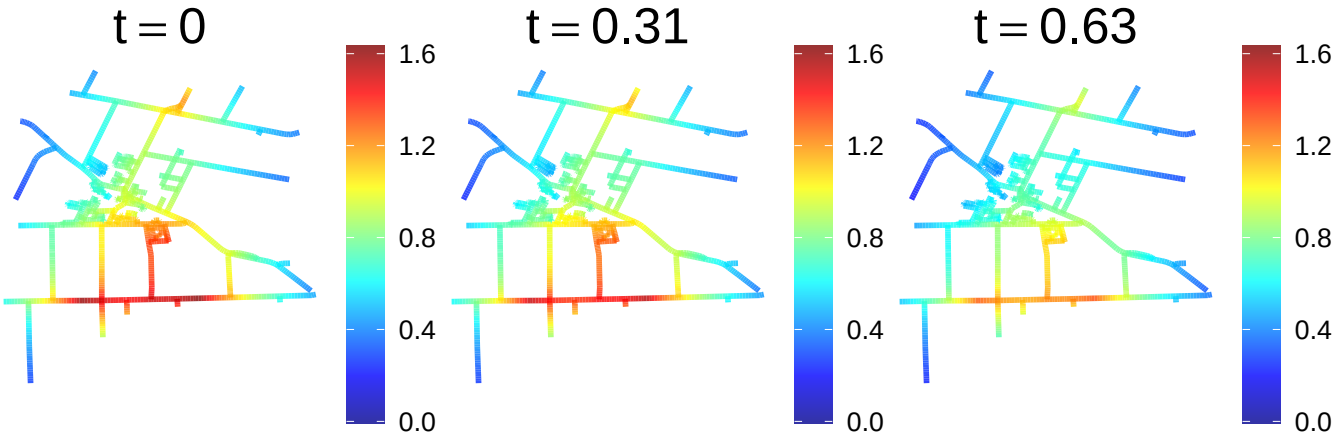
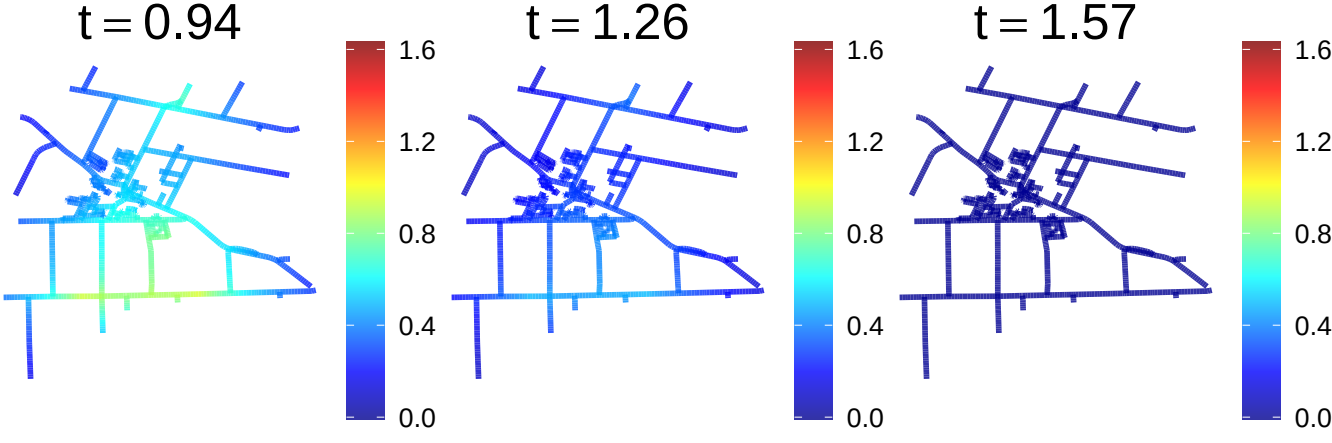
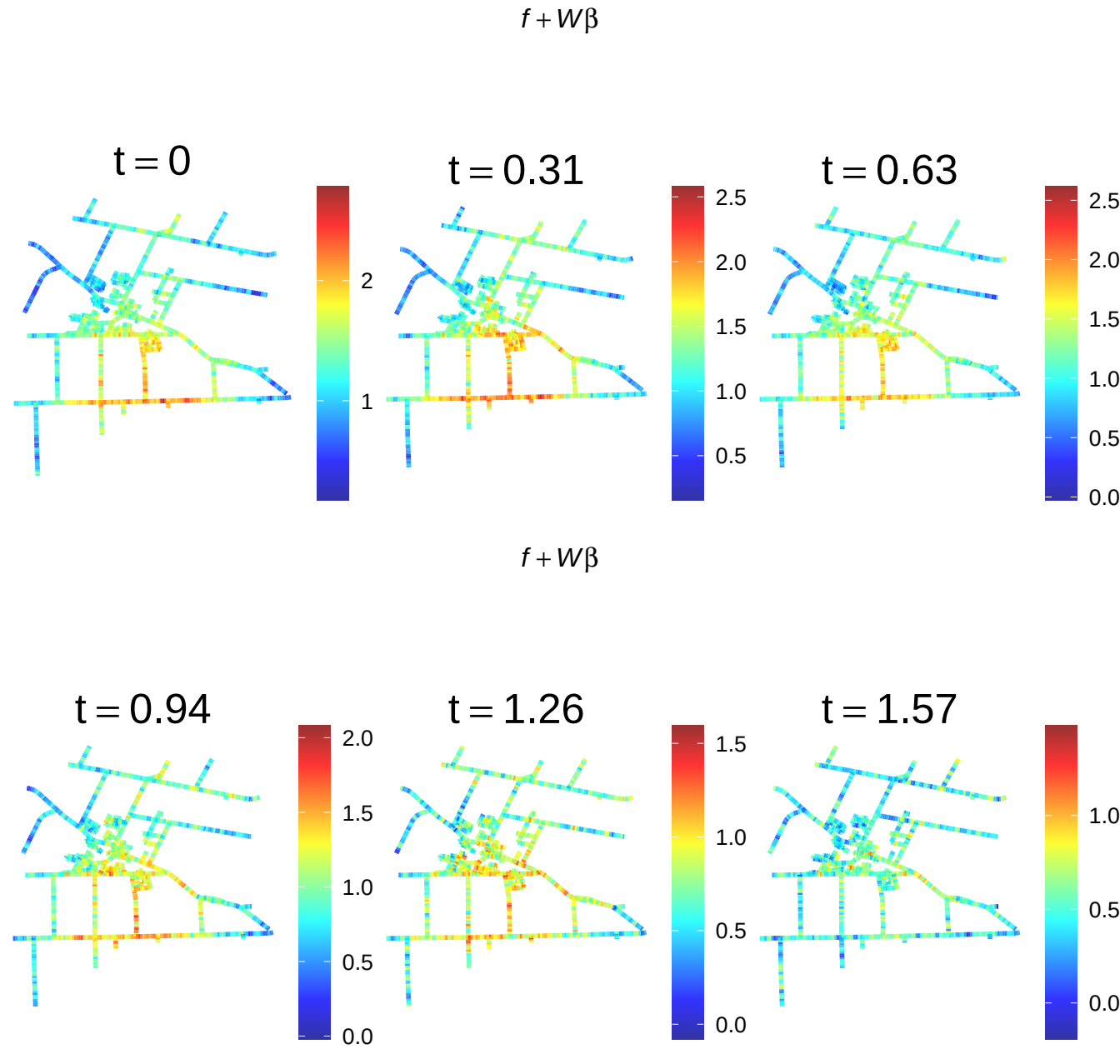
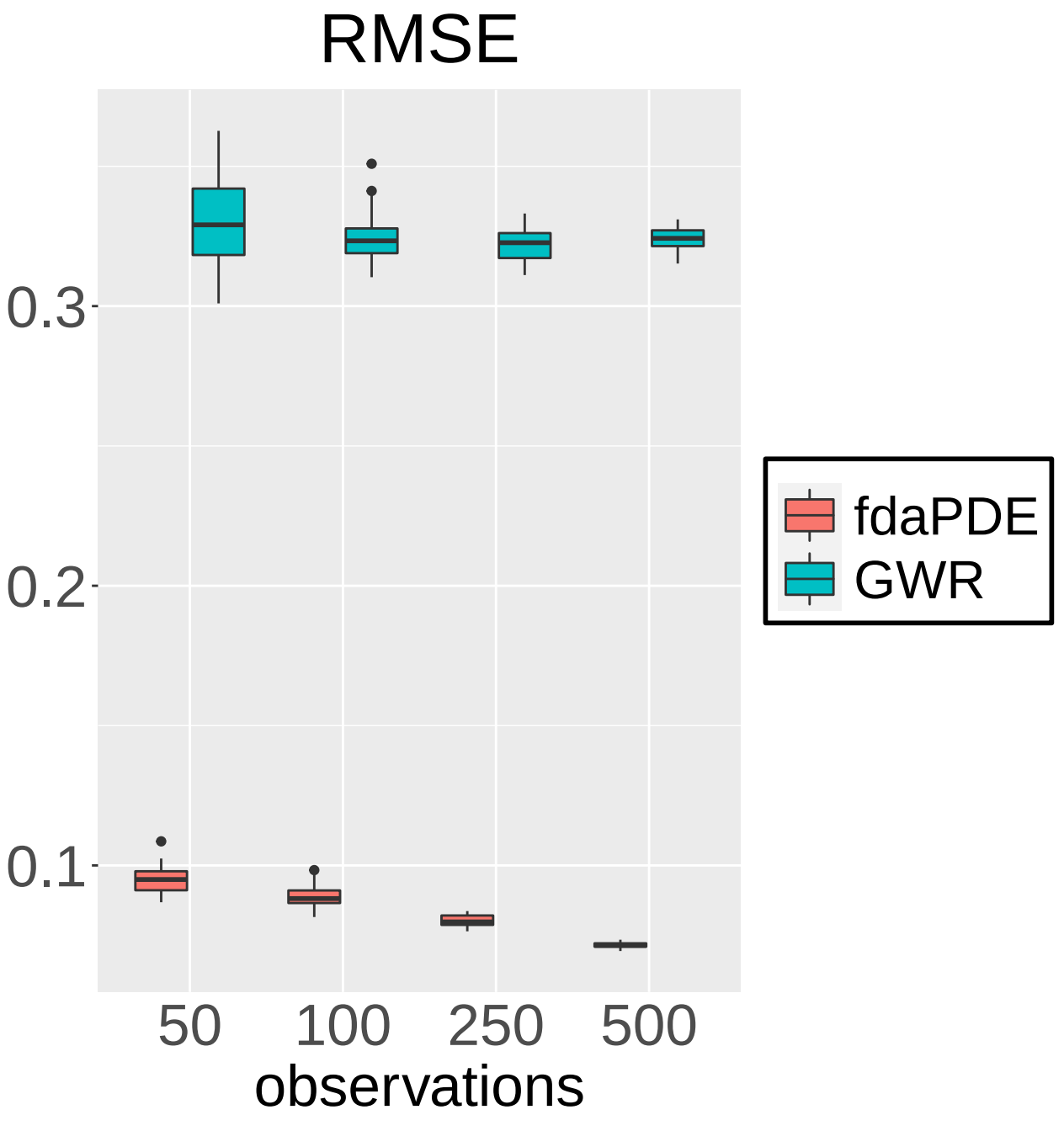
f

