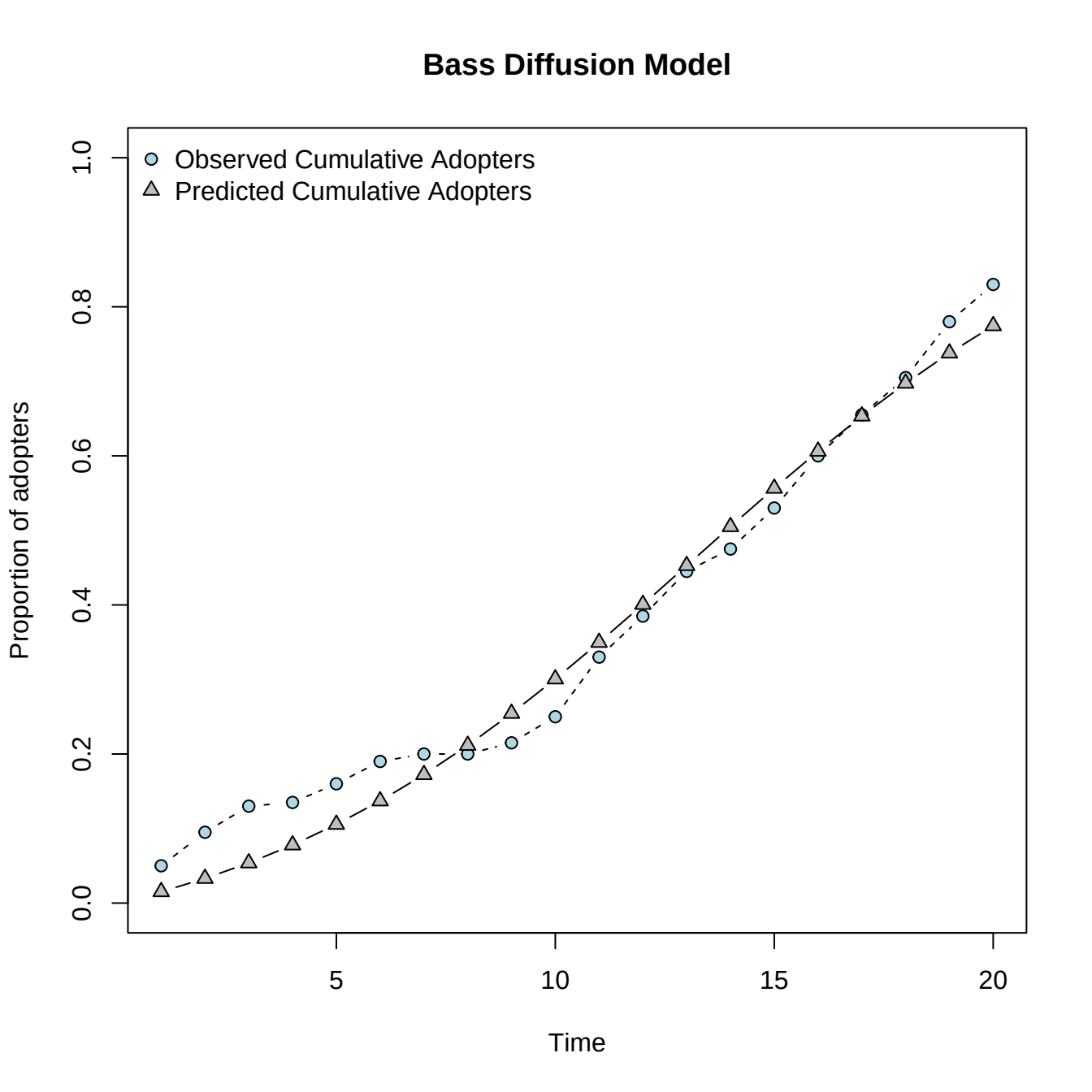
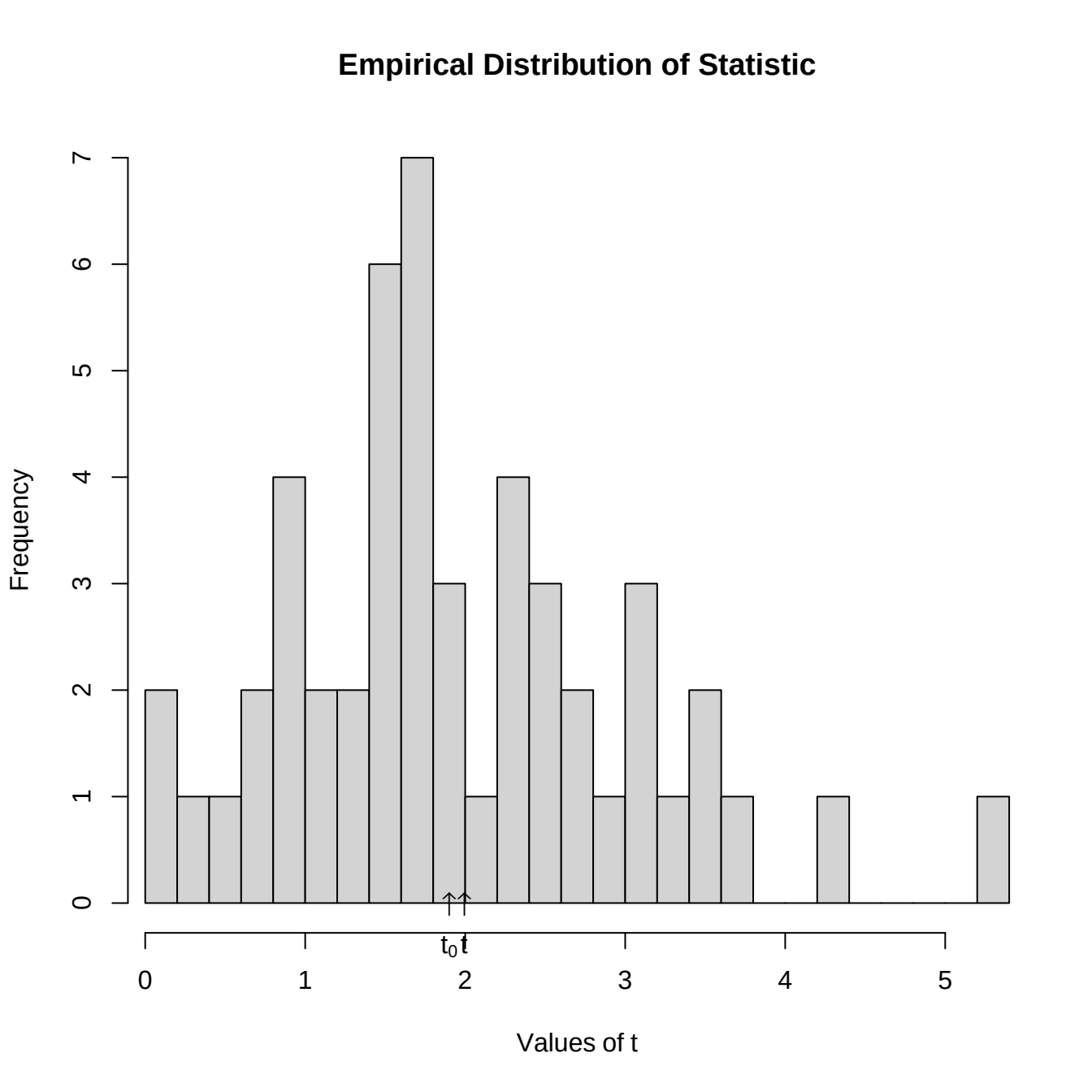
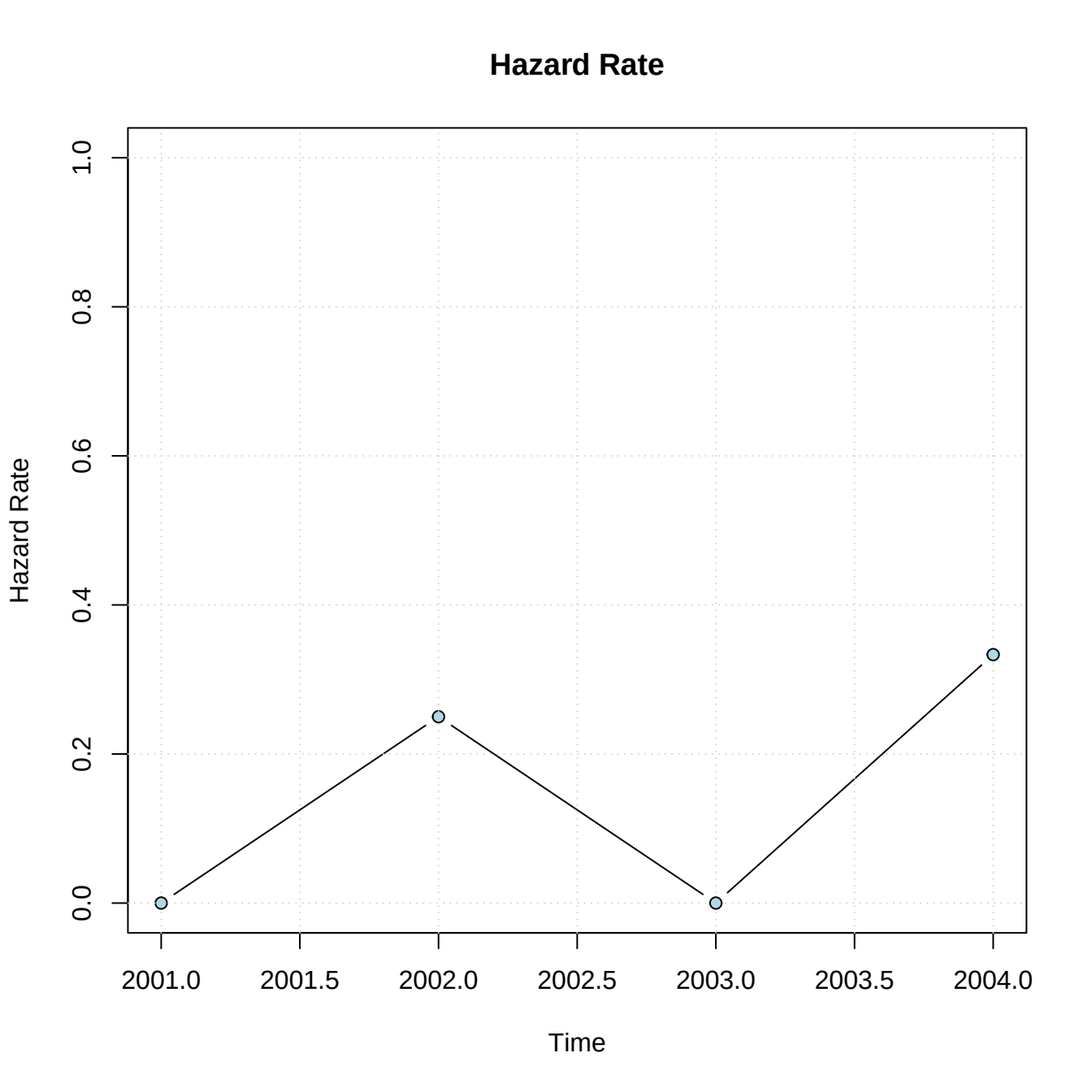
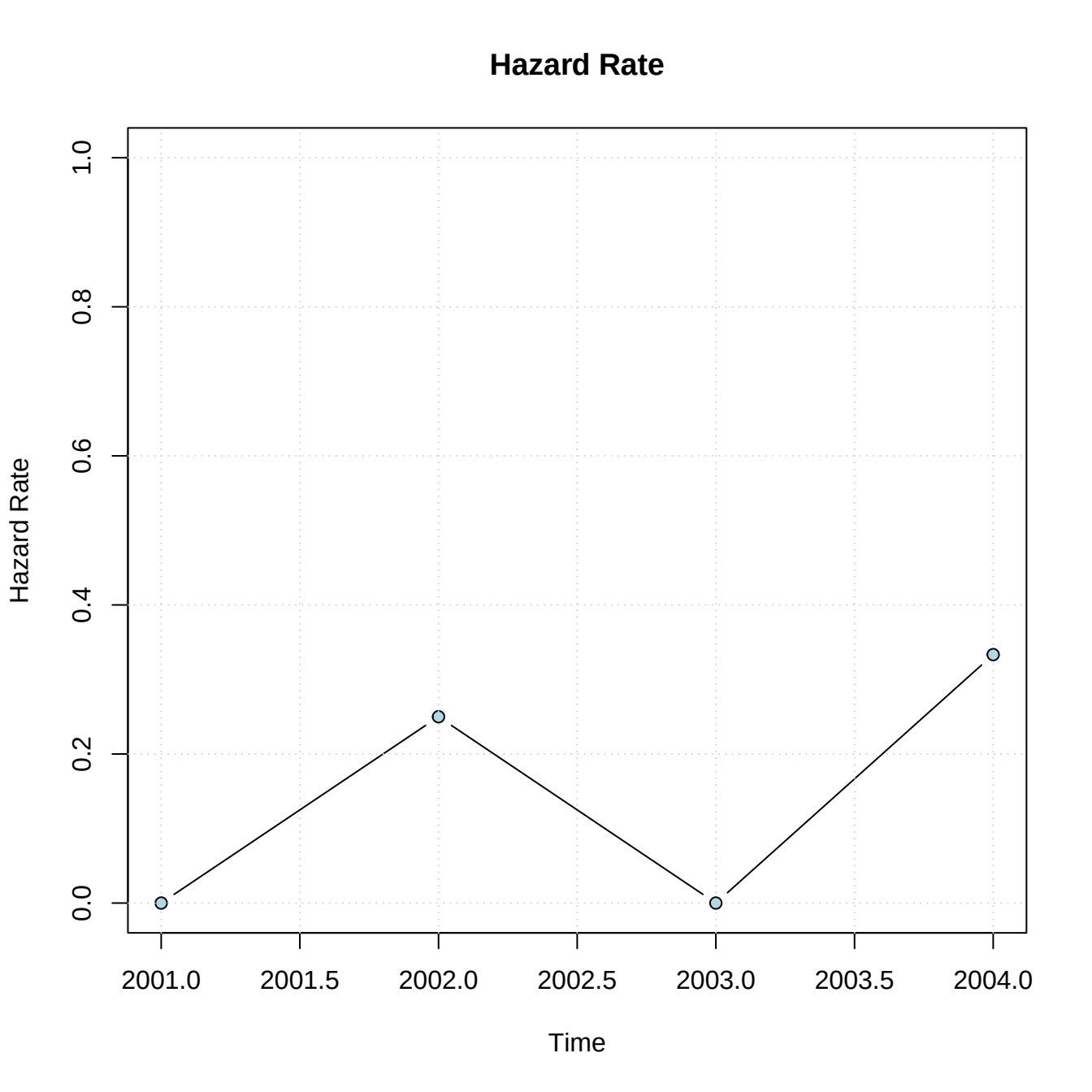
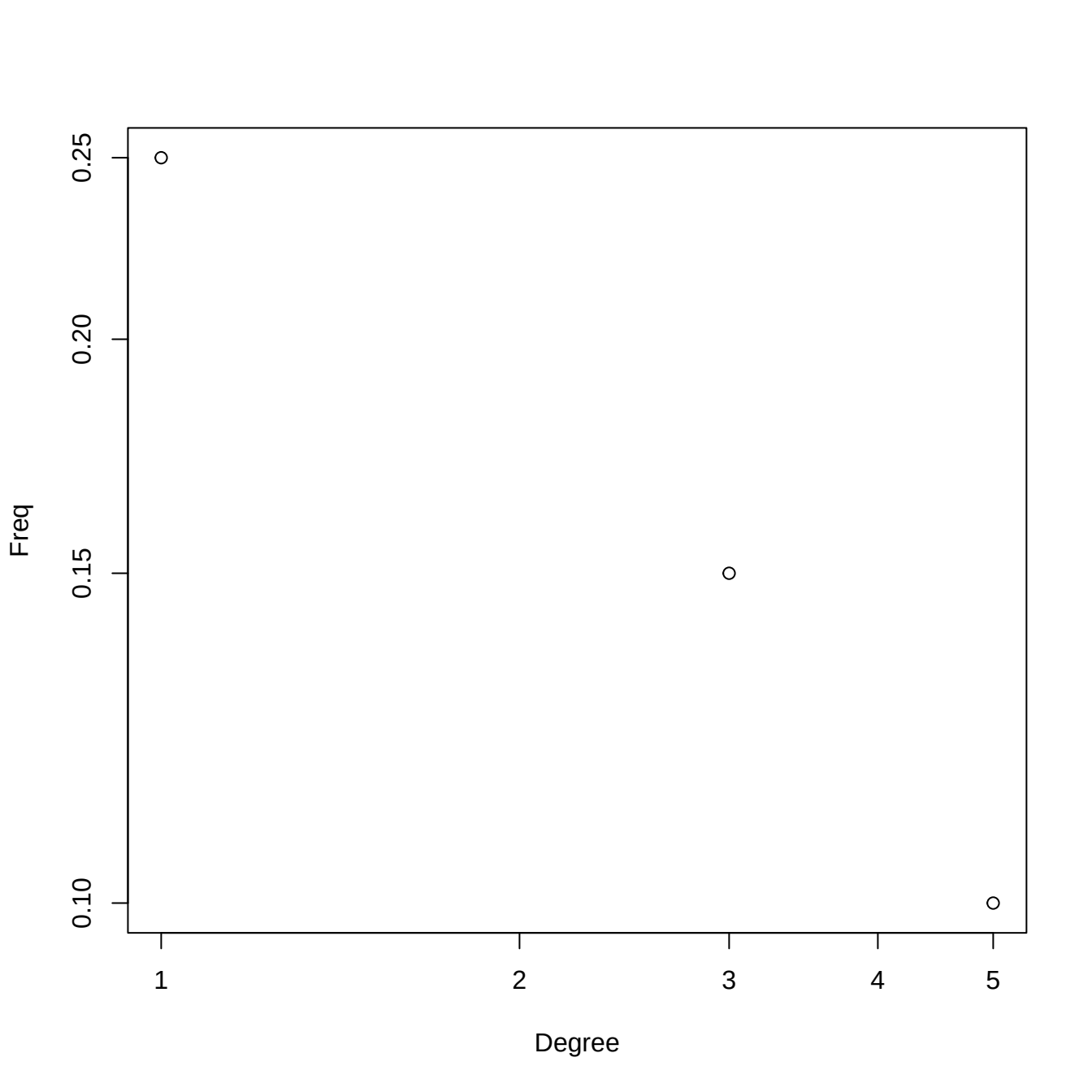

