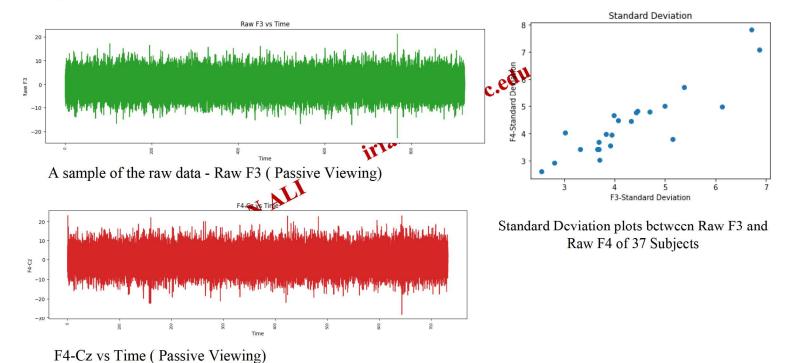


#### Step-1

- In step1, we have plot the raw data from the three categories- Resting, passive and active.
- We compared the variations of F3-CMA, F4-CMA; and F3-CMA; F4-CZ for the three categories.
  We compared the Standard Deviation F3 against Fundamental active.

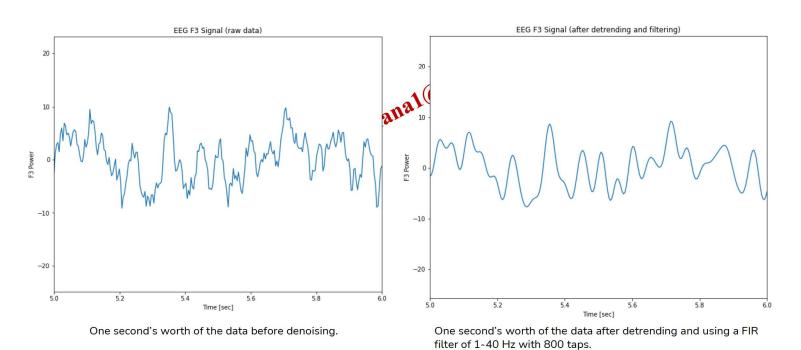
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## Figure 1



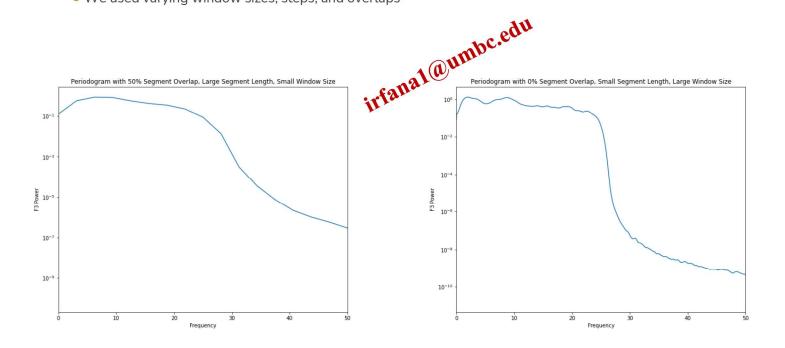
## Figure 2

#### Before and After Denoising



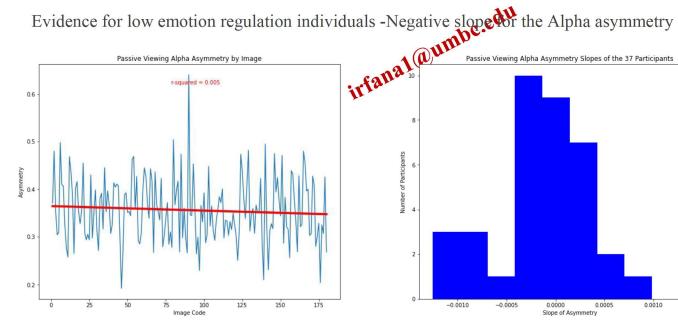
### Figure 3

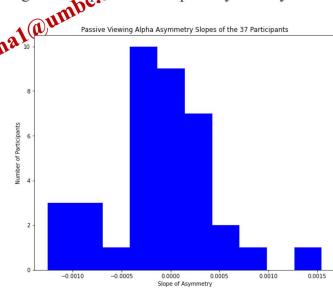
- ullet For the resting state data, we used Welch's method to measure alpha power (8-12Hz)
- We used varying window sizes, steps, and overlaps



#### Figure 4

- The plot shows linear (or categorical) regression of the F3-F4 asymmetry for the images in the passive viewing condition We used the resting state asymmetry as a baseline
- Also we have a histogram of the regression coefficients for each of the 37 participants

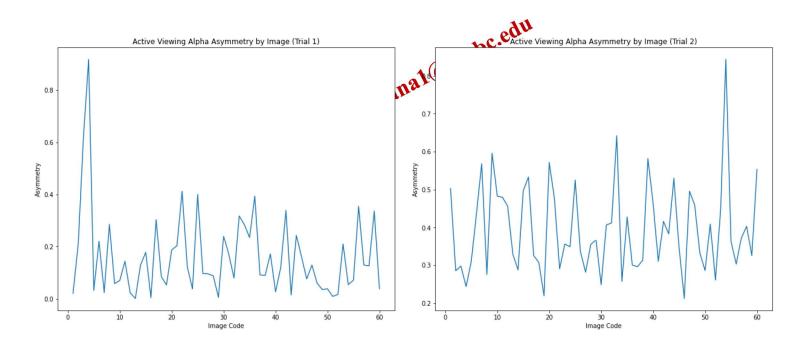




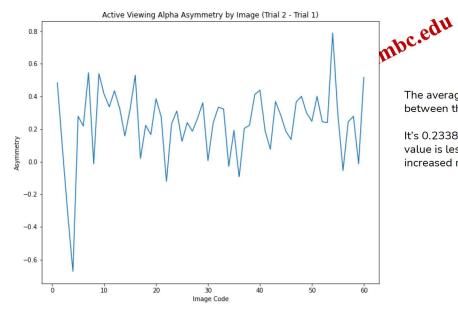
- The next plots shows the relationship between emotion regulation directiveness and the frontal alpha asymmetry
  As suggested it may be worth modeling the effect of the mage on the rating and then using the residuals of that model against the asymmetry.

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## Figure 5-Average Alpha Asymmetry by Image



# Figure 6- Average Difference Between Trials



The average asymmetry difference between the first and second viewing is very significant

It's 0.23389403116670848, and the max asymmetry value is less than 1, meaning that the alpha asymmetry increased more than 20% between trials on average.