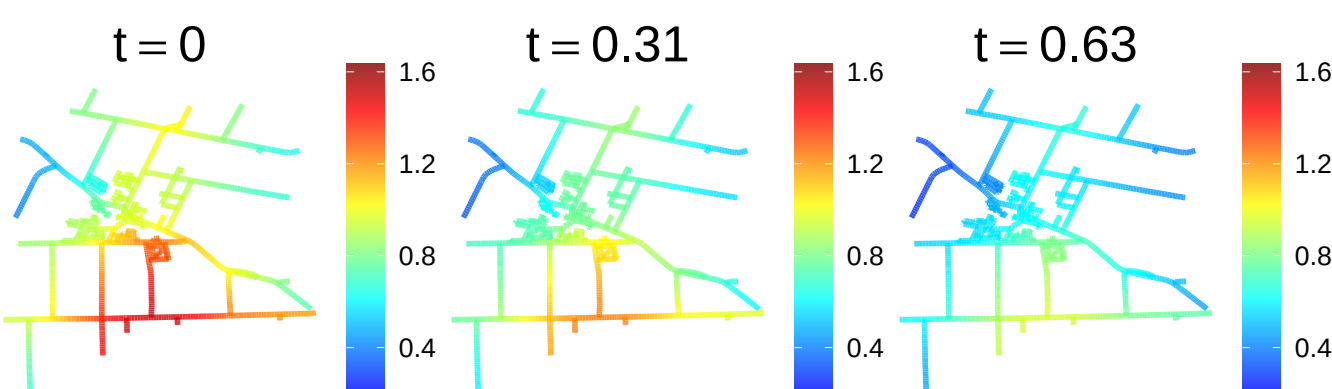


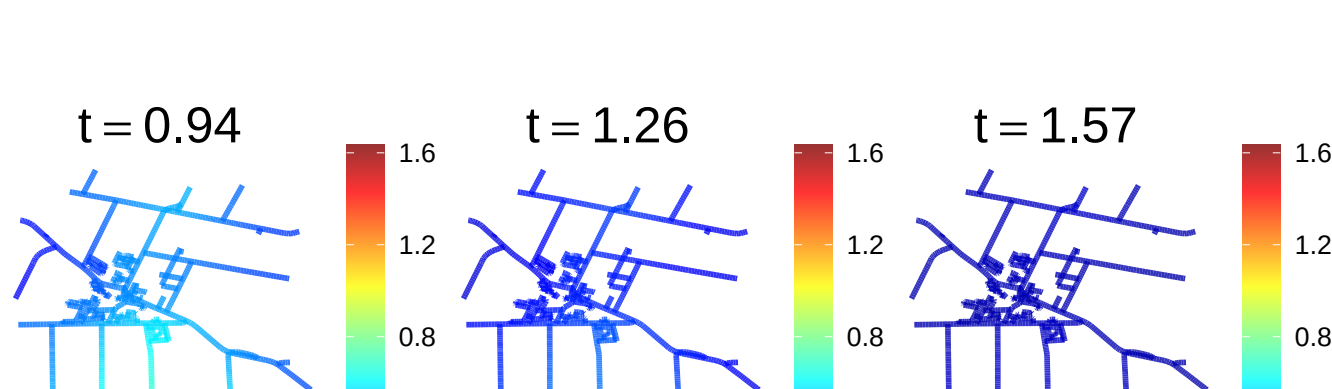
f

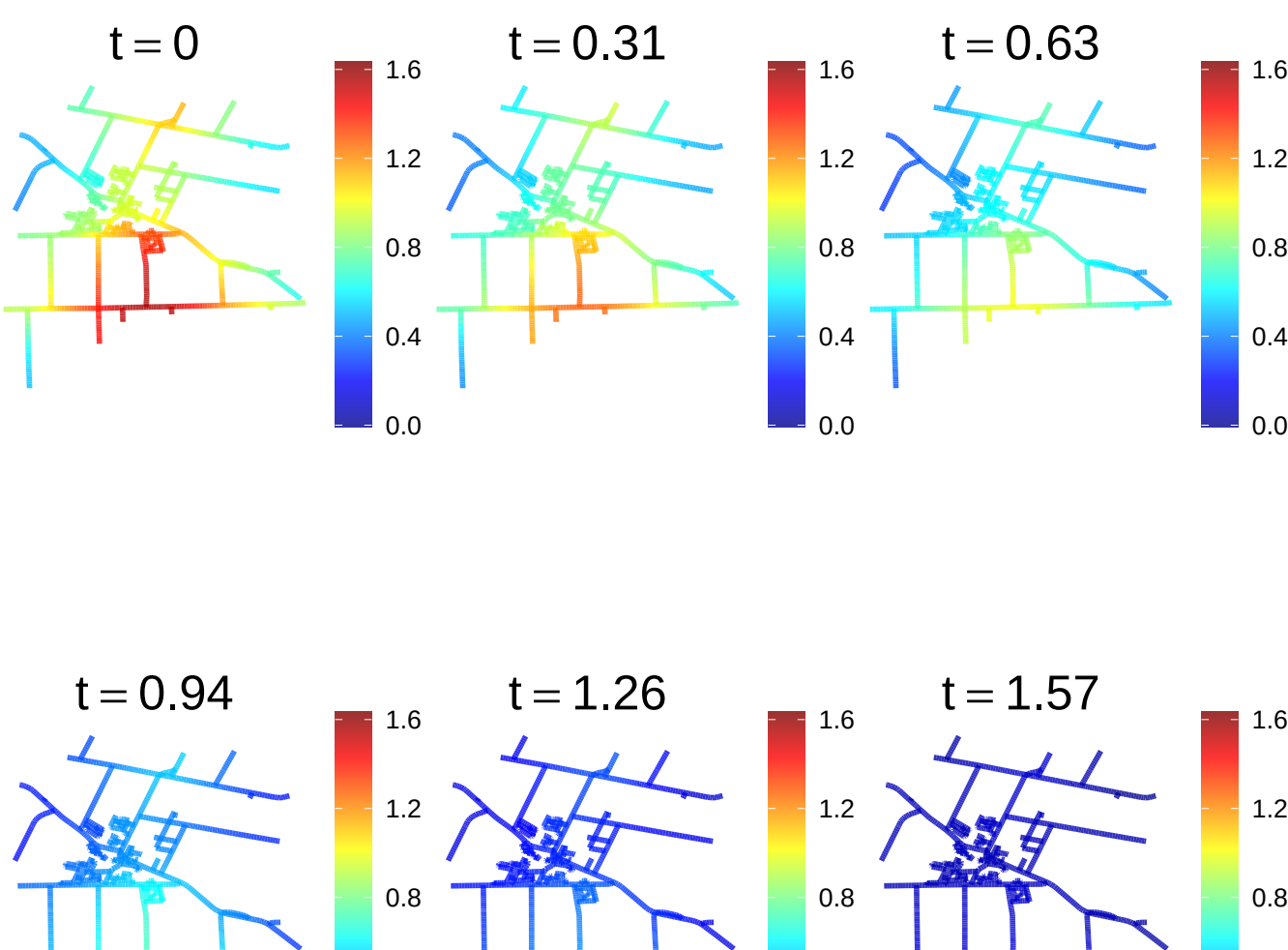


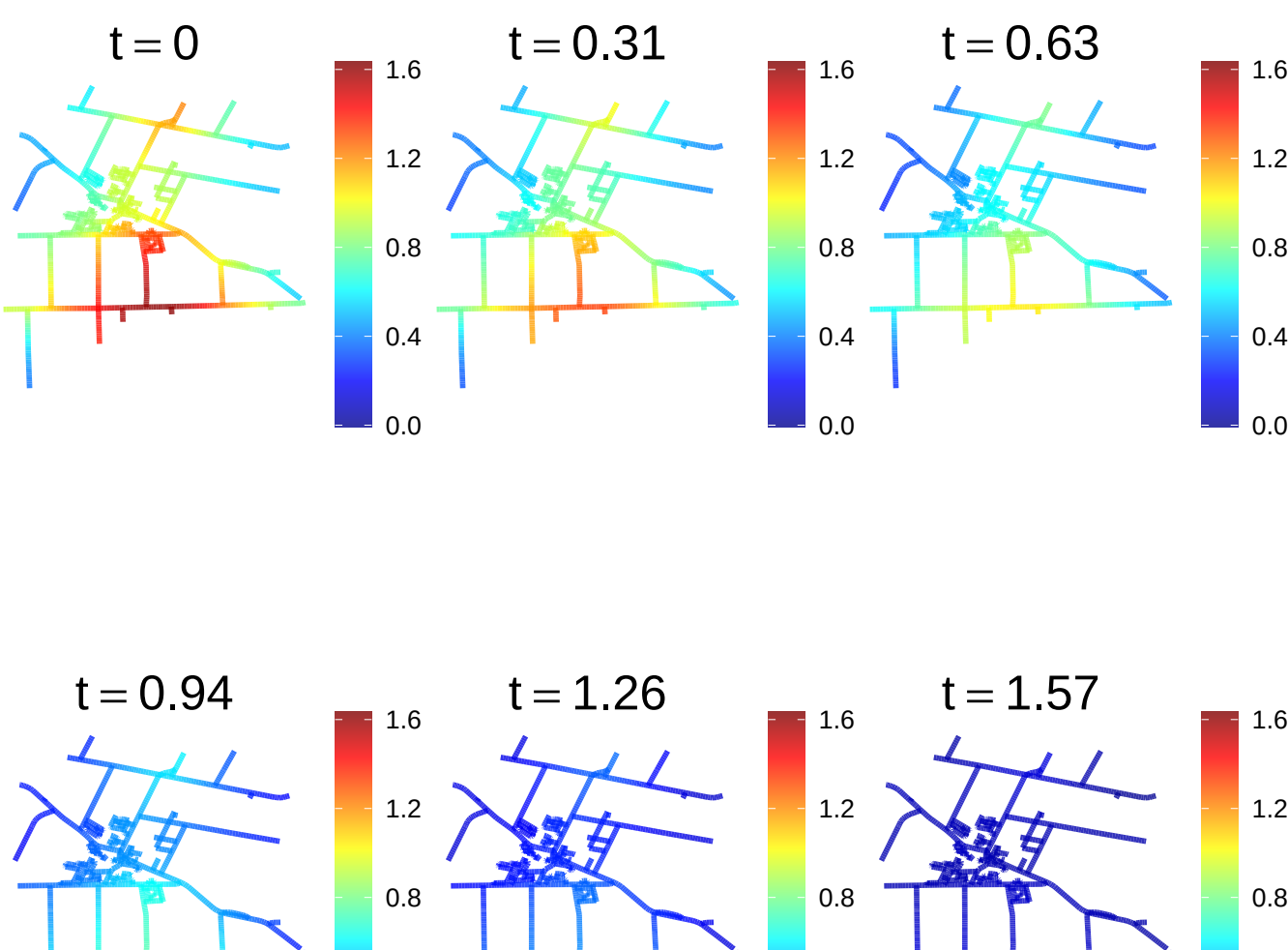

$f + W\beta$
t = 0
2
1
t = 0.31
2.5
2.0
1.5
1.0
0.5
t = 0.63
2.5
2.0
1.5
1.0
0.5
0.0
$f + W\beta$