Bass Diffusion Model
Observed Cumulative Adopters
Predicted Cumulative Adopters
Proportion of adopters
0.0
0.2
0.4
0.6
0.8
1.0
5
10
15
20
Time

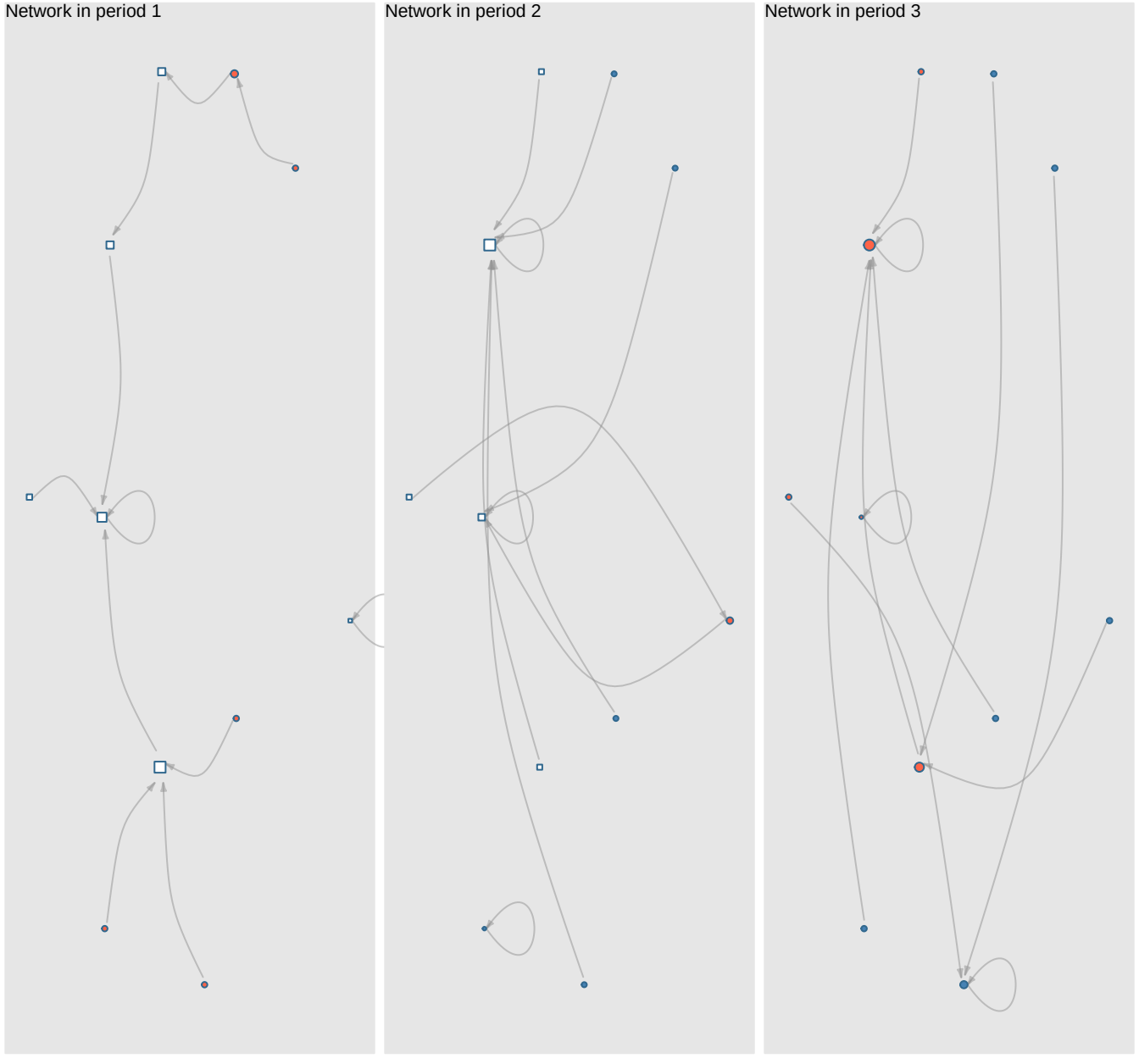

Empirical Distribution of Statistic
Frequency
0
1
2
3
4
5
6
7
t_0 t
0
1
2
3
4
5
Values of t


Hazard Rate
Hazard Rate
1.0
0.8
0.6
0.4
0.2
0.0
2001.0
2001.5
2002.0
2002.5
2003.0
2003.5
2004.0
Time

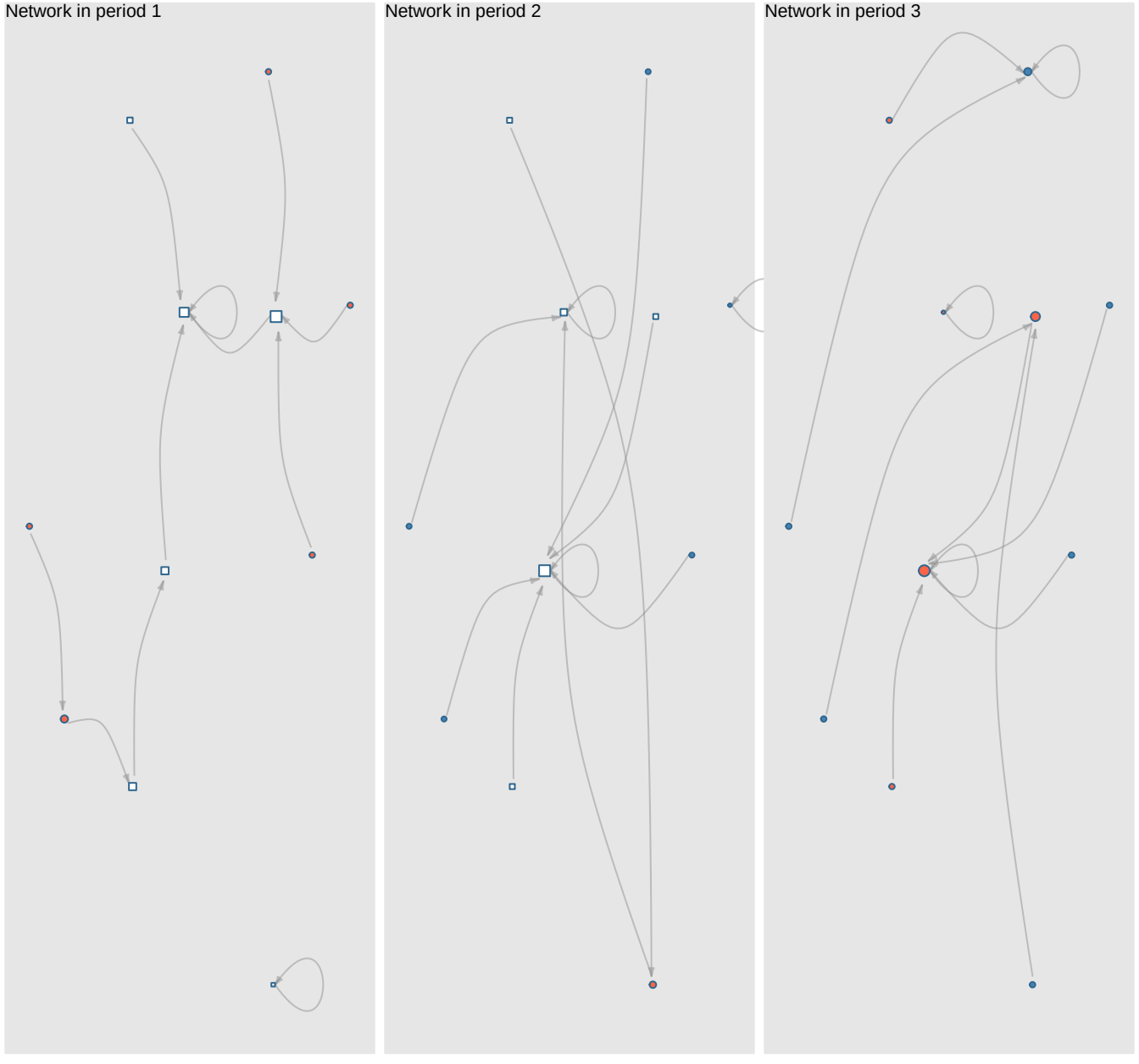

Hazard Rate
Hazard Rate
1.0
0.8
0.6
0.4
0.2
0.0
2001.0
2001.5
2002.0
2002.5
2003.0
2003.5
2004.0
Time


