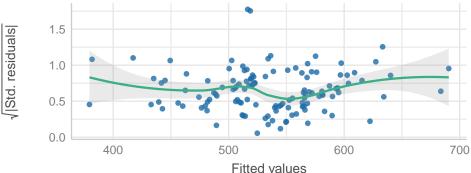
#### Posterior Predictive Check Model-predicted lines should resemble observed data line 0.008 0.006 Density 0.004 0.002 0.000 300 400 600 700 500 resistance

Observed data — Model-predicted data

# Homogeneity of Variance

Reference line should be flat and horizontal



## Collinearity

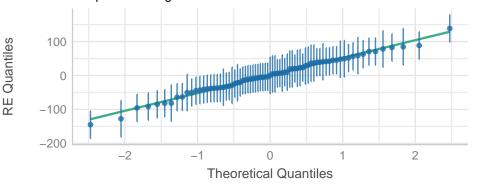
High collinearity (VIF) may inflate parameter uncertainty



## Low (< 5)

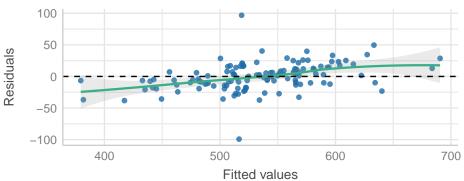
## Normality of Random Effects (record\_id)

Dots should be plotted along the line



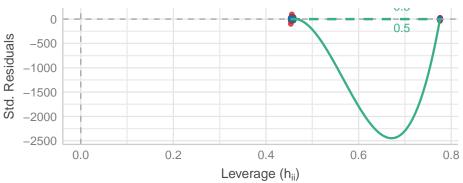
### Linearity

Reference line should be flat and horizontal

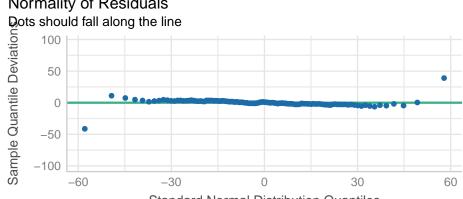


#### Influential Observations

Points should be inside the contour lines



### Normality of Residuals



Standard Normal Distribution Quantiles