Posterior Predictive Check
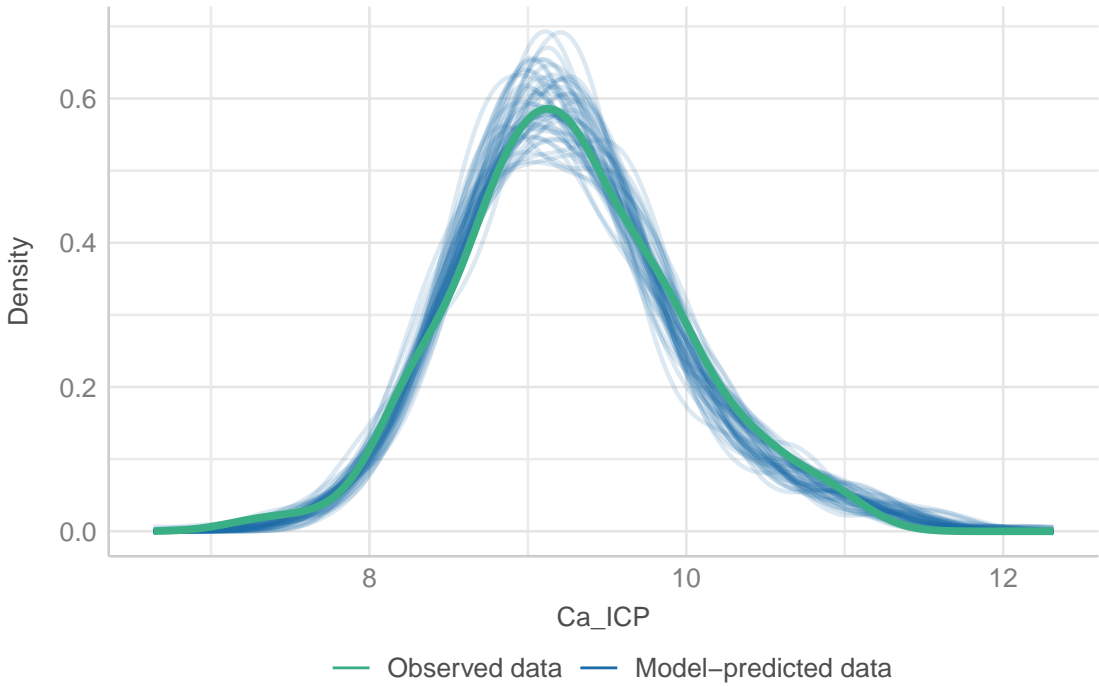Model−predicted lines should resemble observed data line

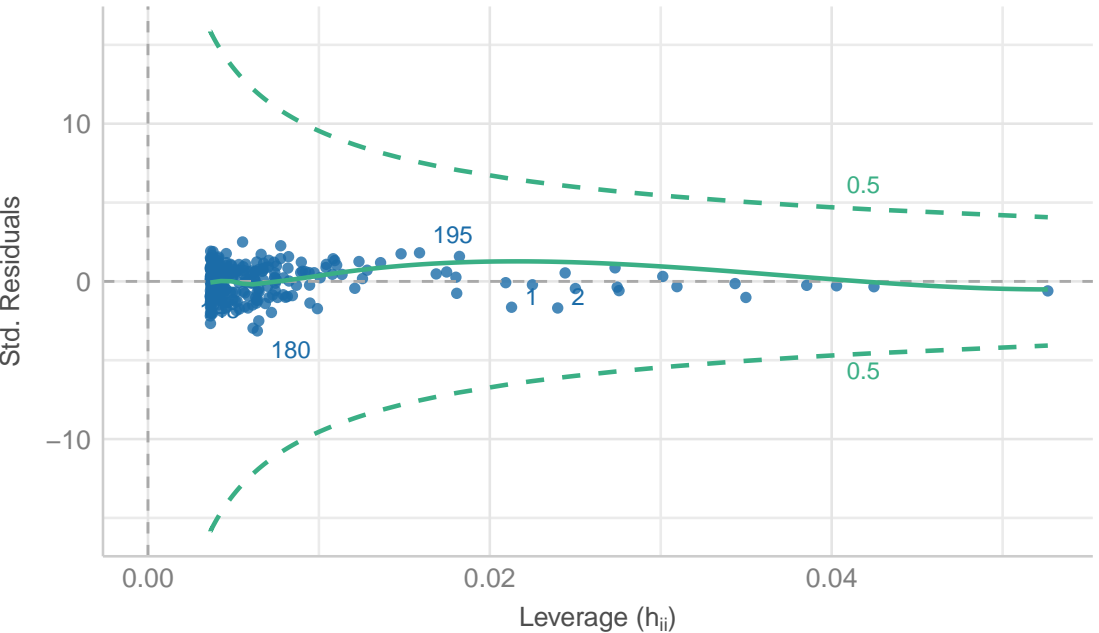*(x-axis: Ca_ICP; y-axis: Density)*
Observed data — Model−predicted data