Freq
0.25
0.20
0.15
0.10
1
2
3
4
5
Degree

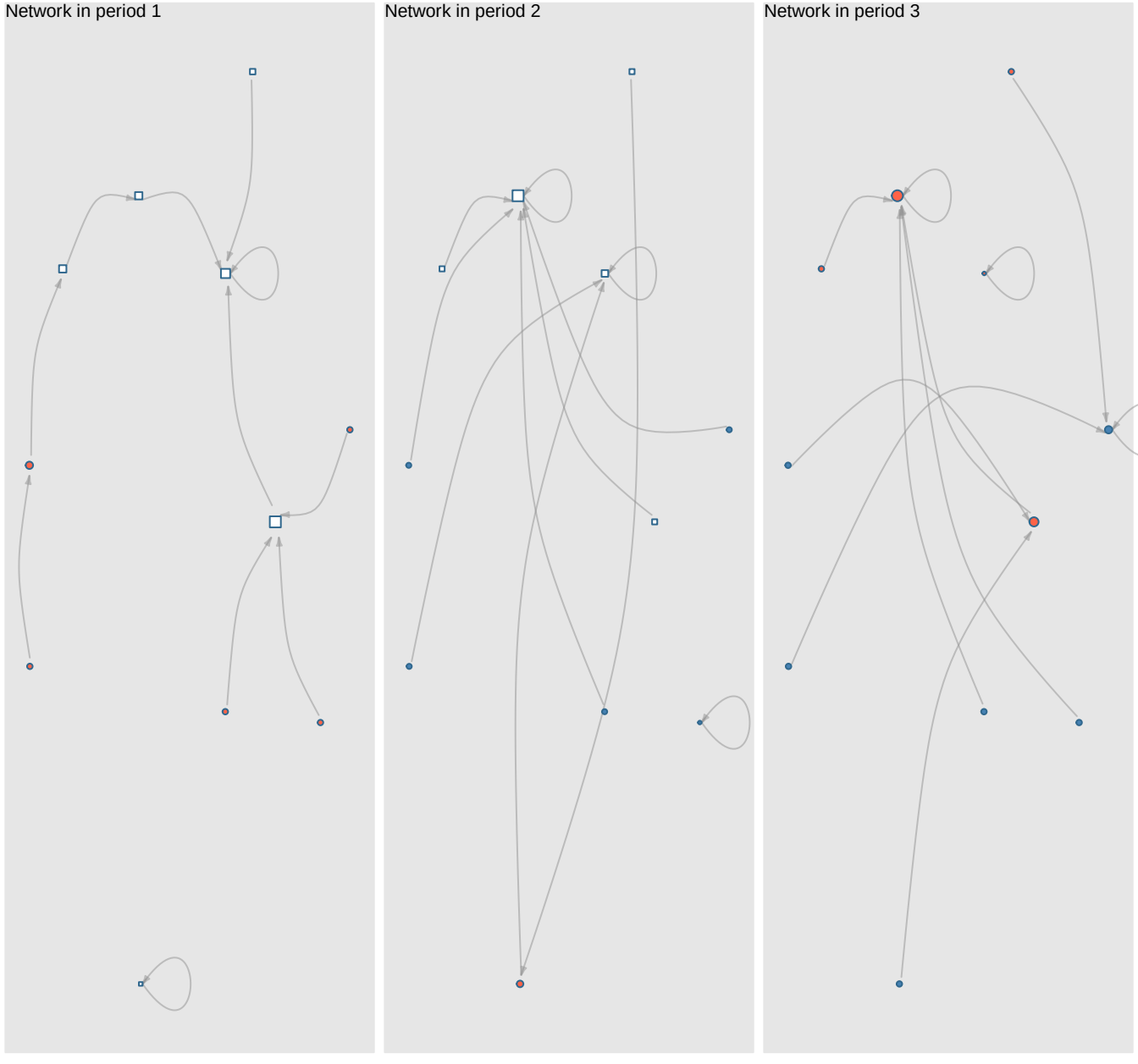
Diffusion Network



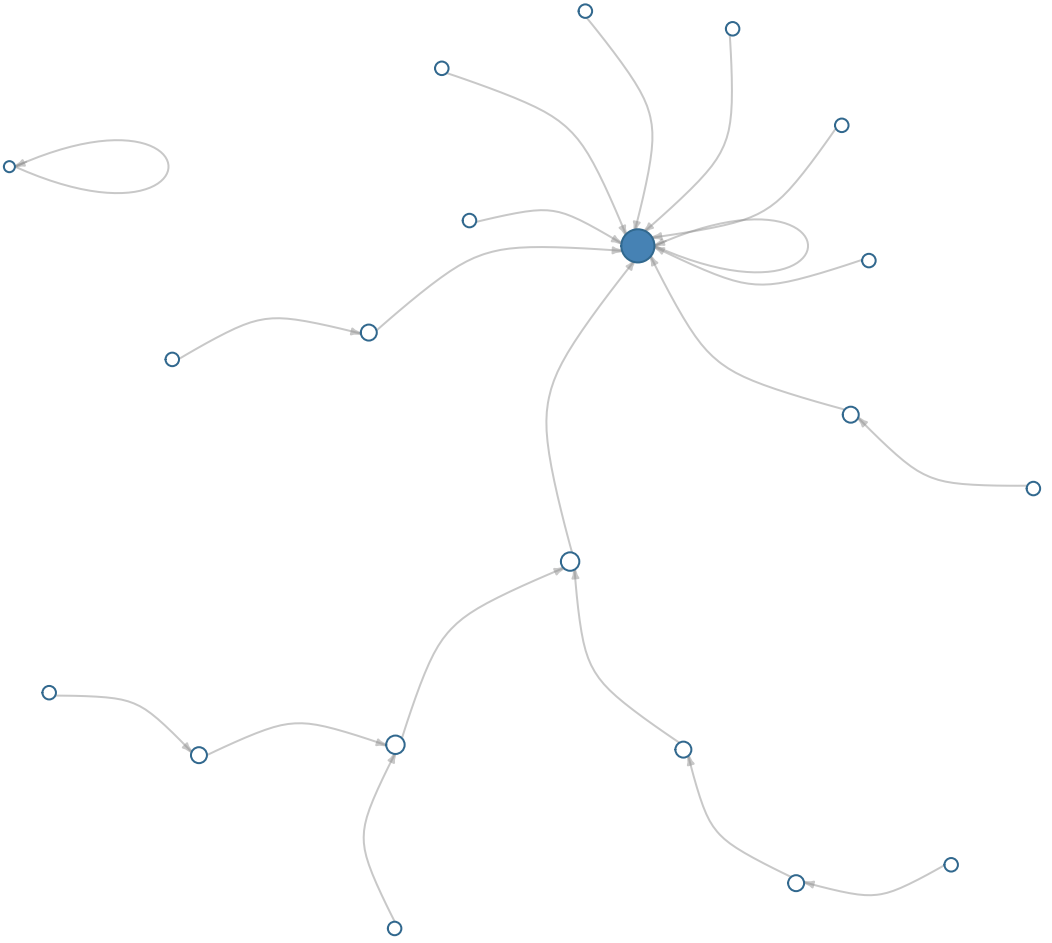
Diffusion Network



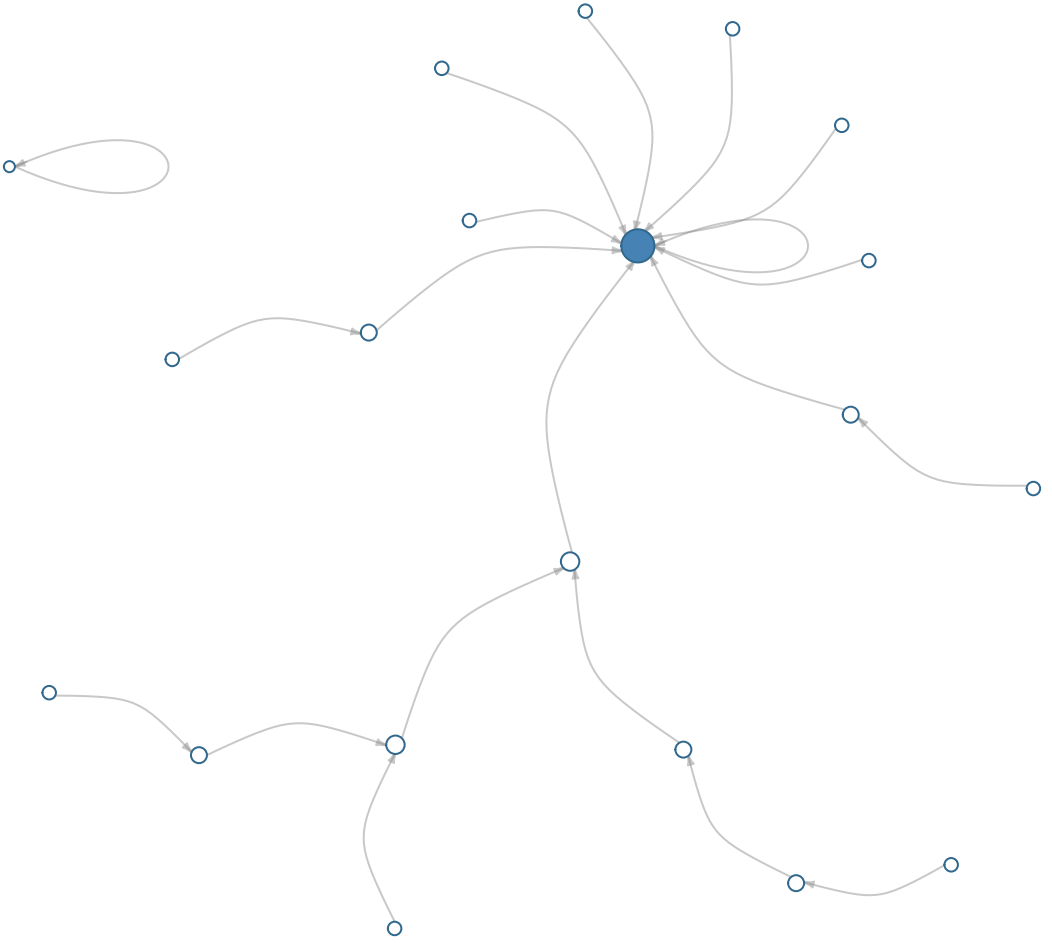
Diffusion Network

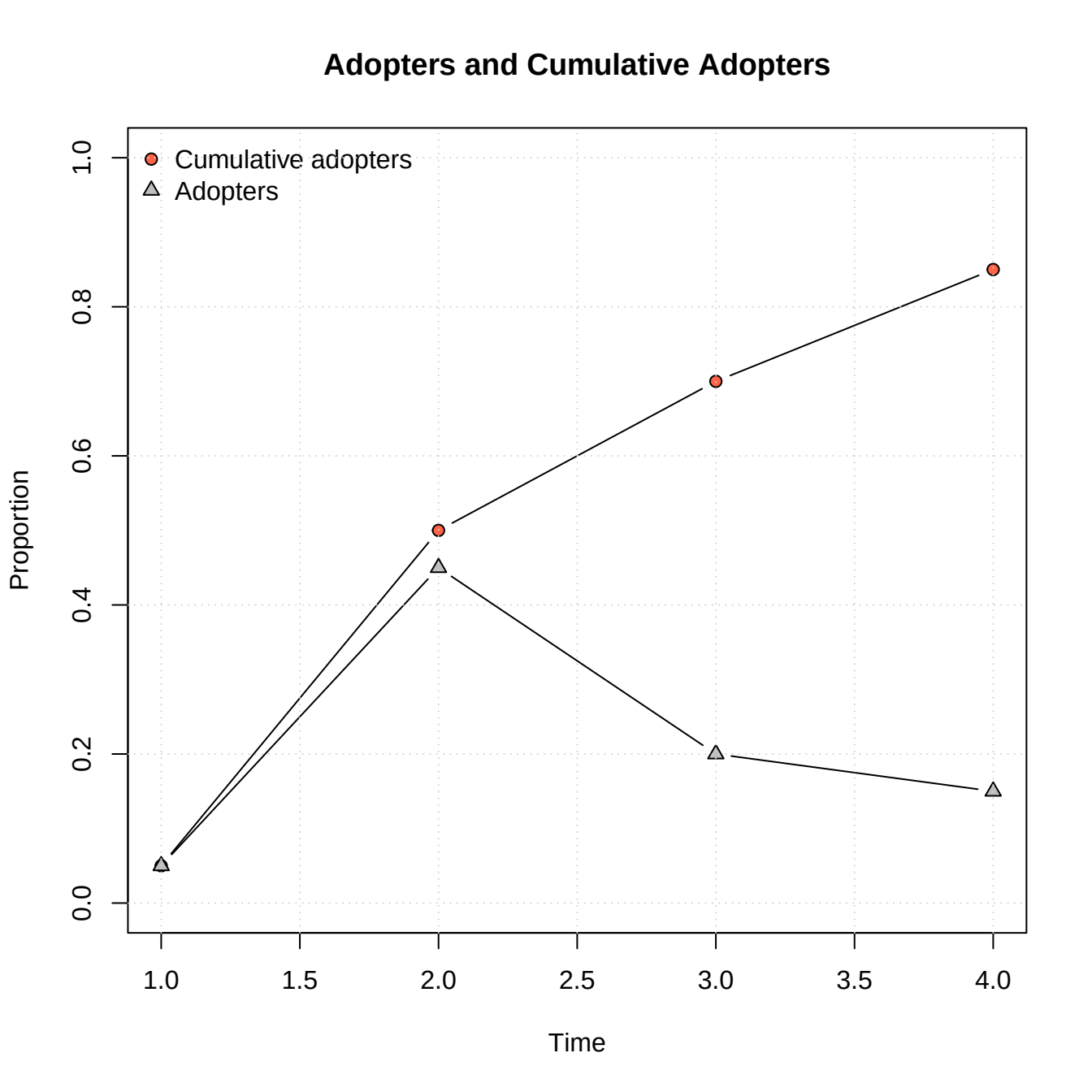


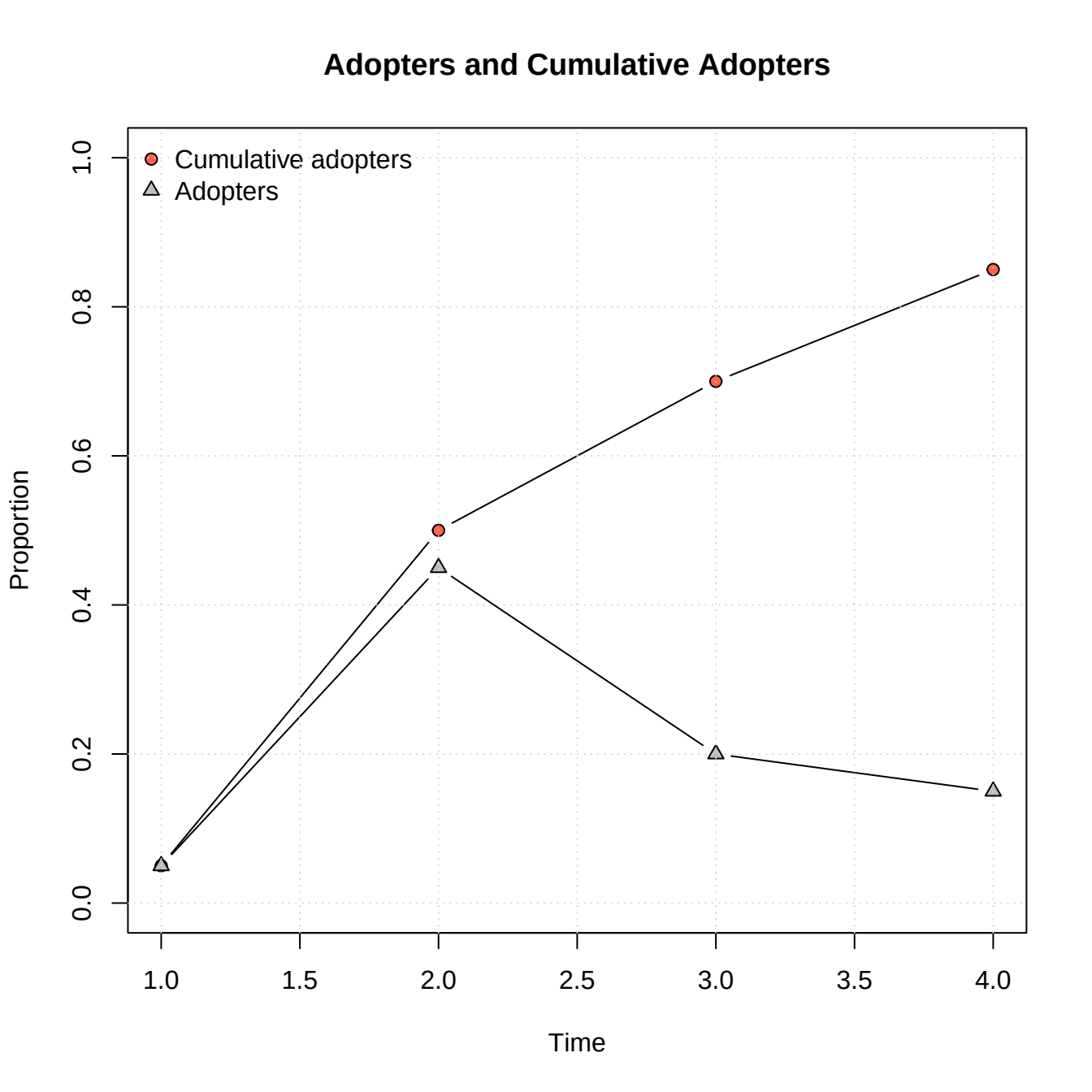
Diffusion network in time 1

