

## Problem Set 3

*Lecturer: Prof. Peter Chin**Due: July 26, 2017*

- ◇ Please email your written problems (must be typed), code and report to [zhouxiao@bu.edu](mailto:zhouxiao@bu.edu) by 23:59PM on the due date.
- ◇ Late policy: there will be a penalty of 10% per day, up to three days late. After that no credit will be given.

**1. (60 points) Written Problems**

- (a) (20 points) Bishop 5.3
- (b) (20 points) Bishop 5.4
- (c) (20 points) Bishop 5.26

**2. (120 points) Programming**

DO the exercise found [http://ufldl.stanford.edu/wiki/index.php/Exercise:Sparse\\_Autoencoder](http://ufldl.stanford.edu/wiki/index.php/Exercise:Sparse_Autoencoder)  
Turn in all the .m files and the final "weights.jpg" file.