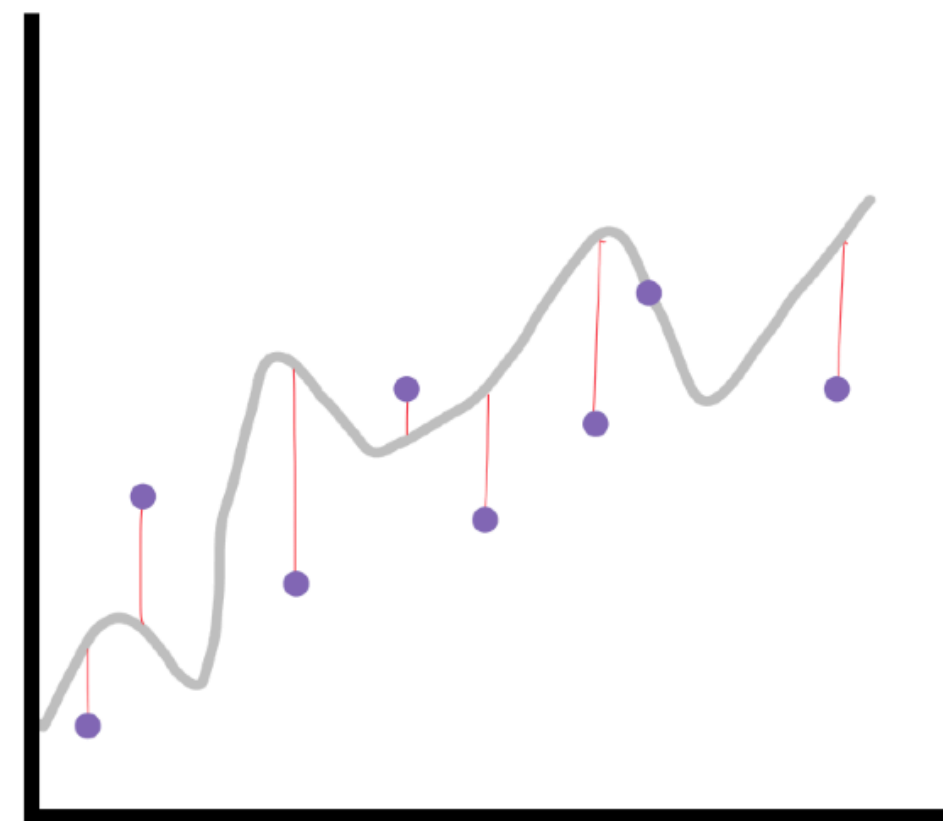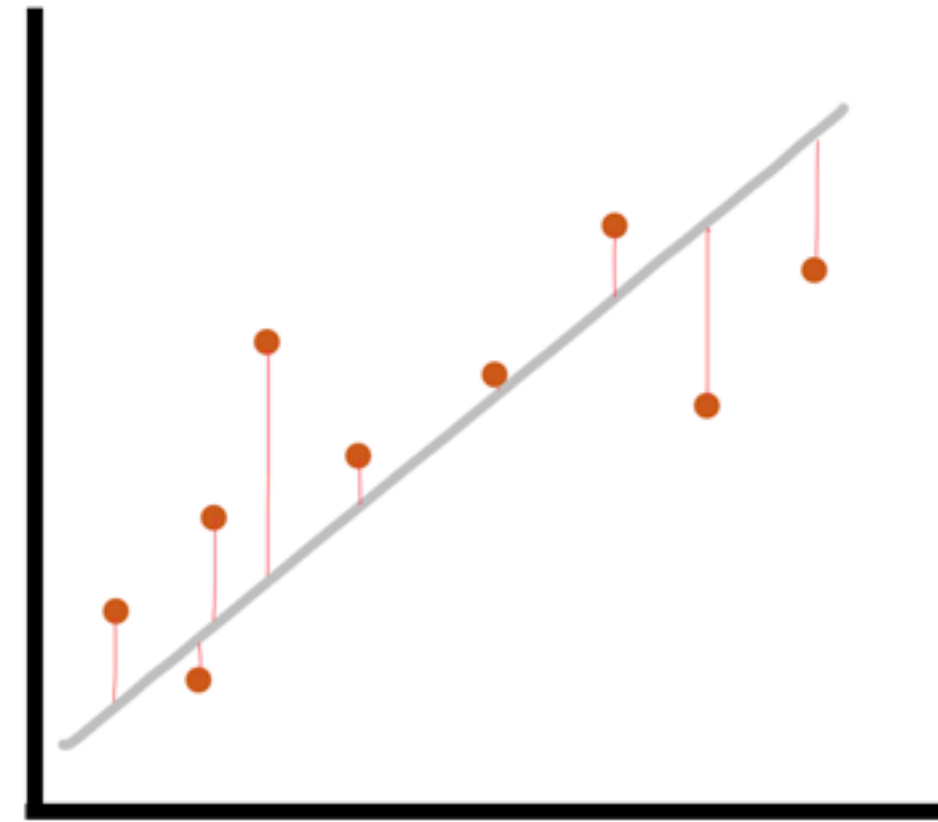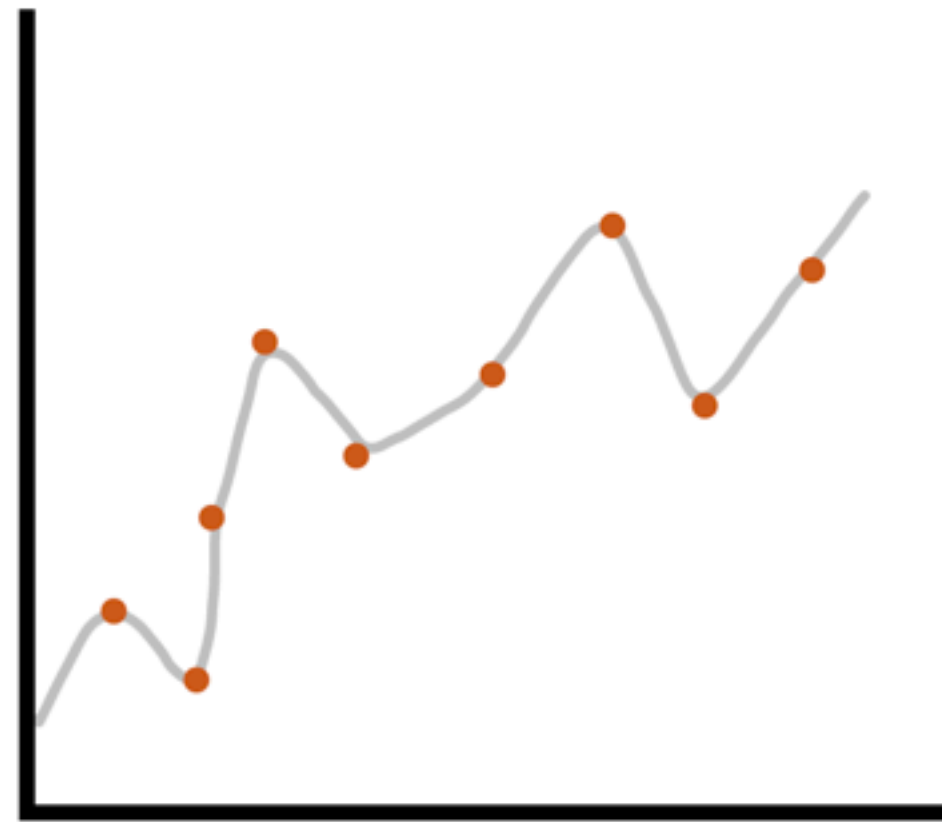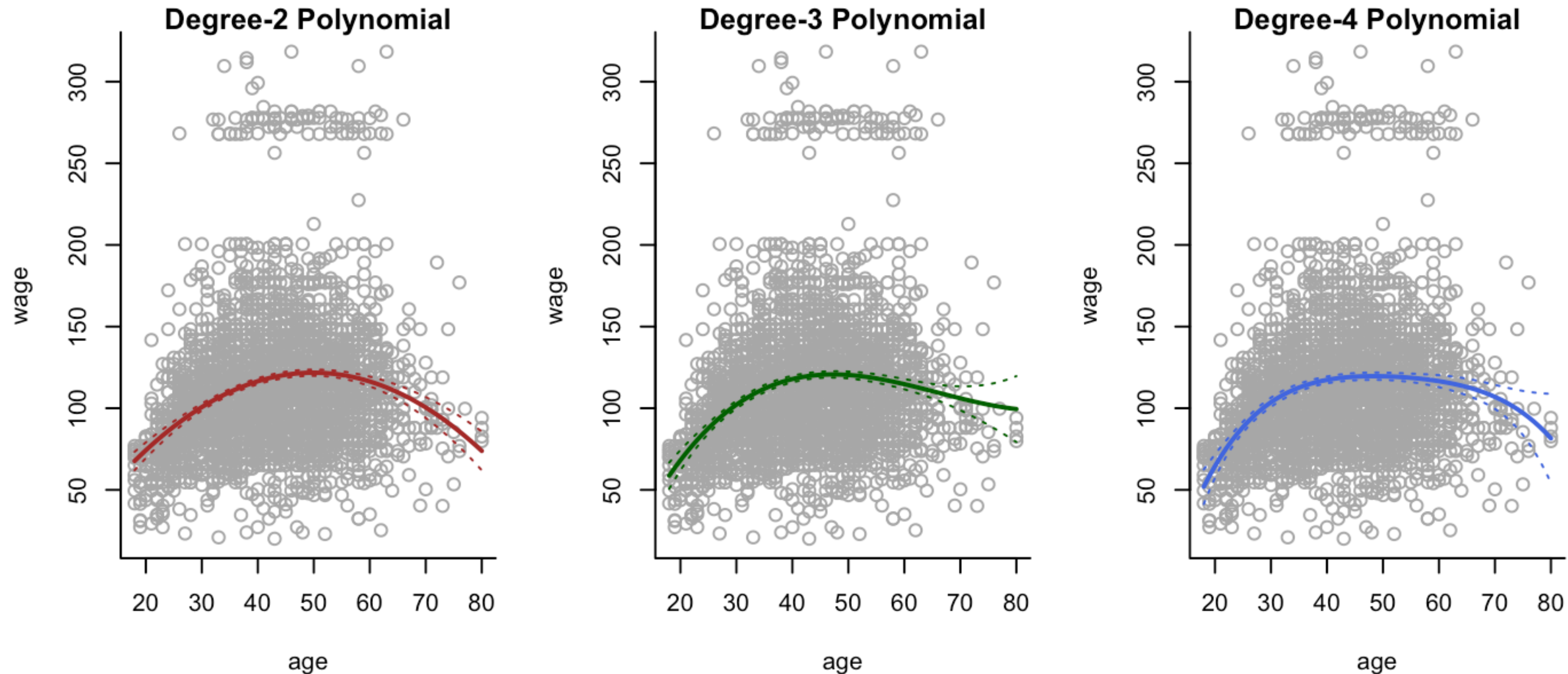# Polynomial