Graph properties:

Nodes	Edges	Global Clustering Coeff.	Average Cluster Coeff.	Assort. Degree	Assort. Nominal
1965206	5533213	0.0604	0.0464	0.1260	-0.0000

Table 1: Summary of the principal graph properties.

Degree properties:

Min	Max	Mean	Median
1	12	2.8156	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 Weibu
CA_Road_Net	7199660.9043	6579923.9499	9402158.2027	9158503.8047	8164929.9428	7199666.2427	5980930.7026	-	-

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
CA_Road_Net	1218730.2017	598993.2473	3421227.5001	3177573.1021	2183999.2402	1218735.5401	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 Weibu
CA_Road_Net	7199673.3954	6579936.441	9402158.2027	9158516.2958	8164954.925	7199691.225	5980955.6848	-	-

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
CA_Road_Net	1218717.7106	598980.7562	3421202.5179	3177560.611	2183999.2402	1218735.5402	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
CA_Road_Net	0.3552	2.6082	1.7076	1.0803	12	0	0.4388	5.939	926.8485	-	-	-	-

Table 7: Values of the estimated parameters.

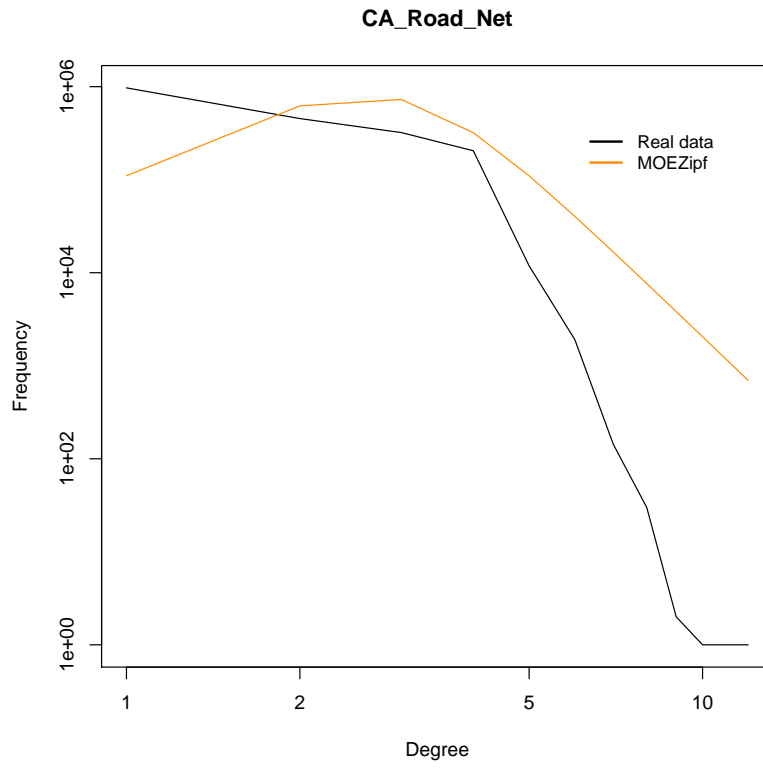**Initial plots**
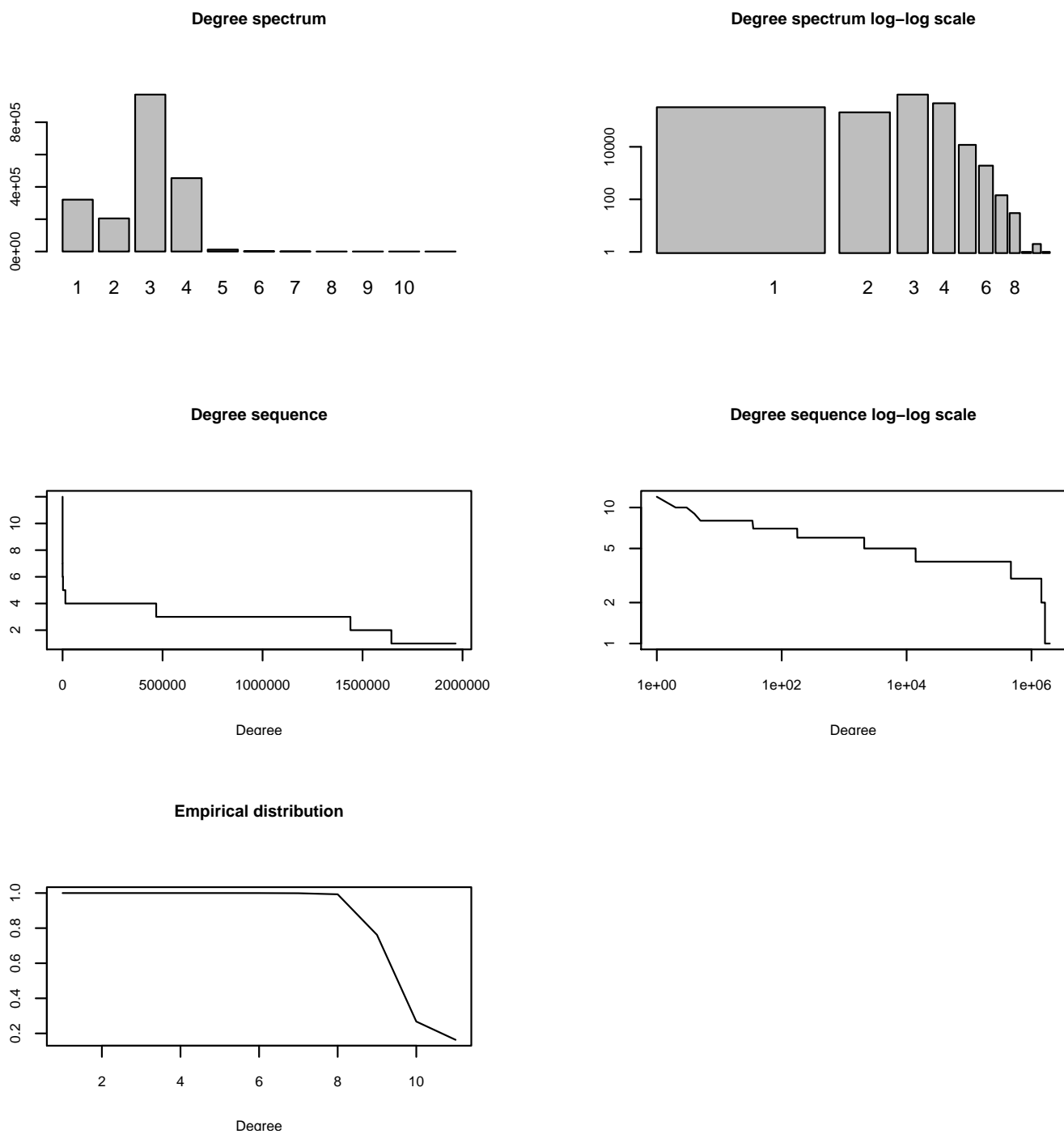
Figure 1: Initial plots.