t = 0.94
2.0
1.5
1.0
0.5
0.0
t = 1.26
1.5
1.0
0.5
0.0
t = 1.57
1.0
0.5
0.0

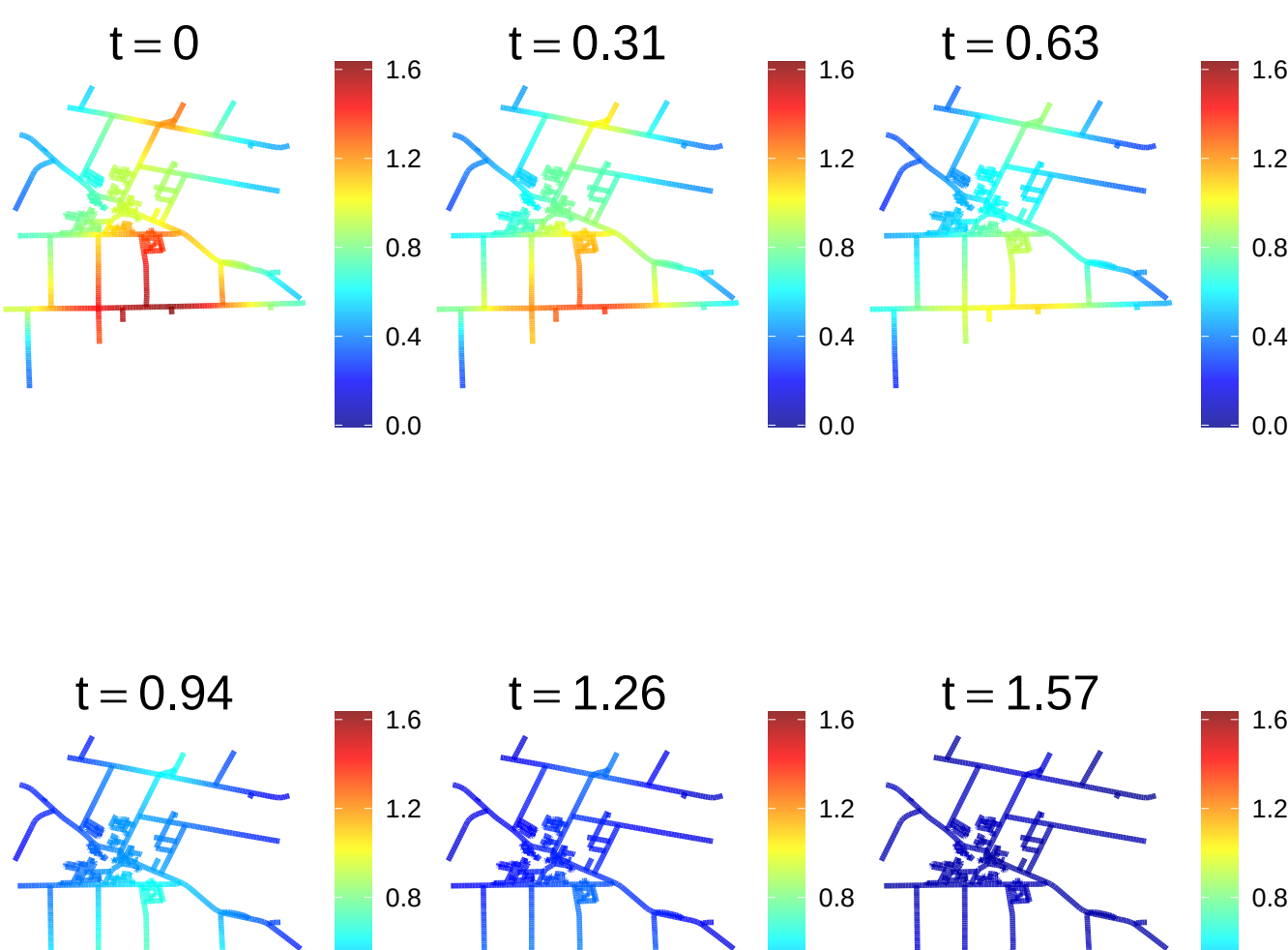

RMSE
0.3
0.2
0.1
50
100
250
500
observations
fdaPDE
GWR


t = 0
1.6
1.2
0.8
0.4
0.0
t = 0.31
1.6
1.2
0.8
0.4
0.0
t = 0.63
1.6
1.2
0.8
0.4
0.0

