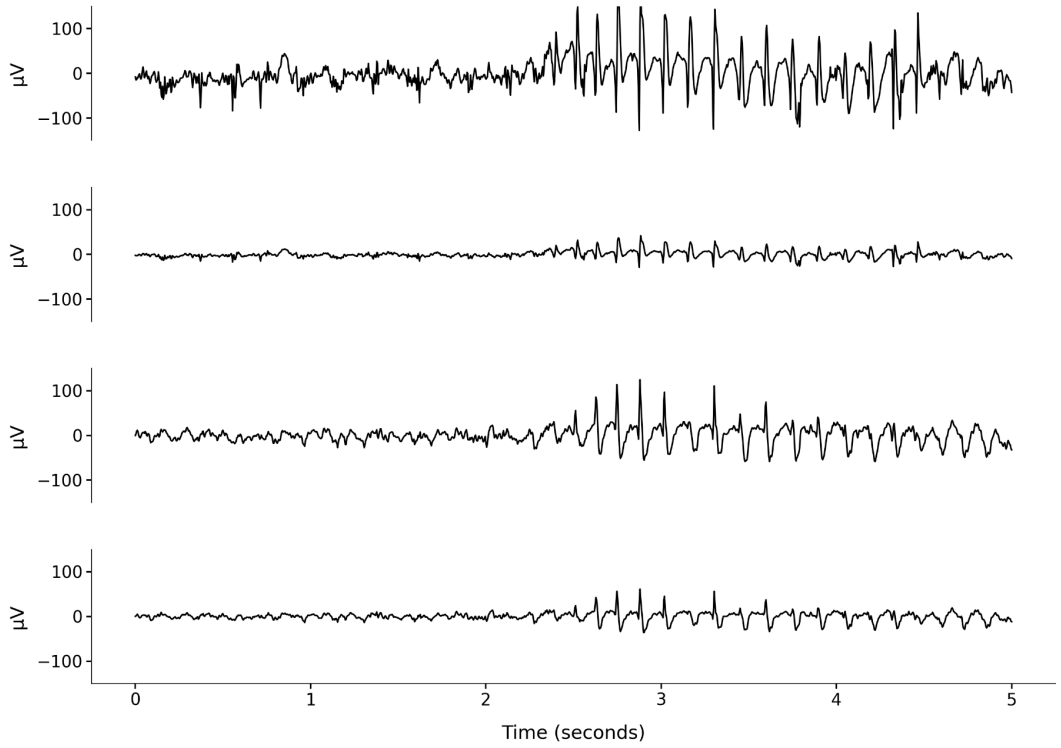
Plotting example snippets of EEG data

This script loads a single recording file using the MNE package (v1.6.1) in python (v3.12) and plots a 5-10 second snippet of data from 4 selected channels using Matplotlib (v3.8.3). The output of the script should appear as the figure below saved as a .png into the output folder specified in the script.

Output file:



Instructions:

1. Navigate to the main function and enter the recording file you want to use in the recording_folder parameter

```
recording_folder =
'/Volumes/Sarah/SYNGAPE8/DATA/SYNGAPE8/12W/SYNGAPE8_2780/TAINI_1048_2780_EM4-
2024_04_05-0000.dat'
```

2. Edit the output path to the desired folder you want to save the output figure into

```
output_figure_path =
'/Volumes/Sarah/SYNGAPE8/OUTPUT/SYNGAPE8/12W/SYNGAPE8_2780/'
```

3. Enter the EEG channels you want to plot in eeg_channels parameter

```
eeg_channels = [5, 8, 9, 10] # change these to the channels you want to plot
```

4. Navigate to the crop_by_start_and_end function and enter the start and end time in seconds of the snippet of EEG data you want to plot. tmin is the start or minimum time and tmax is the end of max time.

```
cropped_raw = custom_raw.crop(tmin=137943, tmax=137947) # crop up to 10
seconds for example plotting
```

Note : if you are not sure about the section of EEG data you want to plot, plot the whole recording in an interactive plot and search for a snippet you want to plot and note the start and end times in seconds

5. If you want to edit the name of the .png saved, navigate to the plot_example function and enter in the name you want the file to be saved as

```
plt.savefig(output_figure_path + '/' + 'ExampleTrace_0100.png', dpi=200
```