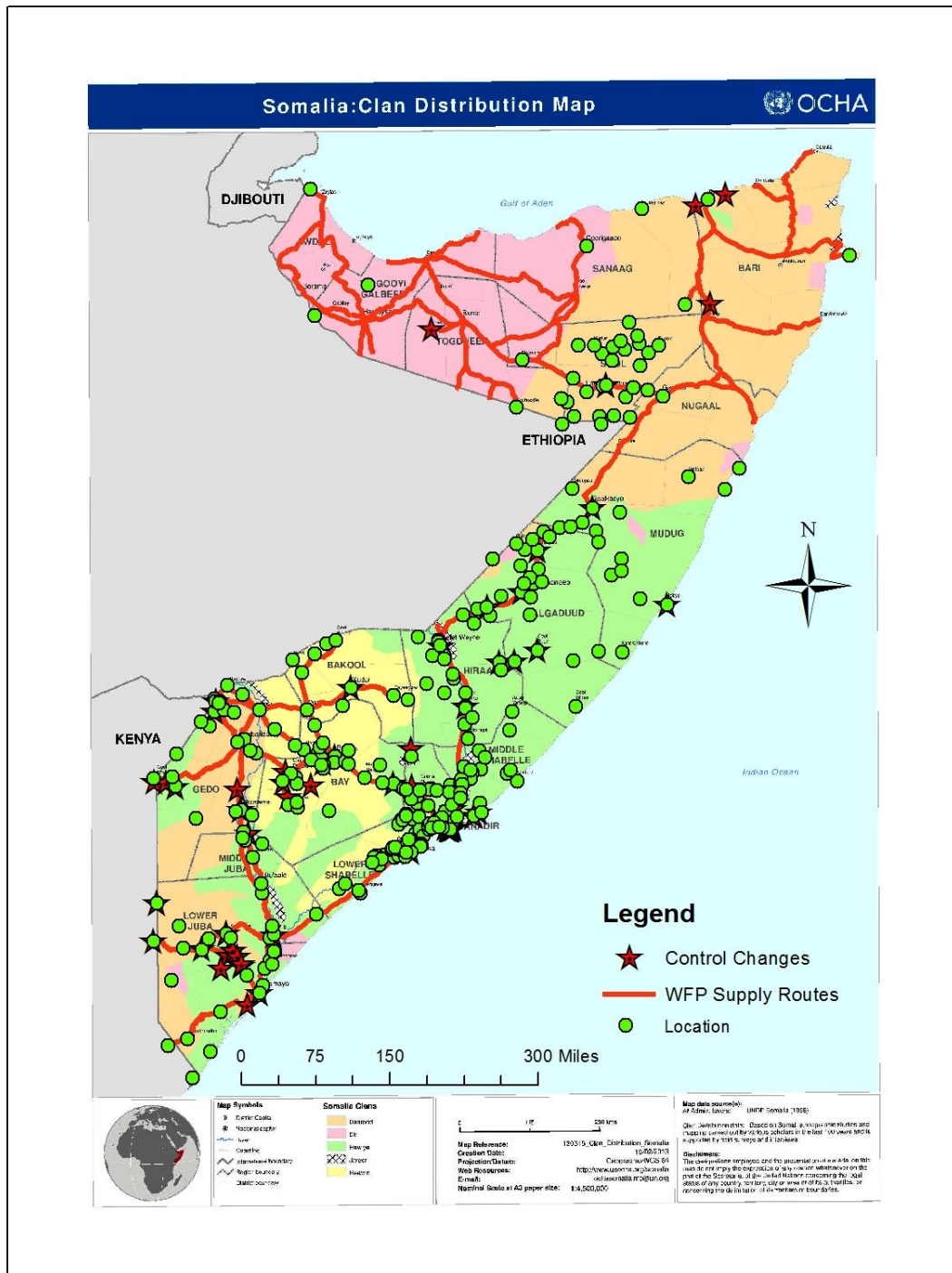
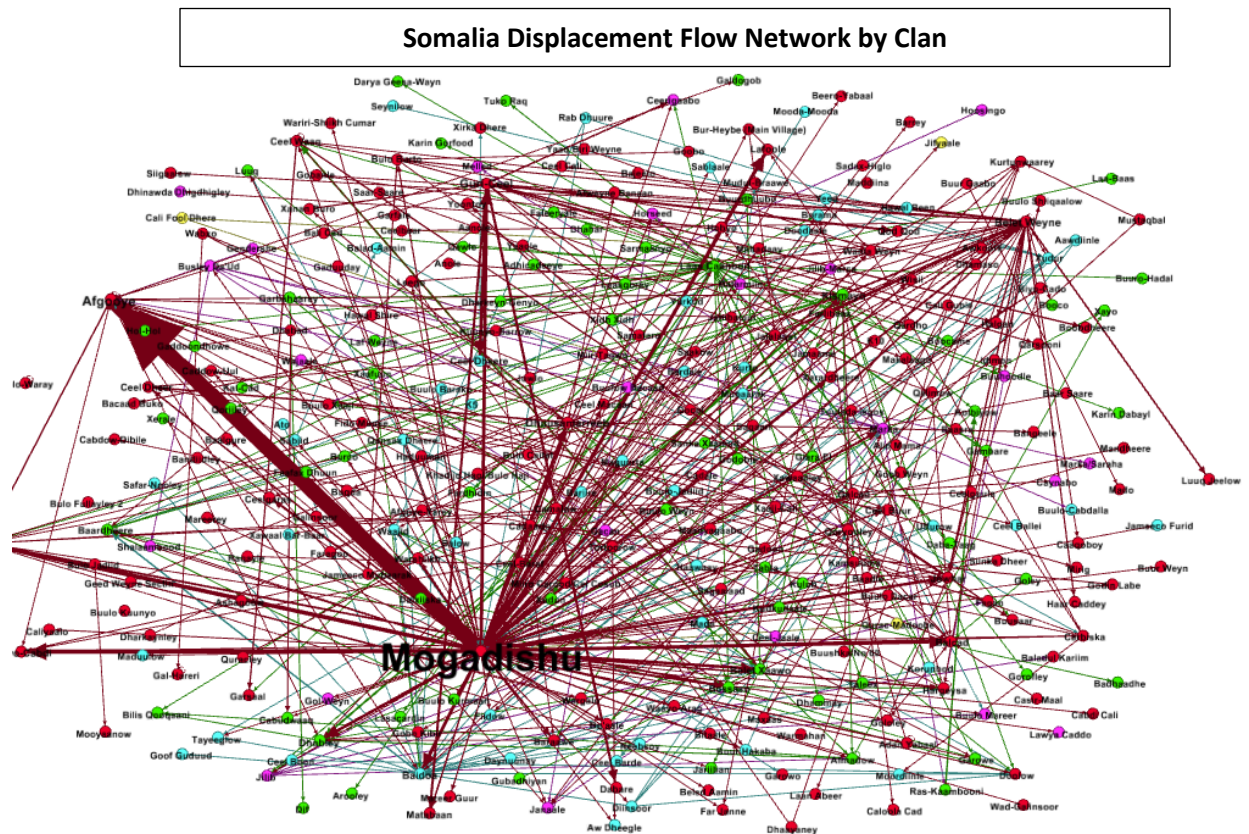


Appendix

Below is the map created in ArcGIS showing the variables used to create the node attributes.

