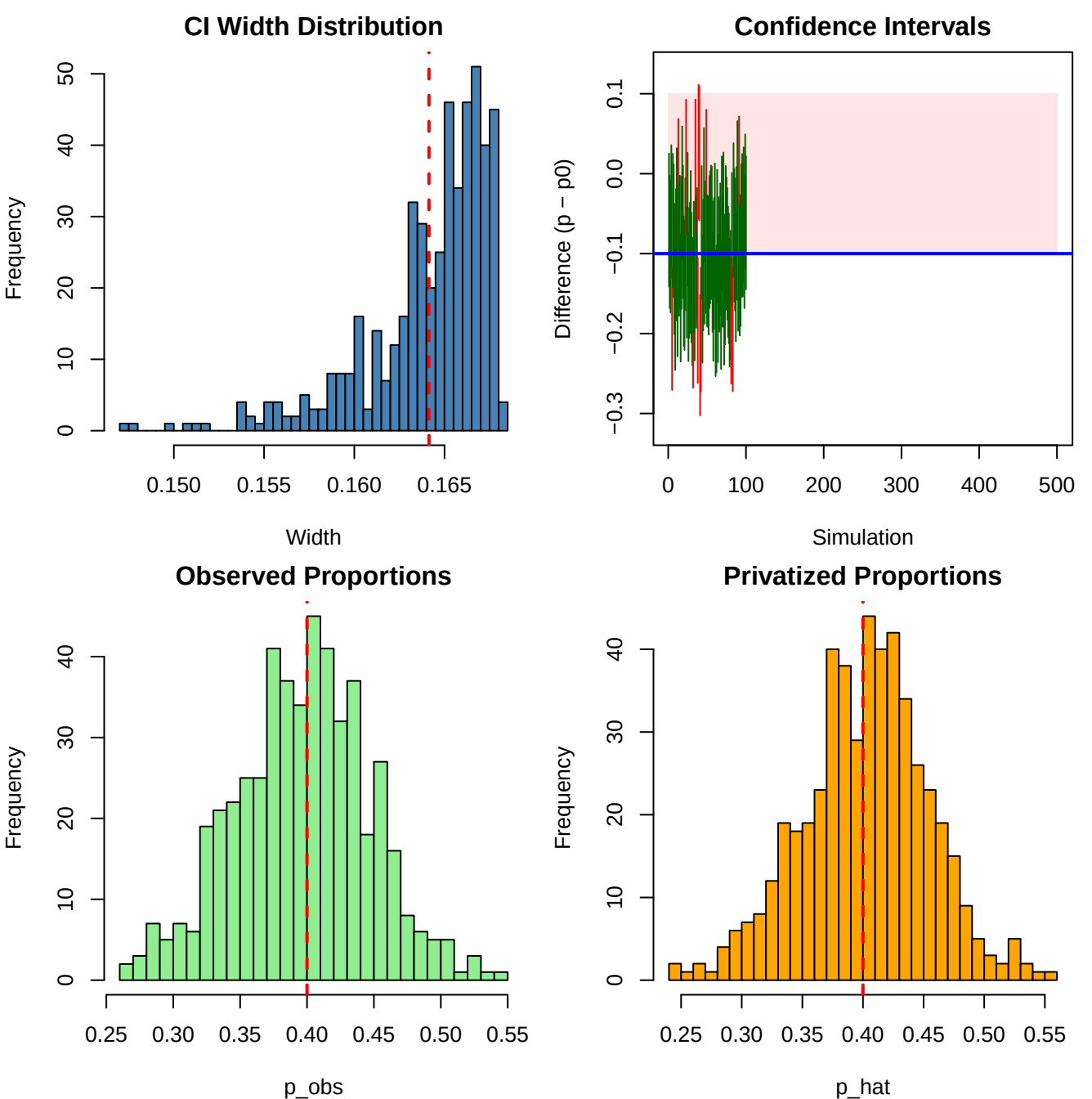
CI Width Distribution
Frequency
0
10
20
30
40
50
0.150
0.155
0.160
0.165
Width
Confidence Intervals
Difference (p − p0)
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400
500
Simulation
Observed Proportions
Frequency
0
10
20
30
40
0.25
0.30
0.35
0.40
0.45
0.50
0.55
p_obs
Privatized Proportions
Frequency
0
10
20
30
40
0.25
0.30
0.35
0.40
0.45
0.50
0.55
p_hat