Linearity
Reference line should be flat and horizontal

(x-axis: Fitted values; y-axis: Residuals)
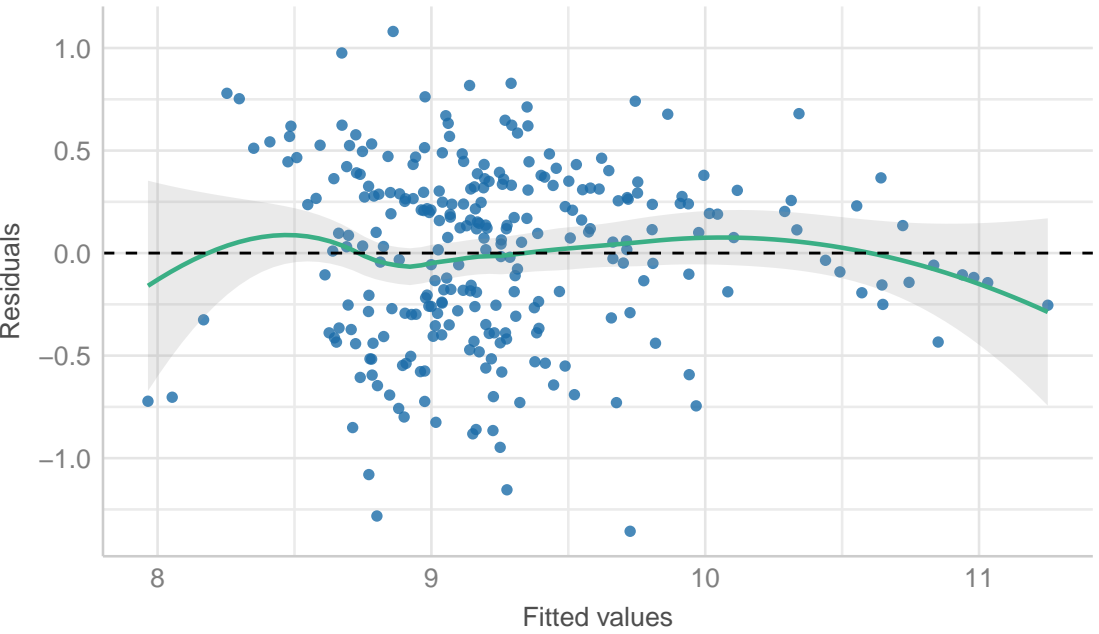
Homogeneity of Variance
Reference line should be flat and horizontal

(x-axis: Fitted values; y-axis: $\sqrt{|\text{Std. residuals}|}$)
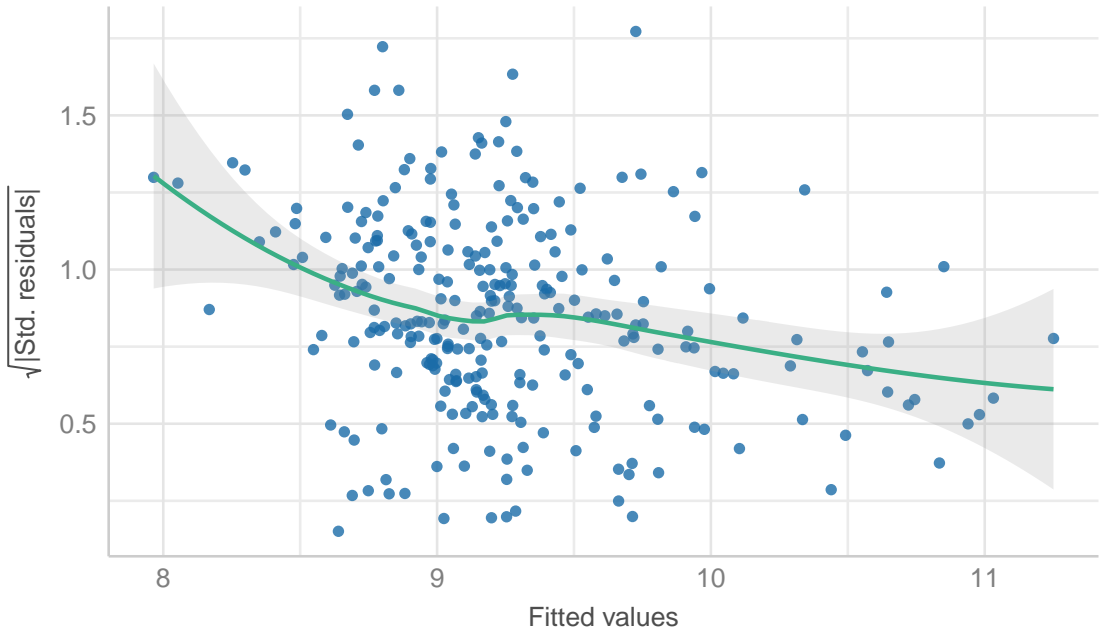
Influential Observations
Points should be inside the contour lines

(x-axis: Leverage (h_{ii}); y-axis: Std. Residuals)

Normality of Residuals
Dots should fall along the line

(x-axis: Standard Normal Distribution Quantiles; y-axis: Sample Quantile Deviations)