

PubH 7445: Homework Assignment 6

October 21, 2019

Due Wednesday, October 28, 2019

Please hand in a print-out of your answer and R code, and also email your R code to the TA (sealx017@umn.edu).

1. Problem 6.2 from Foulkes text
2. Problem 6.5 from Foulkes text
3. Problem 7.1 from Foulkes text
4. Problem 7.2 from Foulkes text
5. Using SNPs in the *actn3* and *resistin* genes from the FAMuss dataset, develop classifiers using random forests, K nearest neighbors and support vector machines for predicting the variable *NRDM.CH*. Compare these classifiers using ROC curves and discuss your conclusions.