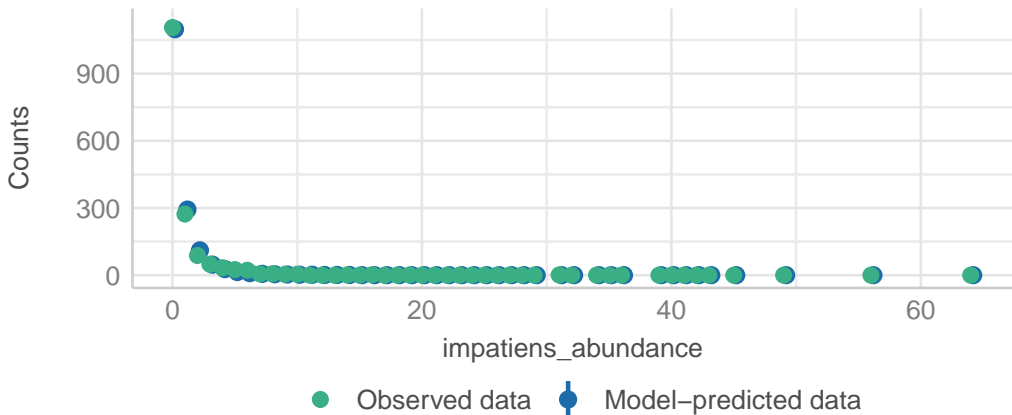
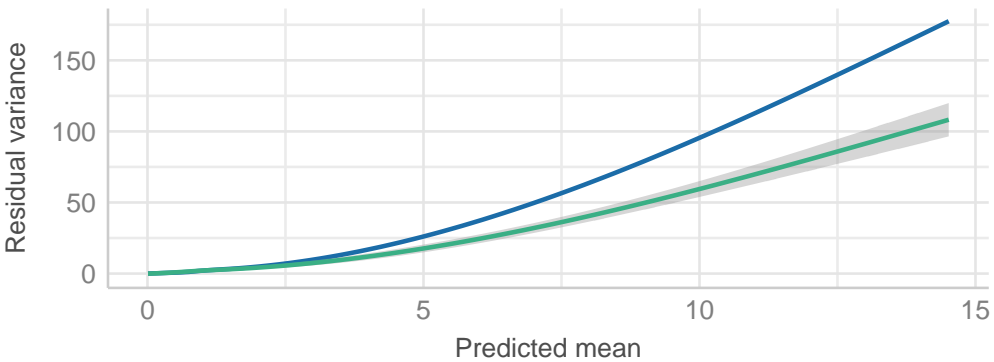


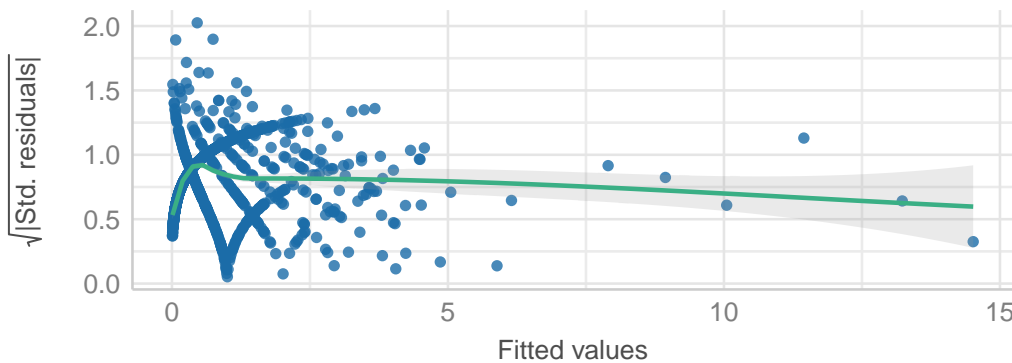
Posterior Predictive Check  
Model-predicted intervals should include observed data points