Fitted model plots:

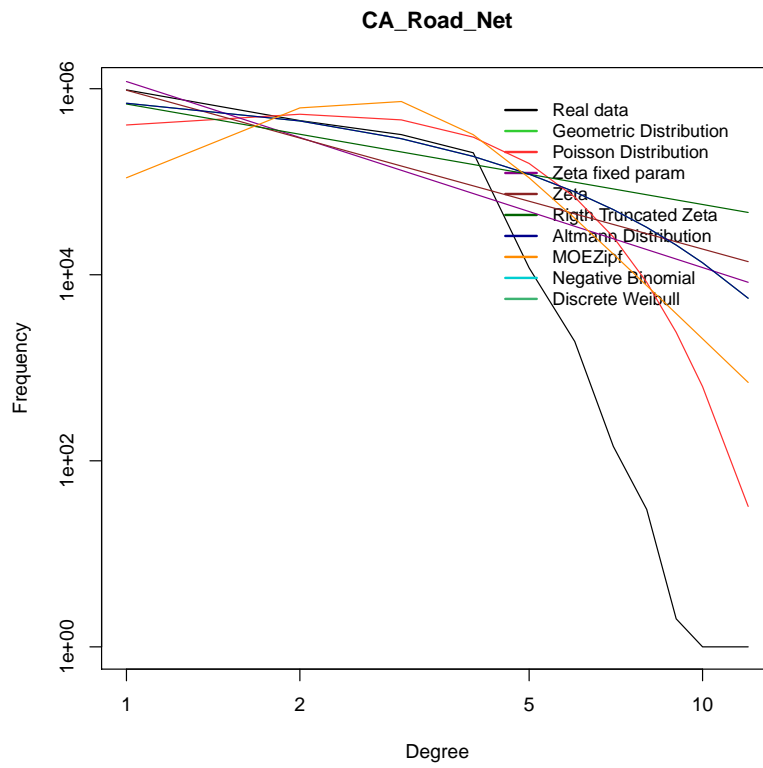**CA_Road_Net**

Figure 2: Best Model Fitting the data.

CA_Road_Net

Figure 3: Best Model Fitting the data.