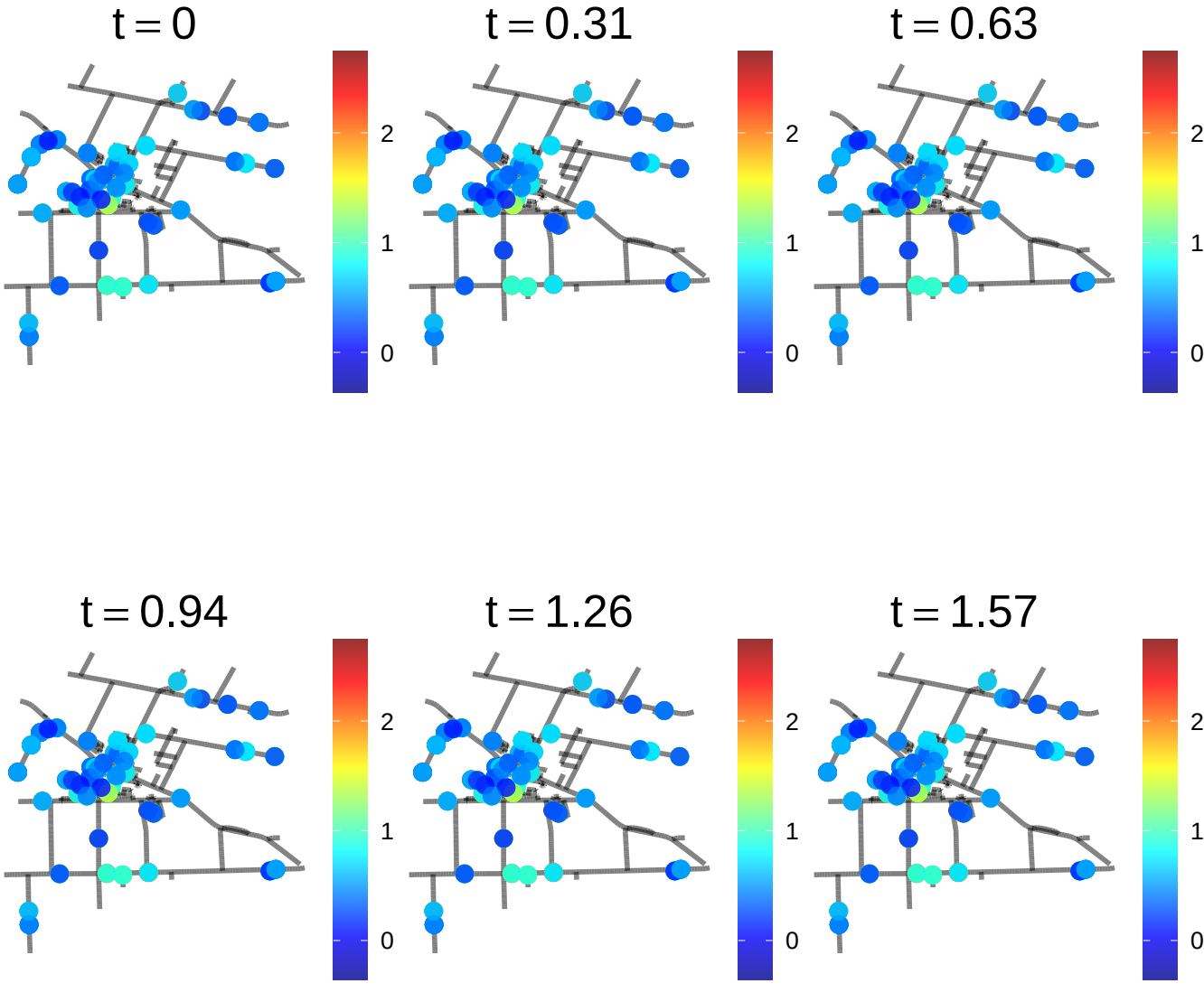

t = 0.94
1.6
1.2
0.8
0.4
0.0
t = 1.26
1.6
1.2
0.8
0.4
0.0
t = 1.57
1.6
1.2
0.8
0.4
0.0


t = 0
1.6
1.2
0.8
0.4
0.0
t = 0.31
1.6
1.2
0.8
0.4
0.0
t = 0.63
1.6
1.2
0.8
0.4
0.0
t = 0.94
1.6
1.2
0.8
0.4
0.0
t = 1.26
1.6
1.2
0.8
0.4
0.0
t = 1.57
1.6
1.2
0.8
0.4
0.0

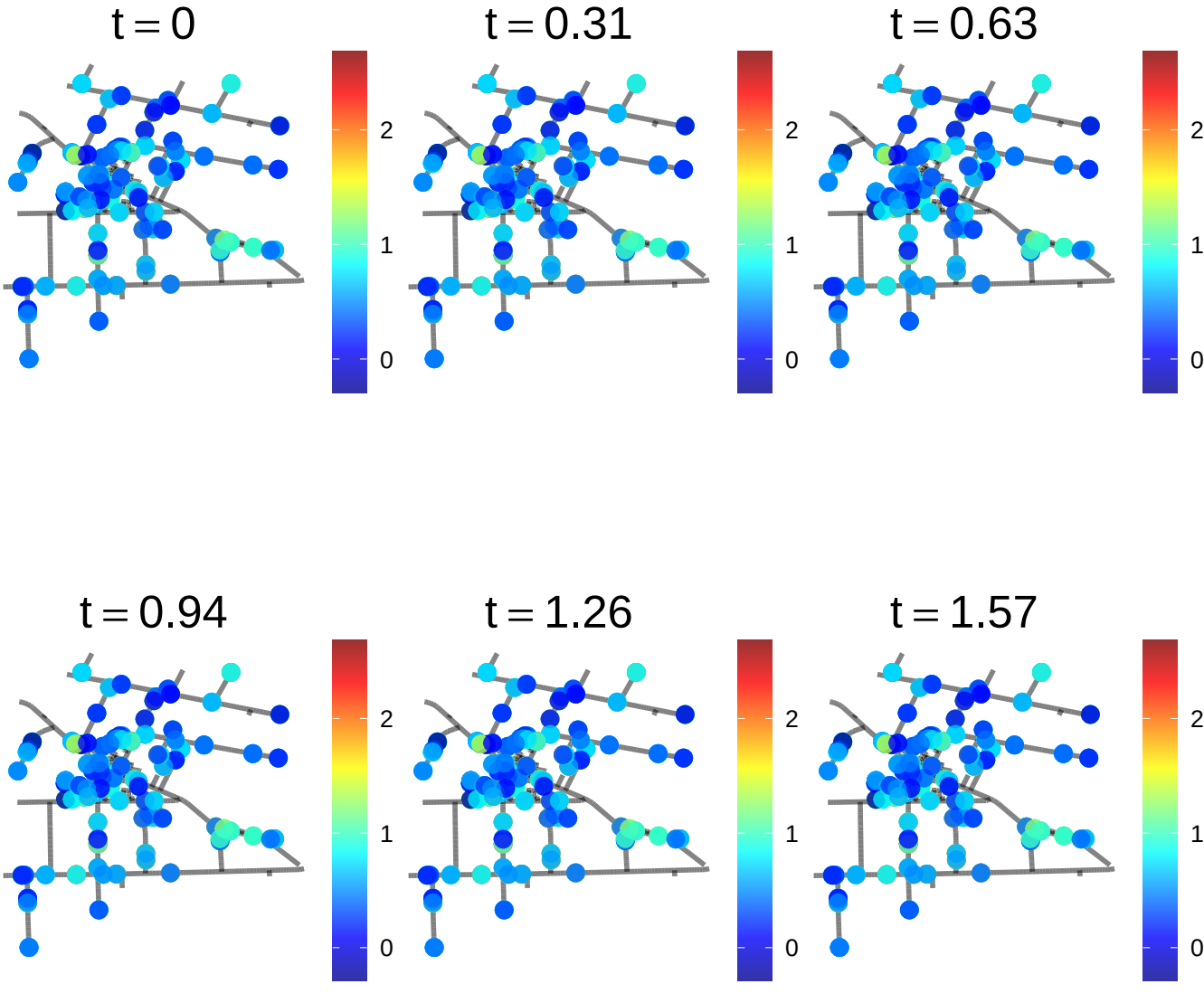

t = 0
1.6
1.2
0.8
0.4
0.0
t = 0.31
1.6
1.2
0.8
0.4
0.0
t = 0.63
1.6
1.2
0.8
0.4
0.0
t = 0.94
1.6
1.2
0.8
0.4
0.0
t = 1.26
1.6
1.2
0.8
0.4
0.0
t = 1.57
1.6
1.2
0.8
0.4
0.0


t = 0
1.6
1.2
0.8
0.4
0.0
t = 0.31
1.6
1.2
0.8
0.4
0.0
t = 0.63
1.6
1.2
0.8
0.4
0.0
t = 0.94
1.6
1.2
0.8
0.4
0.0
t = 1.26
1.6
1.2
0.8
0.4
0.0
t = 1.57
1.6
1.2
0.8
0.4
0.0

