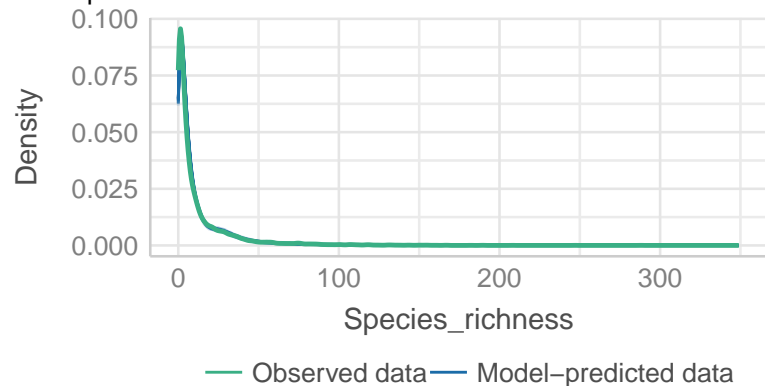


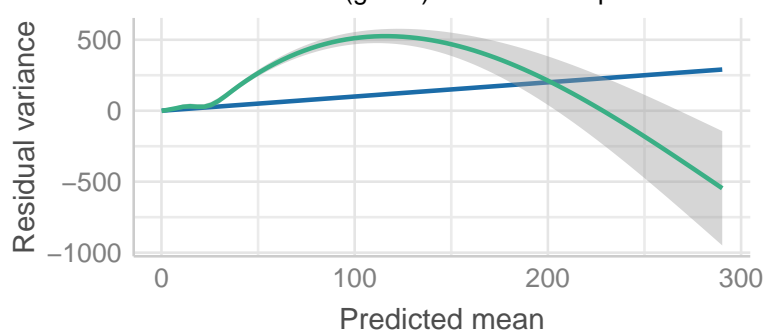
## Posterior Predictive Check

Model-predicted lines should resemble observed data line



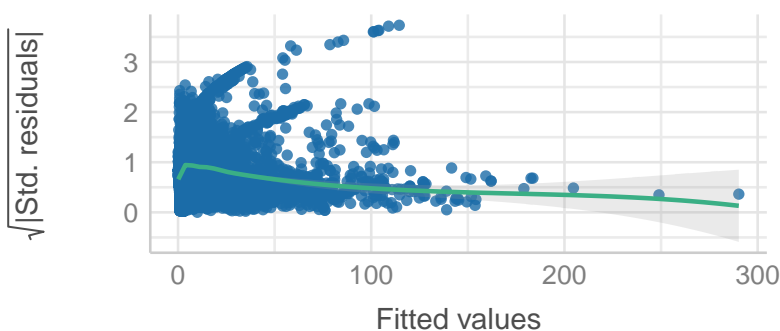
## Overdispersion and zero-inflation

Observed residual variance (green) should follow predicted residual variance (blue)



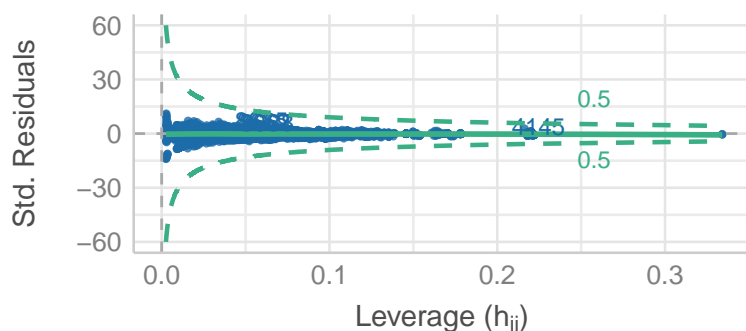
## Homogeneity of Variance

Reference line should be flat and horizontal



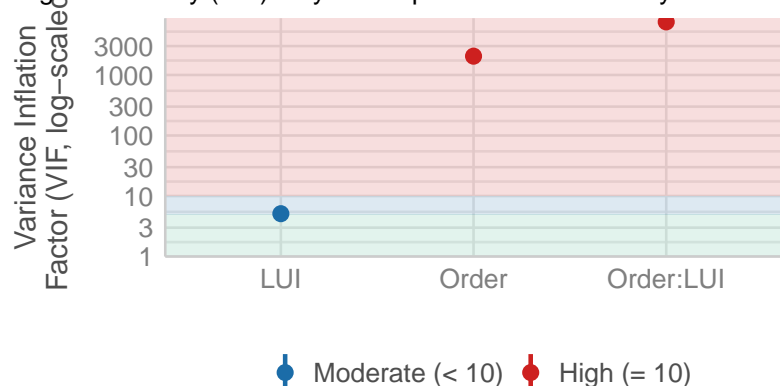
## Influential Observations

Points should be inside the contour lines



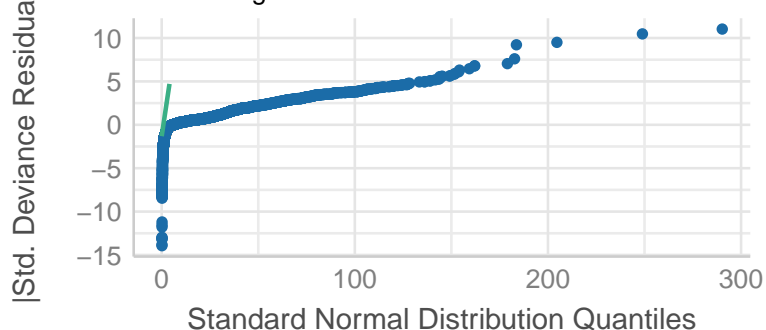
## Collinearity

High collinearity (VIF) may inflate parameter uncertainty



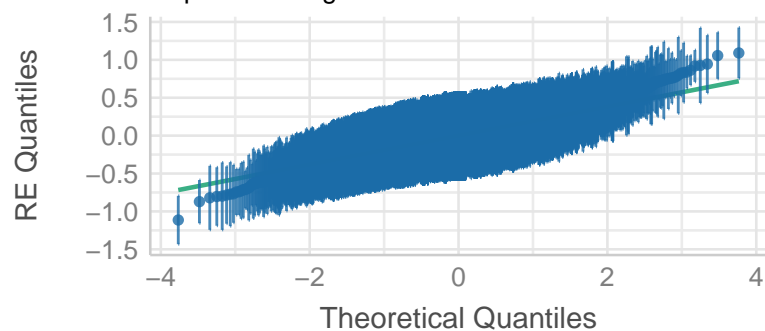
## Normality of Residuals

Points should fall along the line



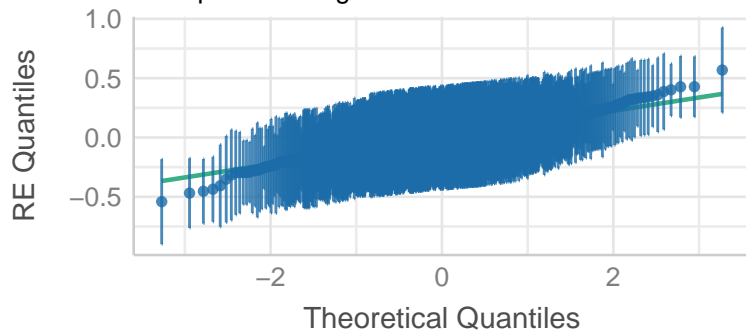
## Normality of Random Effects (SSBS)

Dots should be plotted along the line



## Normality of Random Effects (SSB)

Dots should be plotted along the line



## Normality of Random Effects (SS)

Dots should be plotted along the line

