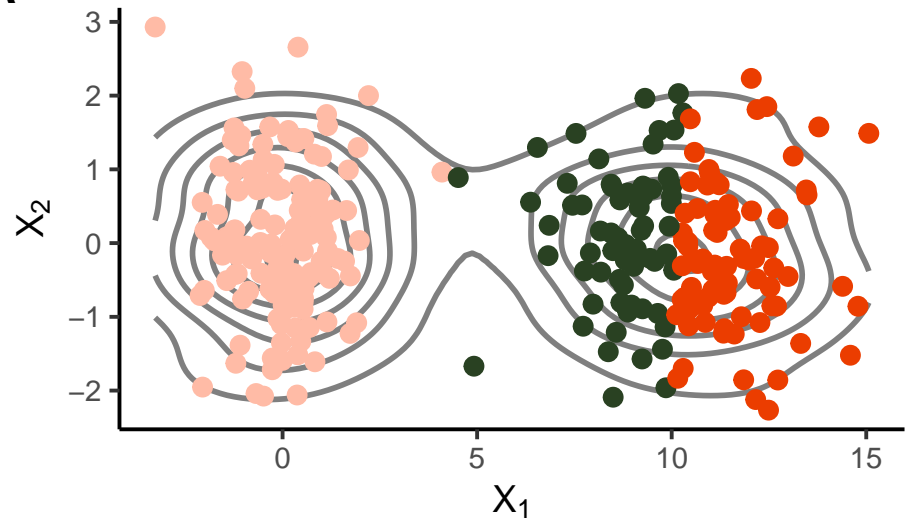
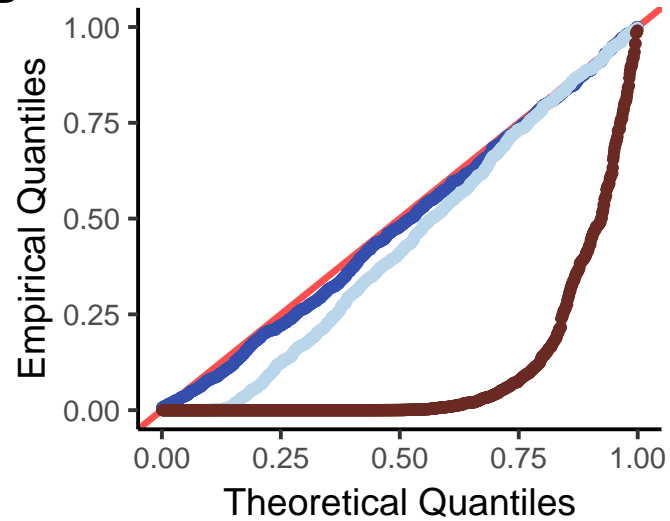


**A**

— Original data

Clusters

 $C_1$  $C_2$  $C_3$ **B**

Variance estimation

• True intra-cluster variance

• Estimated intra-cluster variance

• Global variance