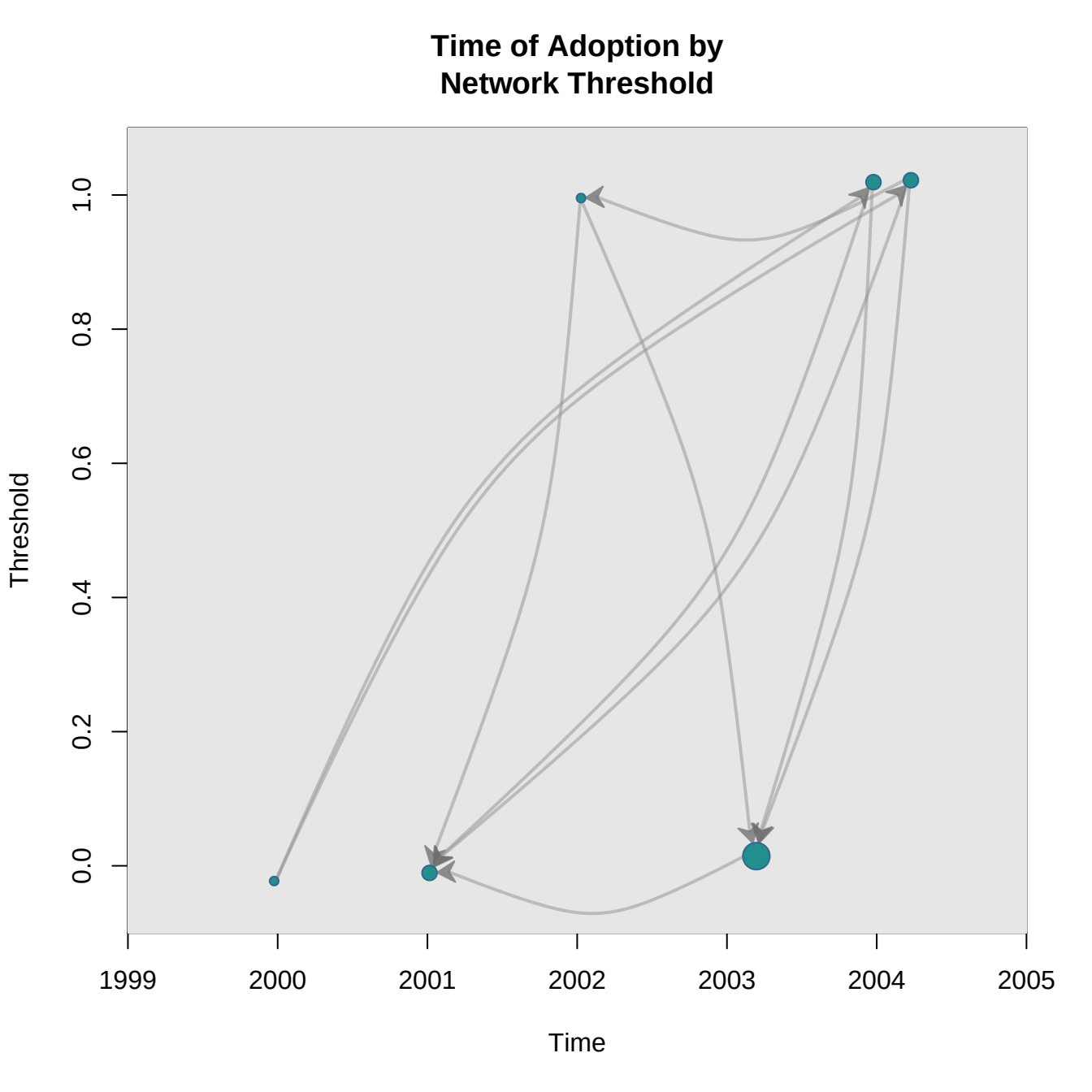


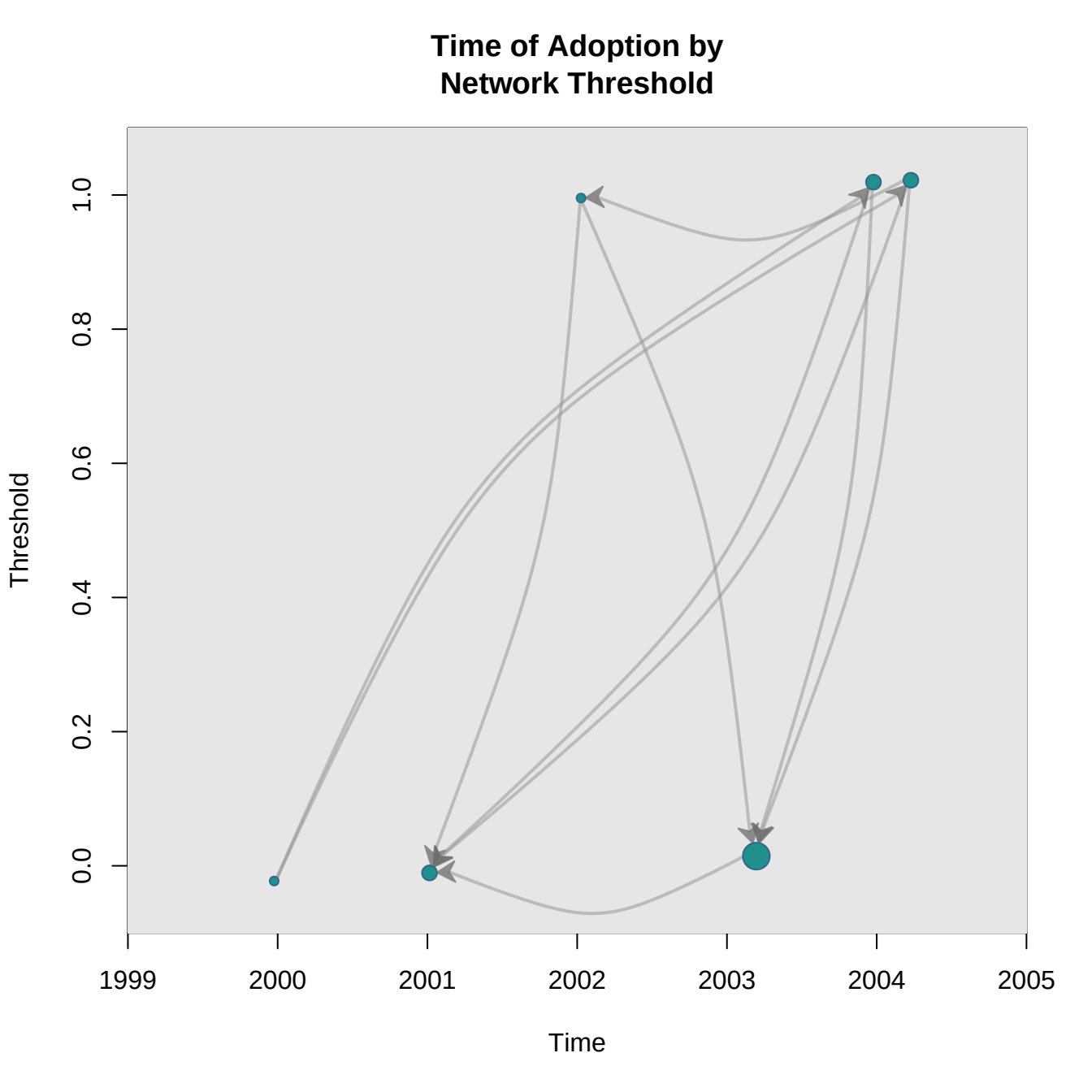
Diffusion network in time 1

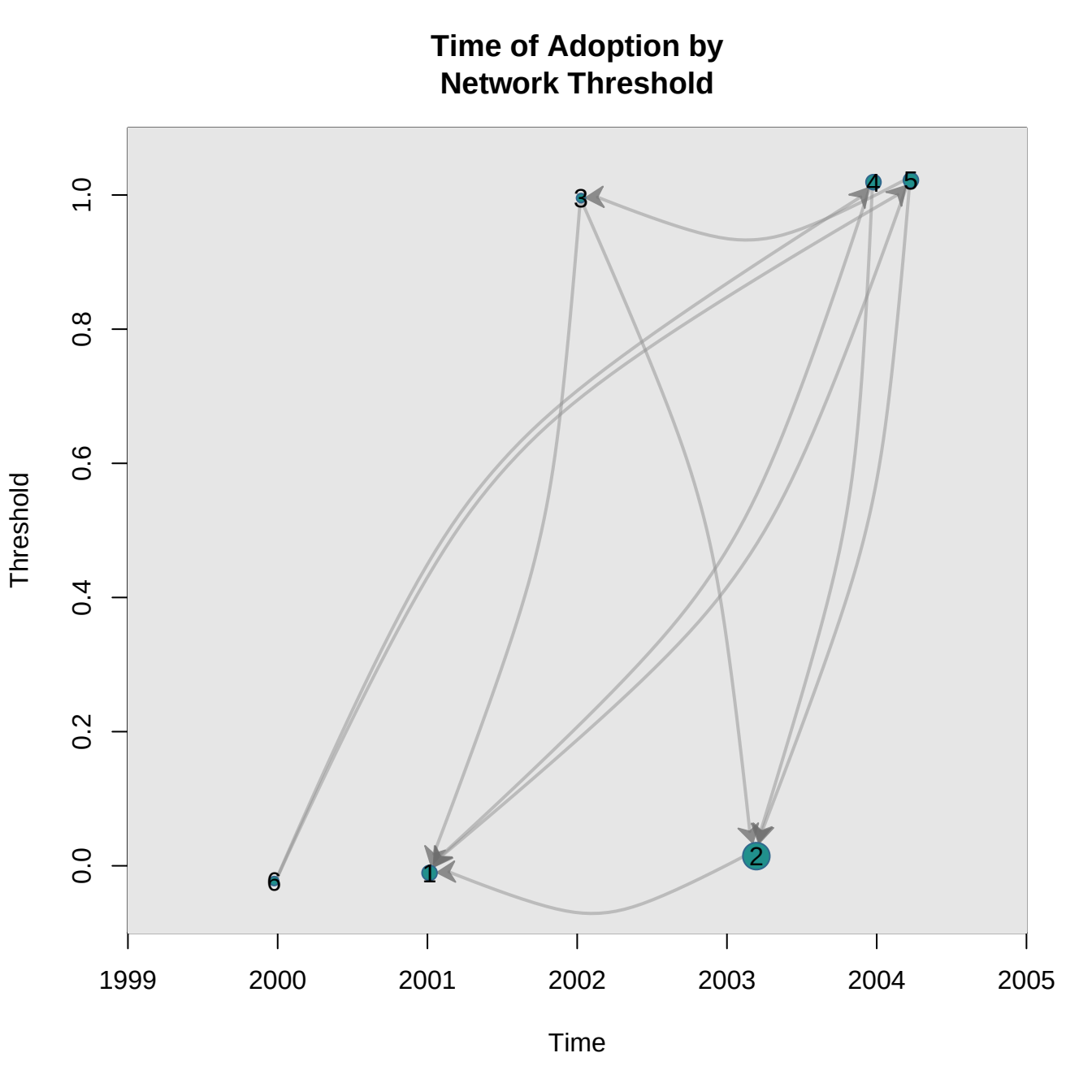


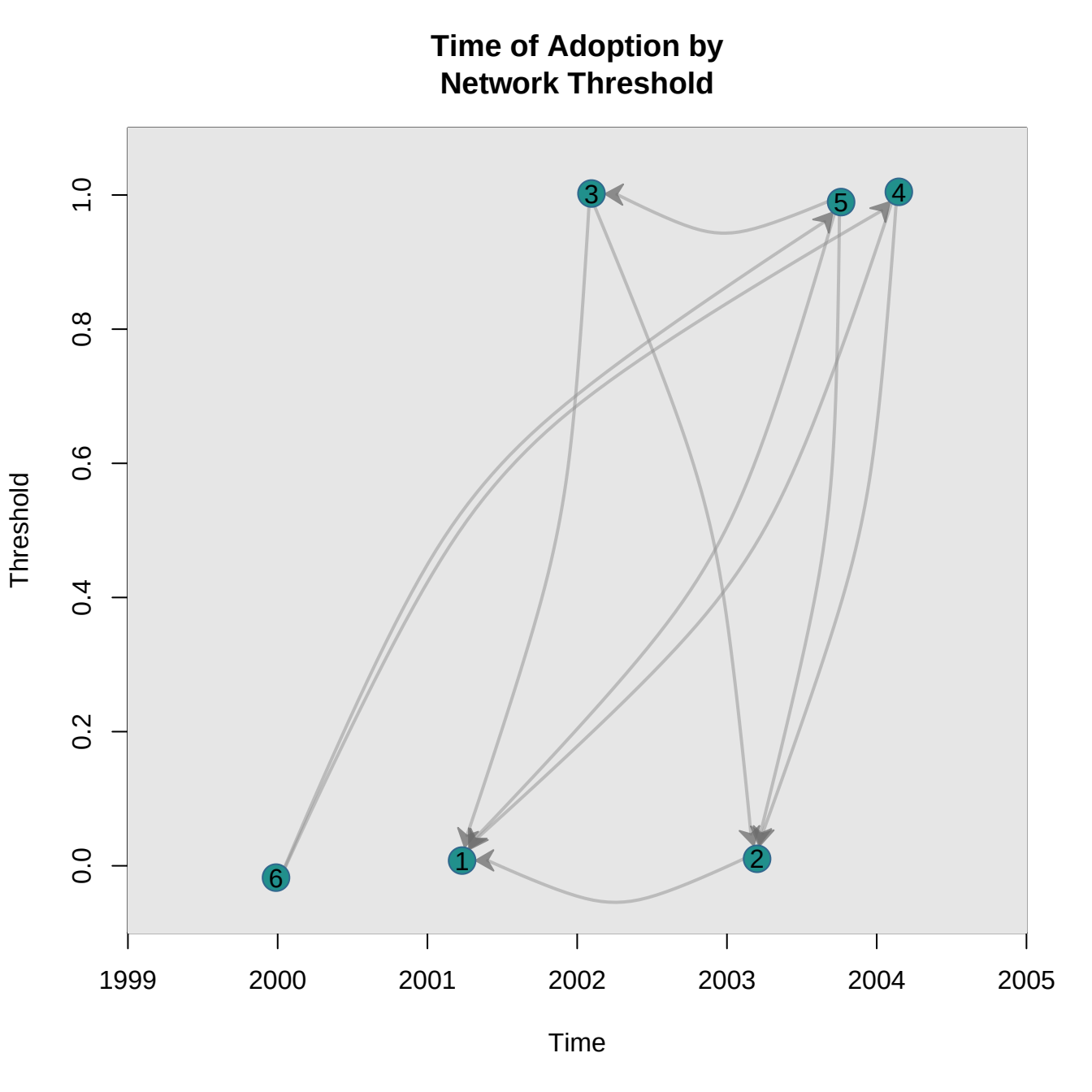

Adopters and Cumulative Adopters
Cumulative adopters
Adopters
Proportion
0.0
0.2
0.4
0.6
0.8
1.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Time

