**Instructions for U3.2 – EMG analysis**

Remove all files from BMIcourse. Open VS code.

At terminal, write

git clone <https://github.com/vpapadourakis/BMIcourse.git>

**Task 1**

Read and run the code once for a given subject/date pair. Find and examine the saved figure.

**Task 2**

Uncomment lines 10-11 and run the file again. See all produced pngs.

**Task 3**

Change line 96 to plt.show(block=True) and run the code again on only one subject (lines 10-11). This will enable the interactive plot window.

**Task 4**

Find an appropriate threshold, relative to the data maximum (line 44)

**Task 5**

Think of a way to process the data so that EMG is transformed to “force level”.
Force level should take values from 0 to 1 and should be above threshold in every “on epoch” of the task. Save force level to processed\_data to plot later. Implement your code at line 40.

**Task 6.**

Verify that your method works reasonably well on all subjects.
Set plt.show(block=False) and run file for all subjects. Examine the figures.