Regression Models: Choosing d
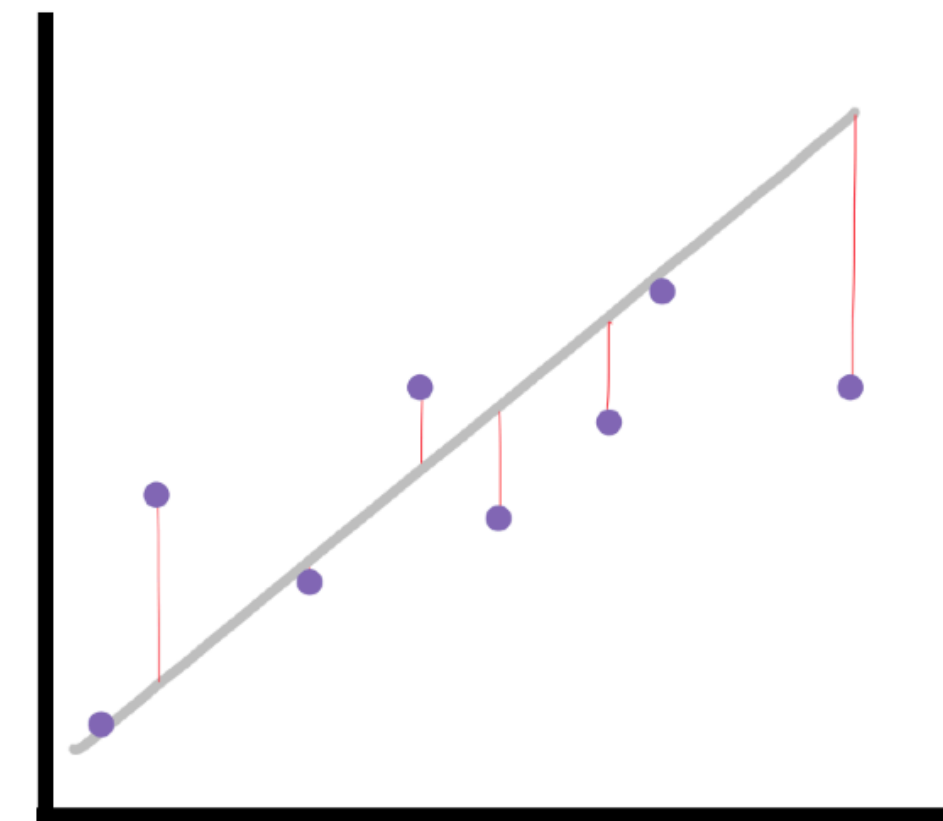
■ present data
■ future data

Polynomial Regression Models

Example: Wage (ISLR2)

95% confidence interval for the mean prediction at x:

$$\hat{f}(x) \pm 2 \times \text{SE}[\hat{f}(x)] \text{ where } \text{SE}[\hat{f}(x)] \text{ is the standard error of the mean prediction at } x$$