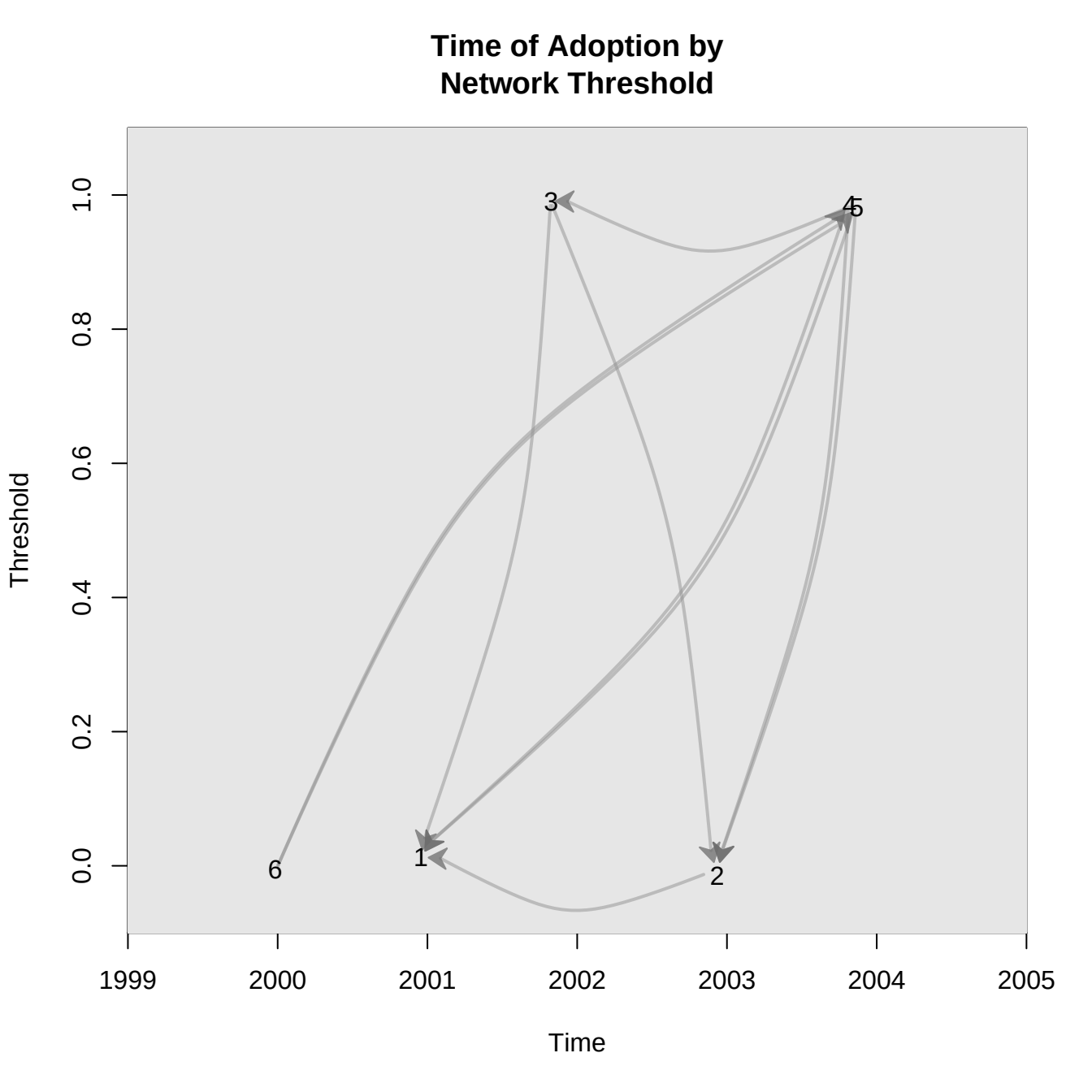

Adopters and Cumulative Adopters
Cumulative adopters
Adopters
Proportion
0.0
0.2
0.4
0.6
0.8
1.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Time

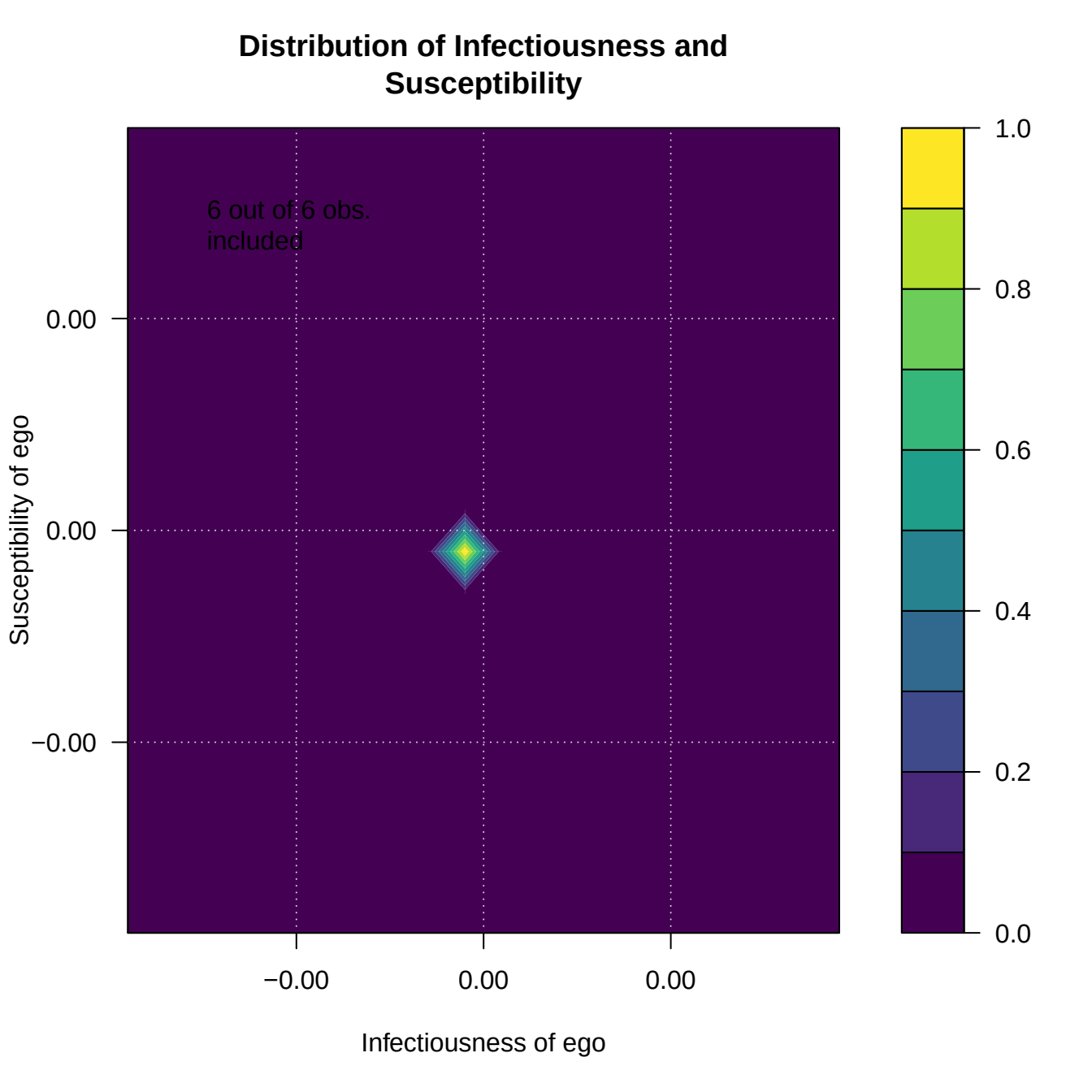

Time of Adoption by
Network Threshold
Threshold
0.0
0.2
0.4
0.6
0.8
1.0
1999
2000
2001
2002
2003
2004
2005
Time