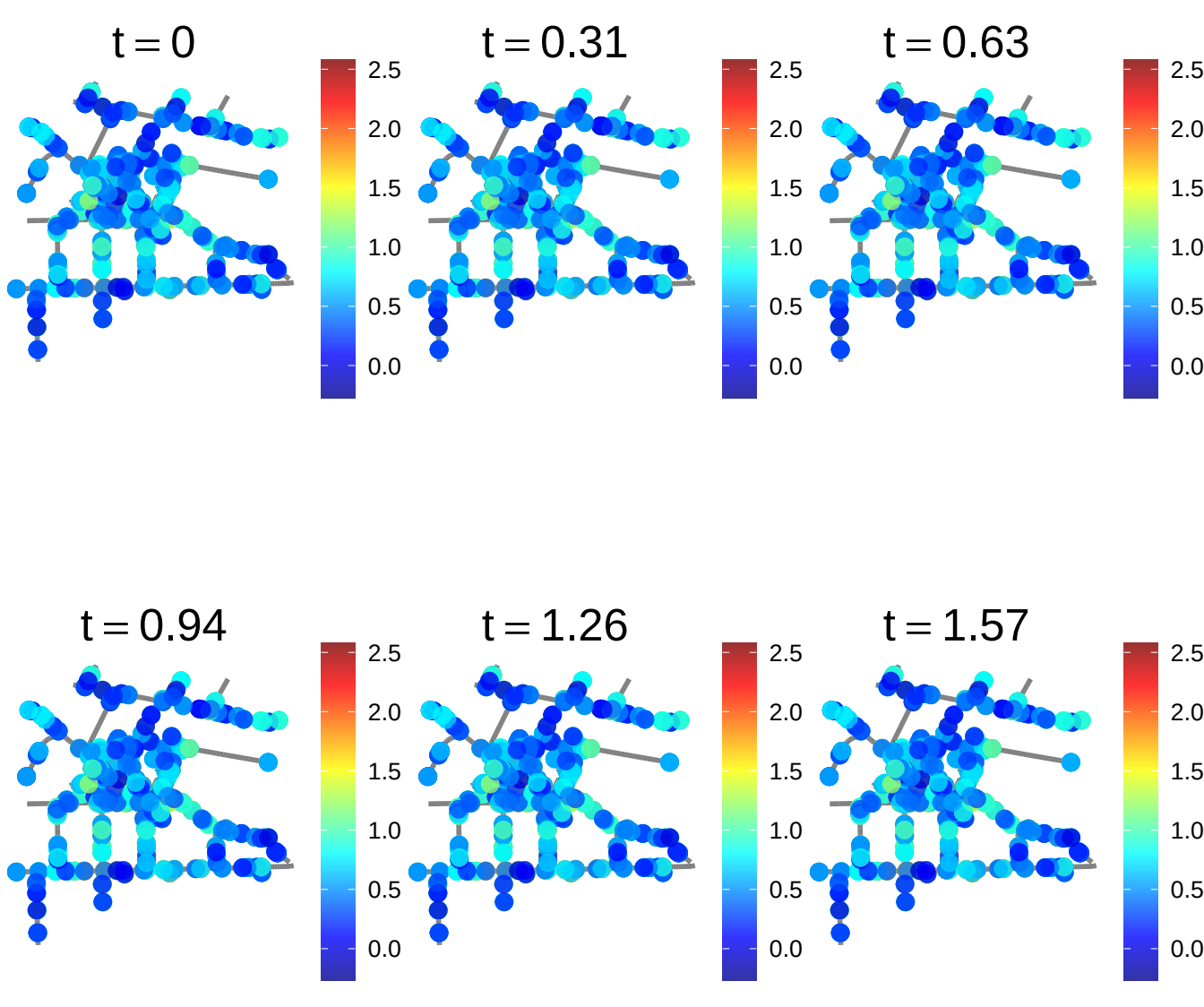
Sample (n=50)



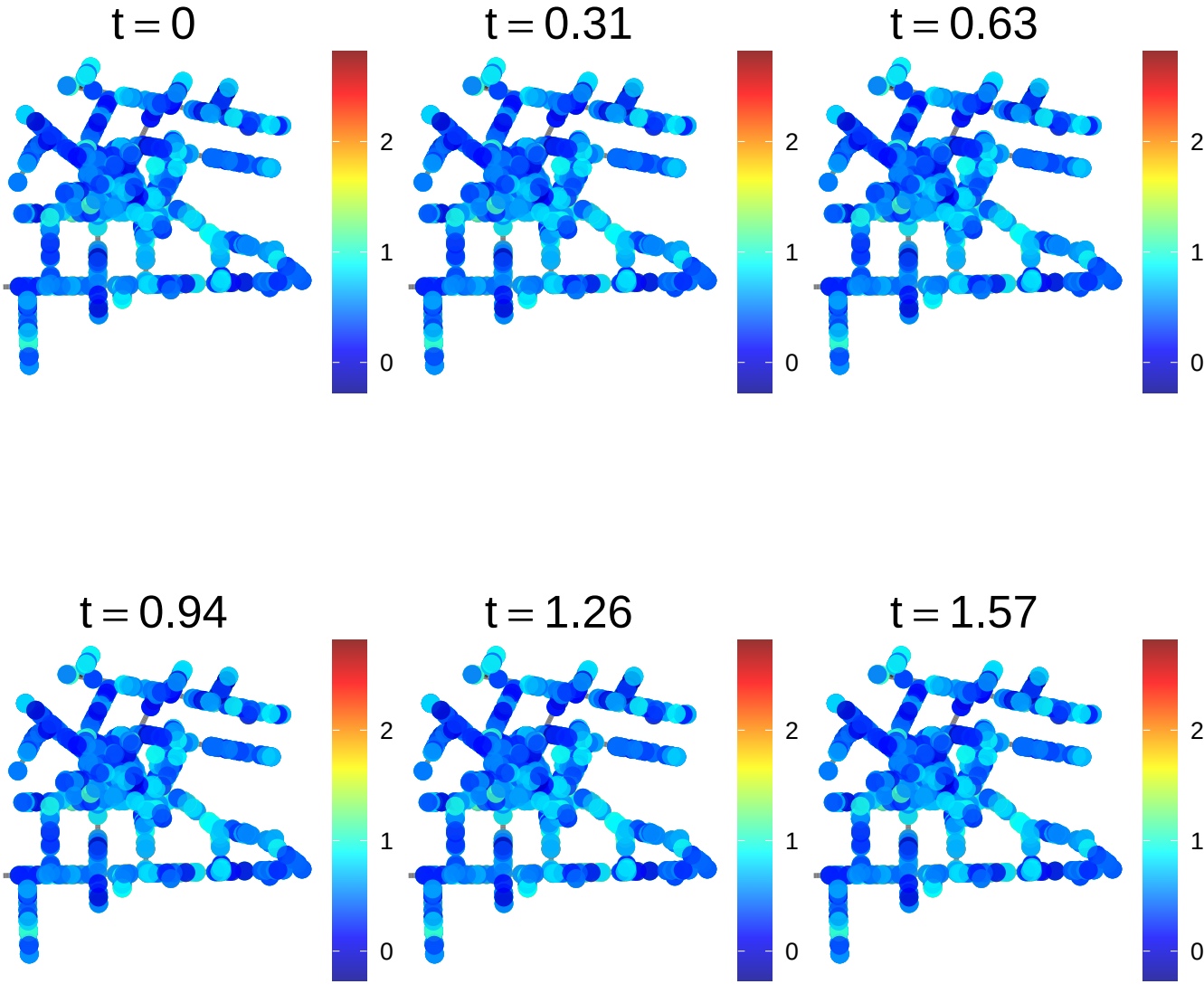
Sample (n=100)



Sample (n=250)



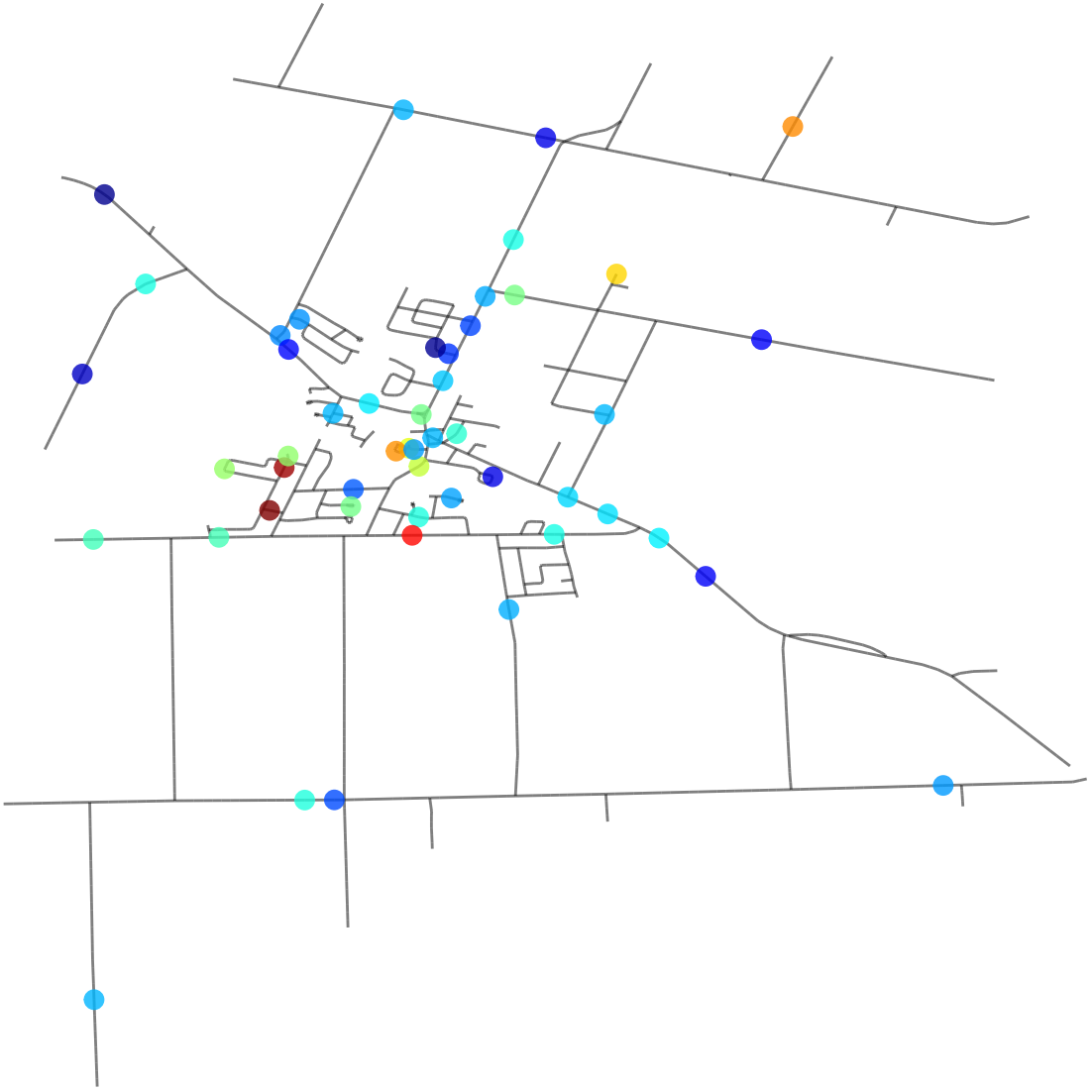
Sample (n=500)