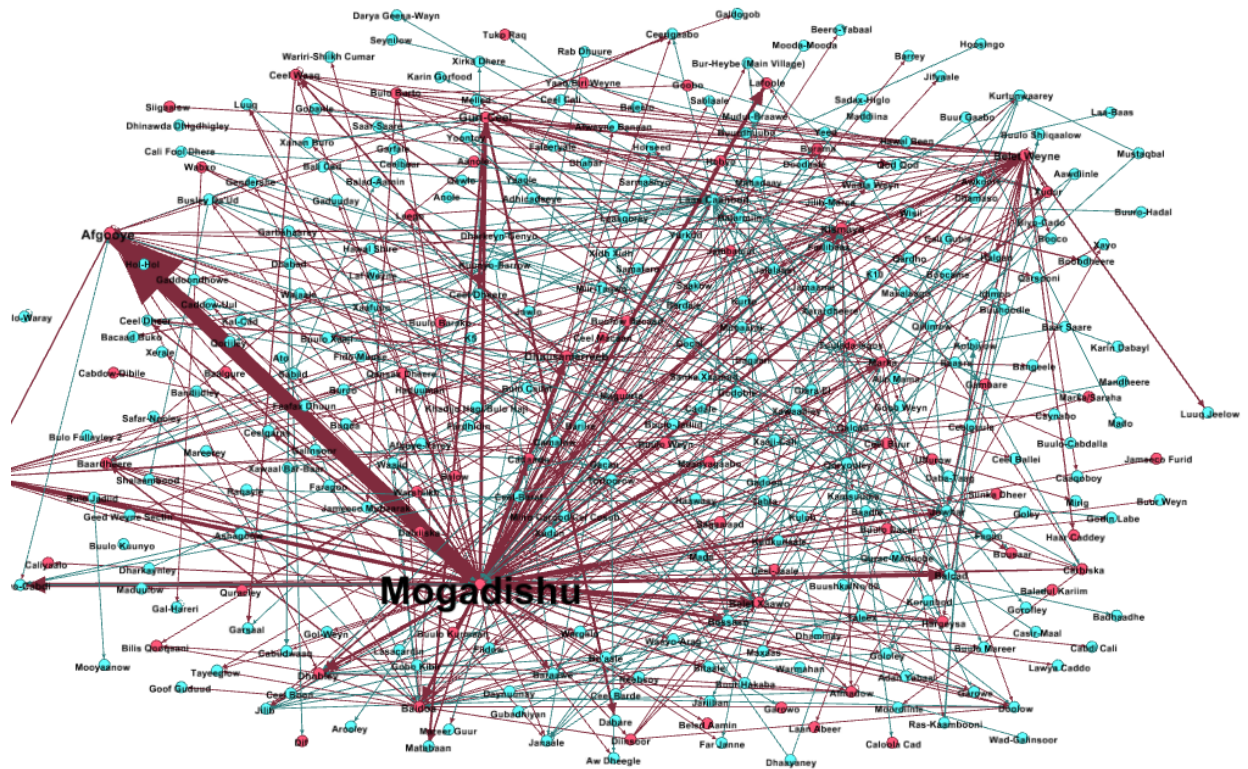


Below are the network plots with colors based on node attributes that are mentioned in the main text.



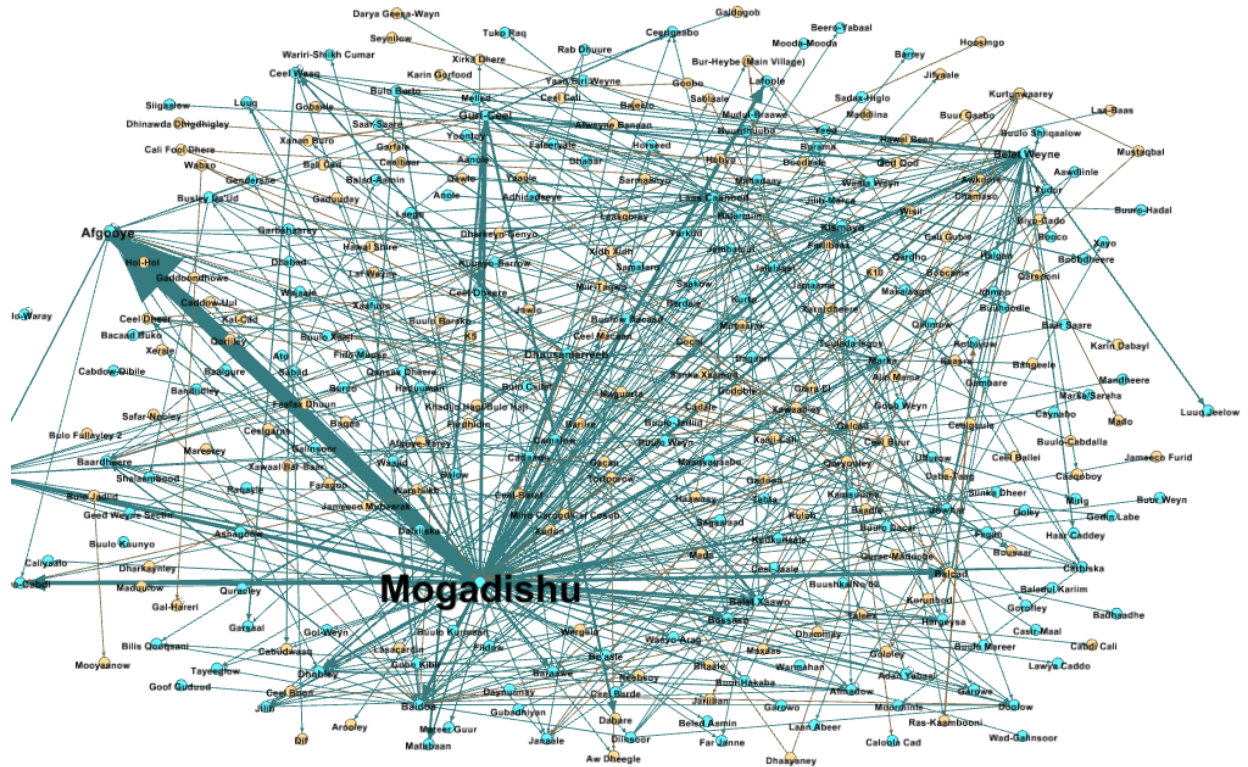
Note: Label size is based on weighted degree centrality. Edges are weighted based on IDP flows. Red nodes are Hawiye. Green nodes are Darod. Purple nodes are Dir. Blue nodes are Rahanweyn. Yellow nodes are Bantu.

