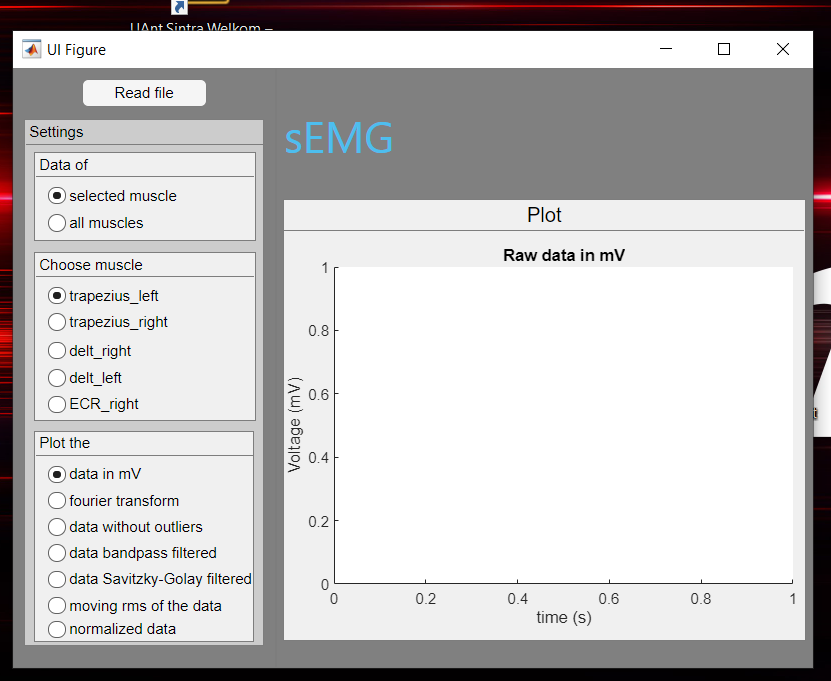
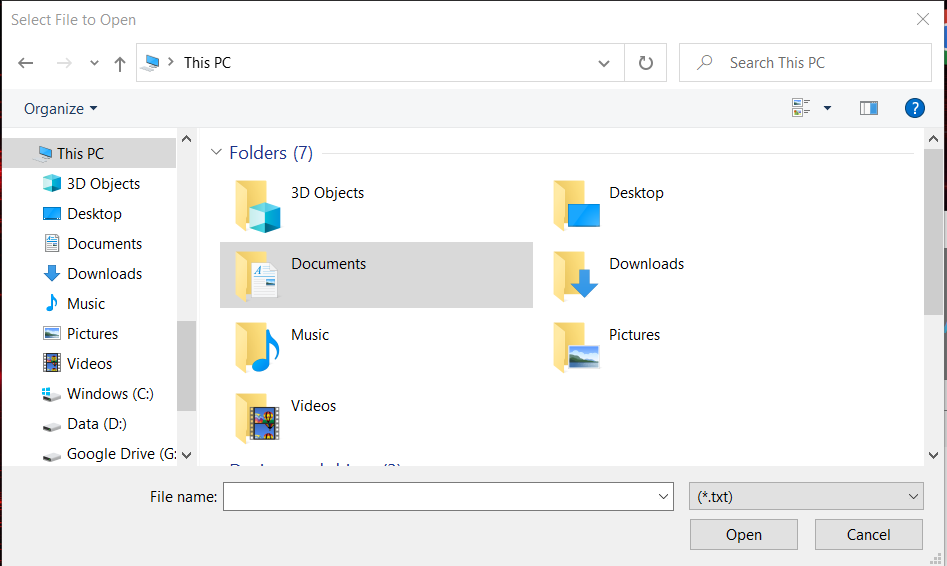
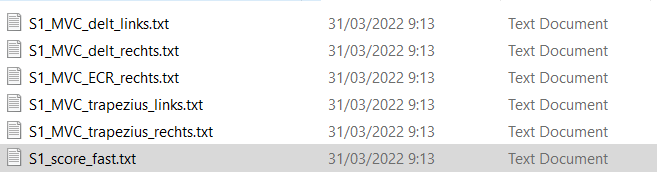
Helpfile

# Read in data

For reading in the data you click on the “Read file” button.