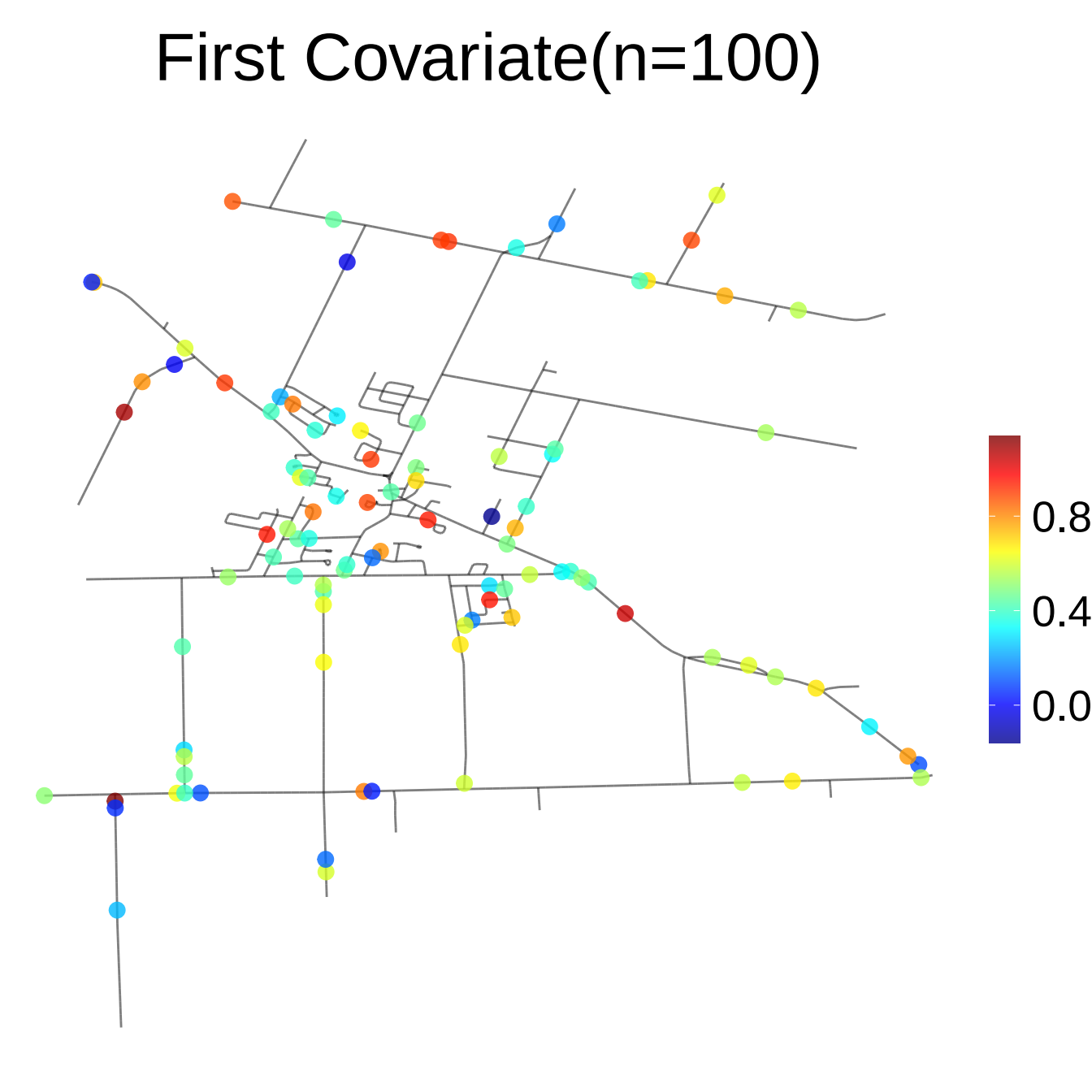


First Covariate

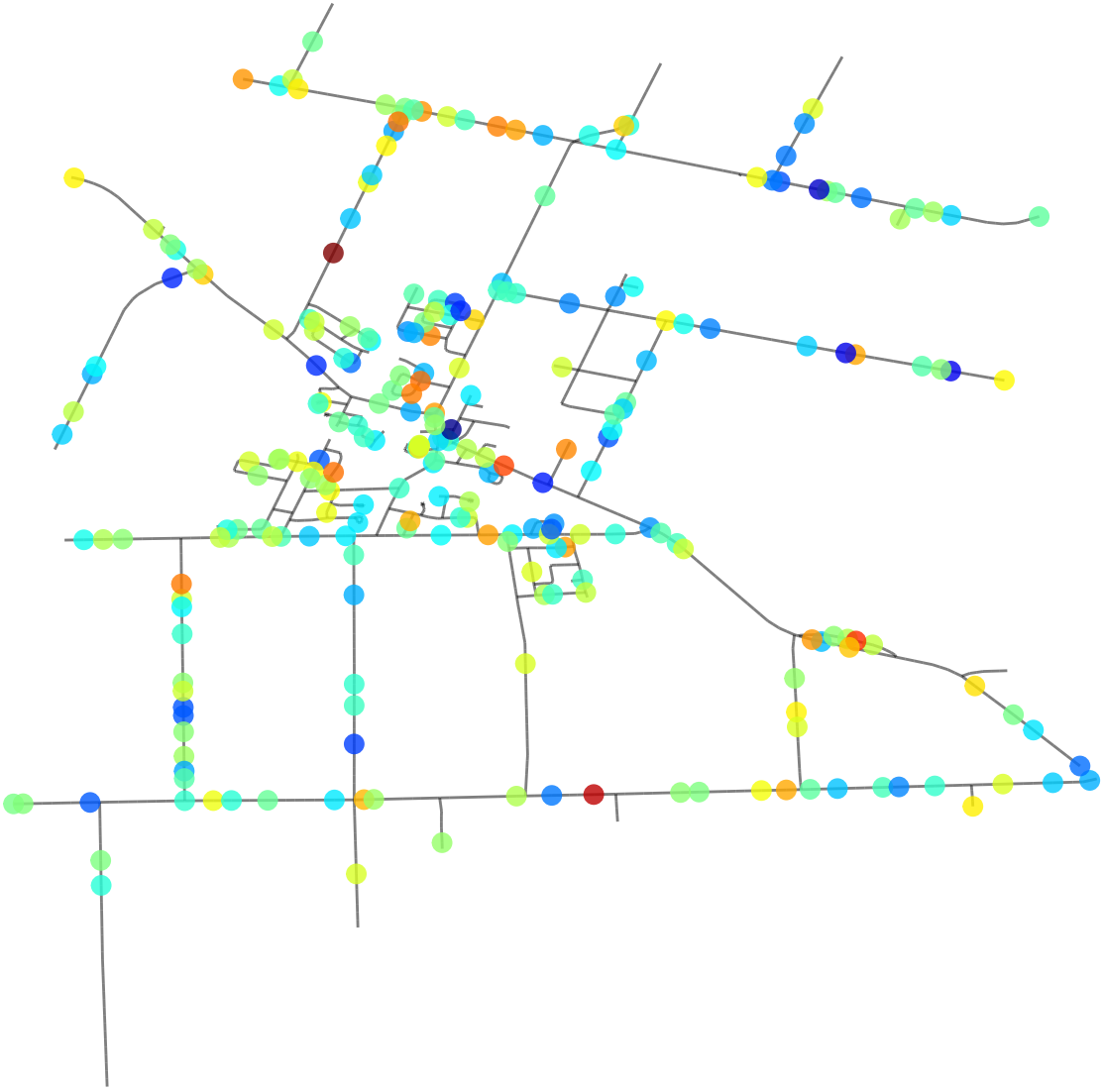
Second Covariate

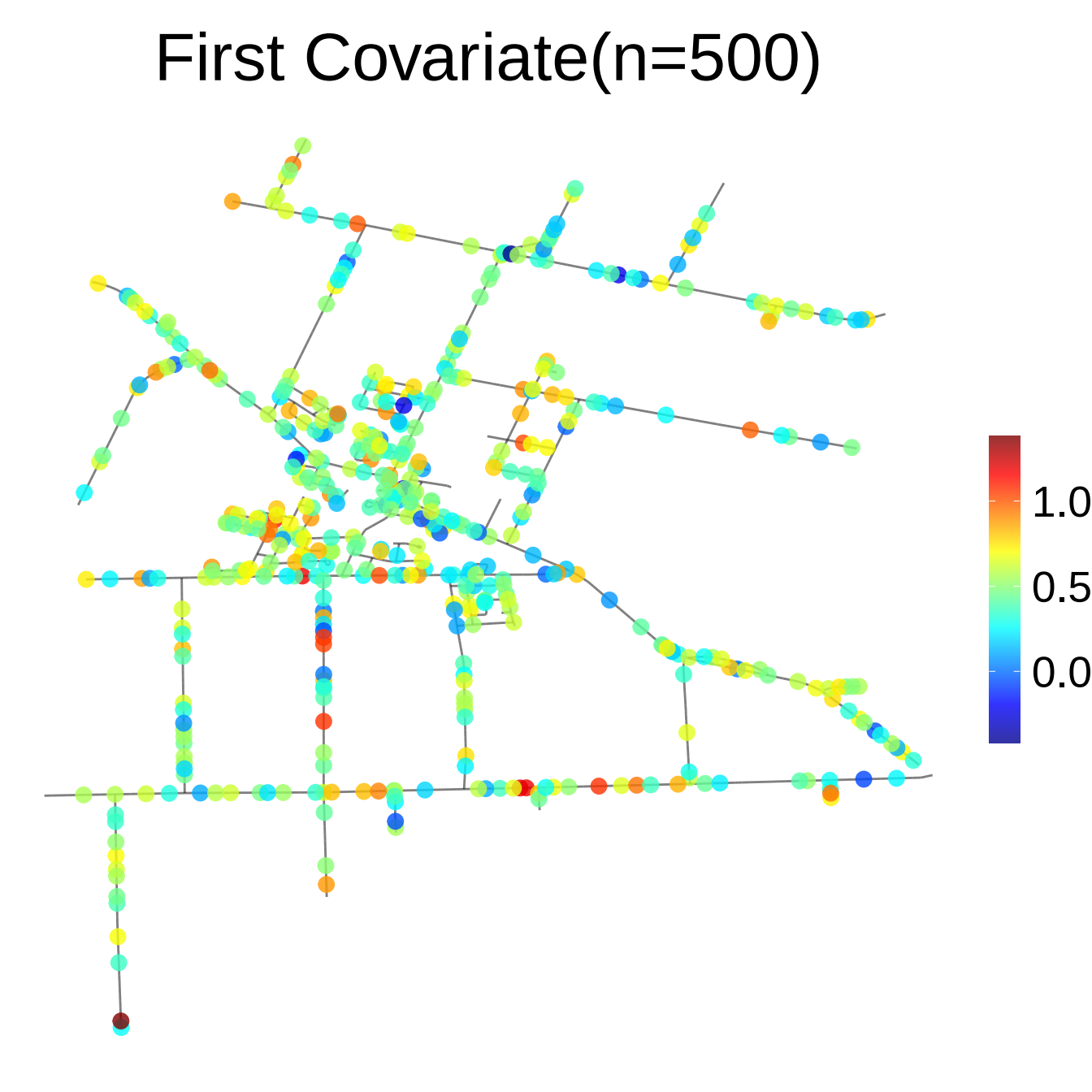
