# Brains On! the Move: STEM Podcasts as Facilitators of Automobile-Based Family Learning Experiences. | #1907014

PI: Amy Grack Nelson (Science Museum of Minnesota), agnelson@smm.org

Co-PI: Molly Bloom (Brains On!), molly@brainson.org

Check out the Brains On! podcast

### **Project Description**

The goals of this project are to study 1) how STEM-based kids podcasts can mediate joint media engagement and family learning in a unique learning space, an automobile, 2) how family members engage with the content and each other in this setting, and 3) the affordances of a vehicle-based environment for learning.

## **Key Achievements**

- We collected video data from 32 families and 4 case study families.
- We've learned how to successfully carry out family-facilitated video data collection in a vehicle environment.

#### **Audience & Settings**

**Audience**: Families with children ages 6-12; Media developers; ISE practitioners, researchers, and evaluators

**Disciplinary area**: General STEM

Learning environment: Vehicle listening environment

#### **Access and Inclusion**

We used a maximum variation sampling technique to purposefully sample for certain characteristics (i.e.race/ethnicity, gender identity, LGBTQ families) to ensure our findings are representative of a broad range of listener families (beyond the current typical podcast listening audience).

# Brains On! the Move: STEM Podcasts as Facilitators of Automobile-Based Family Learning Experiences. | #1907014

This material is based upon work supported by the National Science Foundation under grant 1907014. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.

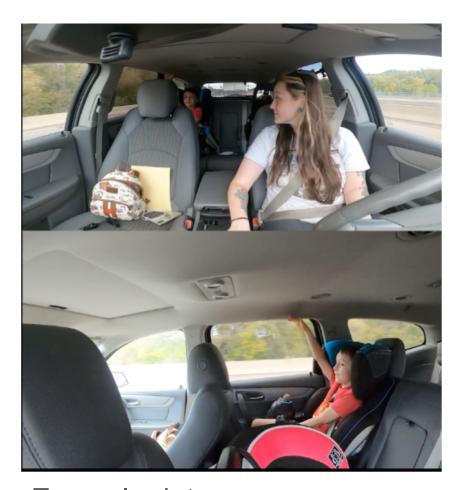




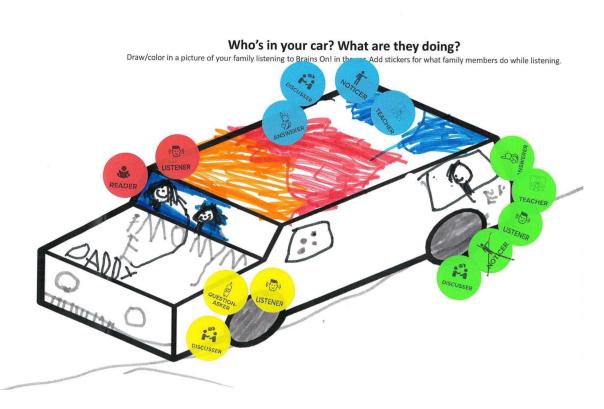




Our data collection set up - Go Pro cameras and wireless mics



Example data:
Joint media engagement while listening to Brains On!



Family interview activity:
What each family member does
while listening



I like to play on my phone or tablet

**GAMER**