Somalia Displacement Flow Network by Control Changes



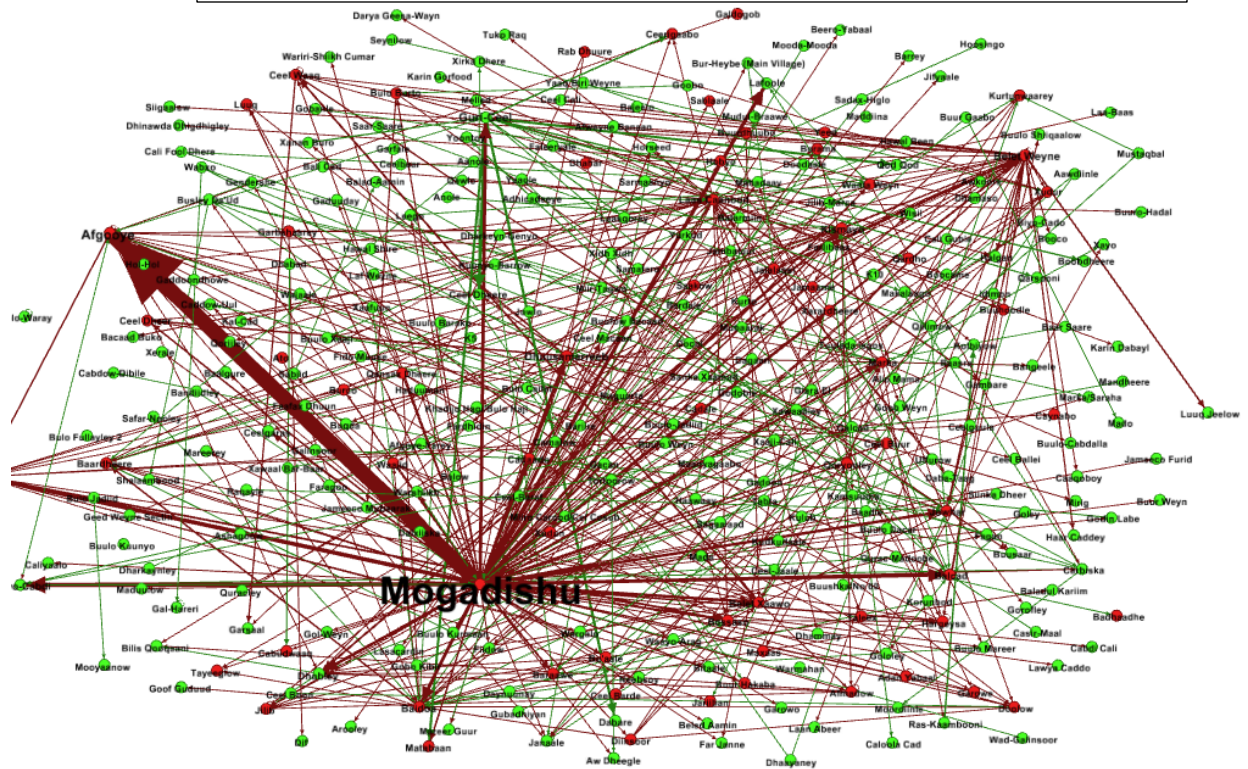
Note: Label size is based on weighted degree centrality. Edges are weighted based on IDP flows. Red nodes have control changes. Blue nodes do not have control changes.

Somalia Displacement Flow Network by Road



Note: Label size is based on weighted degree centrality. Edges are weighted based on IDP flows. Blue nodes have control changes. Orange nodes do not have control changes.

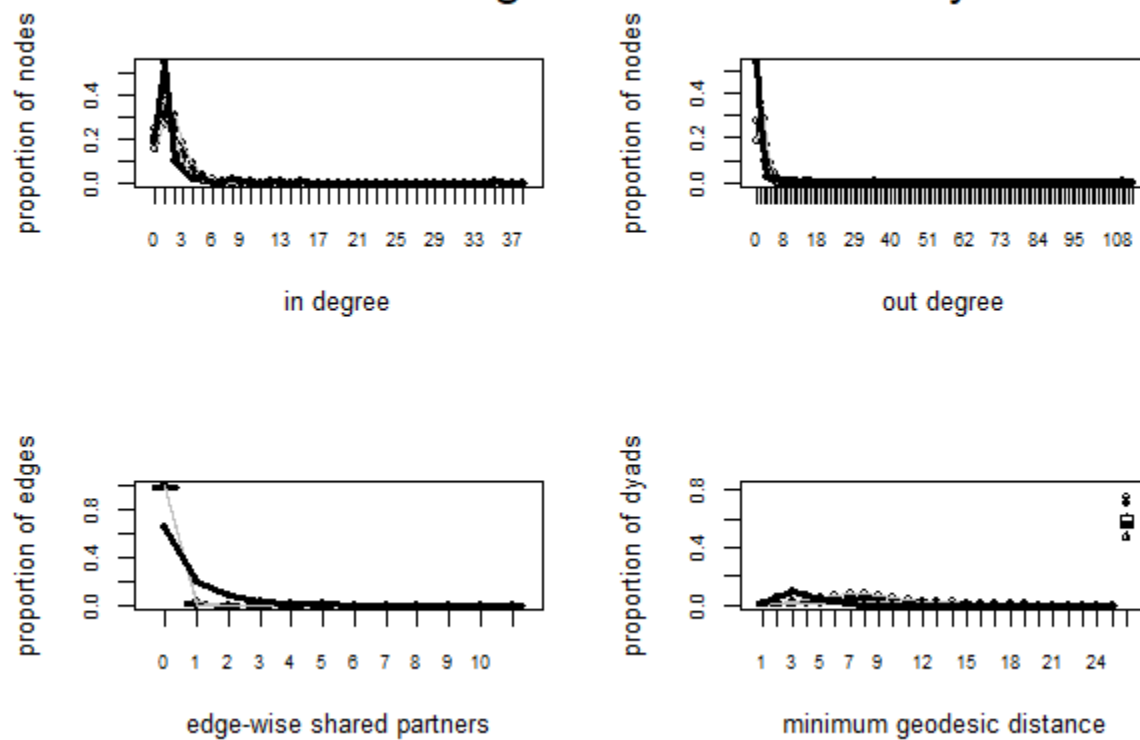
Somalia Displacement Flow Network by Urban



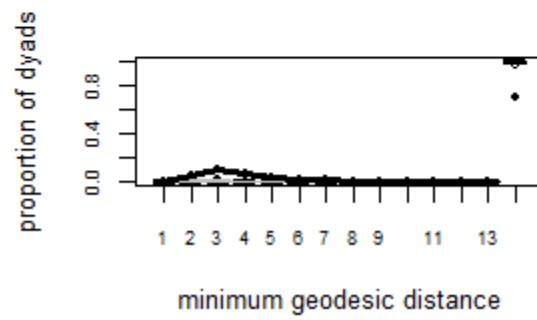
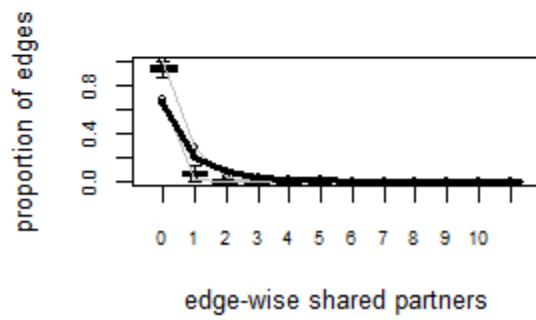
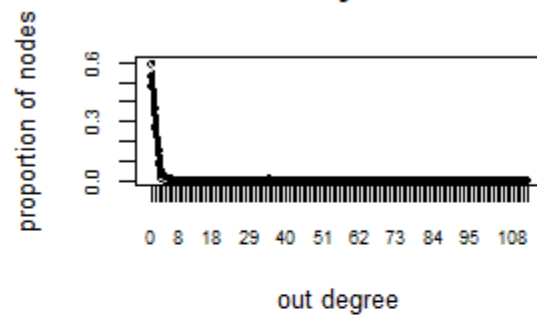
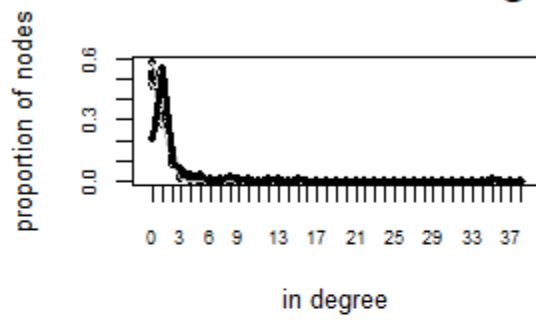
Note: Label size is based on weighted degree centrality. Edges are weighted based on IDP flows. Red nodes are urban. Green nodes are rural.