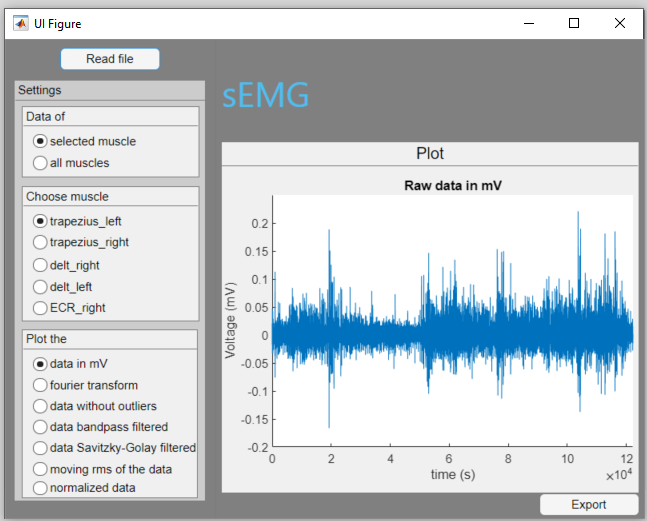


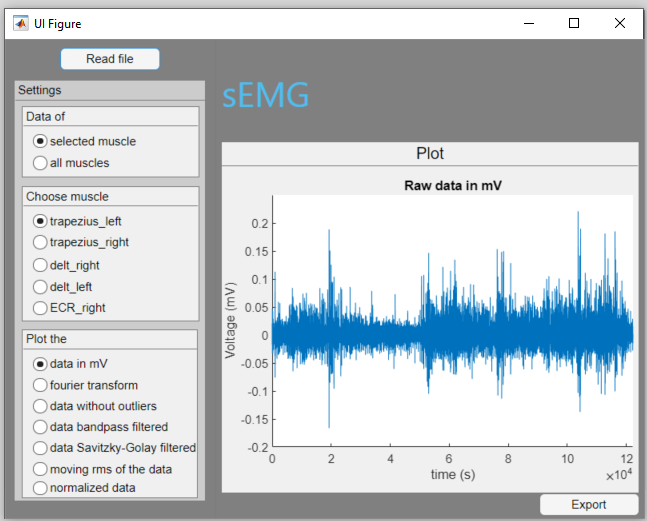
Then a new window opens where you can select a file. 

This file must have the form “S<number>\_<name of file>.txt”. This file must also be in a folder with the files needed for the normalization. These files must have the following form: “S<same number as original file>\_MVC\_<muscle>\_<links or rechts>.txt”. The next figure is an example.

Then everything is calculated and you can see the graphs.

Then here you can choose if you want to see one specific muscle or all the muscles on the graph.



Underneath, you can choose a specific muscle if the select muscle is selected in the field above. 

Then underneath this, you can choose what you want to plot.

You can plot a fast Fourier transform of the data, you can filter the outliers and plot this. Here you can select the number of deviations that an outlier can be away from the mean. The window size parameter is the number of samples are used to take the mean of, to replace this outlier.

*Screen of outlierremoval*

Then you can apply a bandpass filter. Here you can choose the cutoff frequencies of this bandpass filter.

*Screen of bandpasfilter*

You can also filter the data with a Savitzky-Golay filter. Here you can set the order and frame length.

*Screen of savitzky filter*

You can plot a moving RMS window. Here the windowlength and the overlap can be set.

*Moving rms*

You can also plot the normalized data. This data is normalized according to the values of the MVC files.

At the bottom there is an Export button that saves 3 files to the place where the app runs. First a settings.txt file is created. Here you can find the settings used to become the following data. Then there are two new data files created “Processed Data after normalization.csv” and “Processed Data before normalization.csv”. This is the processed data both before and after the normalization.