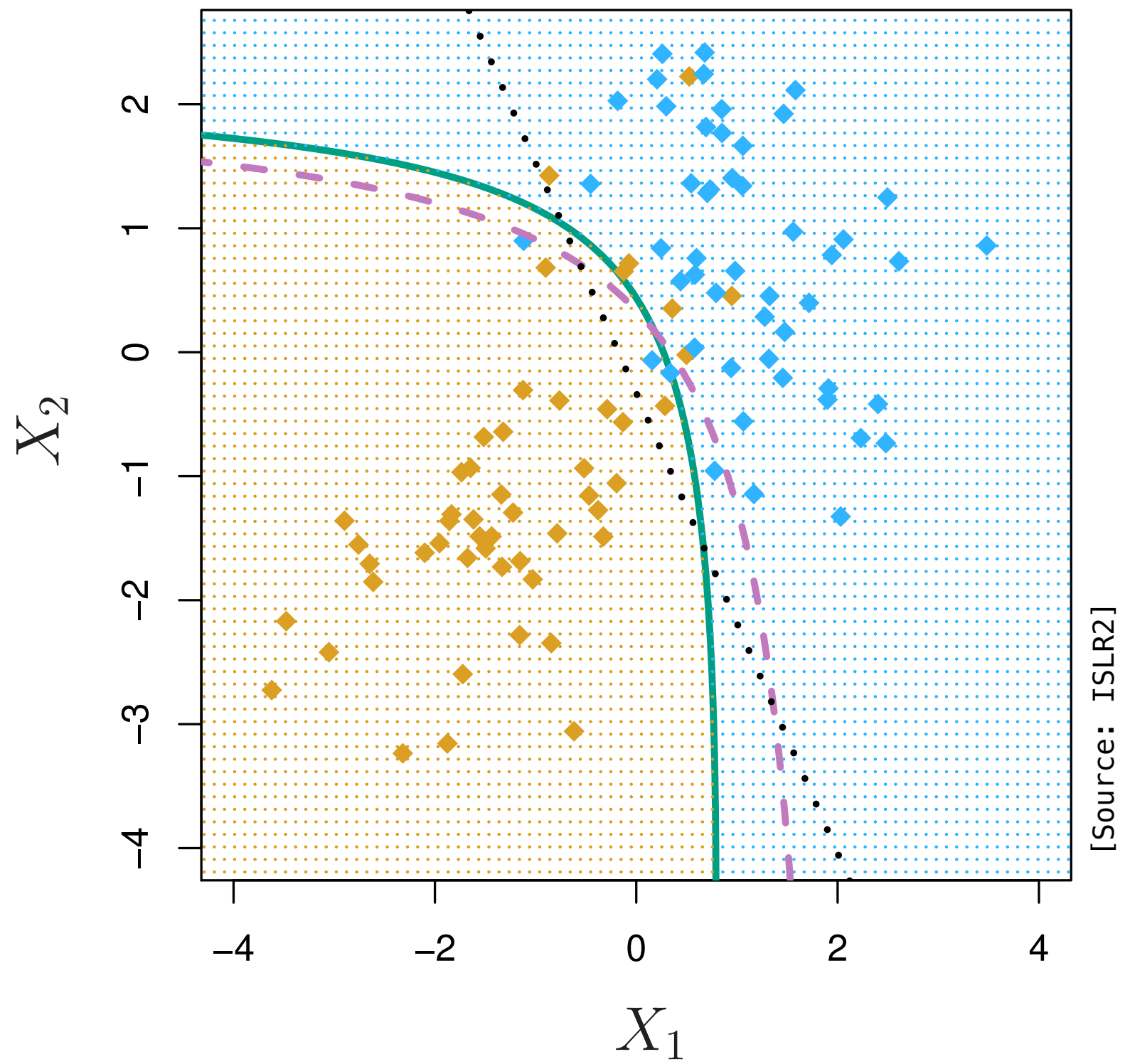
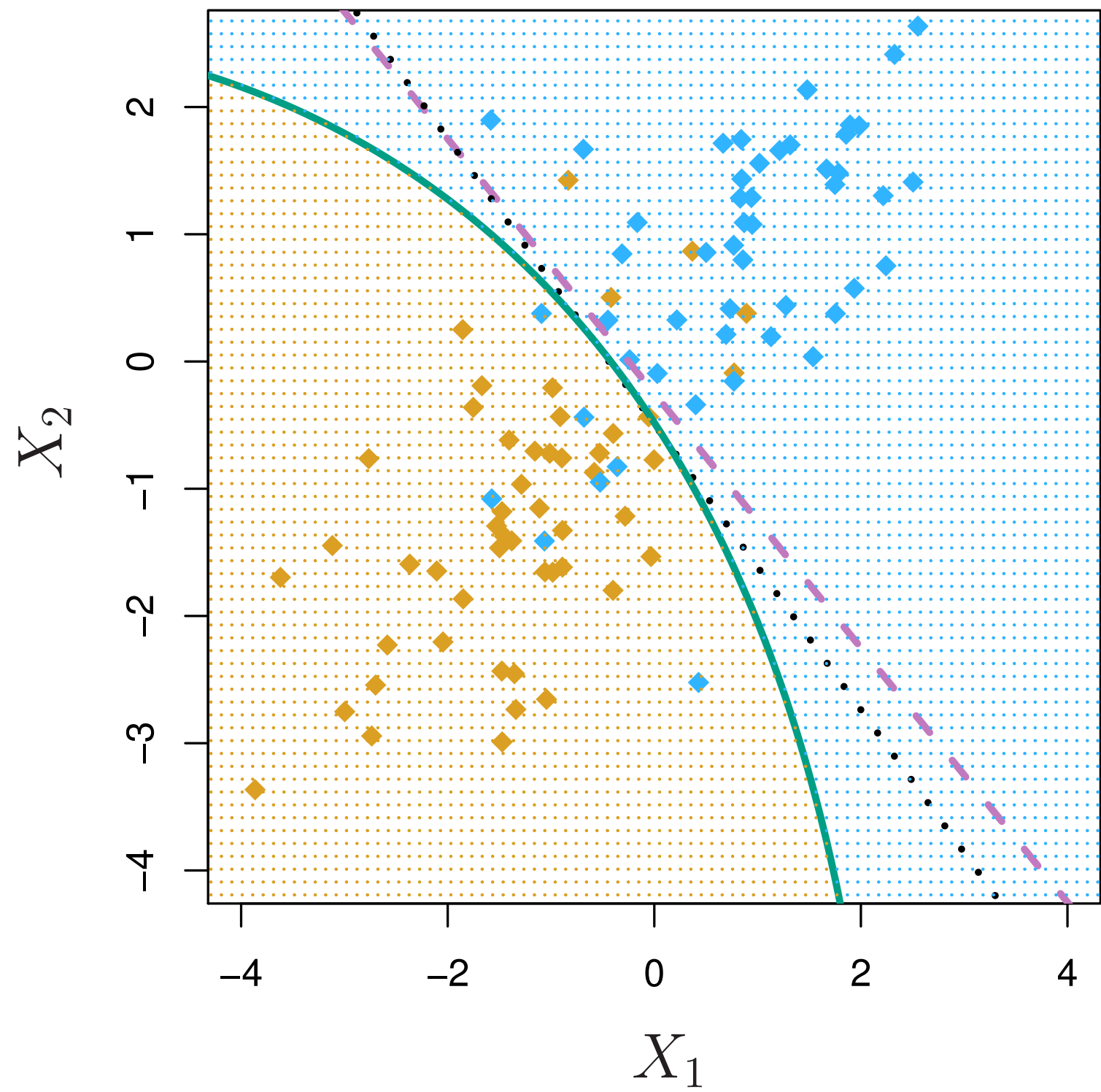