Below are the goodness of fit plots for each ERGM model. These plots informed the selection of the best fitting models. In the main text, the best fitting model at each threshold level turns out to be the model with the lowest AIC statistic.

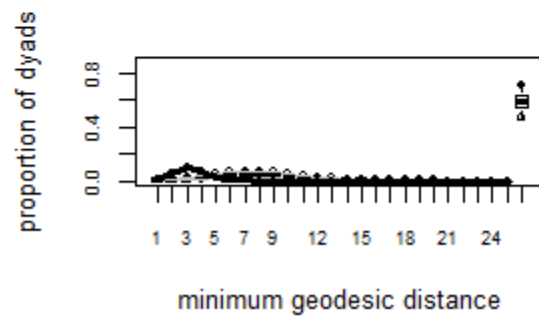
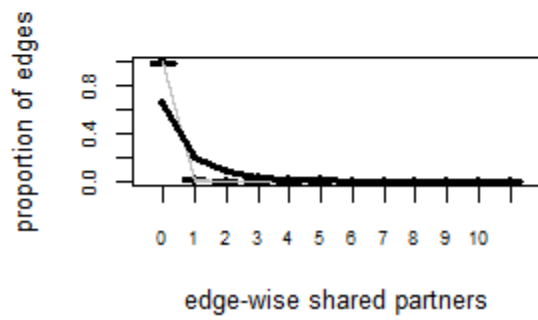
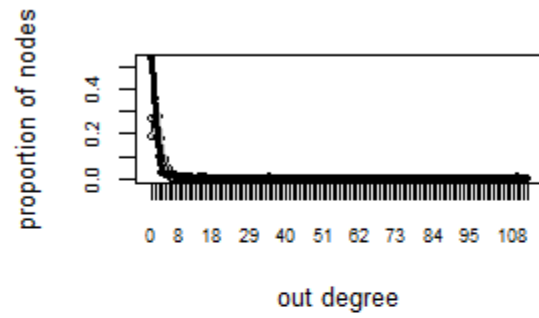
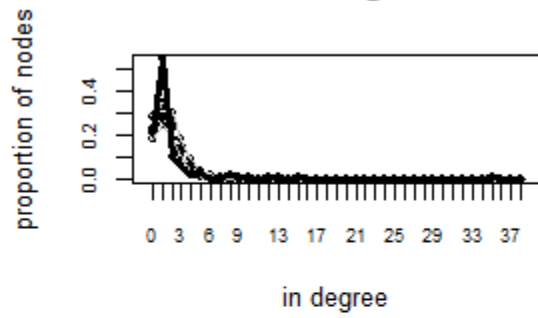
GOF Unweighted Covariates Only



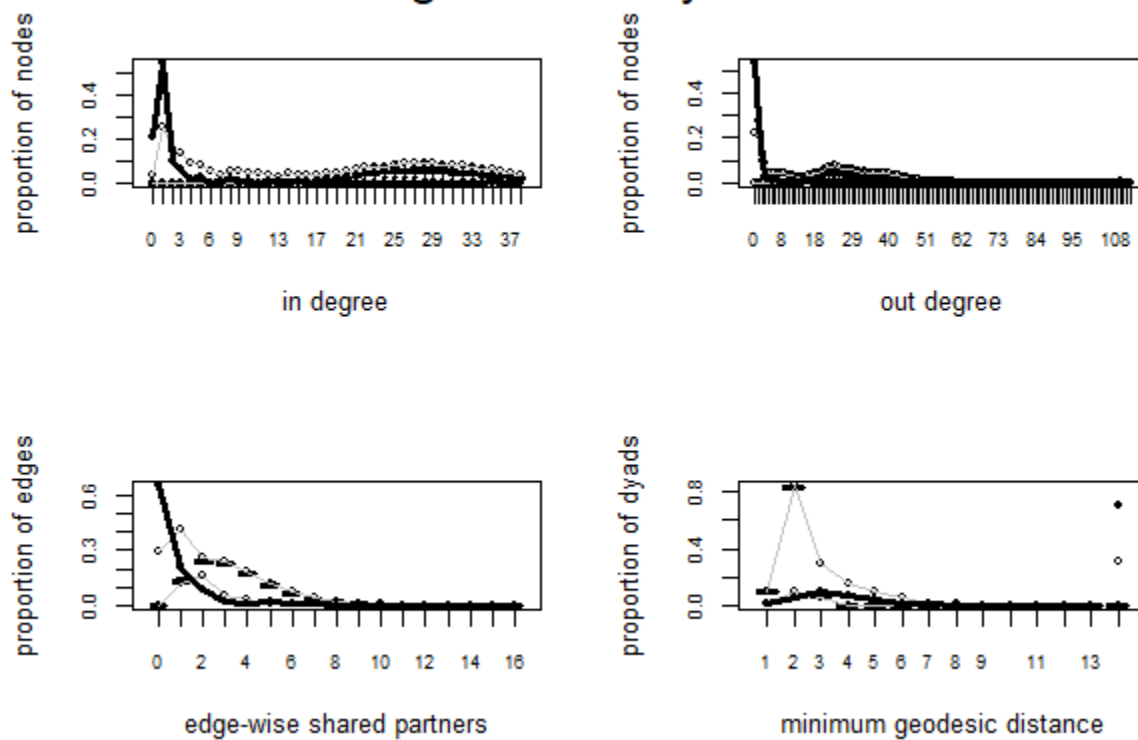
GOF Unweighted with Transitivity



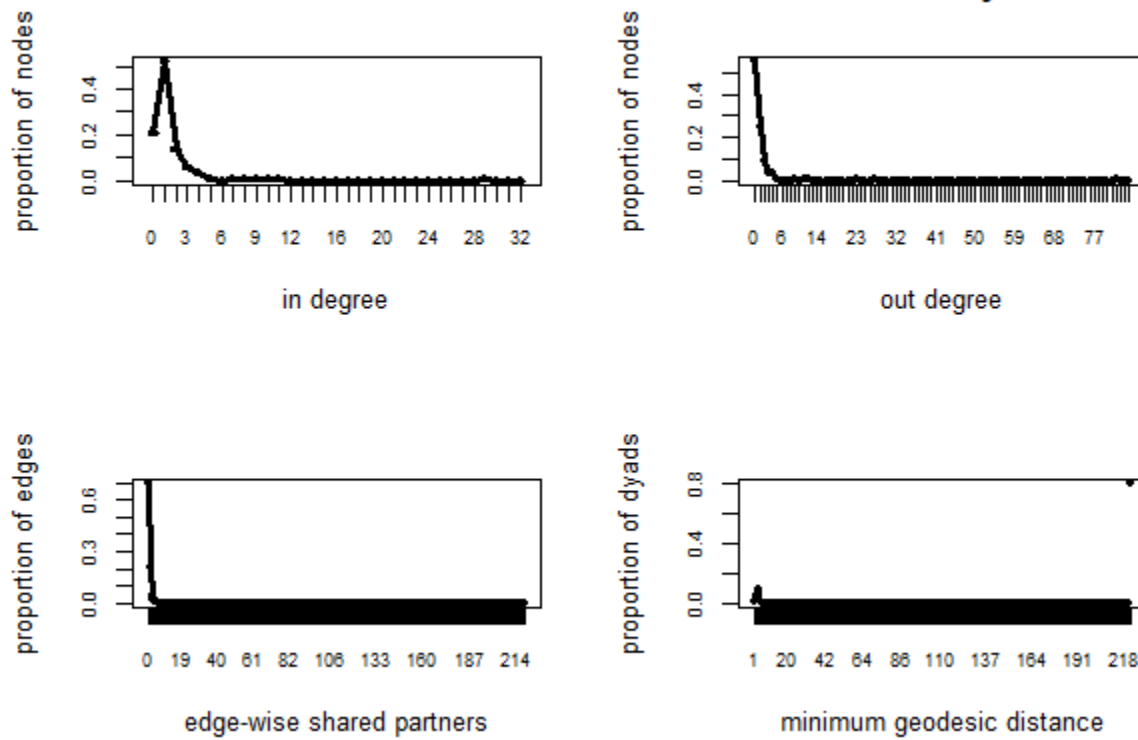
GOF Unweighted with Preferential Attachment



