

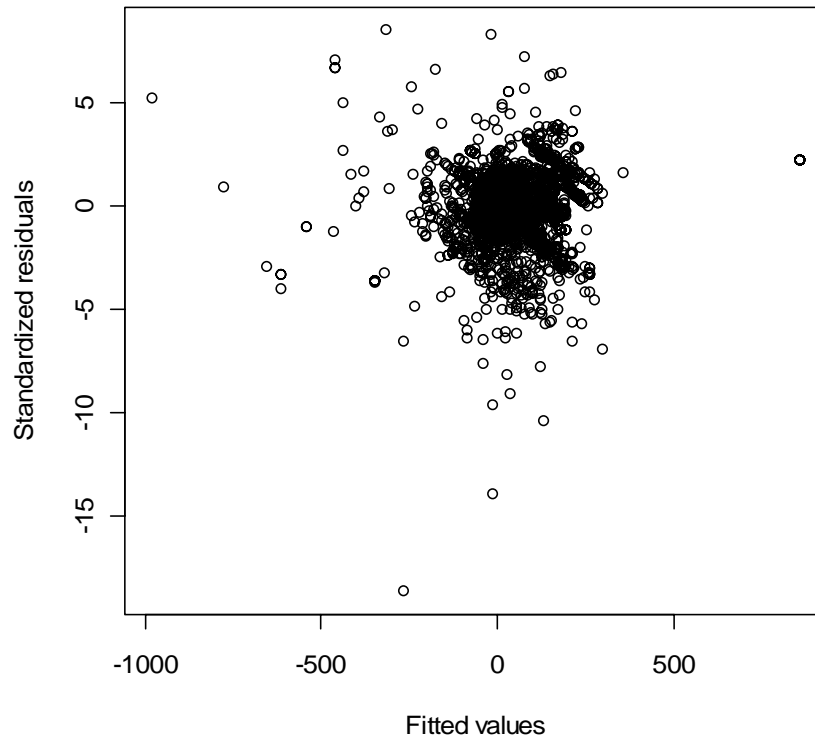
Diagnostic plots for online software transactions data
“RE-EM Trees: A Data Mining Approach for Longitudinal and Clustered Data”
Rebecca J. Sela and Jeffrey S. Simonoff

This document provides diagnostic residual plots for linear mixed model and REEM tree fits to the online software transactions data discussed in Section 4.1 of the paper.

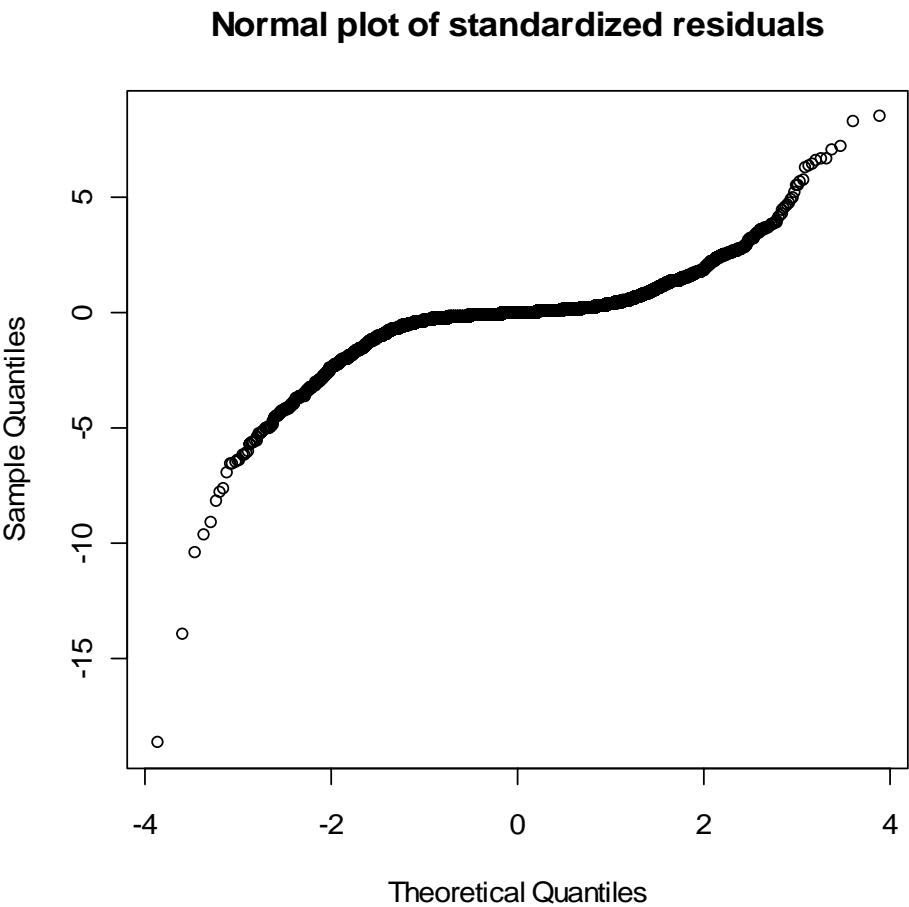
Price premium

Linear mixed model fit on complete variables

Plot of standardized residuals versus fitted values:

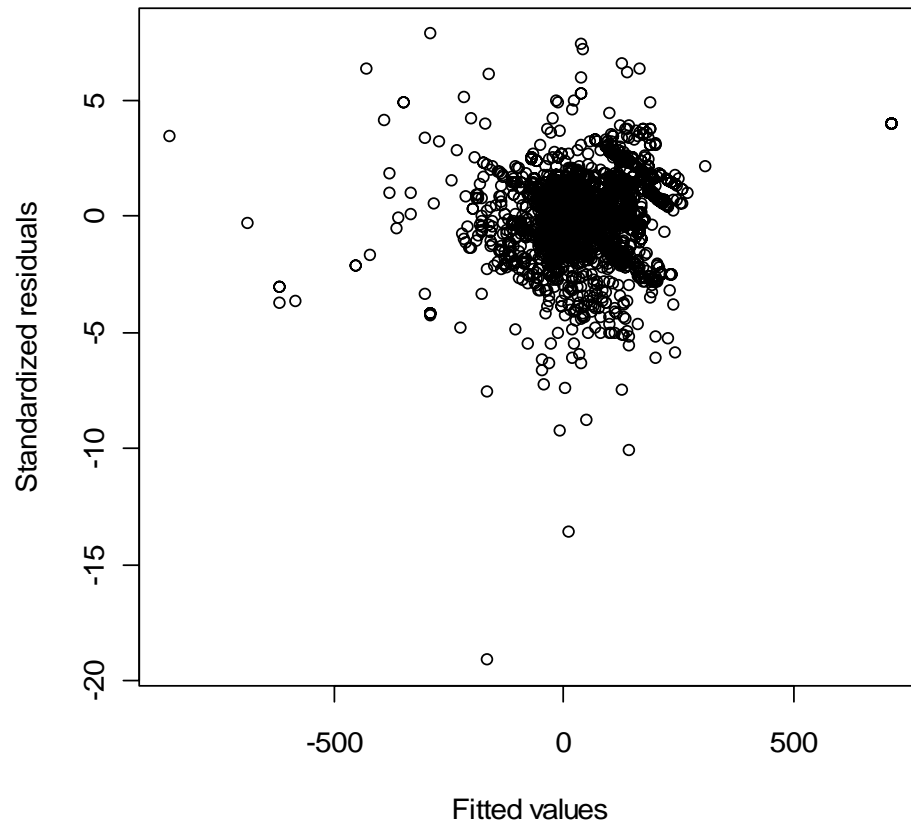


Normal plot of standardized residuals:

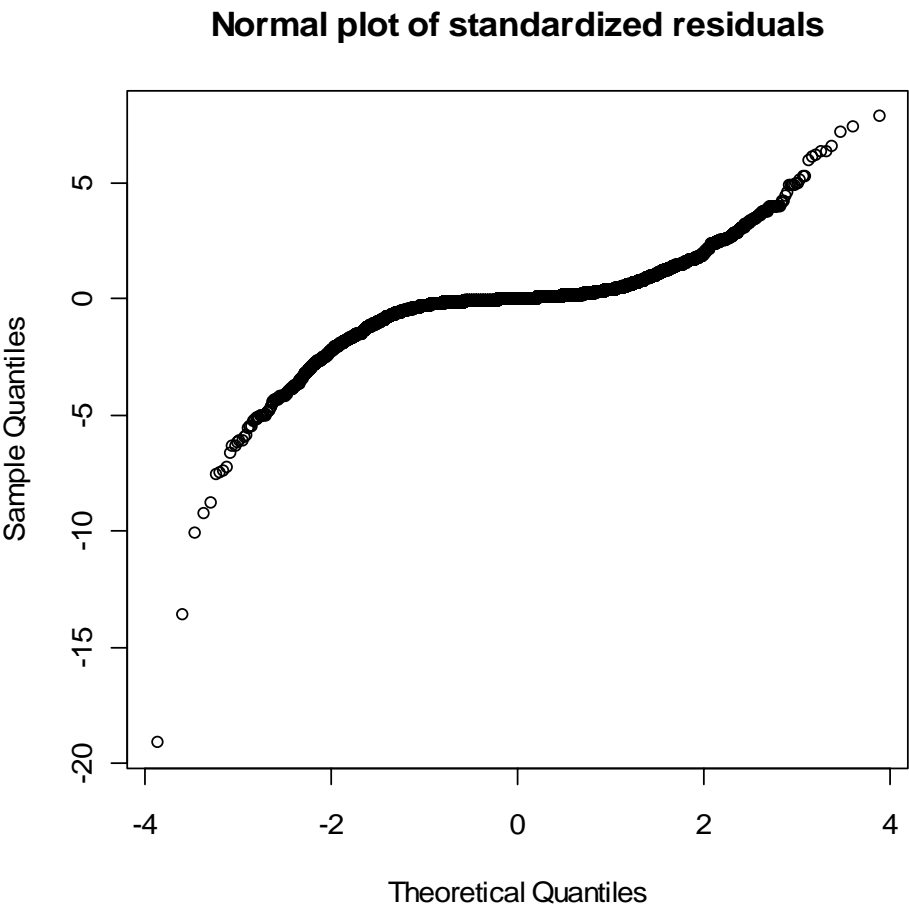


Linear mixed model fit on complete variables allowing for autocorrelation in the errors within titles

Plot of standardized residuals versus fitted values:

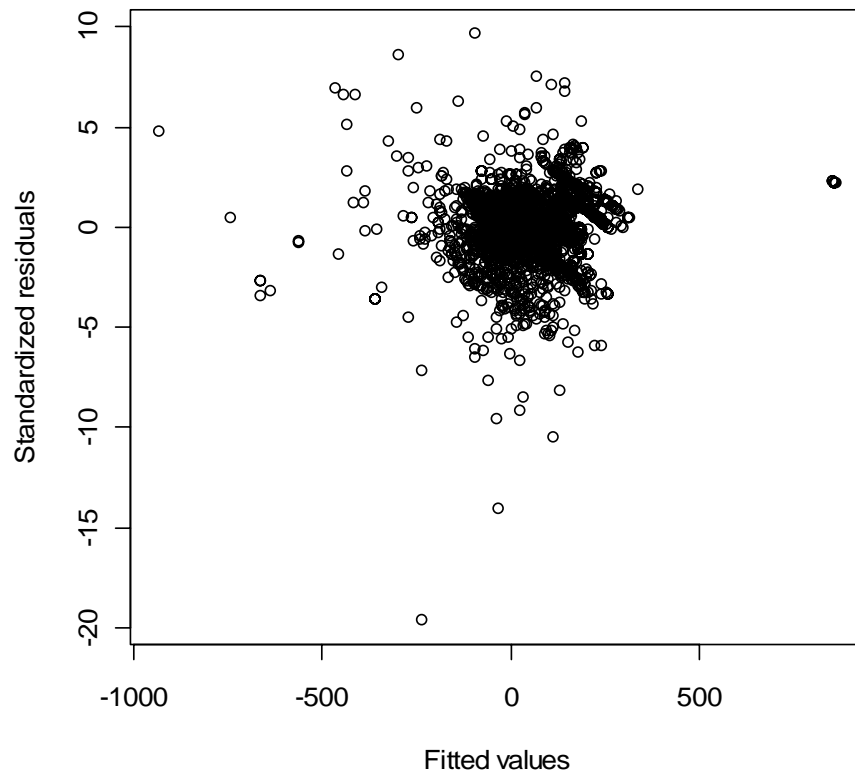


Normal plot of standardized residuals:

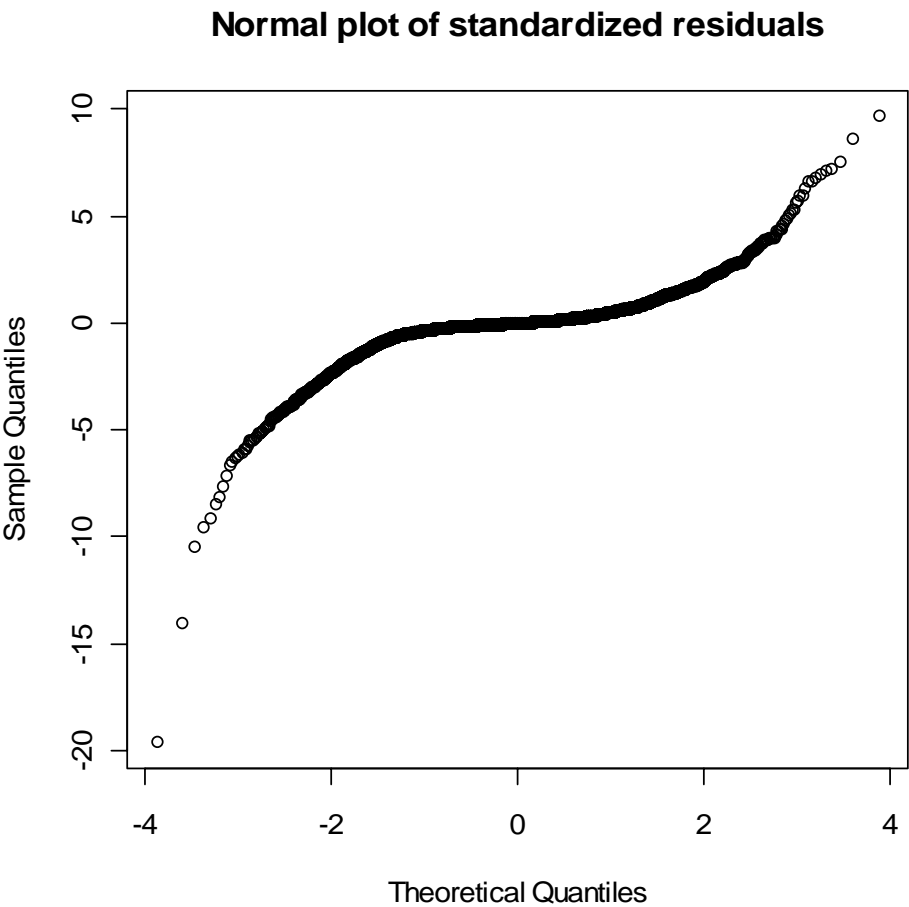


Linear mixed model fit on data with imputed variables

Plot of standardized residuals versus fitted values:

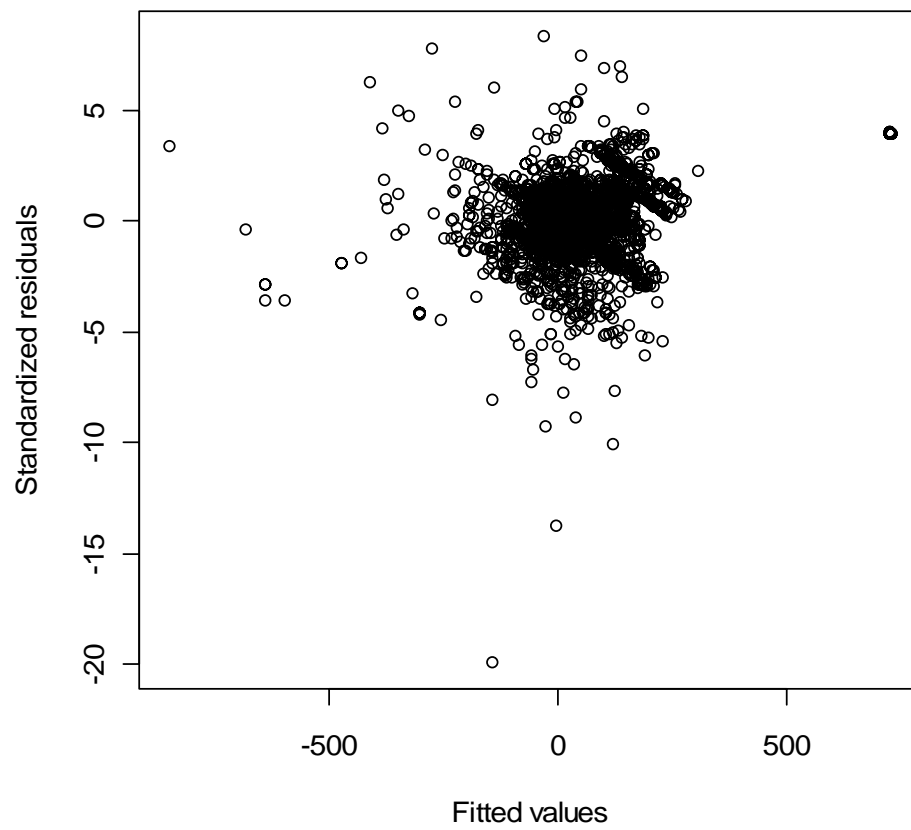


Normal plot of standardized residuals:

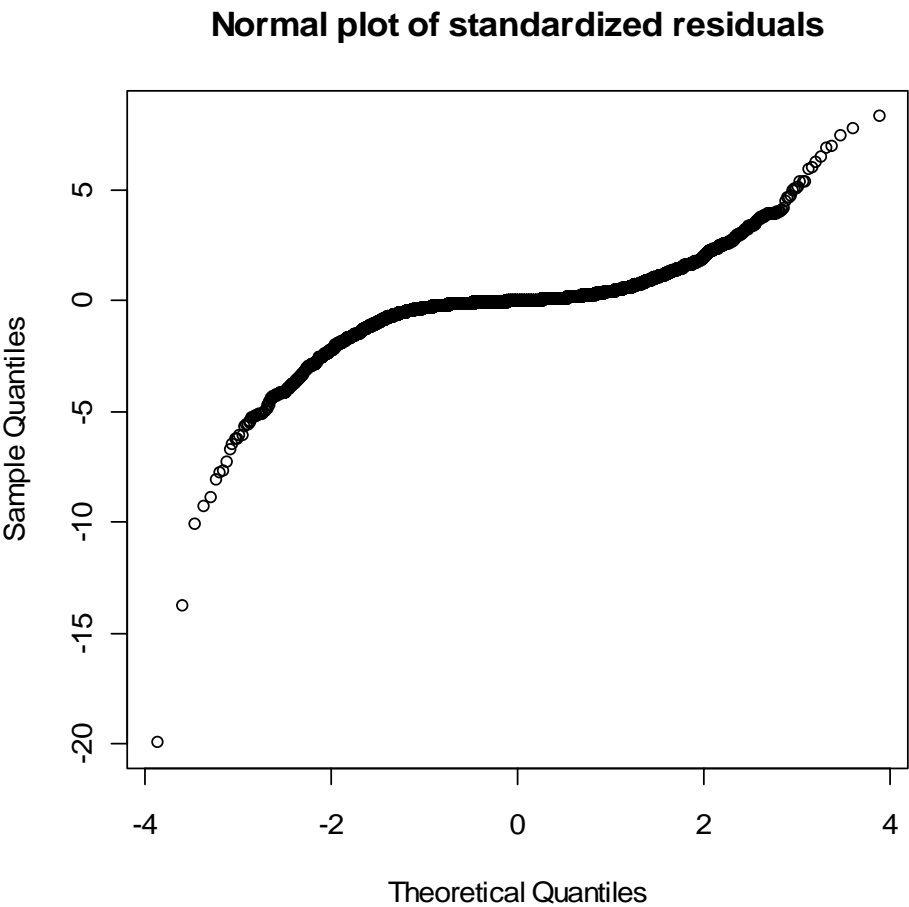


Linear mixed model fit on data with imputed variables allowing for autocorrelation in errors within titles

Plot of standardized residuals versus fitted values:

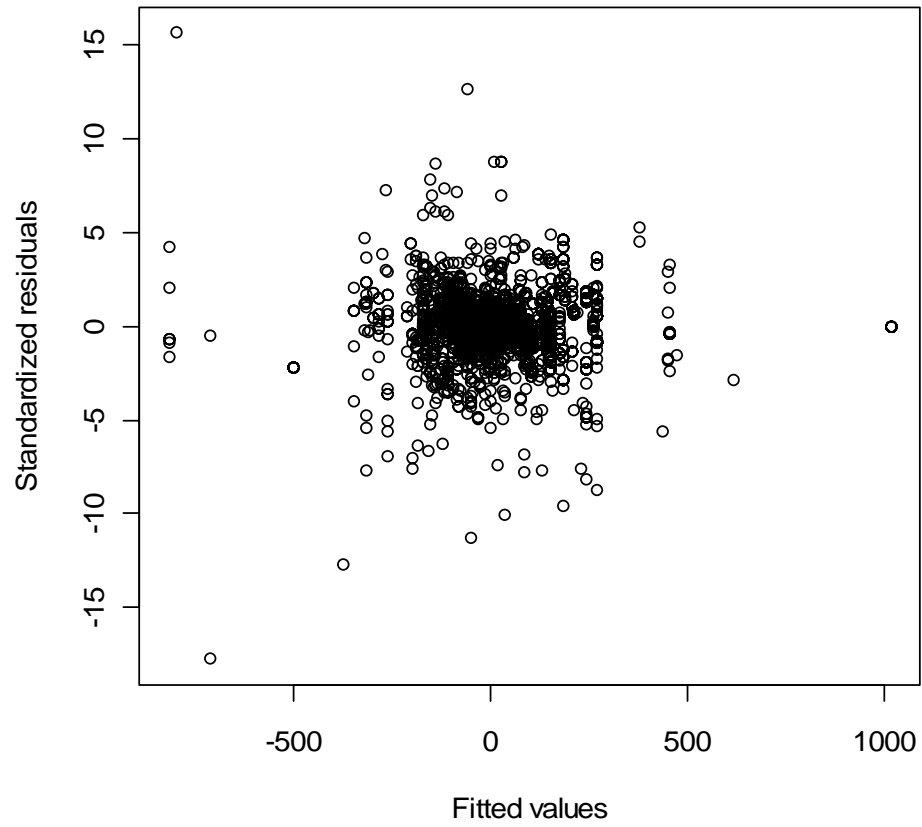


Normal plot of standardized residuals:

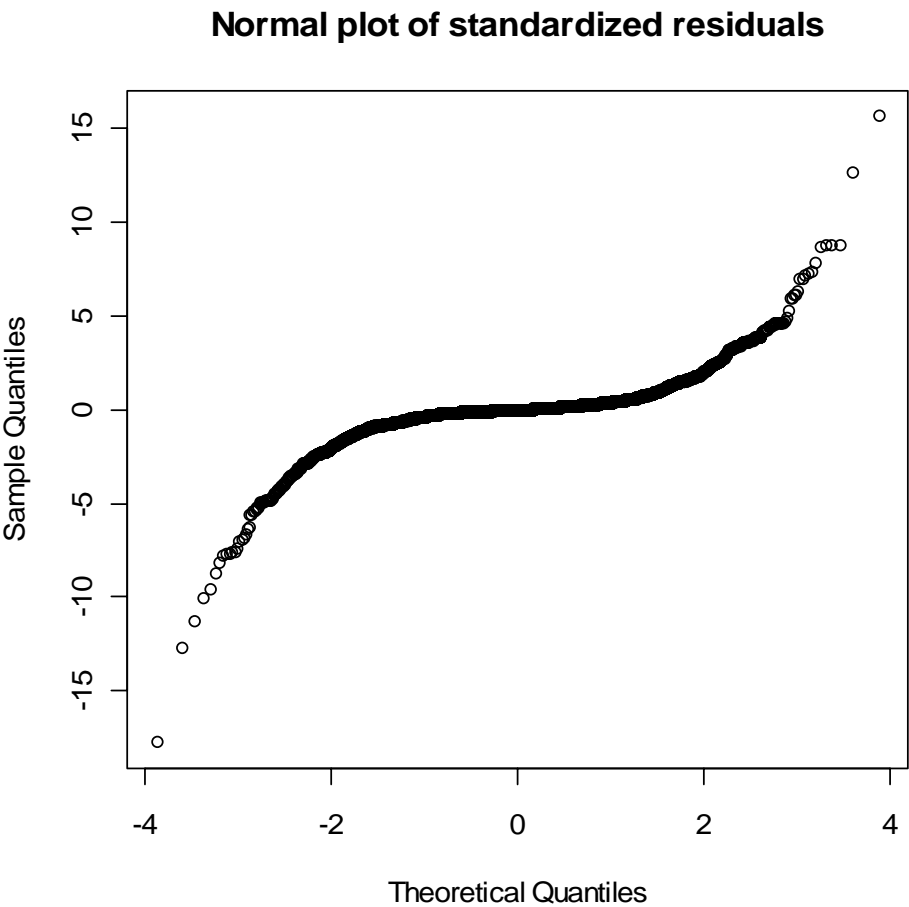


REEM tree fit

Plot of standardized residuals versus fitted values:

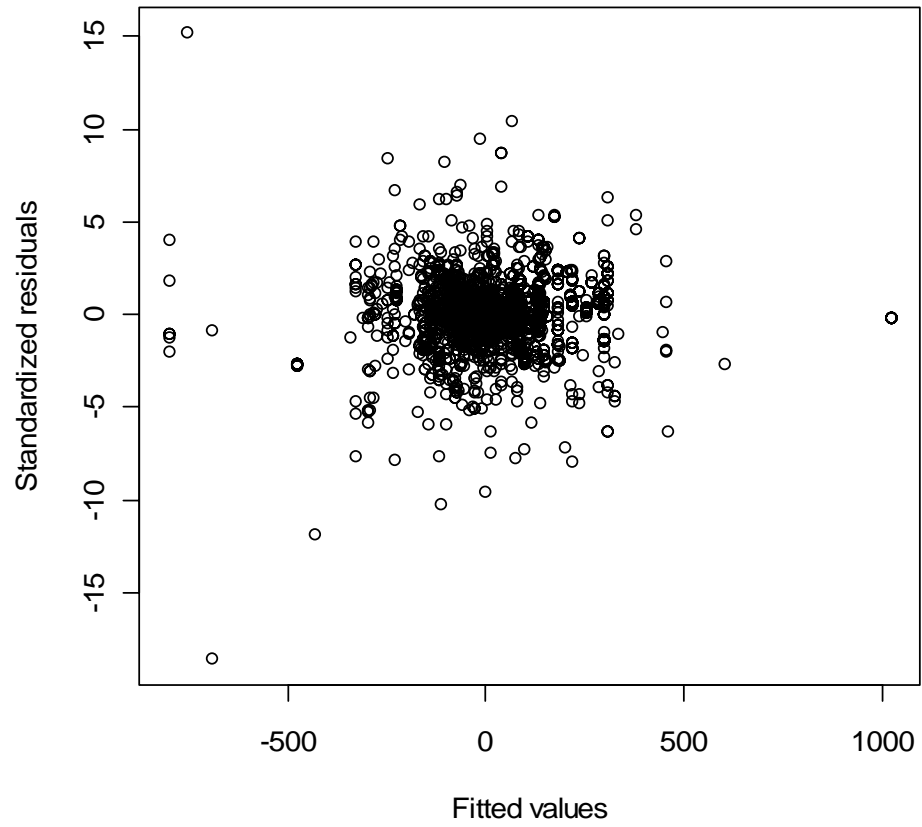


Normal plot of standardized residuals:

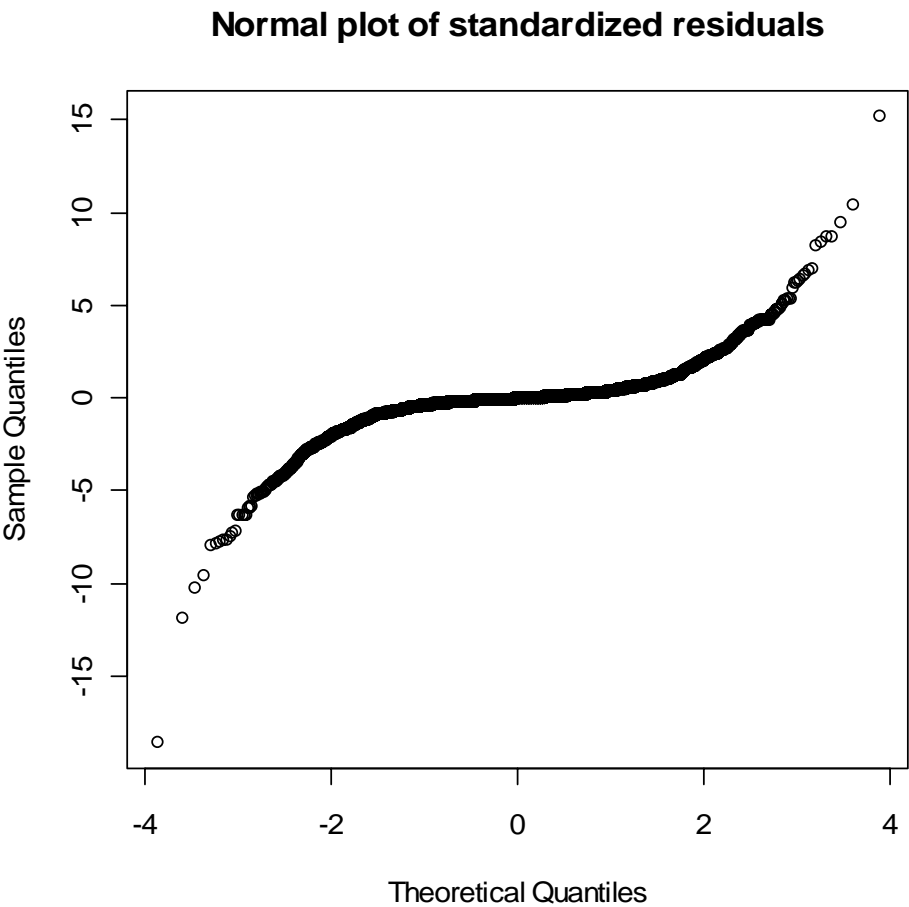


REEM tree fit allowing for autocorrelation in the errors within titles

Plot of standardized residuals versus fitted values:



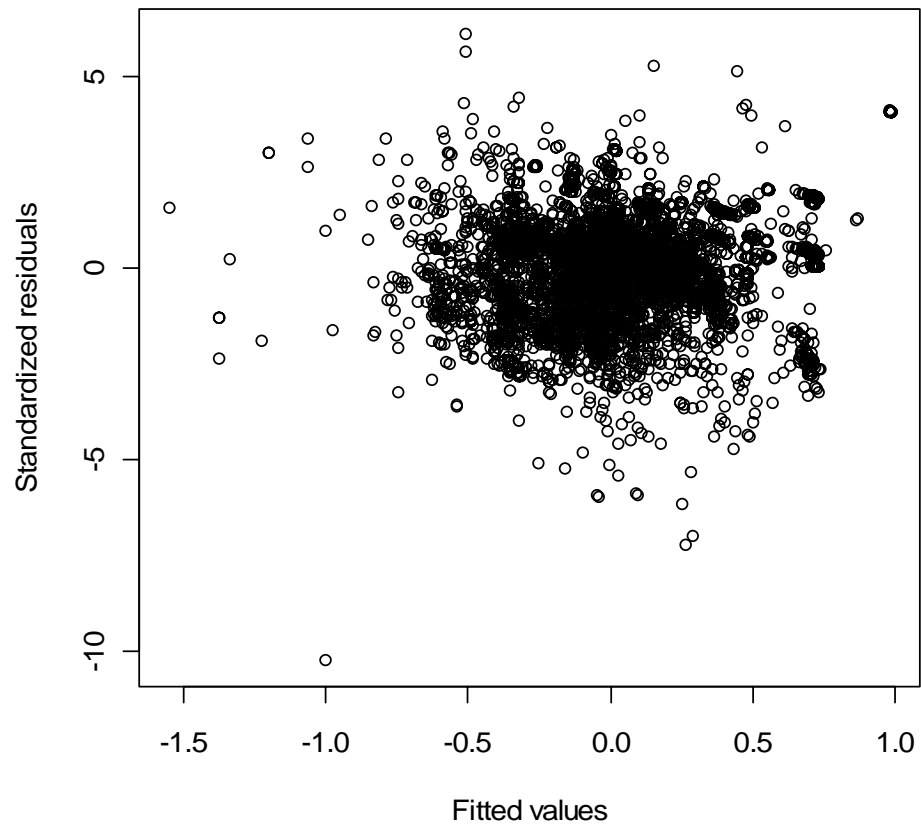
Normal plot of standardized residuals:



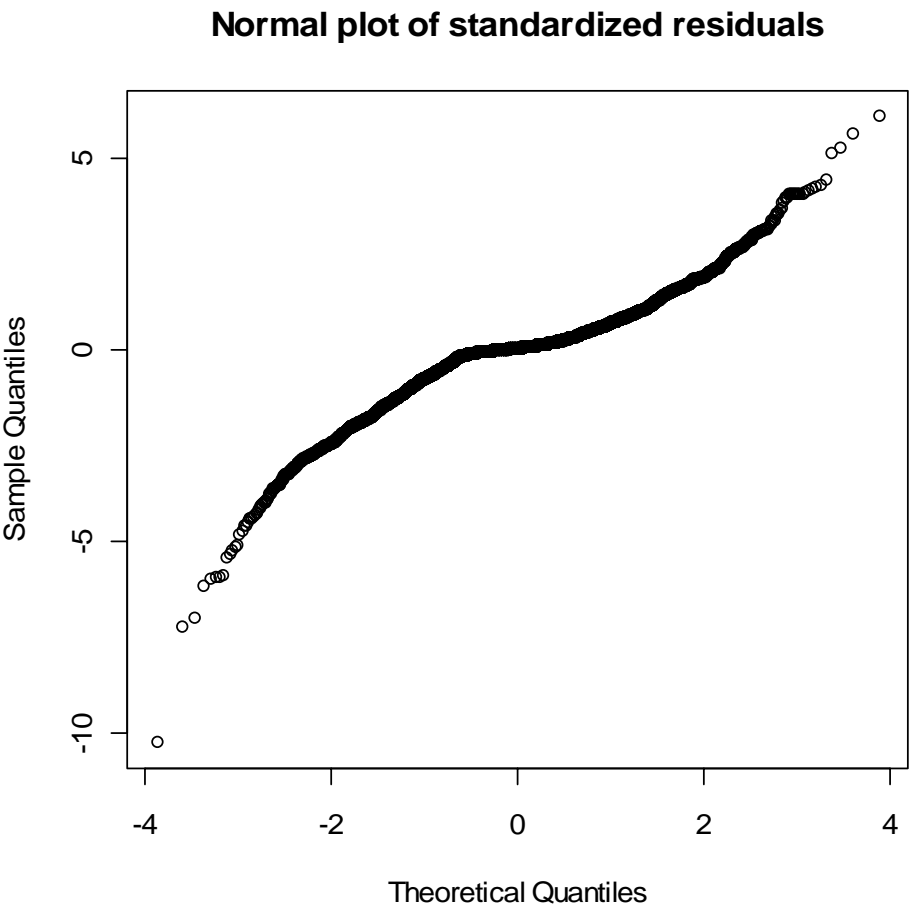
Logged relative price premium

Linear mixed model fit on complete variables

Plot of standardized residuals versus fitted values:

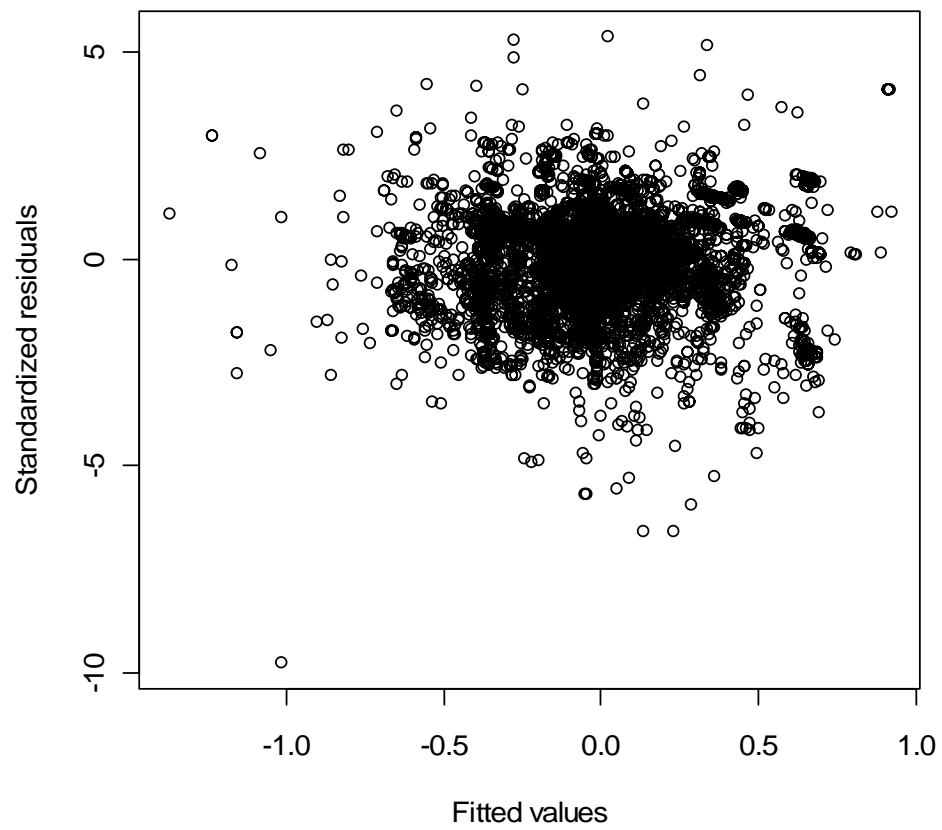


Normal plot of standardized residuals:

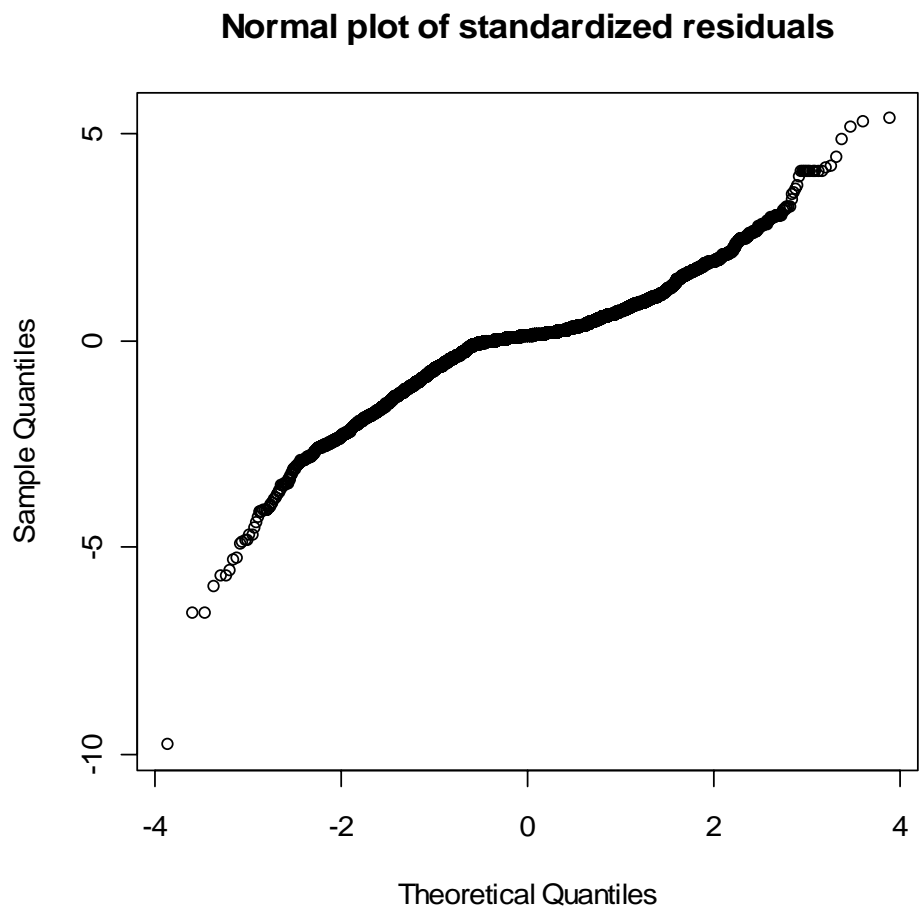


Linear mixed model fit on complete variables allowing for autocorrelation in the errors within titles

Plot of standardized residuals versus fitted values:

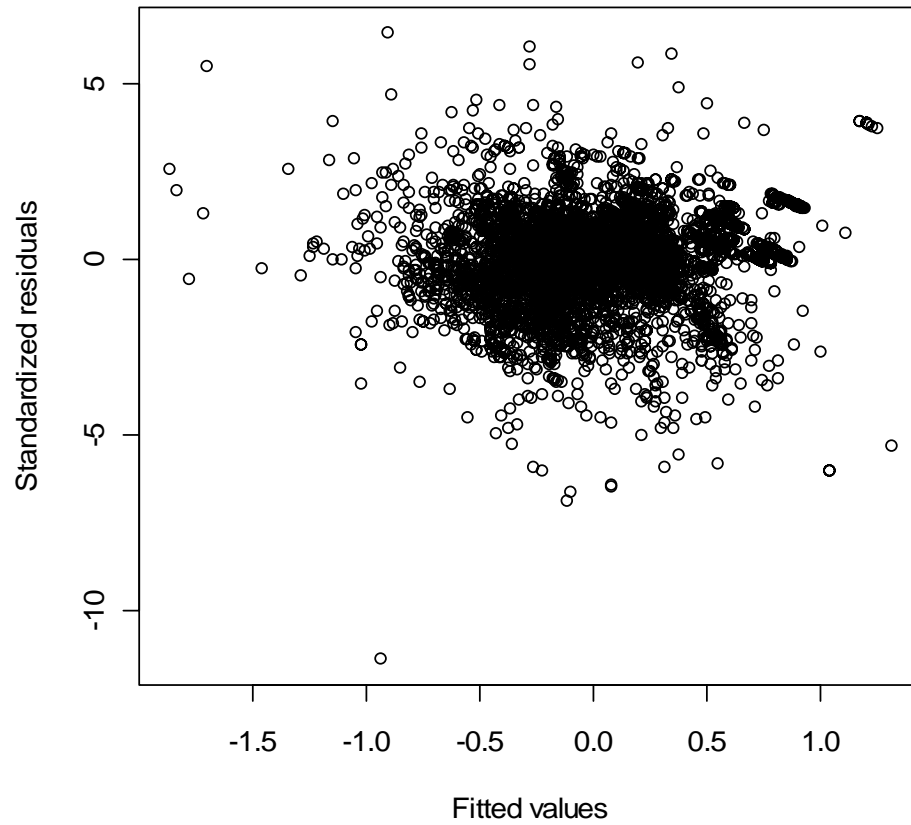


Normal plot of standardized residuals:

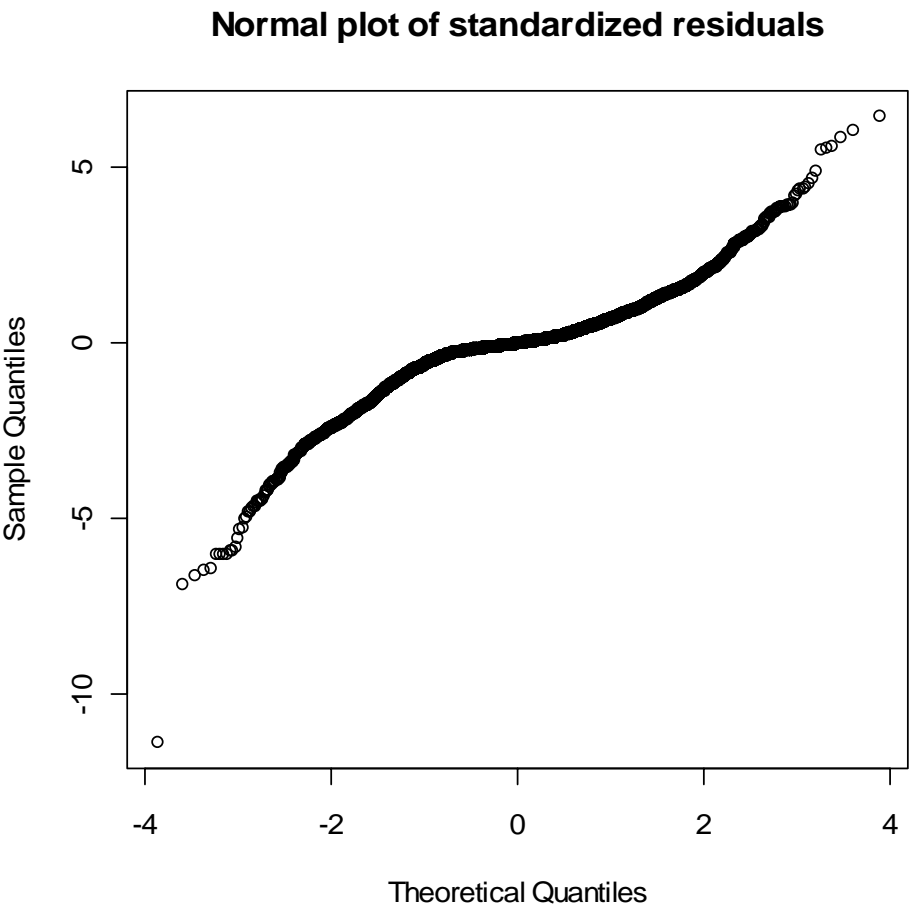


Linear mixed model fit on data with imputed variables

Plot of standardized residuals versus fitted values:

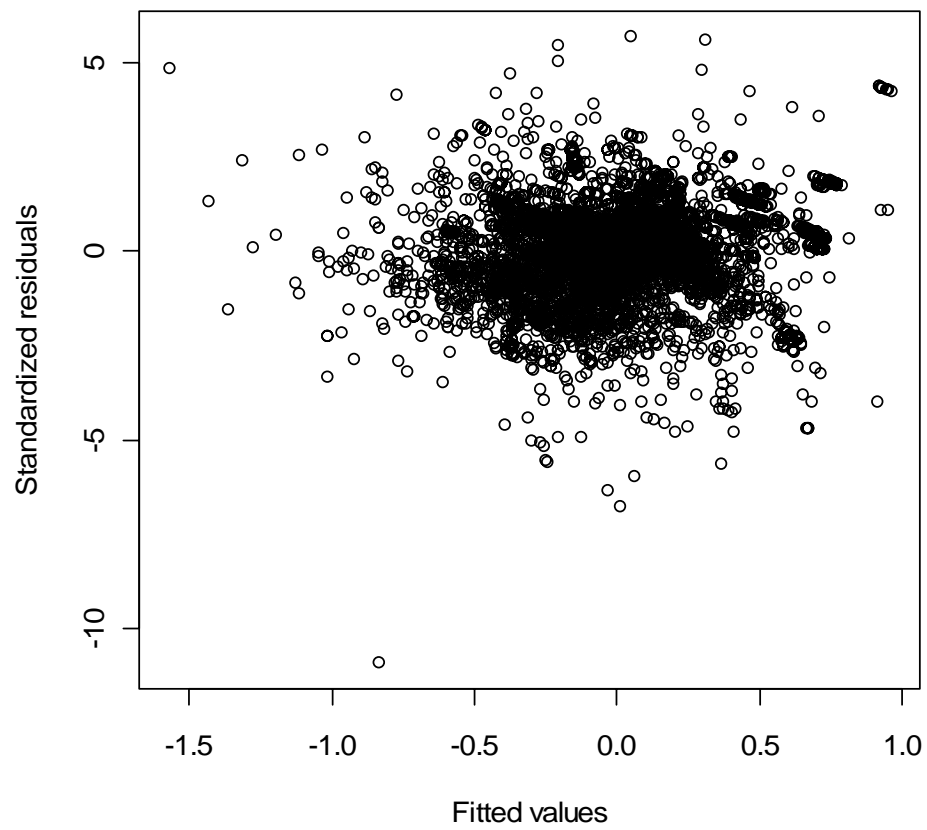


Normal plot of standardized residuals:

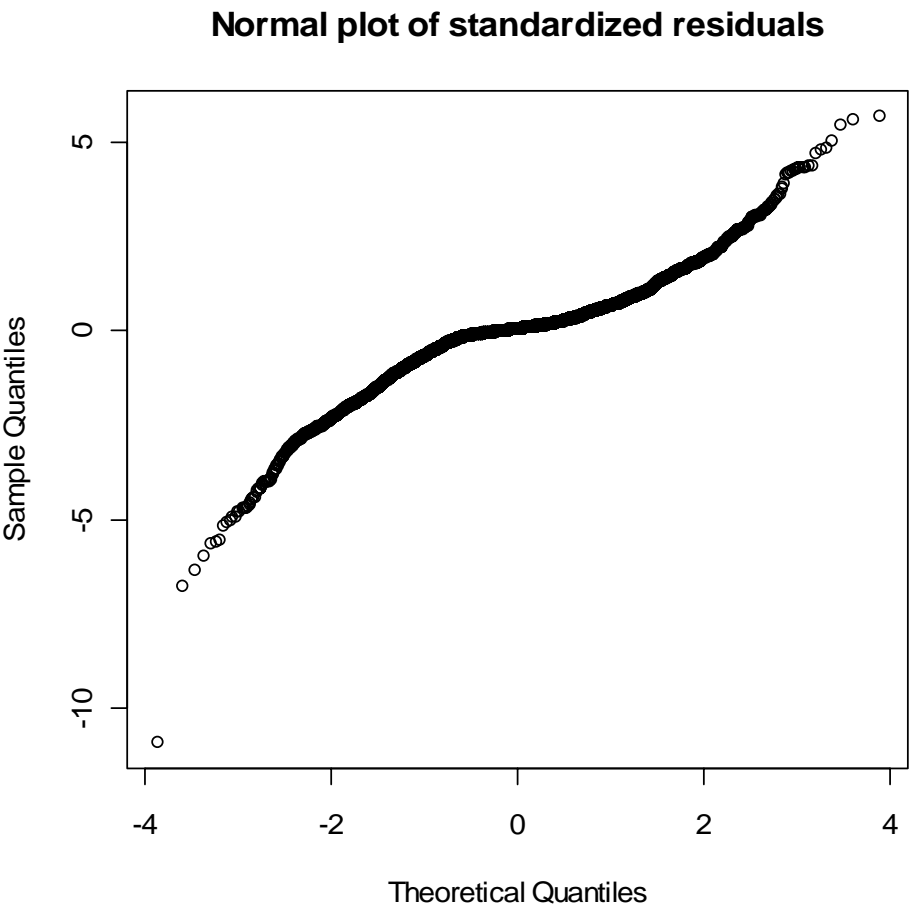


Linear mixed model fit on data with imputed variables allowing for autocorrelation in errors within titles

Plot of standardized residuals versus fitted values:

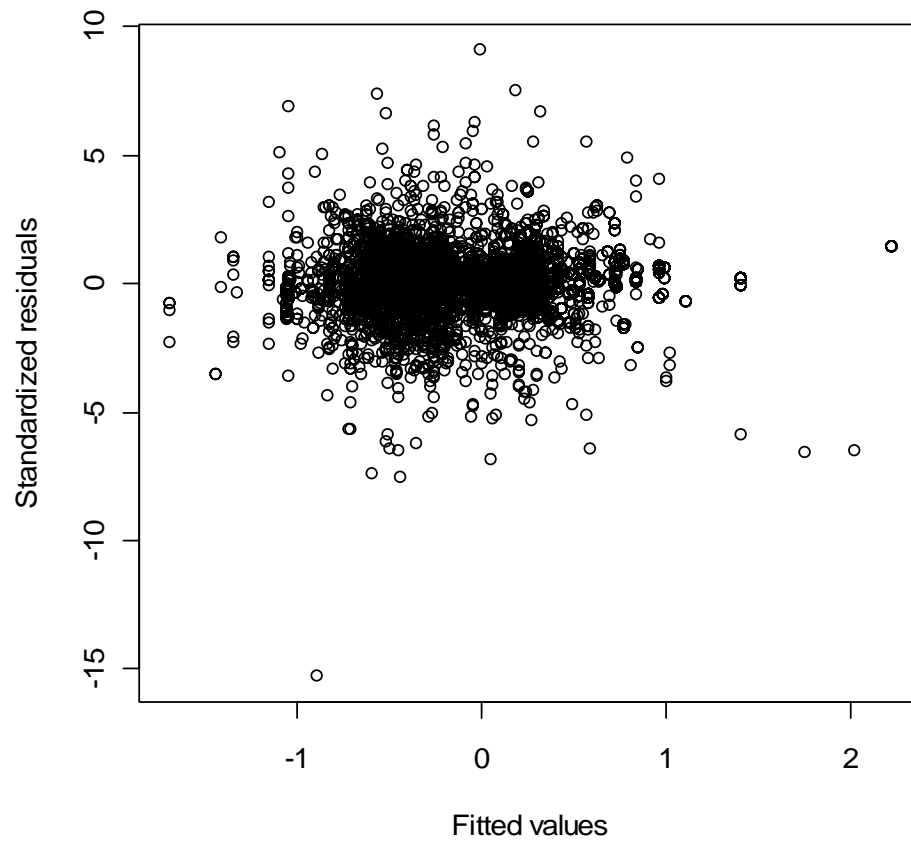


Normal plot of standardized residuals:

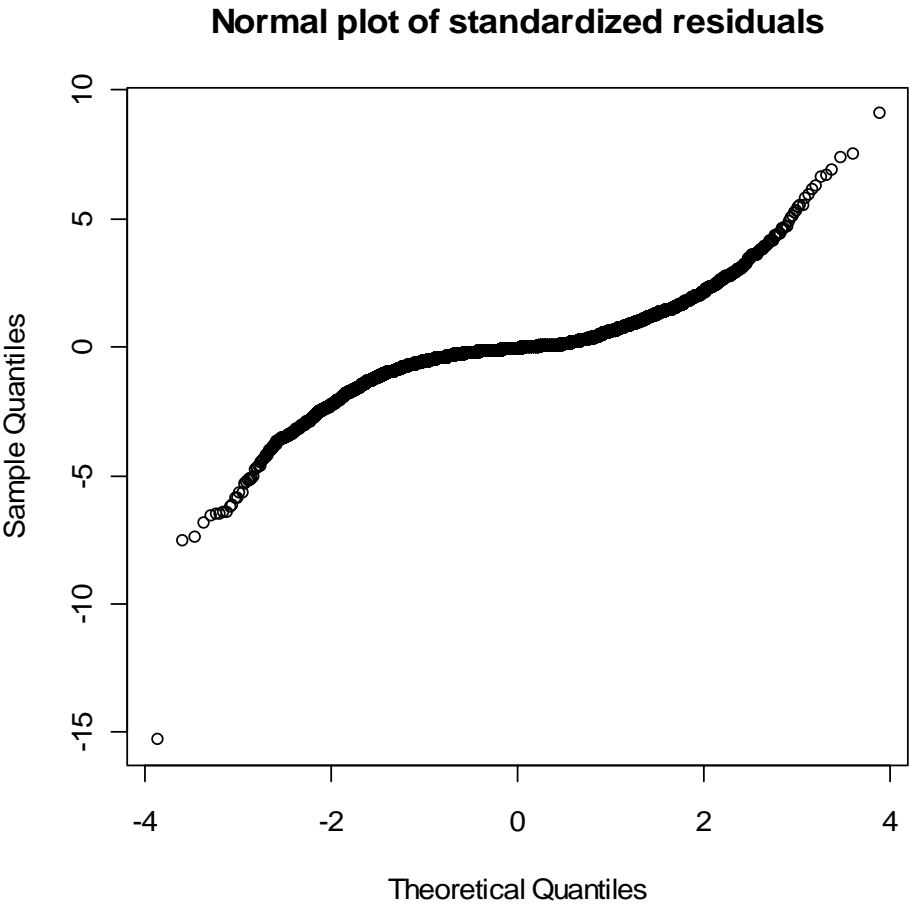


REEM tree fit

Plot of standardized residuals versus fitted values:

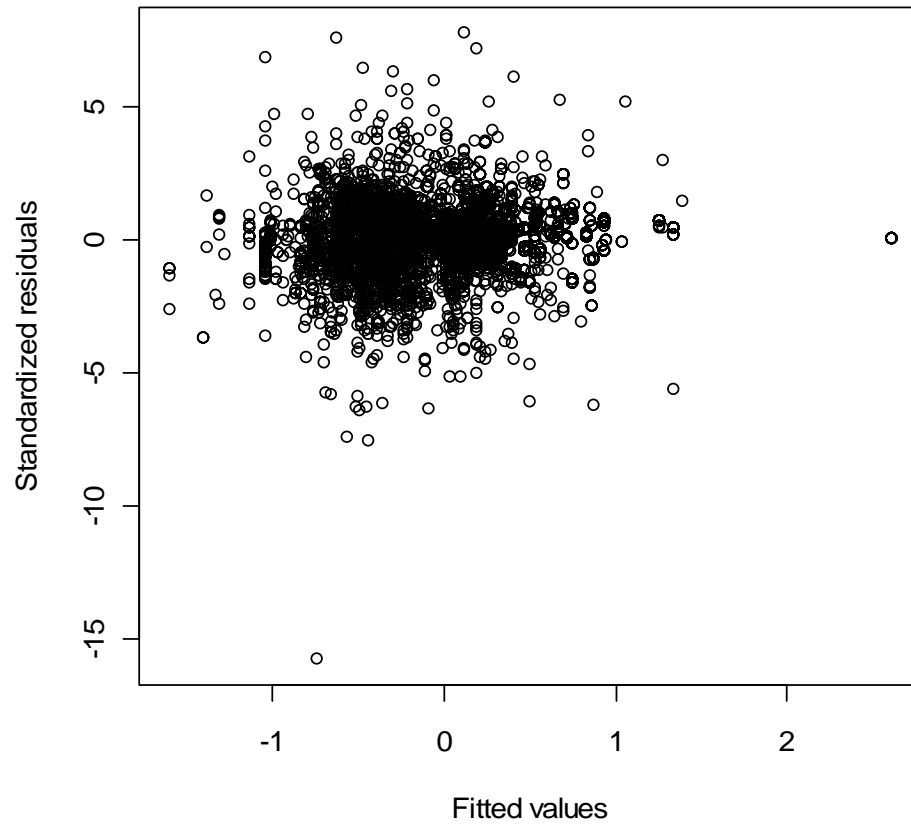


Normal plot of standardized residuals:



REEM tree fit allowing for autocorrelation in the errors within titles

Plot of standardized residuals versus fitted values:



Normal plot of standardized residuals:

