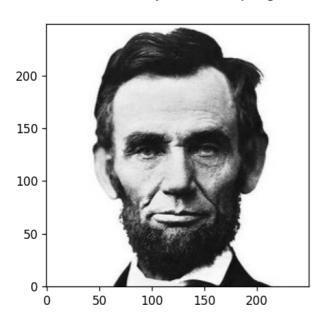
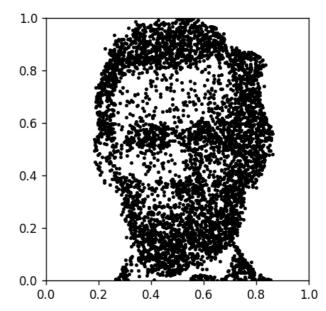
HOMEWORK-3

Question 1

• Rejection Uniform Sampling

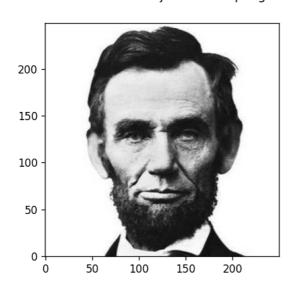
Rejection Sampling with Uniform Proposal Distribution

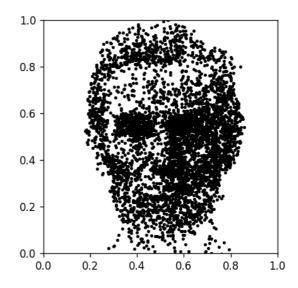




• Rejection Normal Sampling

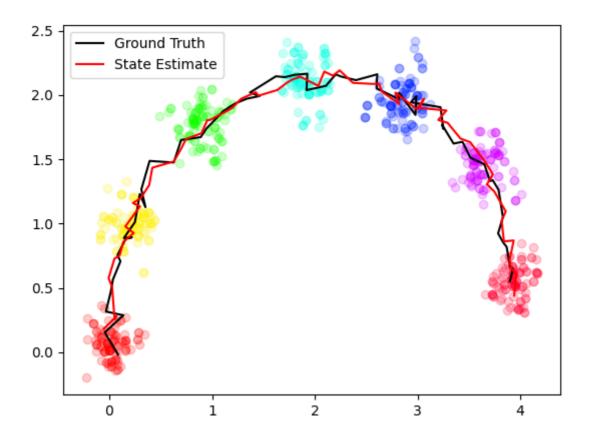
Rejection Sampling with Gaussian Proposal Distribution





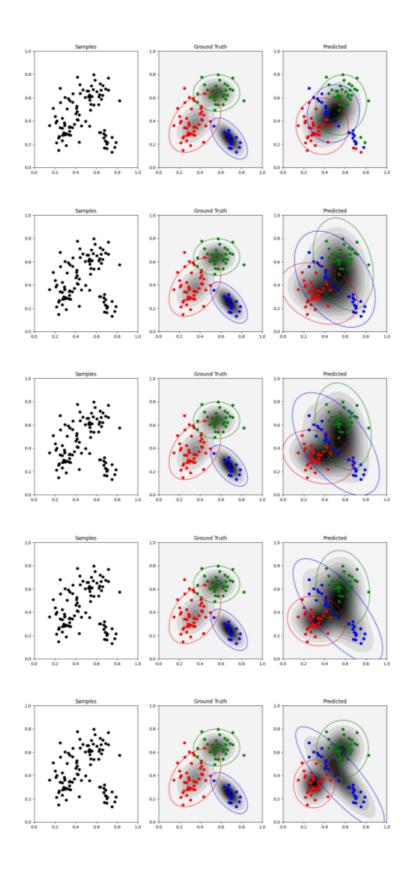
Question 2

• Particle Filter



Question 3

• Non Converging GMM EM



• Converging GMM_EM where initial mean and sigma were set closer to the real value for test