GOF Unweighted with Systemic Variables

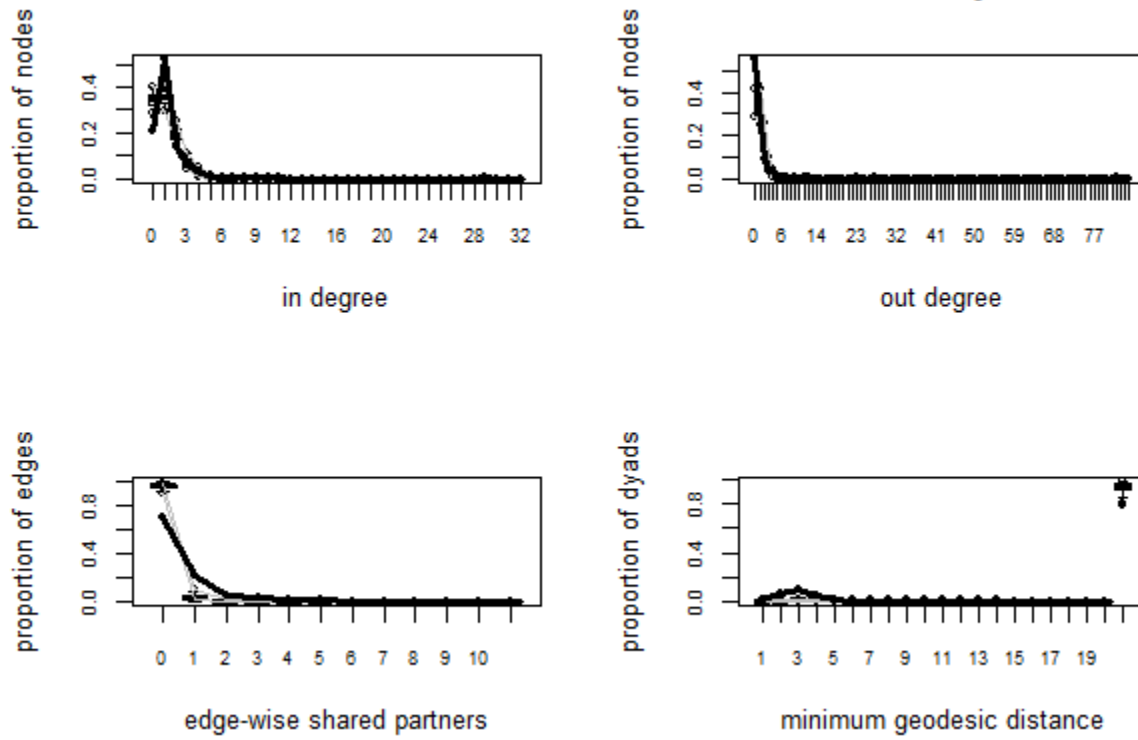


GOF 25th Percentile Covariates Only

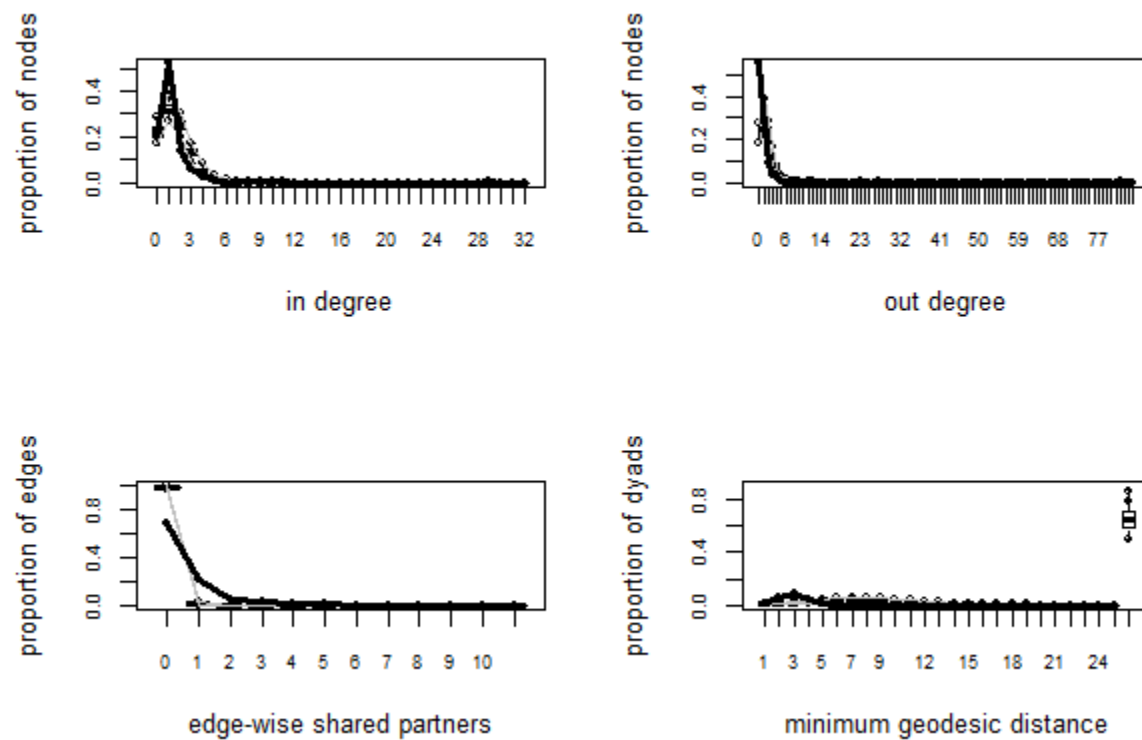


Note: These diagnostics produced some error messages, which is why there are thick solid black lines on two of the plots.