Quadratic Discriminant Analysis (QDA)

does not assume a normal distribution



• **LD** **A** uses a linear decision rule (less flexible)

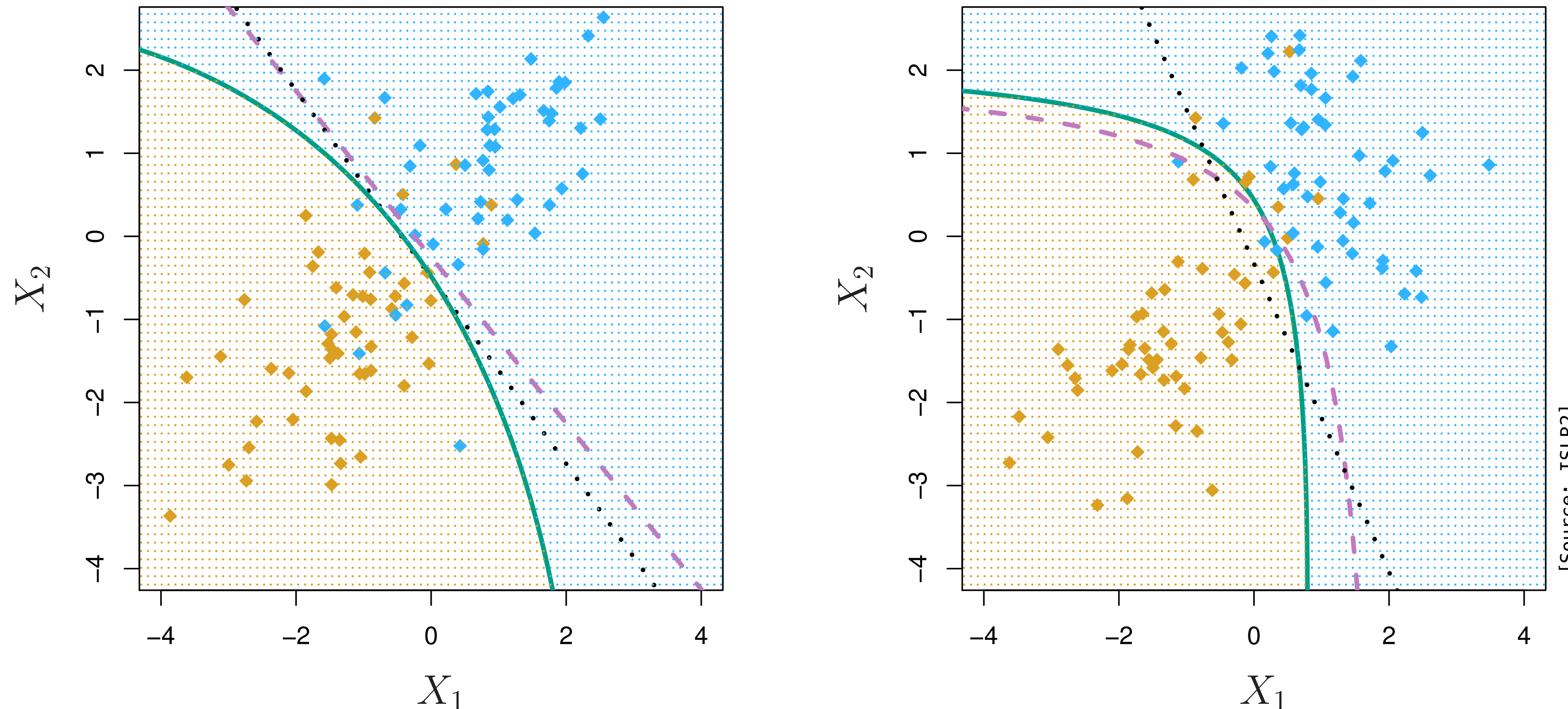
-don't train such that it uses a covariance matrix for each

• QD uses a quadratic decision rule (more flexible)

- allows each class k to have a different covariance matrix

Quadratic Discriminant Analysis (QDA)

does not assume a common covariance across classes for these MVNs



- LDA uses a linear decision rule (less flexible)
 - constrains such that it uses same covariance matrix for each class
- QDA uses a quadratic decision rule (more flexible)
 - allows each class k to have a different covariance matrix

KNN vs. Logistic Regression vs. LDA vs. QDA