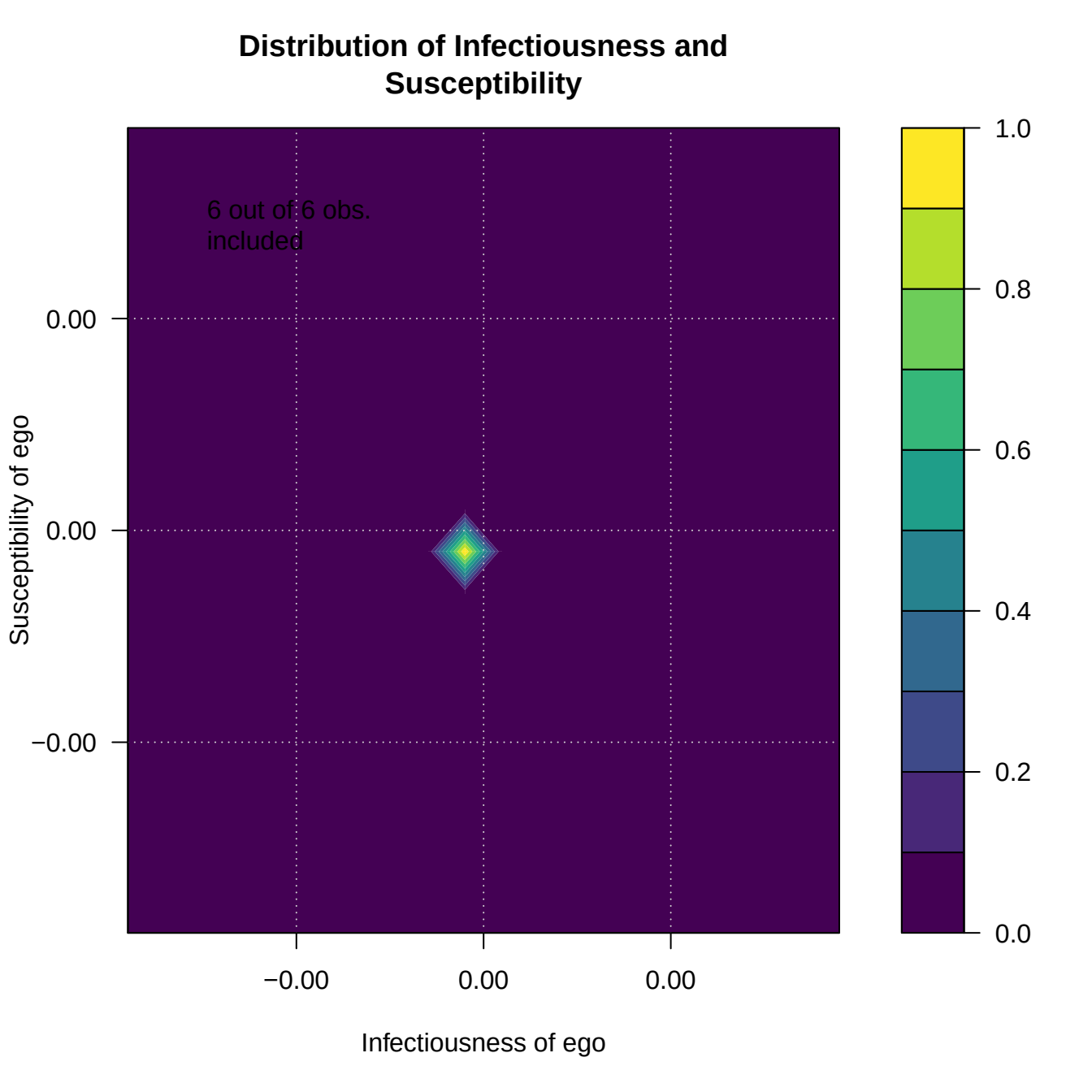

Time of Adoption by
Network Threshold
Threshold
0.0
0.2
0.4
0.6
0.8
1.0
1999
2000
2001
2002
2003
2004
2005
Time

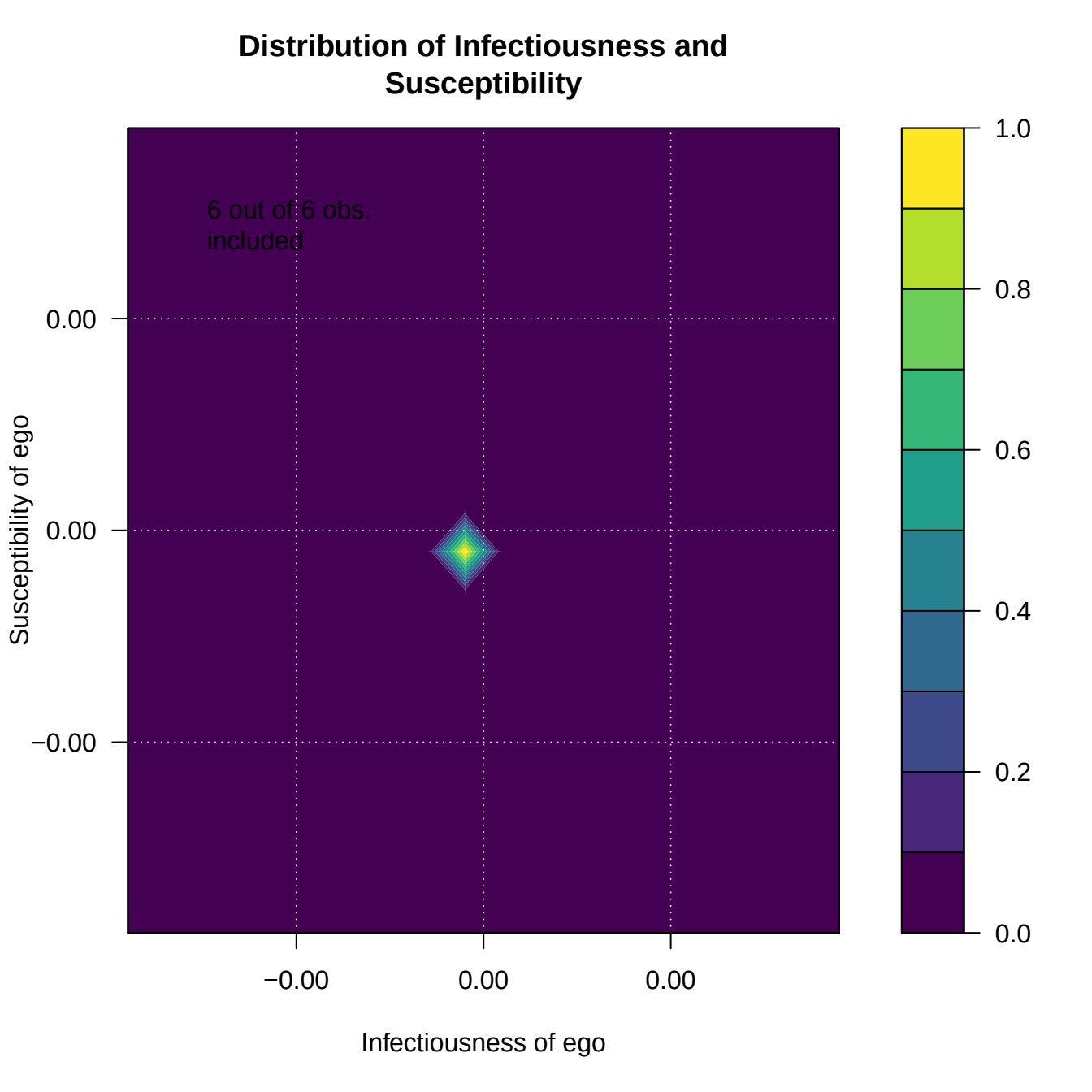

Time of Adoption by
Network Threshold
Threshold
0.0
0.2
0.4
0.6
0.8
1.0
1999
2000
2001
2002
2003
2004
2005
Time
1
2
3
4
5
6

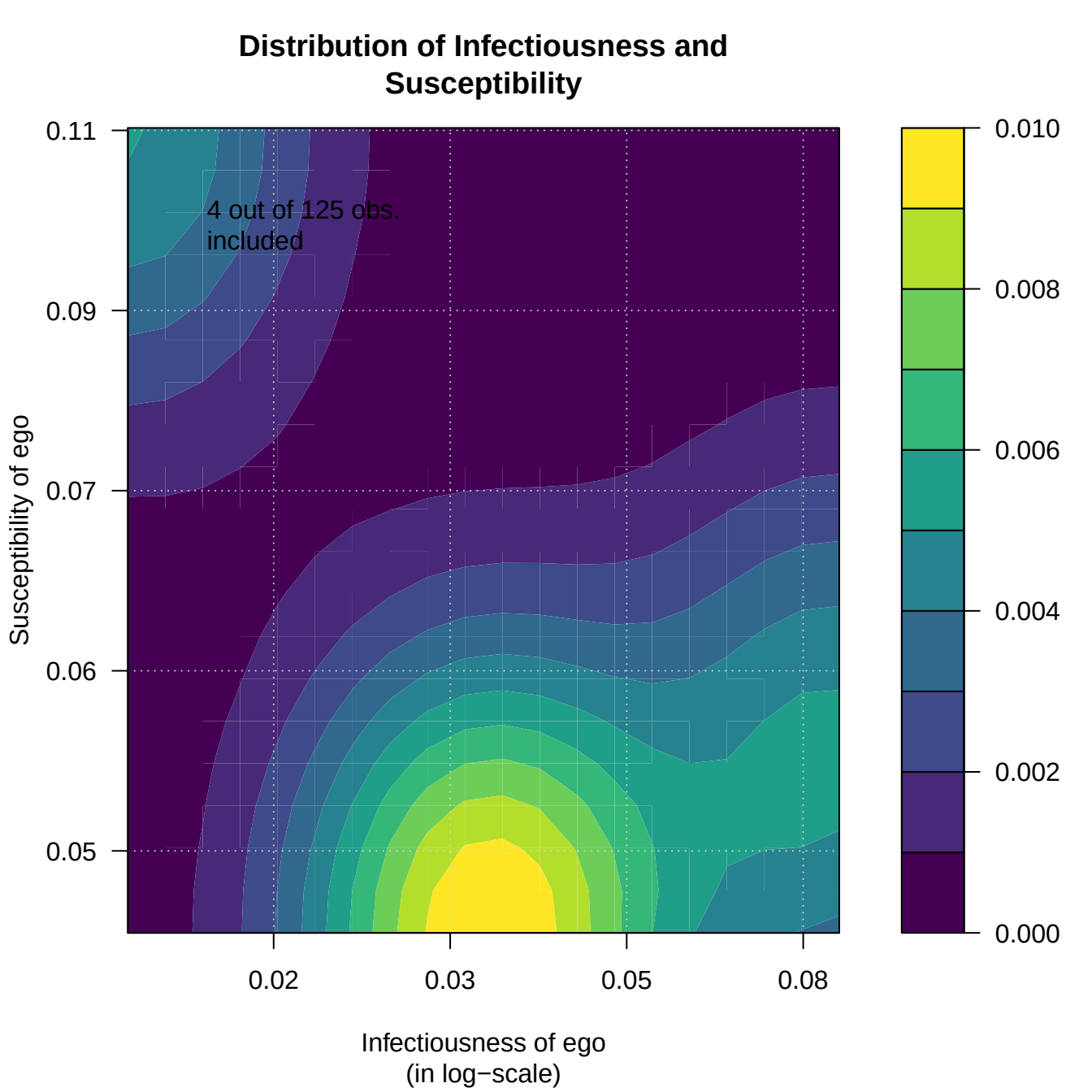

Time of Adoption by
Network Threshold
Threshold
0.0
0.2
0.4
0.6
0.8
1.0
1999
2000
2001
2002
2003
2004
2005
Time
1
2
3
4
5
6


Time of Adoption by
Network Threshold
Threshold
0.0
0.2
0.4
0.6
0.8
1.0
1999
2000
2001
2002
2003
2004
2005
Time
1
2
3
4
5
6