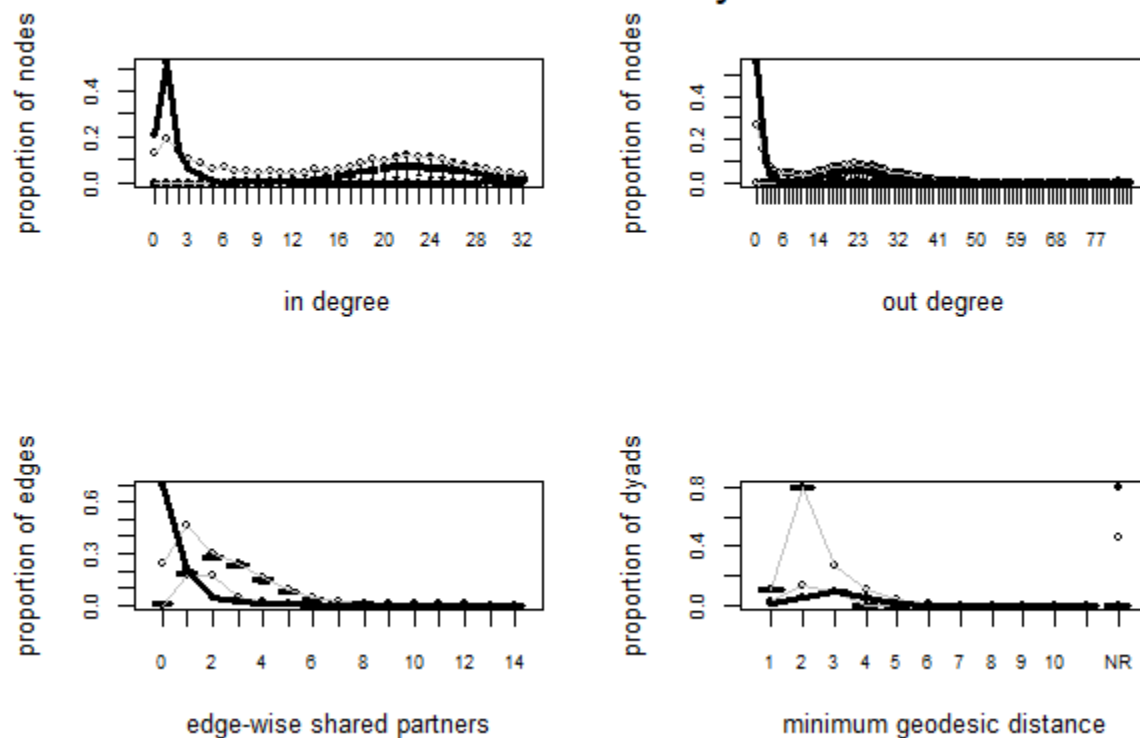
GOF 25th Percentile with Transitivity



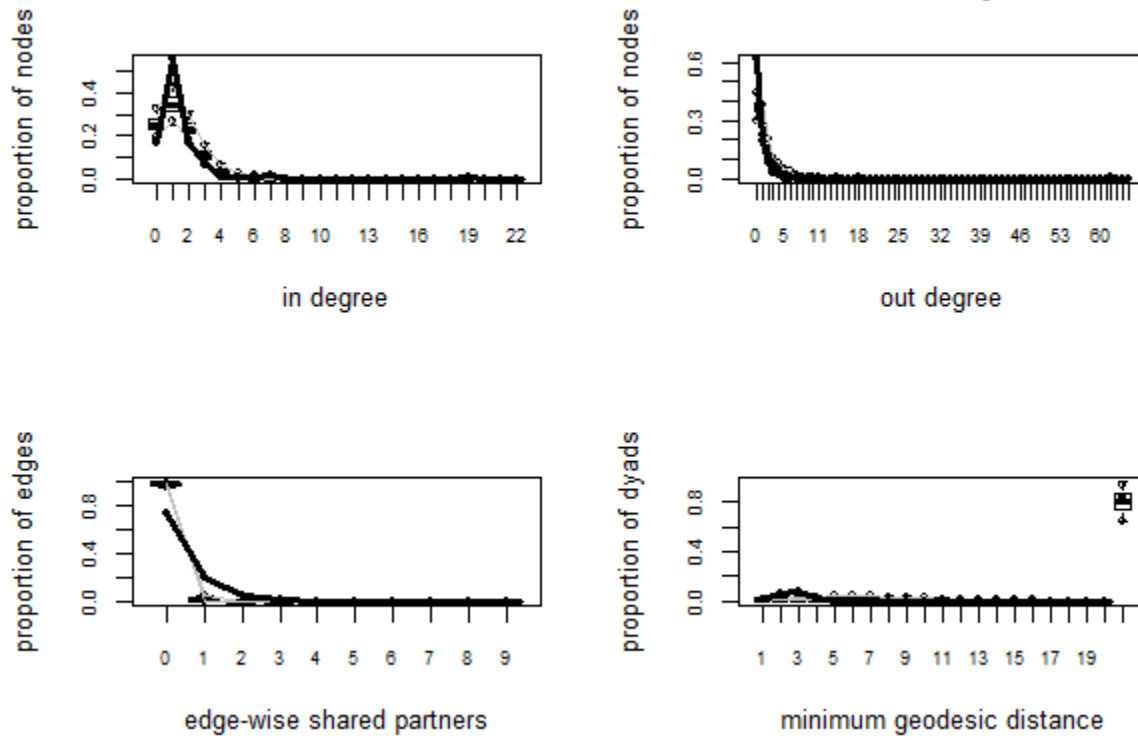
GOF 25th Percentile with Preferential Attachment



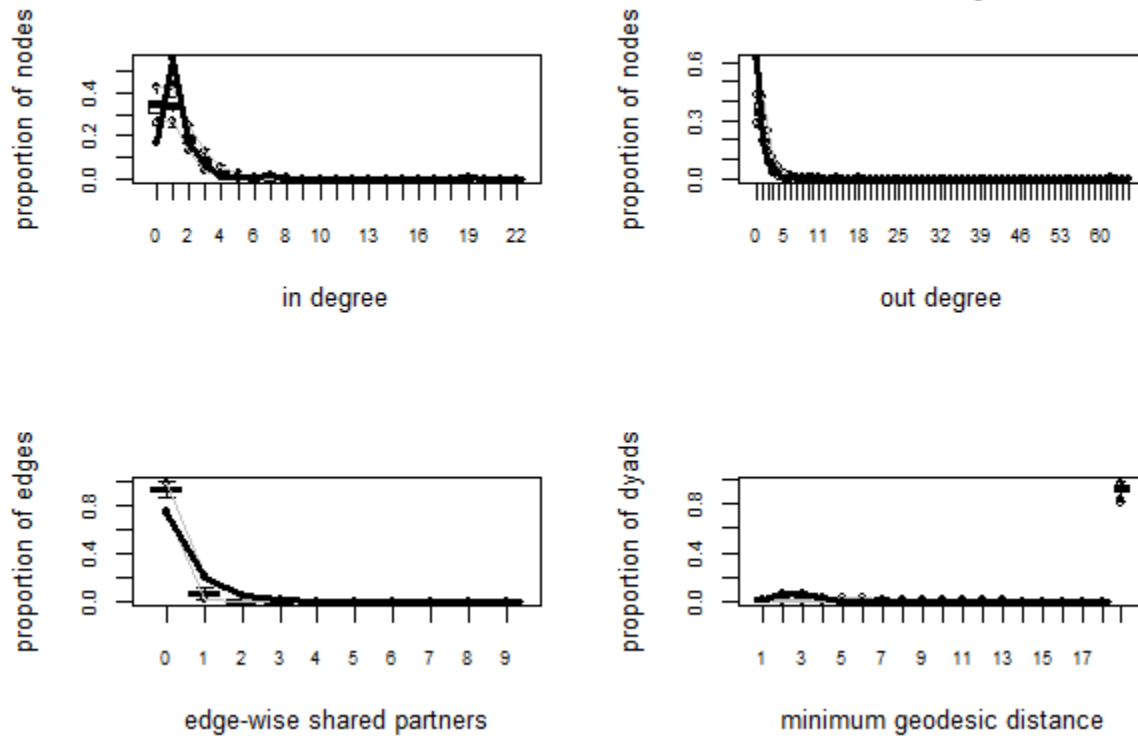
GOF 25th Percentile with Systemic Variables



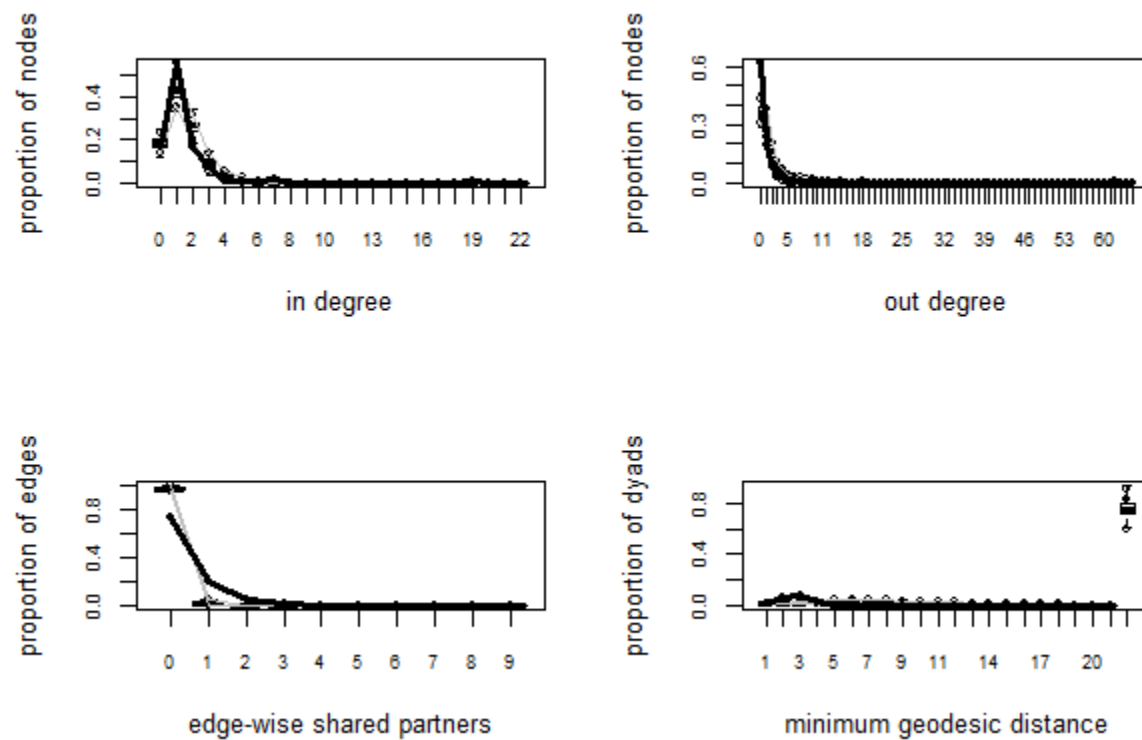
GOF 50th Percentile Covariates Only



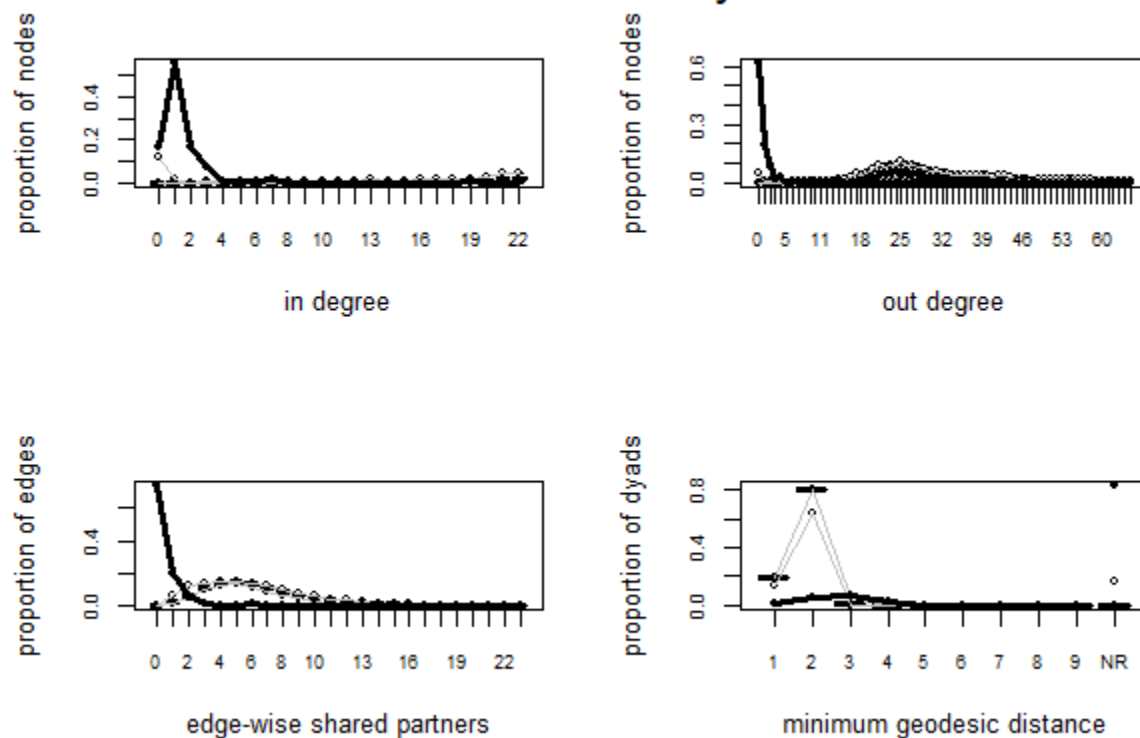
GOF 50th Percentile with Transitivity



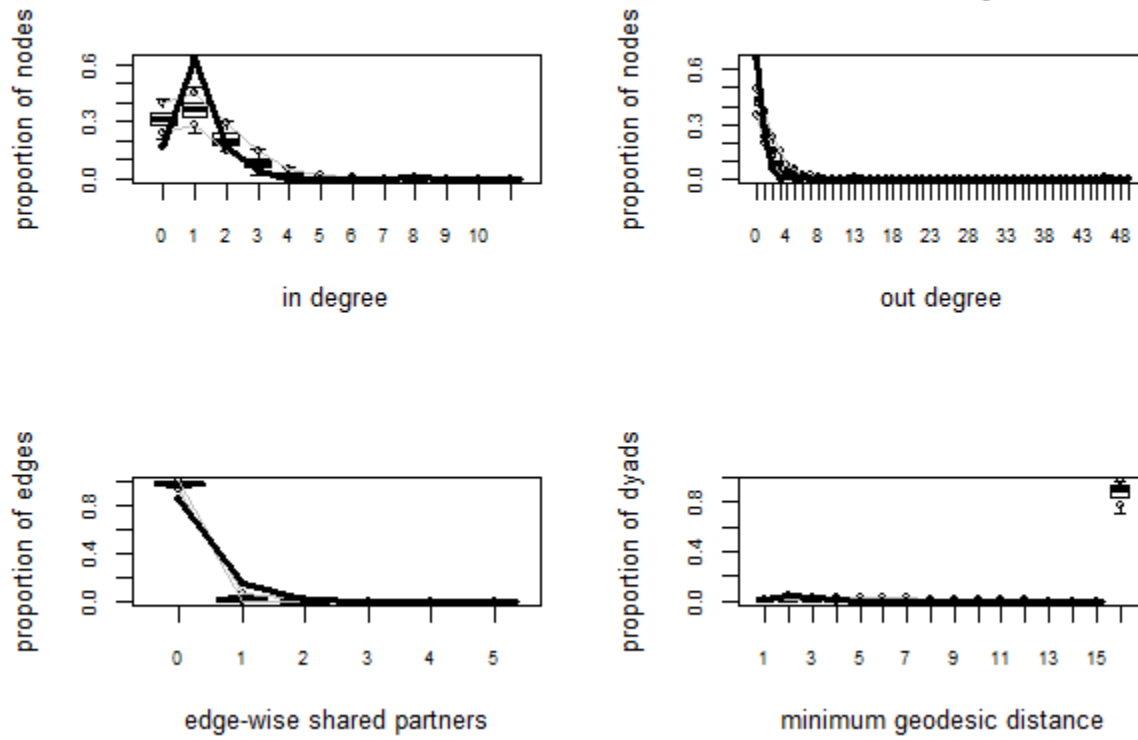
GOF 50th Percentile with Preferential Attachment



