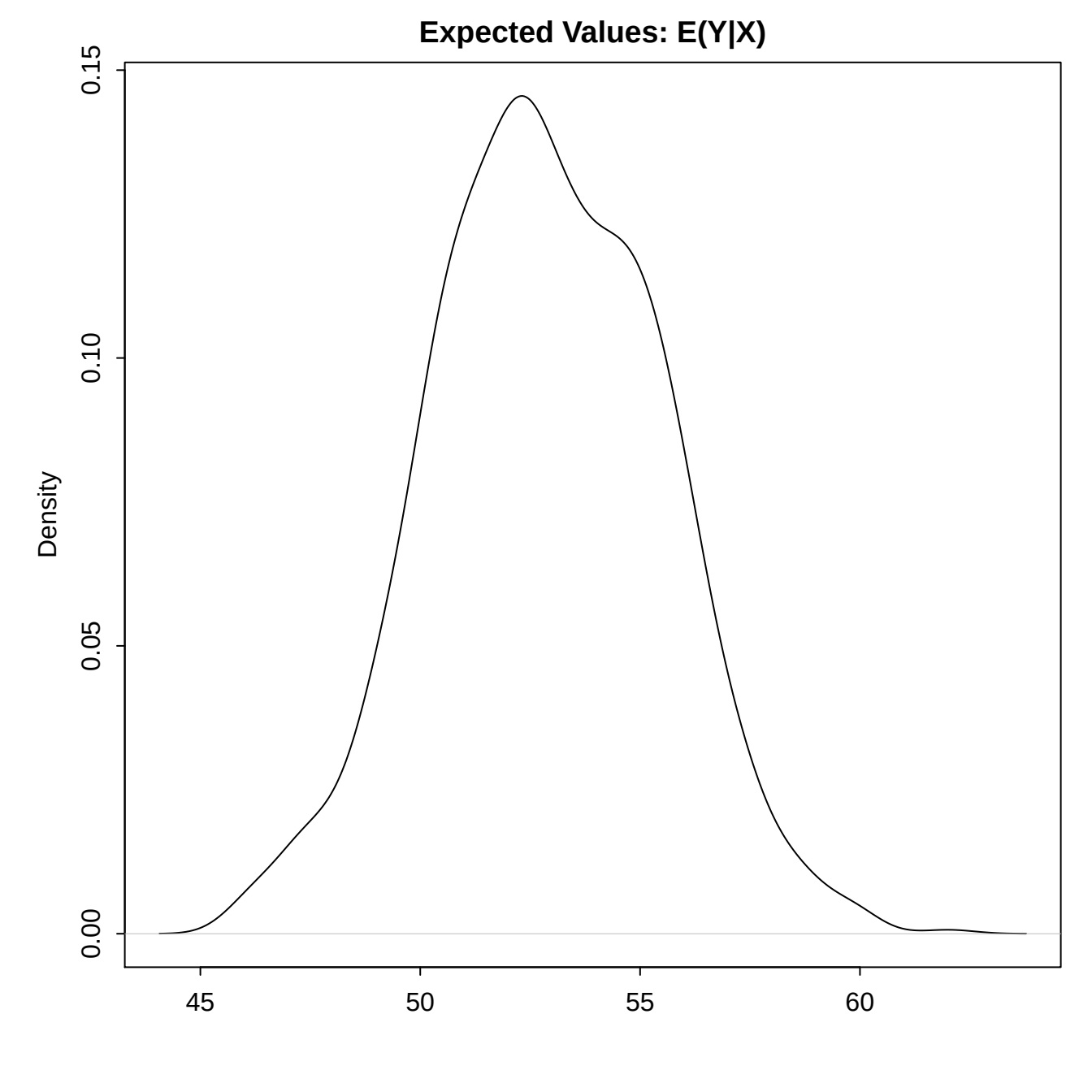
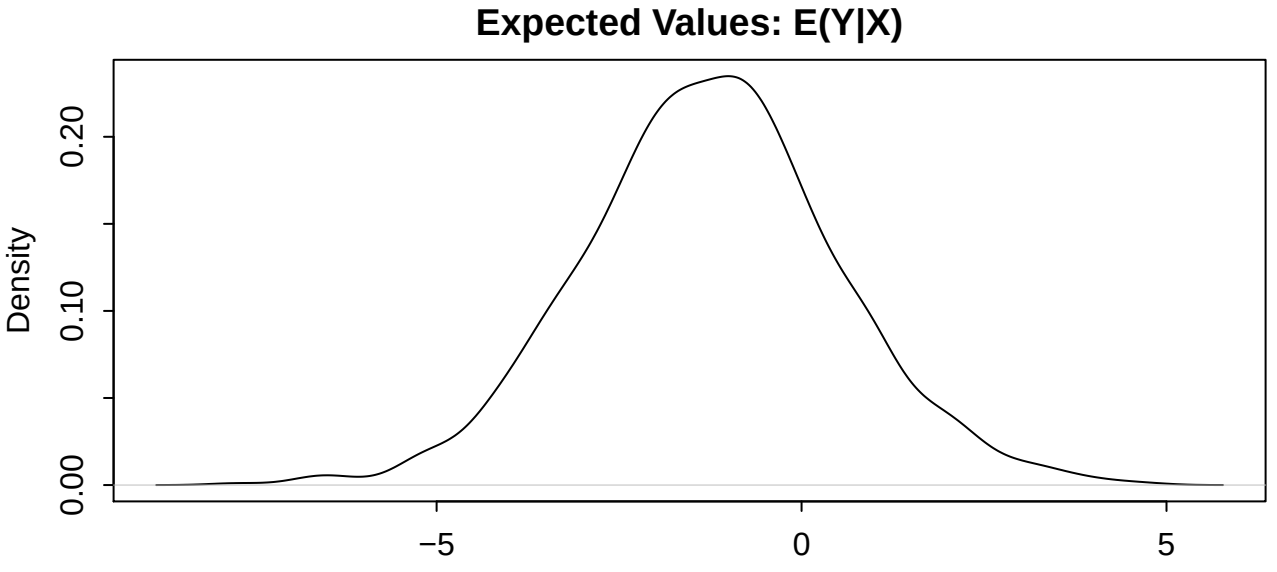
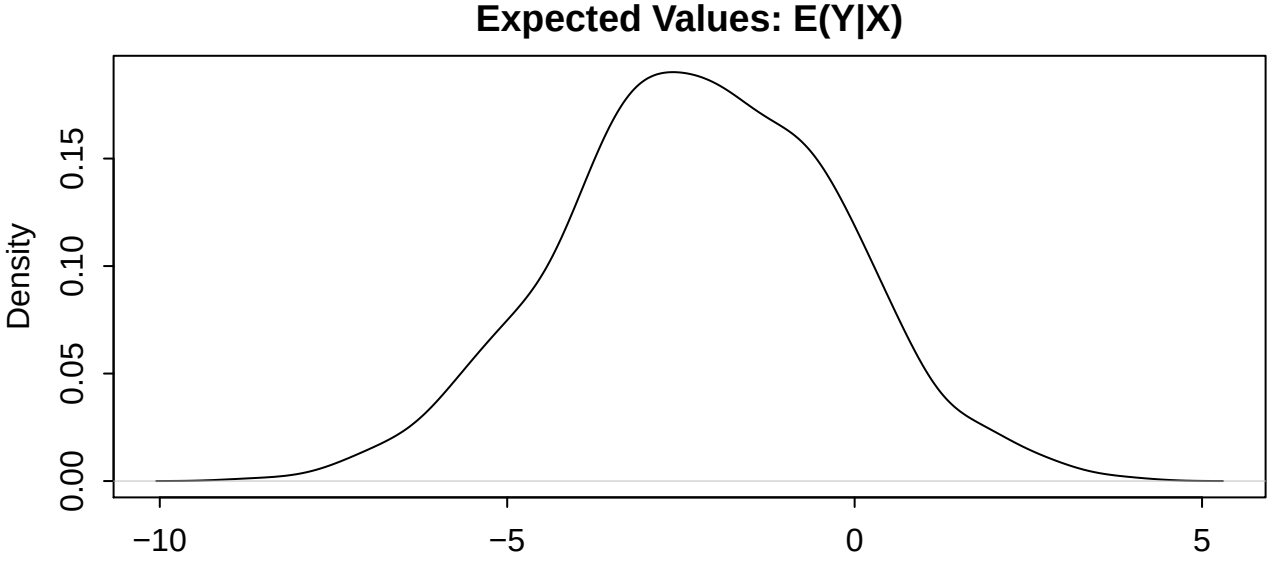