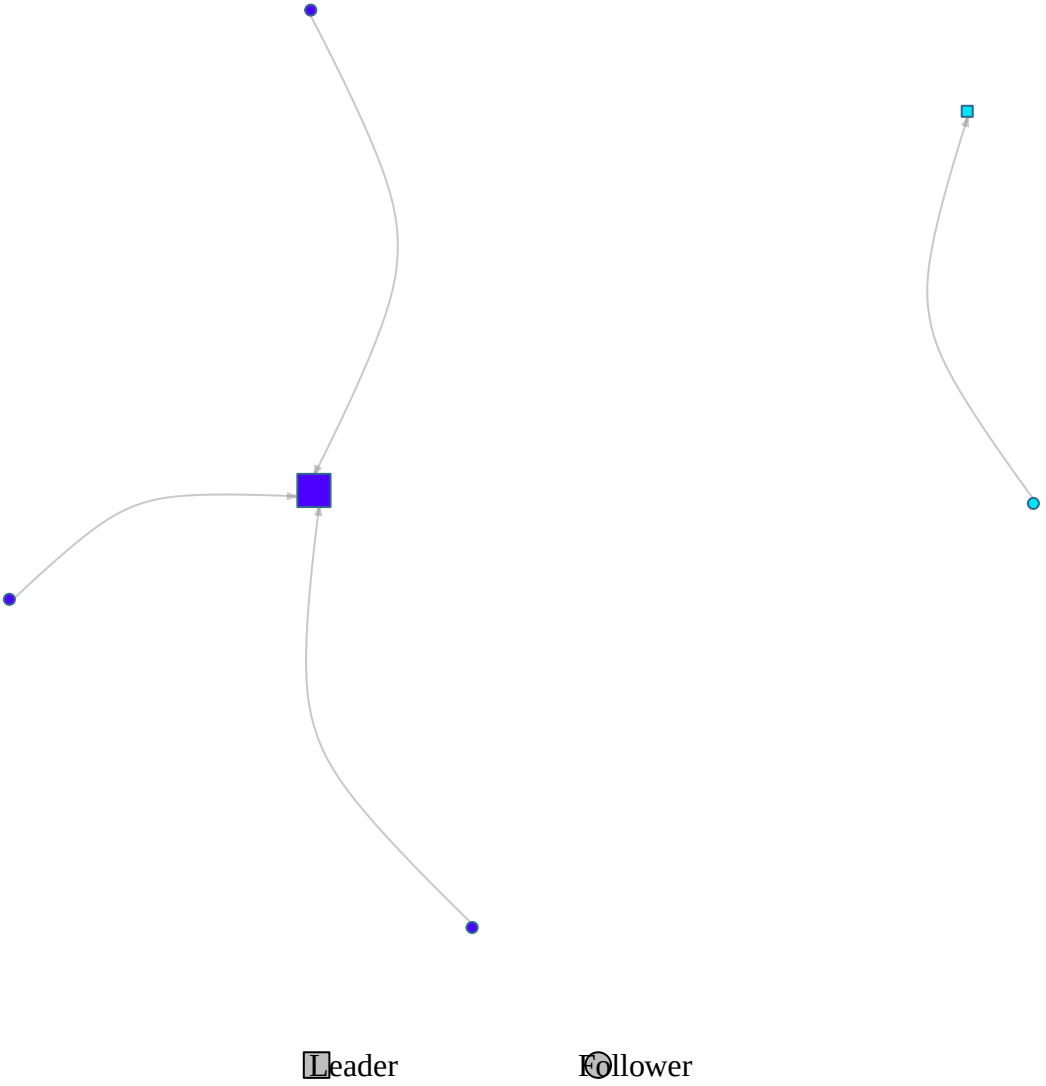

Distribution of Infectiousness and Susceptibility
6 out of 6 obs. included
0.00
0.00
−0.00
Susceptibility of ego
−0.00
0.00
0.00
Infectiousness of ego
1.0
0.8
0.6
0.4
0.2
0.0


Distribution of Infectiousness and Susceptibility
6 out of 6 obs. included
0.00
0.00
−0.00
Susceptibility of ego
−0.00
0.00
0.00
Infectiousness of ego
1.0
0.8
0.6
0.4
0.2
0.0

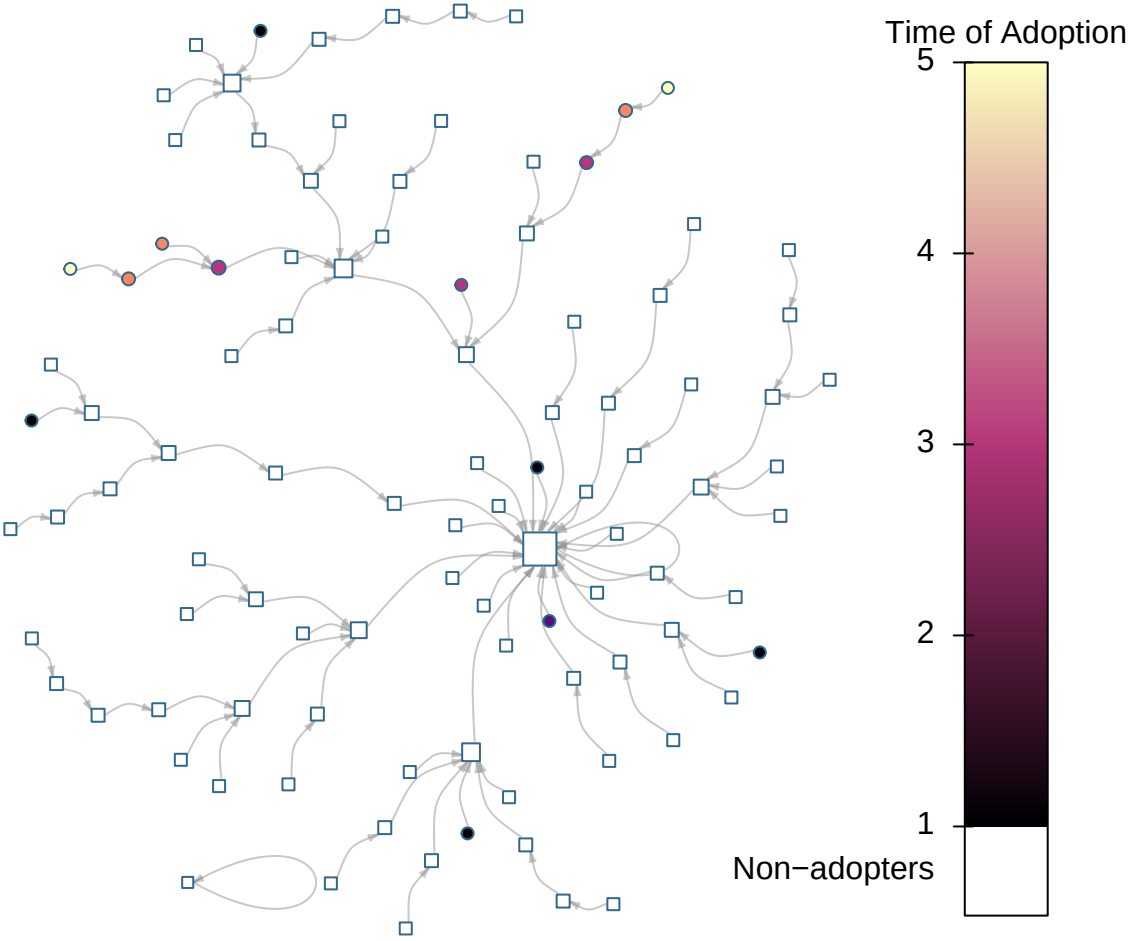

Distribution of Infectiousness and Susceptibility
6 out of 6 obs. included
0.00
0.00
−0.00
Susceptibility of ego
−0.00
0.00
0.00
Infectiousness of ego
1.0
0.8
0.6
0.4
0.2
0.0


Distribution of Infectiousness and Susceptibility
4 out of 125 obs. included
Susceptibility of ego
0.11
0.09
0.07
0.06
0.05
0.02
0.03
0.05
0.08
Infectiousness of ego (in log−scale)
0.010
0.008
0.006
0.004
0.002
0.000

