Graph properties:

Nodes	Edges	Global Clustering Coeff.	Average Cluster Coeff.	Assort. Degree	Assort. Nominal
1379917	3843319	0.0602	0.0470	0.1304	-0.0000

Table 1: Summary of the principal graph properties.

Degree properties:

Min	Max	Mean	Median
1	12	2.7852	3.0000

Table 2: Summary of the principal degree properties.

AIC values:

Network	Geometric D.	Poisson D.	Zeta non-free p	Zeta	Right-Truncated Zeta	Altamann D.	MOEZipf	Negative Binomial	Discrete Weibull
TX_Road_Net	5018343.65	4651545.0323	6514322.5153	6355860.928	5685381.1487	5018347.8956	4252645.7293	-	-

Table 3: Values of the AIC.

ΔAIC:

Network	Geometric D.	Poisson D.	Zeta non-free p	Zeta	Right-Truncated Zeta	Altamann D.	MOEZipf	Negative Binomial	Discrete Weibull
TX_Road_Net	765697.9207	398899.303	2261676.786	2103215.1987	1432735.4194	765702.1663	0		

Table 4: Values of the Delta AIC.

BIC values:

Network	Geometric D.	Poisson D.	Zeta non-free p	Zeta	Right-Truncated Zeta	Altamann D.	MOEZipf	Negative Binomial	Discrete Weibull
TX_Road_Net	5018355.7875	4651557.1698	6514322.5153	6355873.0655	5685405.4237	5018372.1707	4252670.0044	-	-

Table 5: Values of the BIC.

ΔBIC:

Network	Geometric D.	Poisson D.	Zeta non-free p	Zeta	Right-Truncated Zeta	Altamann D.	MOEZipf	Negative Binomial	Discrete Weibull
TX_Road_Net	765685.7831	398887.1654	2261652.5109	2103203.0611	1432735.4193	765702.1663	0		

Table 6: Values of the Delta BIC.

Estimated parameters:

Network	q	lambda	gamma_1	gamma_2	K_max	gamma_3	delta	gamma_4	delta_2	gammaNB	pNB	v	p
TX_Road_Net	0.359	2.5726	1.7162	1.1027	12	0	0.4448	5.7668	710.455	-	-	-	-

Table 7: Values of the estimated parameters.

Initial plots

Degree spectrum

Degree spectrum log–log scale

Degree sequence

Degree

Degree sequence log–log scale

Degree

Empirical distribution

Degree
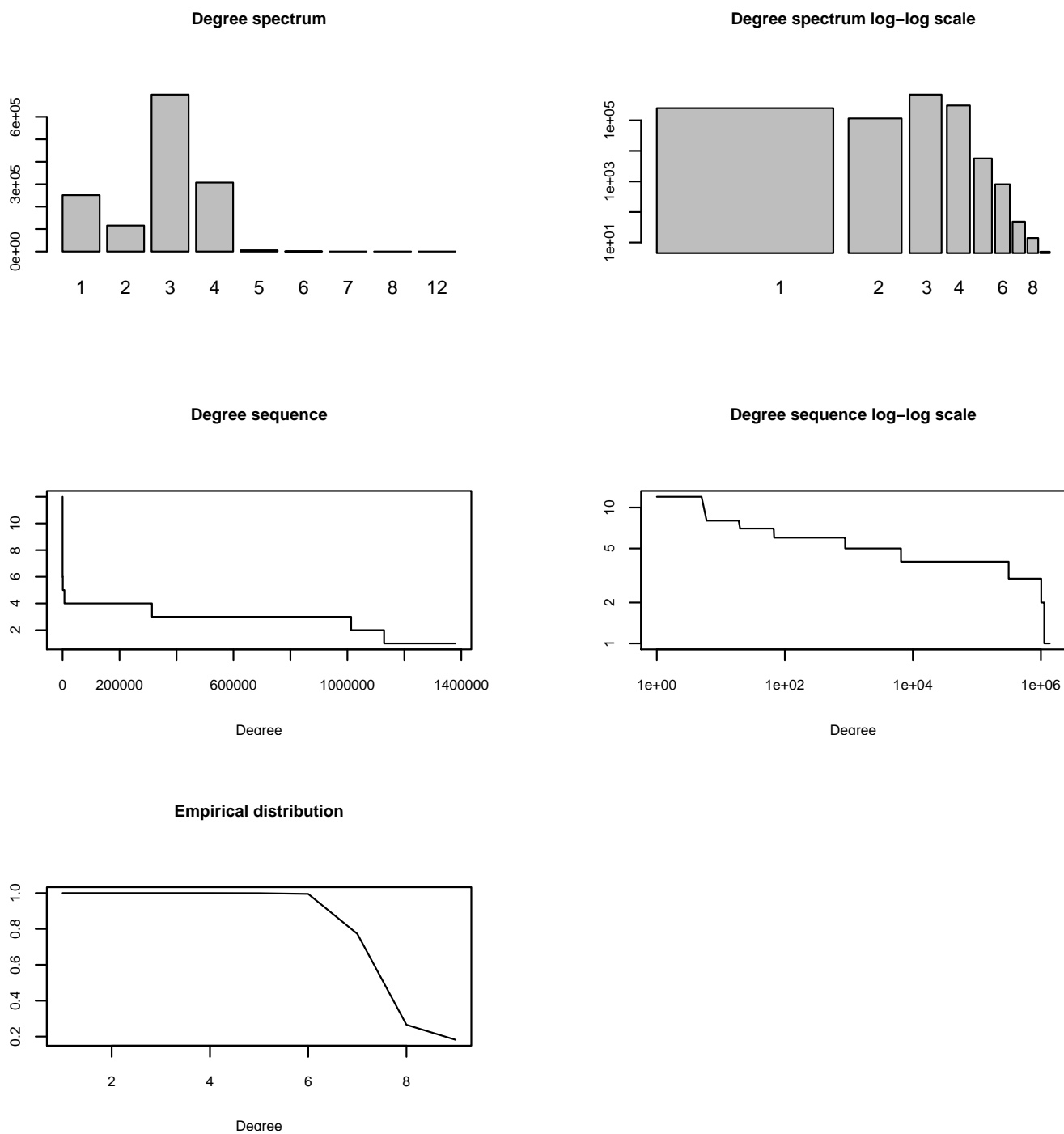
Figure 1: Initial plots.