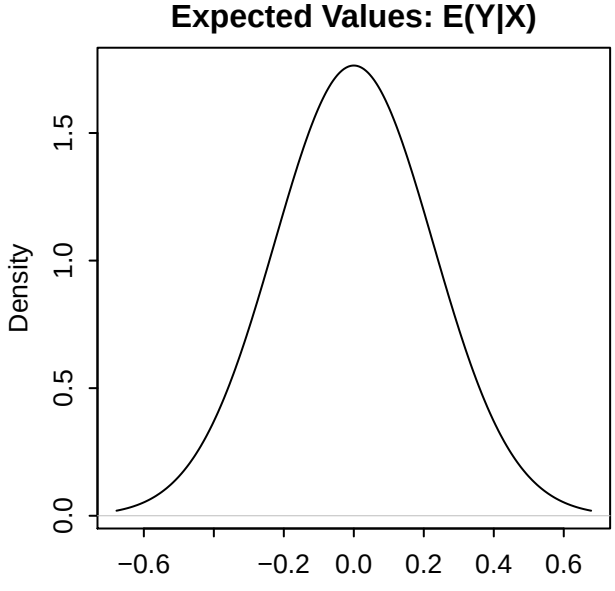
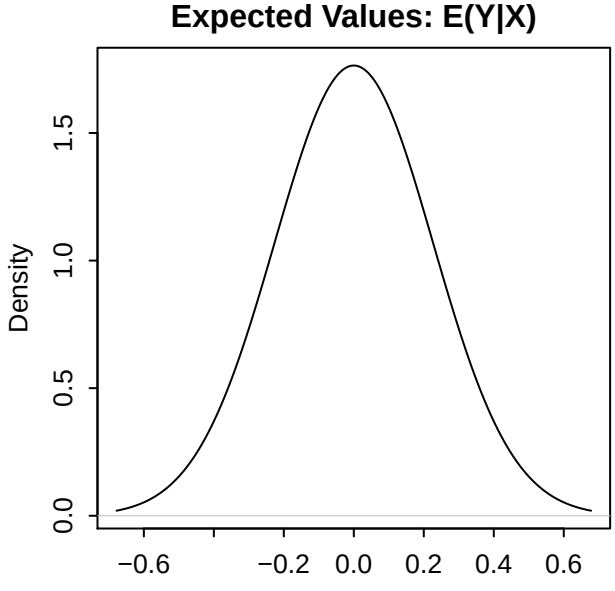