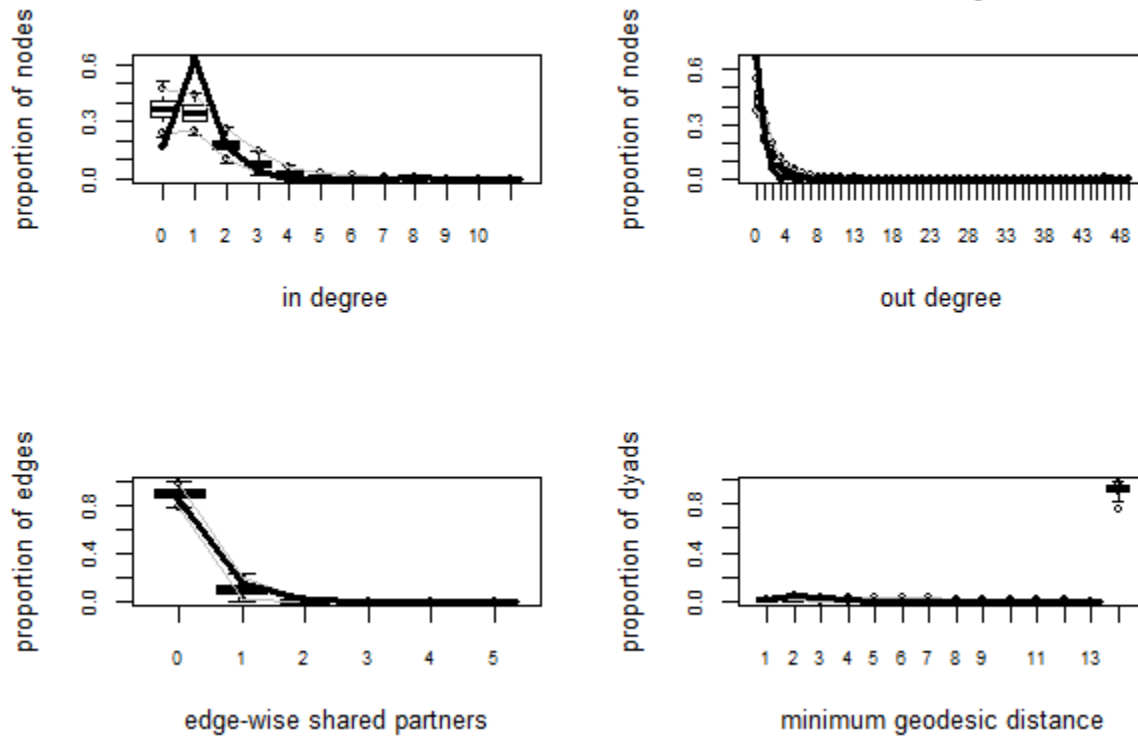
GOF 50th Percentile with Systemic Variables



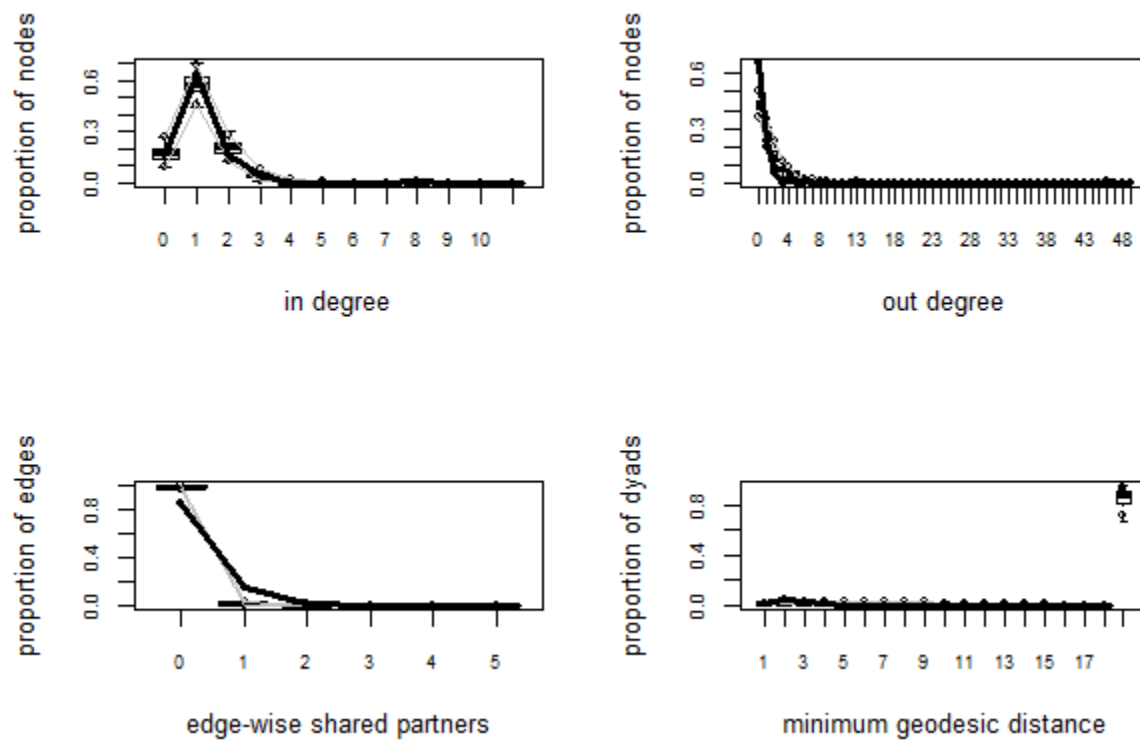
GOF 75th Percentile Covariates Only



GOF 75th Percentile with Transitivity

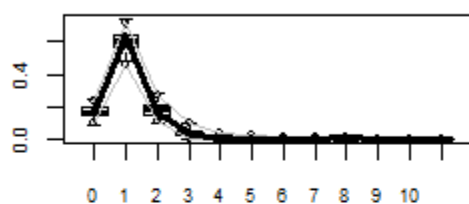


GOF 75th Percentile with Preferential Attachment



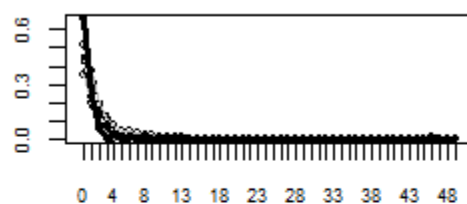
GOF 75th Percentile with Systemic Variables

proportion of nodes



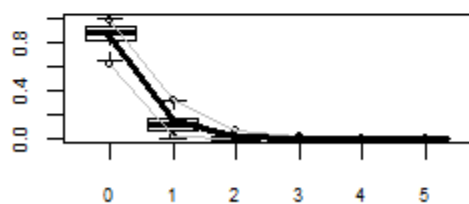
in degree

proportion of nodes



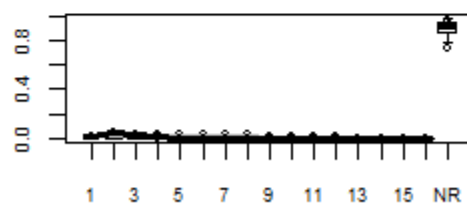
out degree

proportion of edges



edge-wise shared partners

proportion of dyads



minimum geodesic distance