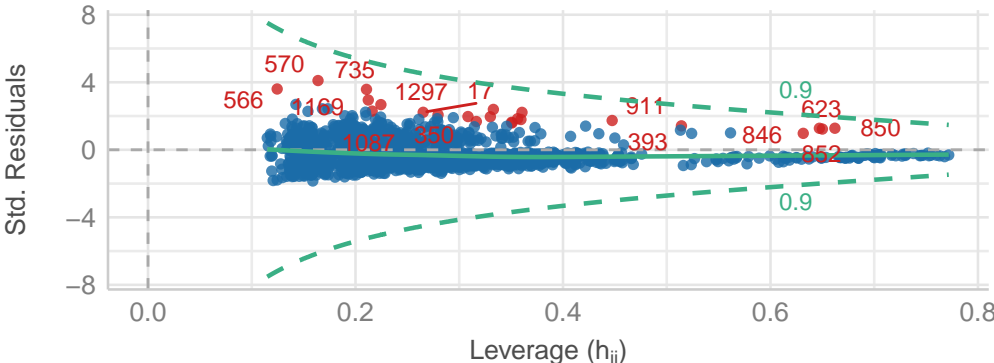
Misspecified dispersion and zero-inflation  
Observed residual variance (green) should follow predicted residual variance (blue)



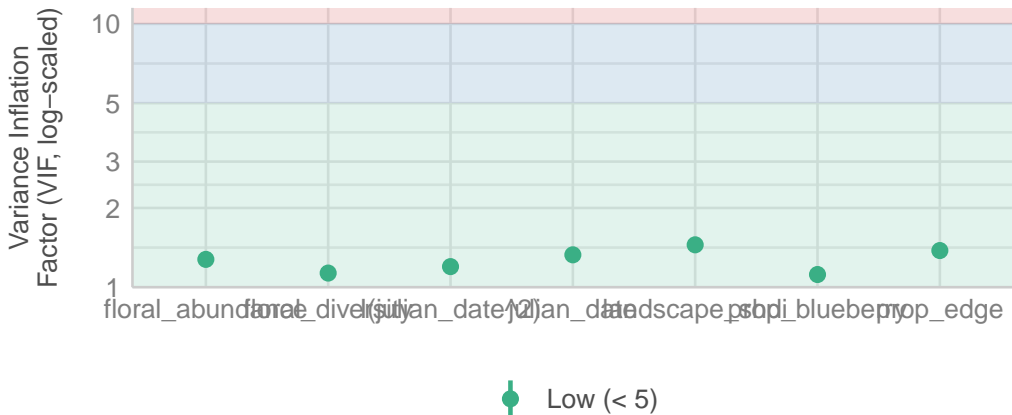
Homogeneity of Variance  
Reference line should be flat and horizontal



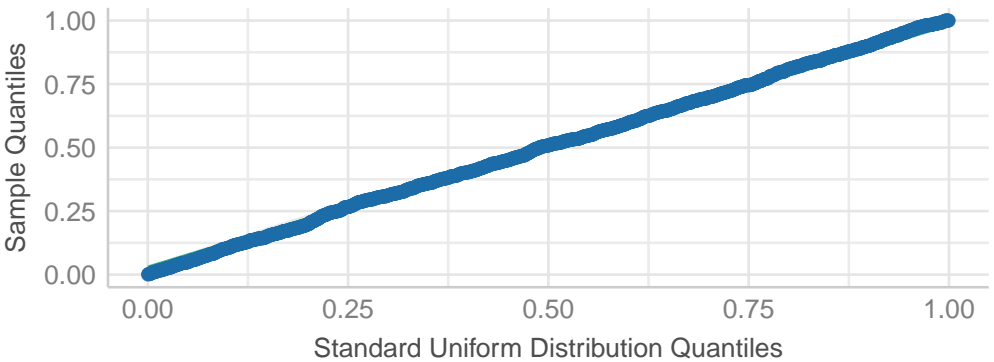
Influential Observations  
Points should be inside the contour lines



Collinearity  
High collinearity (VIF) may inflate parameter uncertainty



Uniformity of Residuals  
Dots should fall along the line



Normality of Random Effects (sample\_pt)  
Dots should be plotted along the line

