

# EEE5502 Foundations of Digital Signal Processing Code 7

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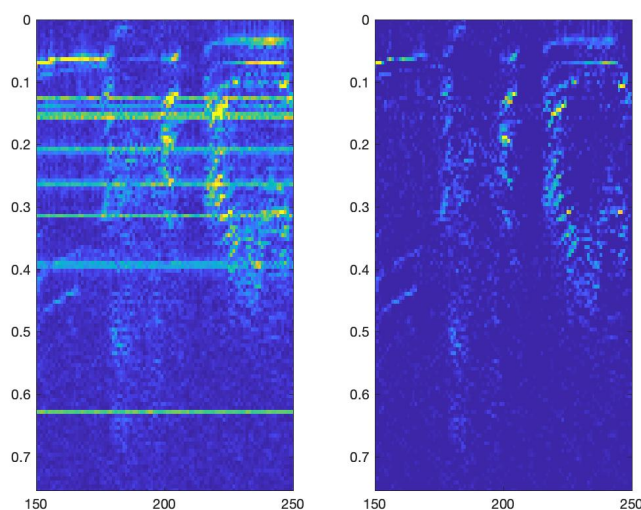
## Question #1:

I spent 2 hours.

## Question #2:

I add another variable  $\lambda$  as an input to the function “sift\_func.mat”, and the window size  $W$  is set to be 1000,  $\lambda$  is set to be 0.9.

The image of the STFT before and after the spectral subtraction processing is shown below, we can observe that before spectral subtraction processing, there is a lot noise, the spectral subtraction processing gets rid of them.



The original speech and the reconstructed noise-free audio is shown in the plot below:

