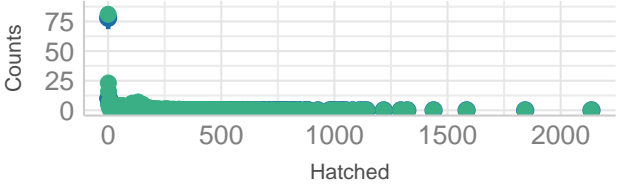


Posterior Predictive Check

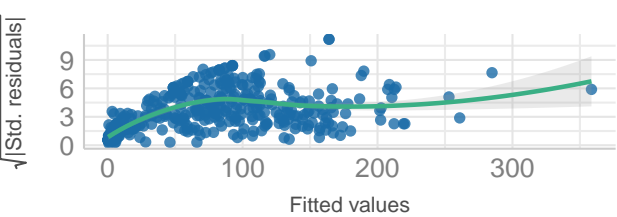
Model-predicted intervals should include observed data points



● Observed data ● Model-predicted data

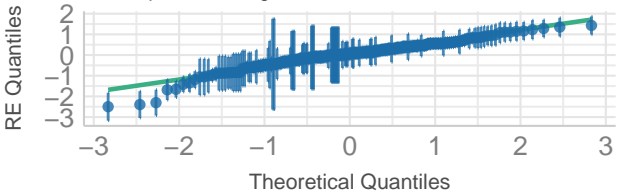
Homogeneity of Variance

Reference line should be flat and horizontal



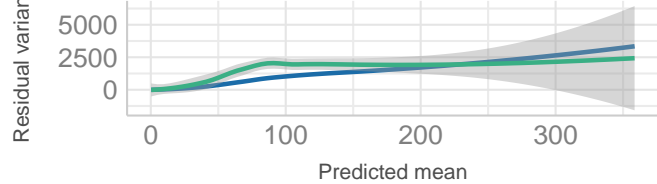
Normality of Random Effects (female_ID)

Dots should be plotted along the line



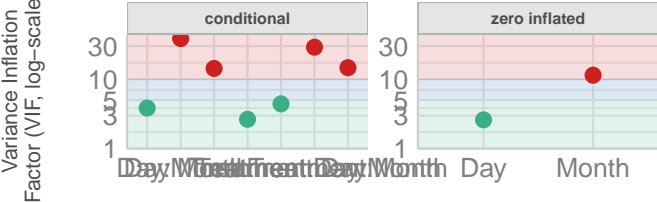
Misspecified dispersion and zero-inflation

Observed residual variance (green) should follow predicted residual variance



Collinearity

High collinearity (VIF) may inflate parameter uncertainty



● Low (< 5) ● High (≥ 10)