First Covariate(n=50)



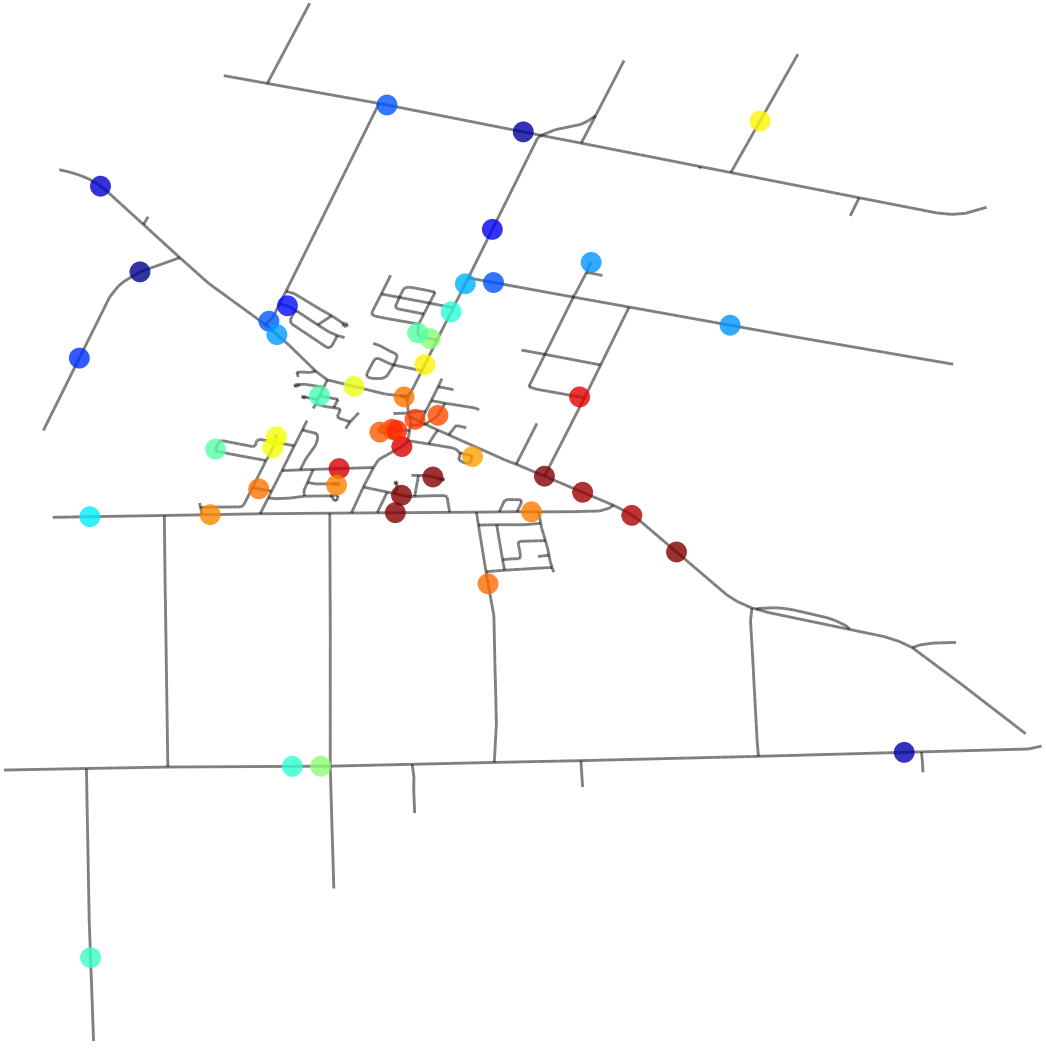

First Covariate(n=100)
0.8
0.4
0.0

First Covariate(n=250)

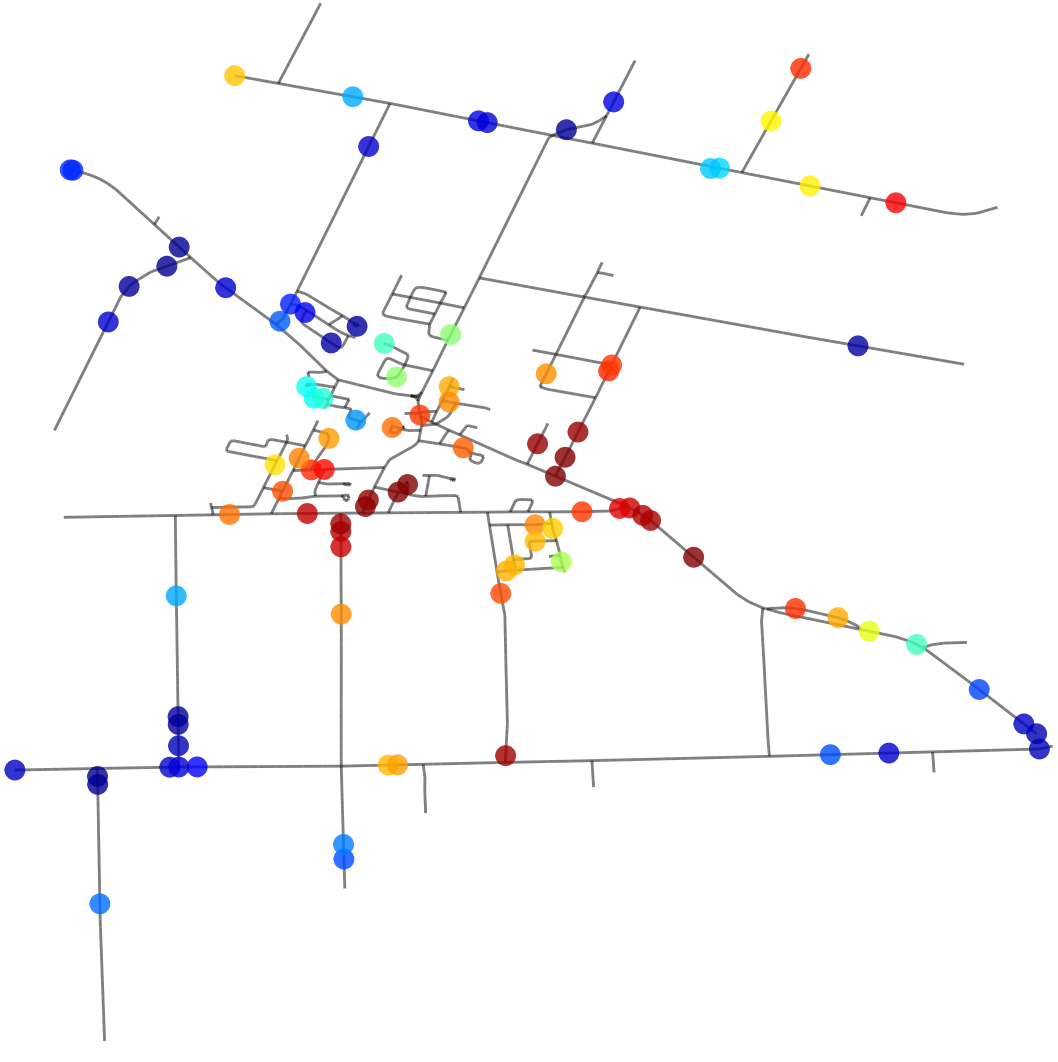



First Covariate(n=500)
1.0
0.5
0.0

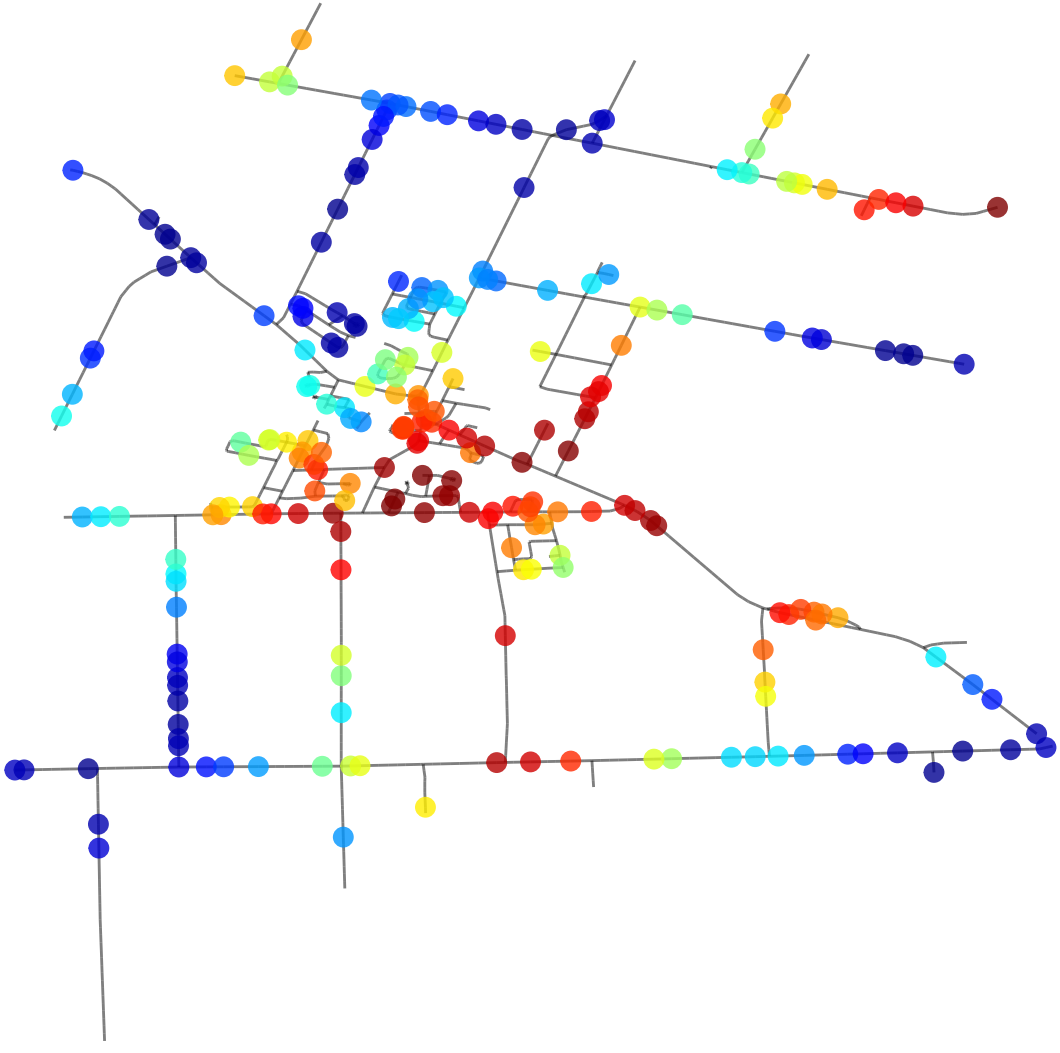
Second Covariate(n=50)

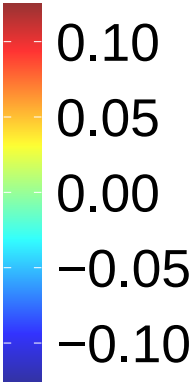
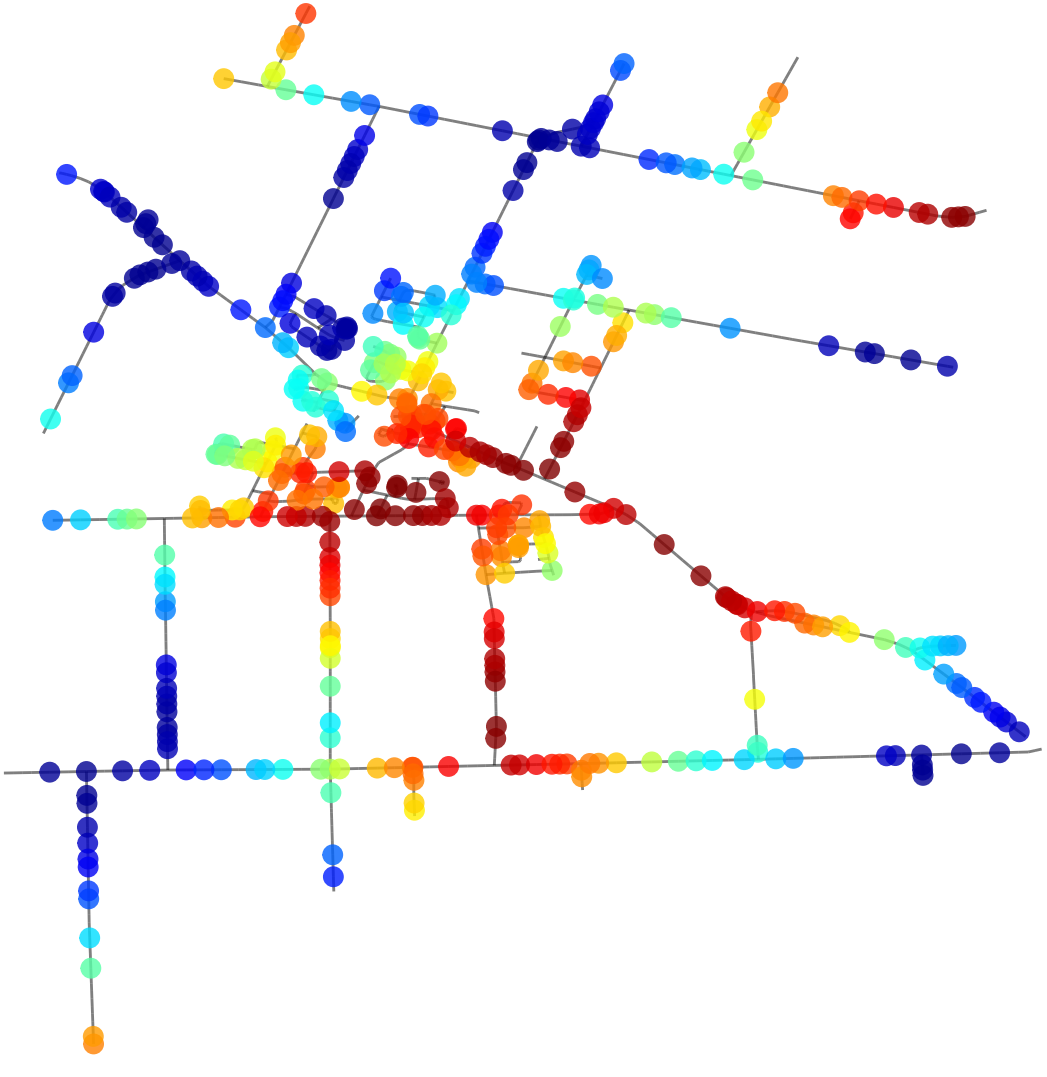


Second Covariate(n=100)



Second Covariate(n=250)





Second Covariate(n=500)