Fitted model plots:
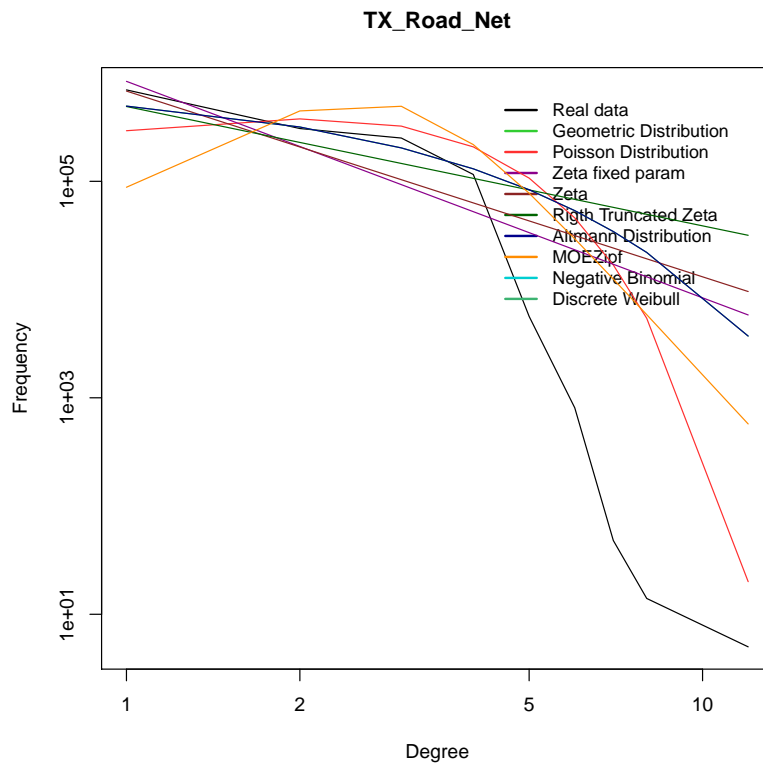
TX_Road_Net
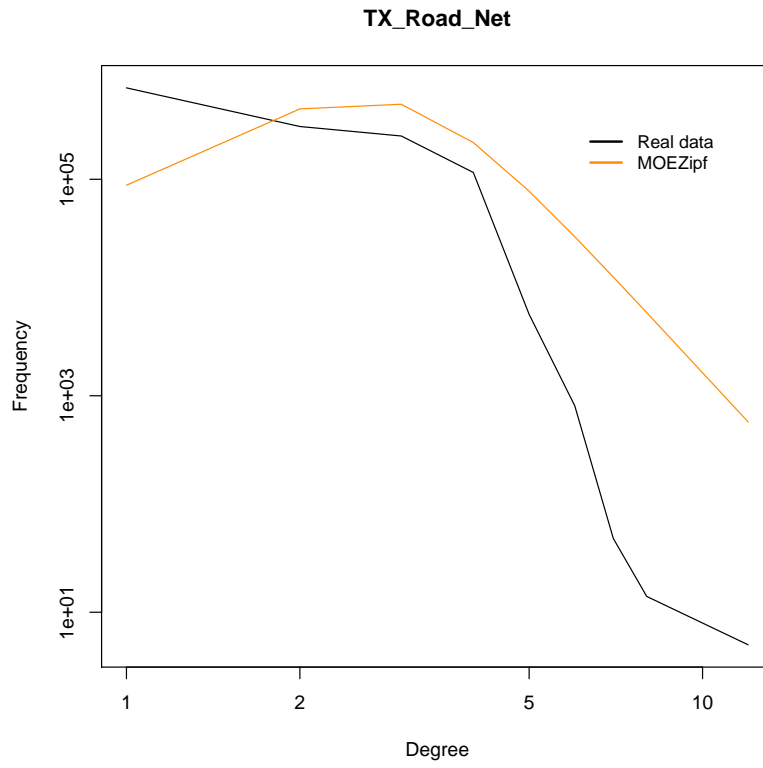
Figure 2: Best Model Fitting the data.

TX_Road_Net

Figure 3: Best Model Fitting the data.