

## CS295-7 Homework #1

*Due Feb 2*

This assignment is designed to be easy. Its goal is to get you up and running in matlab and comfortable with the data. Most of what you need to complete this assignment is in the example script below.

Download the training and test data:

[http://www.cs.brown.edu/courses/cs295-7/Data/training\\_data.mat](http://www.cs.brown.edu/courses/cs295-7/Data/training_data.mat)  
[http://www.cs.brown.edu/courses/cs295-7/Data/test\\_data.mat](http://www.cs.brown.edu/courses/cs295-7/Data/test_data.mat)

Run the cosine tuning script that was presented in the second class:

[http://www.cs.brown.edu/courses/cs295-7/Scripts/cosine\\_demo.m](http://www.cs.brown.edu/courses/cs295-7/Scripts/cosine_demo.m)

Use the learned model parameters (regression coefficients, etc.) to decode the test data. Hand in your commented code along with the  $x$  and  $y$  component-wise correlation coefficient and mean square error between of the test trajectory and the model-predicted trajectory.