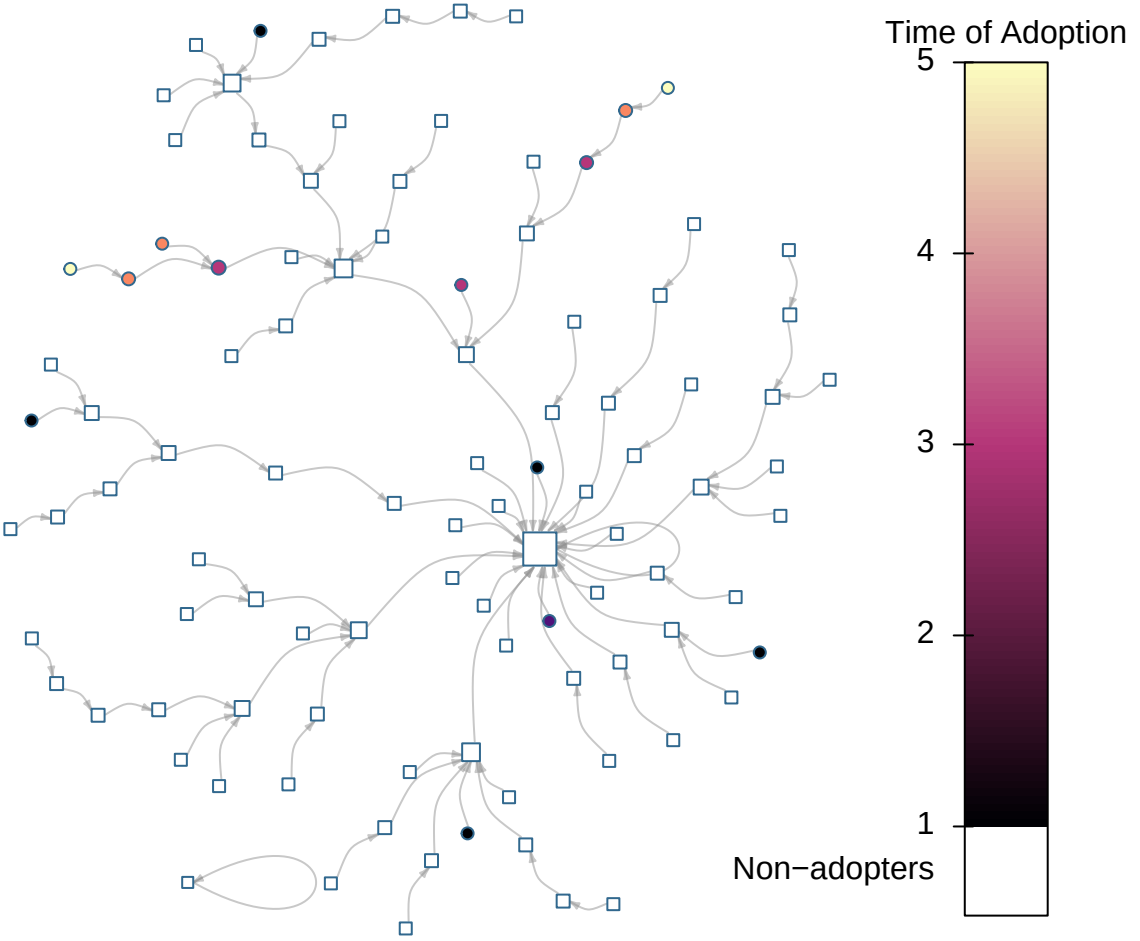
Mentoring Network



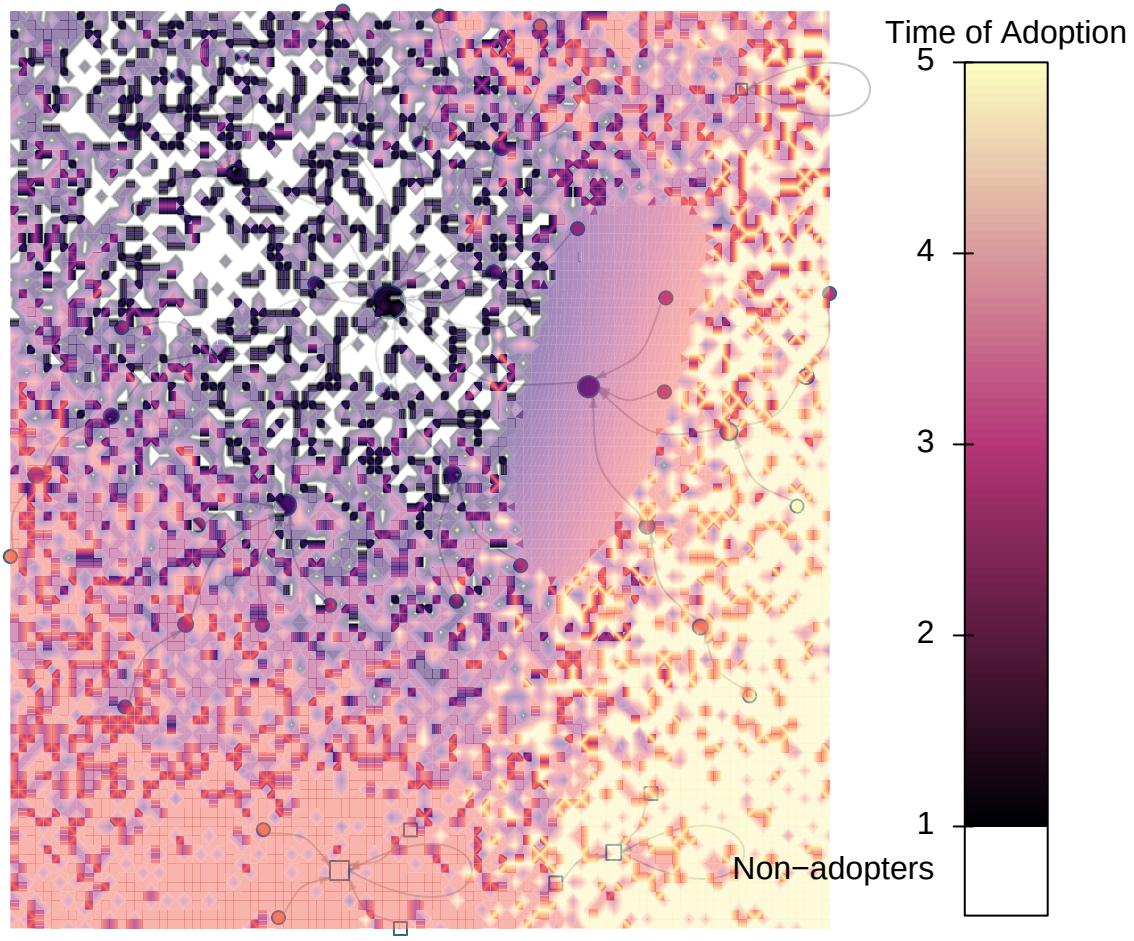
Diffusion dynamics

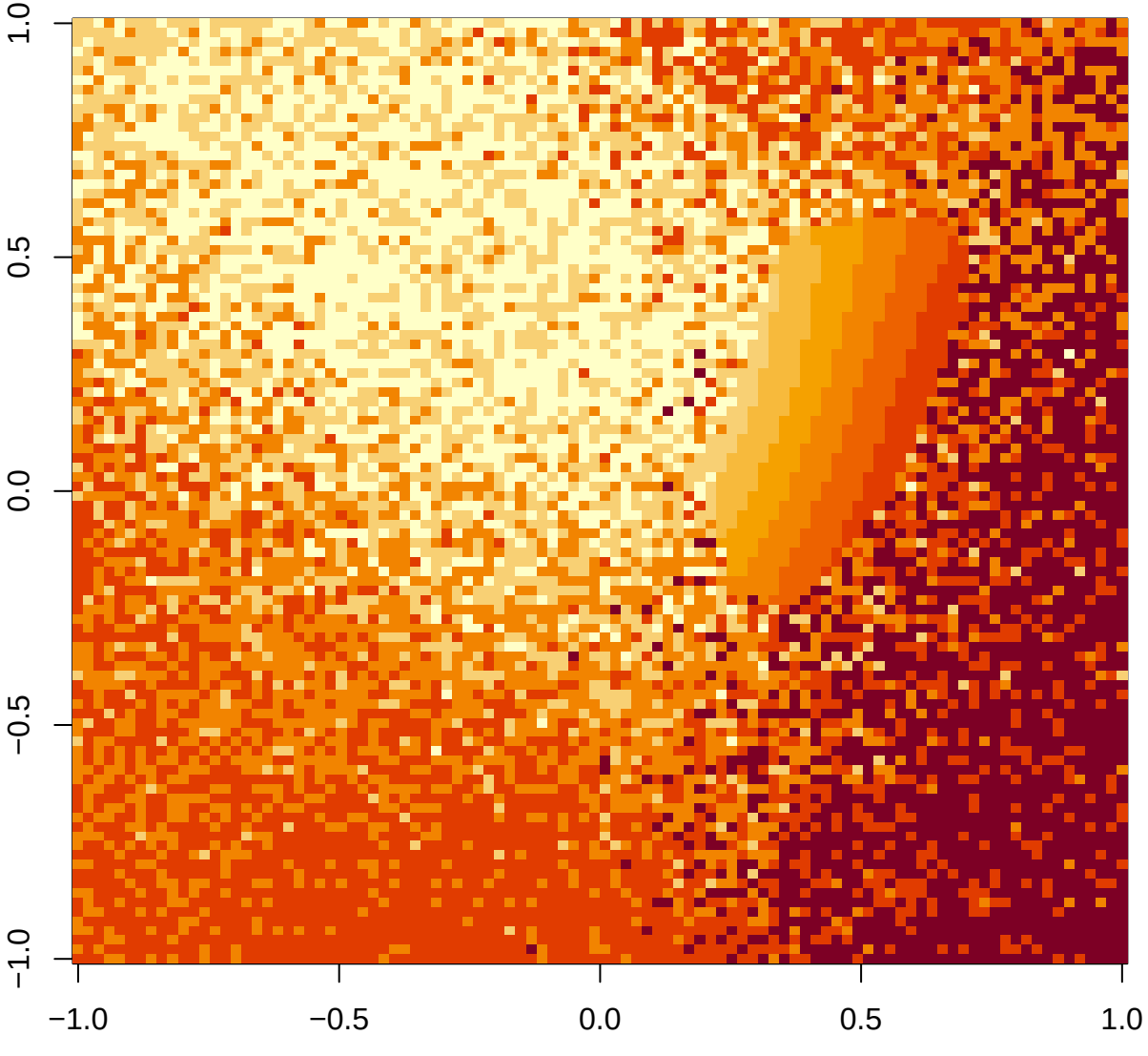


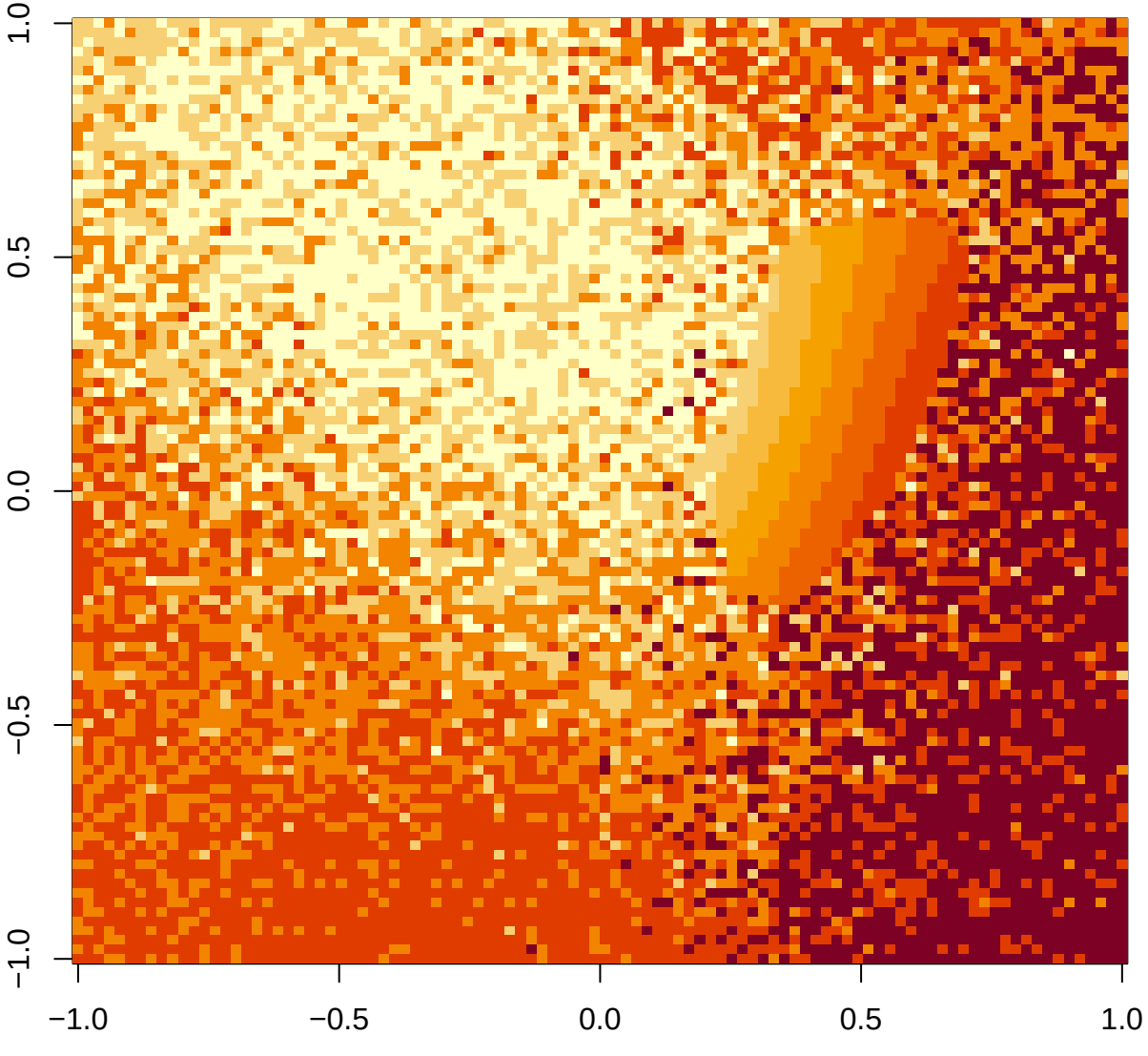
Diffusion dynamics

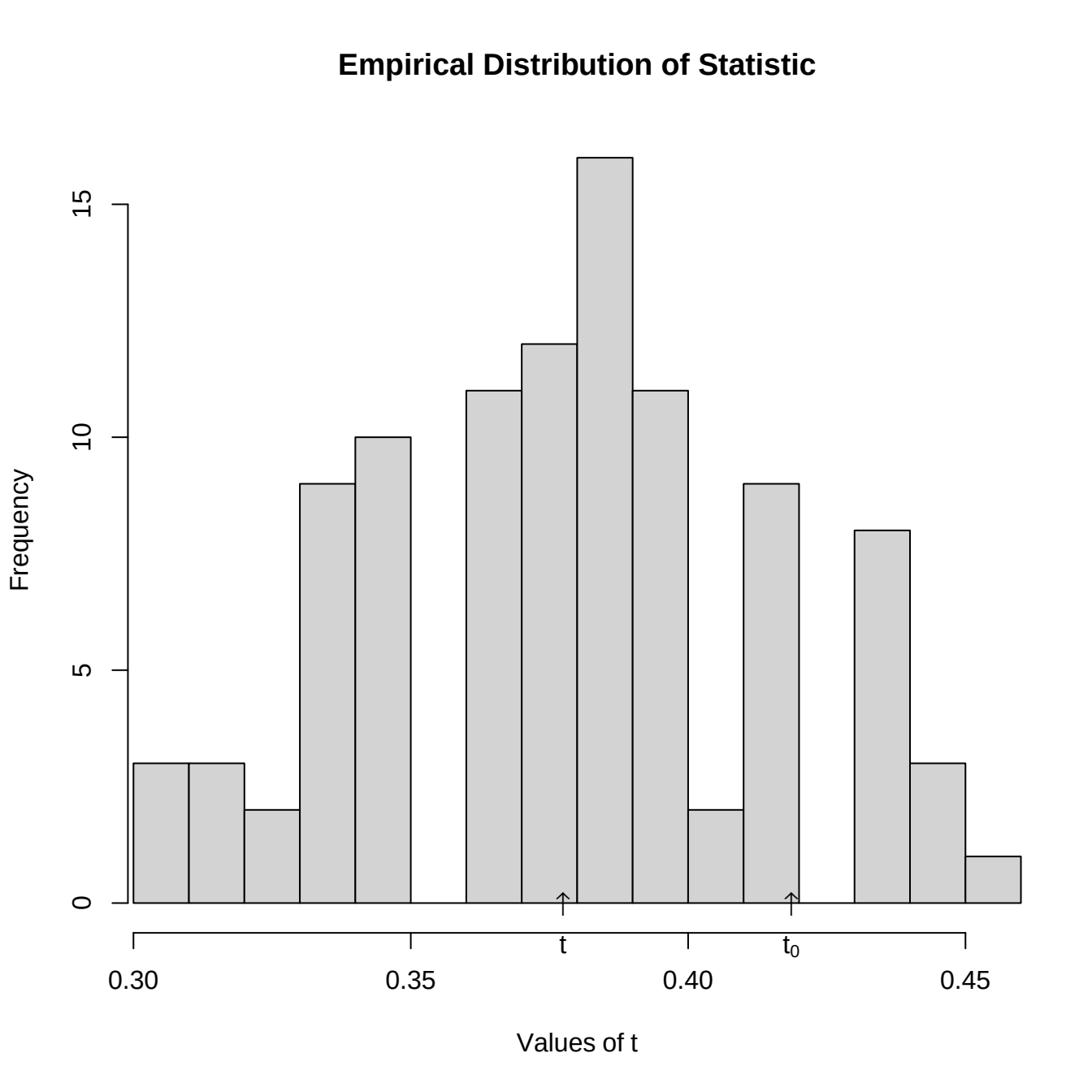


Diffusion dynamics




1.0
0.5
0.0
−0.5
−1.0
−1.0
−0.5
0.0
0.5
1.0


1.0
0.5
0.0
−0.5
−1.0
−1.0
−0.5
0.0
0.5
1.0


Empirical Distribution of Statistic
Frequency
0
5
10
15
t
t_0
0.30
0.35
0.40
0.45
Values of t