**ECE 8527: Introduction to  
Machine Learning and Pattern Recognition**

# HW No. 6: Hidden Markov Models (HMMs)

Reproduce the results shown in this tutorial:

*https://medium.com/@natsunoyuki/hidden-markov-models-with-python-c026f778dfa7*

Reproduce the plots shown in this tutorial and include those in your submission.

Hidden Markov Models (HMMs) with Gaussian mixture distributions are a very powerful way to model and classify signals that have both a temporal and spectral component, since the model learns the temporal structure of the data using a Markov process.