Interactive Music Dashboard

Welcome to the Interactive Music Compositional Dashboard!

Explore various visualizations and analyses to enhance music therapy sessions for children with Autism Spectrum Disorder (ASD). Our dashboard offers the following plots:

Interaction Data:

Interaction data is the data collected from 6 participants during the pilot deployment of uCUe.

Sankey Diagram	+

CoVariance Matrix	+

Bar Graph with Error Charts	+

Full Session Diagram	+

Time Series Plot	+

Musical Data:

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Sankey Diagram   —

Description: The Sankey Diagram illustrates the transitions between different audio layers within each song. It provides a visual representation of the flow from one layer to another, showing how participants navigate through the musical layers during the session. Example: Sankey Diagram shows the transitions between layers like "Added Voice," "Drum 1," "Ambient," and "Melody." The thick lines show many transitions. For example, "Drum 1" has many transitions to other layers, as shown by the thick lines going out from it. This helps us understand which layers are connected and how the music moves from one sound to another during the session.

CoVariance Matrix   +
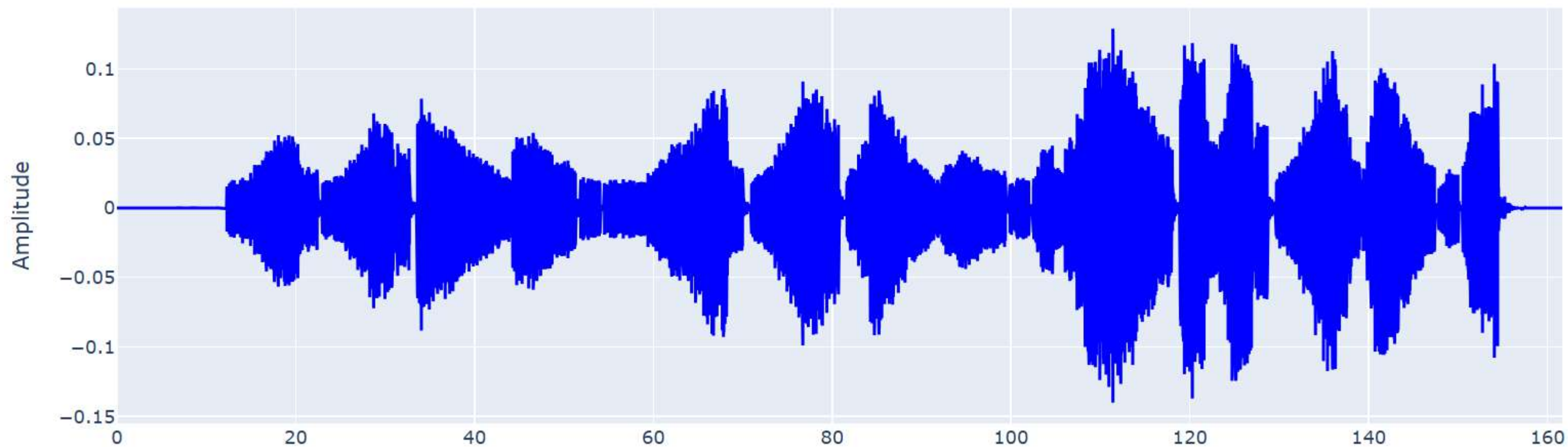
Audio Analysis

| Ants Go Marching ▾ | Melody 1 ▾ | Waveform |

Waveform for Ants Go Marching - Melody 1
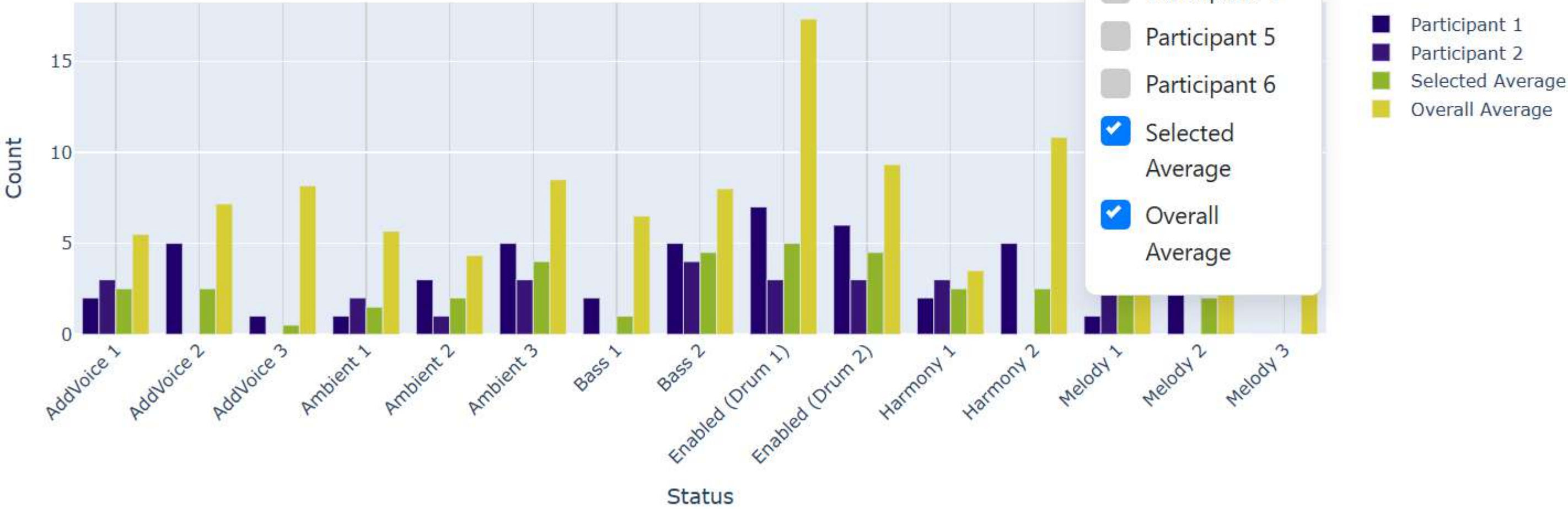
Participant Analysis

| Ants Go Marching ▾ | Bar Graph with Error Charts ▾ | Status ▾ | **Select Participants** |

- ☑ Participant 1
- ☑ Participant 2
- ☐ Participant 3
- ☐ Participant 4
- ☐ Participant 5
- ☐ Participant 6
- ☑ Selected Average
- ☑ Overall Average

Bar Chart with Counts for Status

Legend:
- ■ Participant 1
- ■ Participant 2
- ■ Selected Average
- ■ Overall Average

Y-axis: Count

X-axis (Status): AddVoice 1, AddVoice 2, AddVoice 3, Ambient 1, Ambient 2, Ambient 3, Bass 1, Bass 2, Enabled (Drum 1), Enabled (Drum 2), Harmony 1, Harmony 2, Melody 1, Melody 2, Melody 3

Individual Analysis

Row Row Row ▾   **Select Participant(s)**

Full Session Plot for Row Row Row - Participant 1

Legend:
- Melody - Melody 2
- Melody - Melody 3
- Melody - Melody 1
- Harmony - Harmony 2
- Harmony - Harmony 1
- Added Voice - AddVoice 2
- Added Voice - AddVoice 1
- Bass - Bass 2
- Drum 1 - Enabled (Drum 1)
- Drum 2 - Enabled (Drum 2)
- Ambient - Ambient 3
- Ambient - Ambient 1
- Ambient - Ambient 2