## Posterior Predictive Check Model-predicted intervals should include observed data points 900 Counts 600 300 0 60 20 impatiens abundance Observed data Model-predicted data Homogeneity of Variance Reference line should be flat and horizontal 2.0 |Std. residuals 1.5 1.0 0.5 0.0 5 10 15 Fitted values Collinearity High collinearity (VIF) may inflate parameter uncertainty Variance Inflation Factor (VIF, log-scaled) 10 5 3 floral\_abundanae\_diveli(sith)an\_date/12/1)an\_datedscape\_psbpli\_bluebepnop\_edge Low (< 5) Normality of Random Effects (sample\_pt) Dots should be plotted along the line 2 RE Quantiles 0

0

Theoretical Quantiles

2

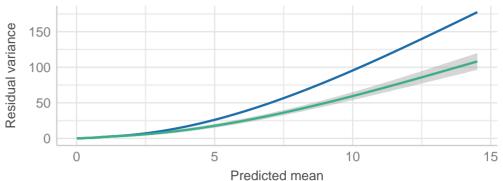
3

-3

-2

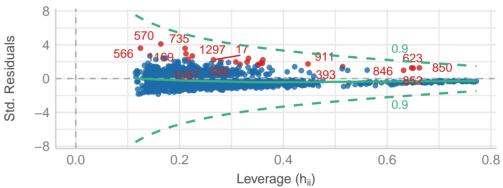
## Misspecified dispersion and zero-inflation

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



## Influential Observations

Points should be inside the contour lines



## Uniformity of Residuals

Dots should fall along the line

