EXP3\_Stim\_Times.xlsx

Spreadsheet

EXP3\_USV.xlsx

Spreadsheet

use seaborn to create peri-event time histogram comparing stim\_times to USV over days

ChatGPT

To create a peri-event time histogram comparing stimulation times to ultrasonic vocalizations (USVs) over multiple days using Seaborn, we'll need to:

1. Load the data from the provided Excel files.
2. Process the data to align USVs with stimulation times across days.
3. Create the peri-event time histograms using Seaborn.

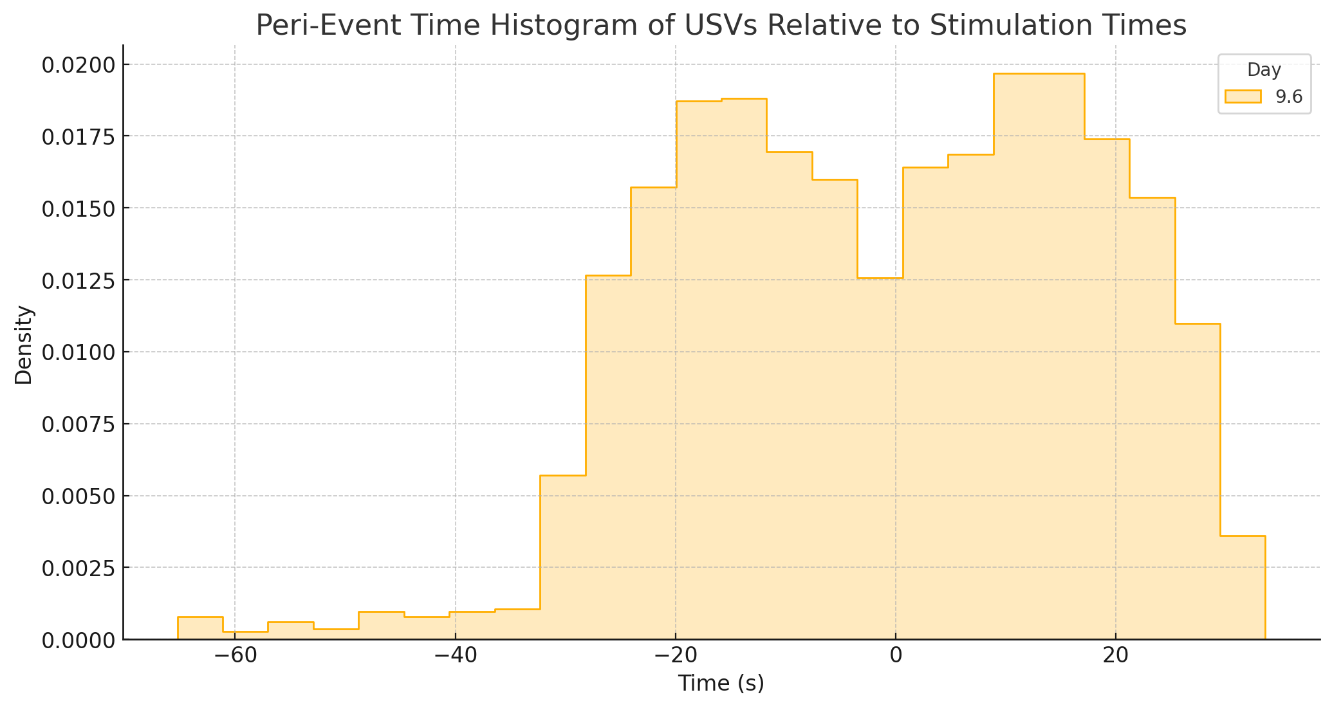
Let's start by loading and examining the data from the Excel files. I'll write the necessary Python code to achieve this.

The stim\_times\_df contains the columns Stim\_Times and Offset\_Last\_Beep, while the usv\_df contains columns Start\_Time, Stop\_Time, and Offset\_Last\_Beep.

To create peri-event time histograms, we need to align USVs with stimulation times across different days. We will:

1. Align USVs relative to the nearest stimulation time.
2. Create a combined dataset for visualization.
3. Plot the peri-event histograms using Seaborn.

Let's proceed with the data processing and visualization. ​​



Here is the peri-event time histogram of ultrasonic vocalizations (USVs) relative to stimulation times, plotted over multiple days. Each histogram shows the density of USVs around the stimulation events, with different colors representing different days.

If you need further customization or analysis, please let me know! ​