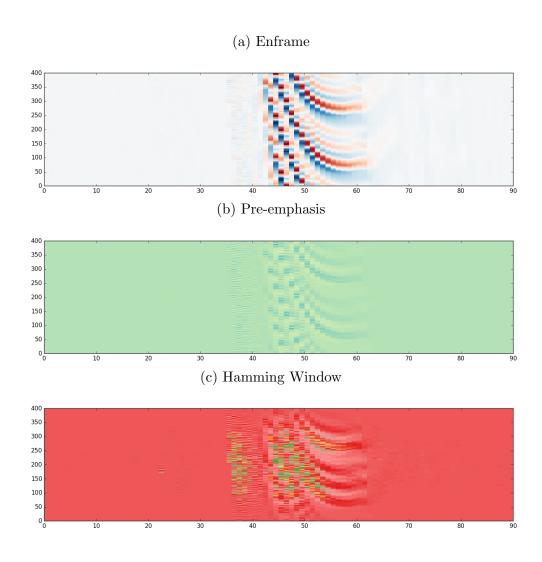
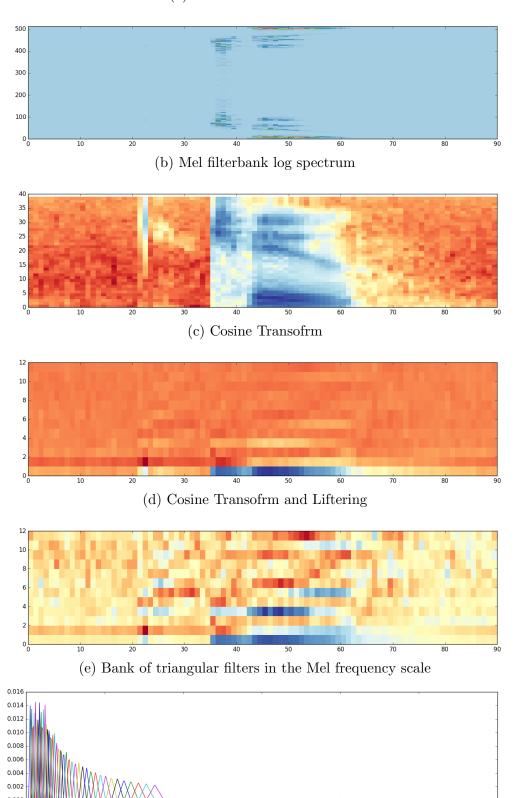
# Speech and Speaker Recognition DT2119 "Lab1: Feature extraction"

April 7, 2017

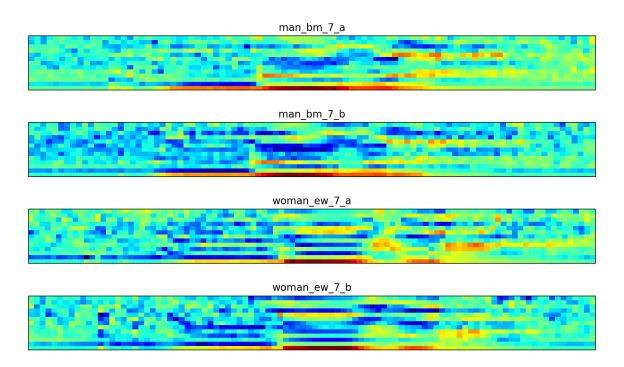
## 4 Mel Frequency Cepstrum Coefficients



#### (a) Fast Fourier Transform



#### (a) MFCC for different utterances



### 5 Feature Correlation

Figure 4: MFCC correlation

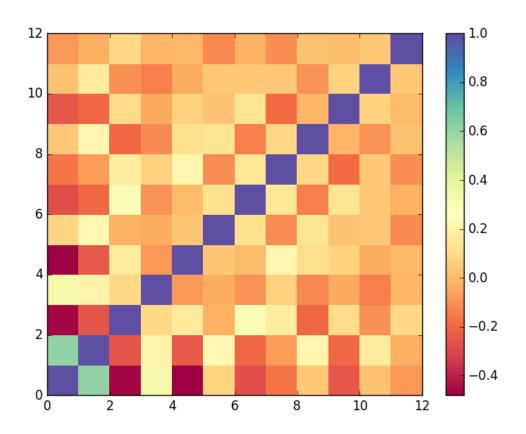
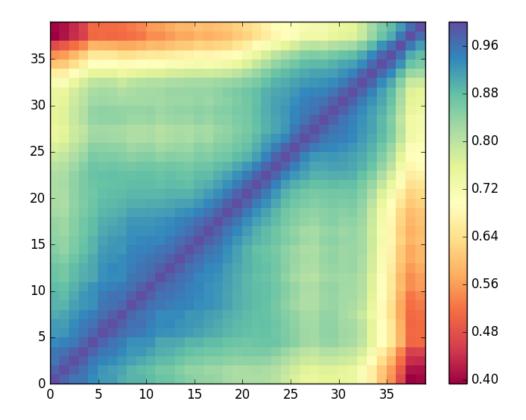
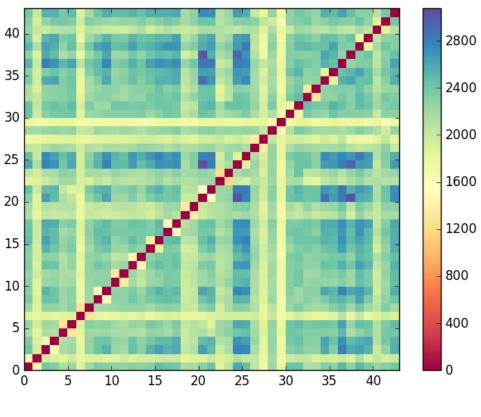


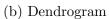
Figure 5: Mel filterbank correlation

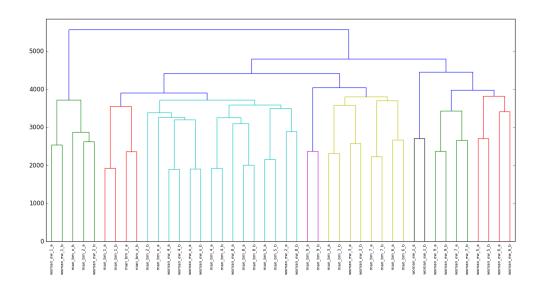


## 6 Comparing Utterances

(a) Global Distances between utterances







# 7 Explore Speech Segments with Clustering

