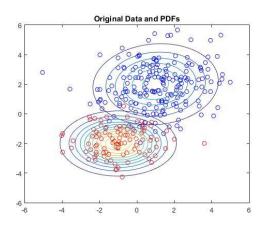
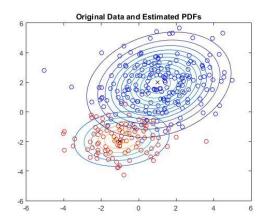
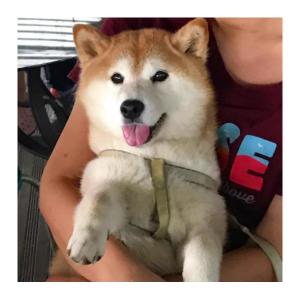
4105109 Computer Vision Assignment #2 – Image Segmentation by Gaussian Mixture Model

Deadline: 11/19(Thu) 11:59 p.m.





- 1. Trace the matlab code of Gaussian Mixture Model. Write your report:
 - Part 1: Trace the code to understand how EM algorithm works for GMM (GMM_Examples_v2014_08_04: GMMExample_2D.m). Get to know each parameter in this method and each variable in this code. Write detailed program comments to explain each line (what it calculates? how it calculates?). Indicate the parameter update equations in EM algorithm specifically.
- 2. Use two Shiba dog images for segmentation.
 - Training 3, 5, 10 Gaussian mixtures models. Perform image segmentation for two Shiba dog images.
 - Compare the results and discuss how to obtain better segmentation maps.





Note:

- Hand in the matlab codes, GMM code with comments and the report on E-Course.
- Assignment format
 - Zip all your files into a single one and upload it to the E-Course website.
 - Please format the file name as:

Student ID_proj2_verNo ex: 602410143_proj2_v1