musical performances in a group timing. entrainment. music perception. context Haley E. Kragness¹, Bryna Berezowska², & Laura K. Cirelli¹ ¹University of Toronto Scarborough ²CultureLink

- Lullabies and play songs are believed to serve universal functions and have demonstrable effects on infant affect, behavior, and physiology (e.g. Bainbridge, Bertolo et al., 2020; Cirelli et al., 2020; Rock et al., 1999)
- Music is often experienced in group settings, and there has been recent interest in investigating the social and affective underpinnings of collective musical experiences

Method

• How do infants respond to musical performances in a group context?

Participants

- 56 infants (6-18 months, 32 boys, 24 girls)
- Infants were tested in two groups, but manipulations were within-subjects

Procedure

- Parents and infants attended an event in downtown Toronto performed by professional musicians (two singers trained in opera, one pianist, one auxiliary percussionist). They heard each song type (lullaby/play song) twice with a break in between, once in each interactive context (passive/interactive). The entire session lasted around 20 minutes.
- Cameras were placed around the audience to capture all infants' faces
- Infant behaviours were transcribed in ELAN by coders blind to the audio and to the hypotheses.

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- effect of song type (p's < context
- Attention to show:
- Attention to others



Infants' rhythmic movements in the passive condition increased with self-reported "parent music-making" at home

- song type (p = .343)
- Music@Home Questionnaire (Politimou et al., 2018).
 - different goals
 - and socially dynamic contexts
- attention were affected only by song type, not interaction context.
- Ongoing work \rightarrow emotional contagion, live vs. recorded, behaviour + physiological responses

Results

Proportion of time that infants moving rhythmically (passive condition only) was not affected by

• Counter to expectations, proportion of time moving rhythmically did not increase with age Frequency was positively associated with the Parent Music-Making subscore of the

• "Make music regularly during playtime", "Make music everyday", "Make music once or twice a week"

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of time r	0.1	10
portion (0.0)5
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Discussion

Much previous research has demonstrated affective and behavioural differences between infants listening to songs with The present study demonstrates that those effects extend beyond the lab and are apparent even in highly distracting, novel, The boost in positive affect was limited to cases where the song style was active and interaction was high, but objects of