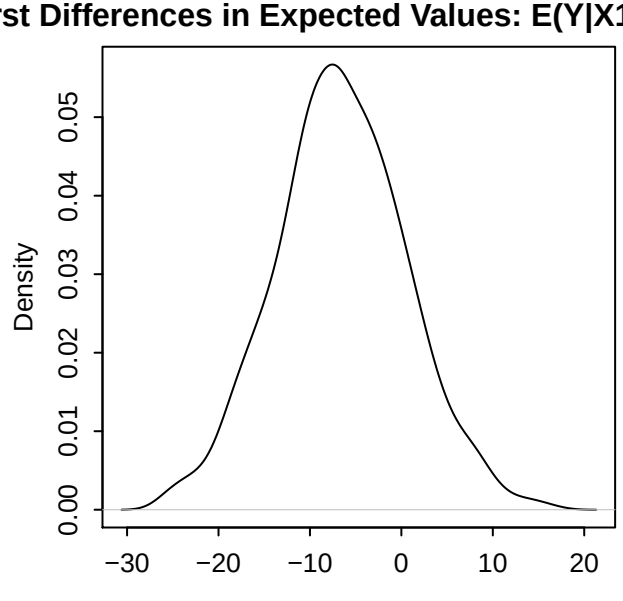

Expected Values: E(Y|X)
Density
0.00
0.05
0.10
0.15
45
50
55
60

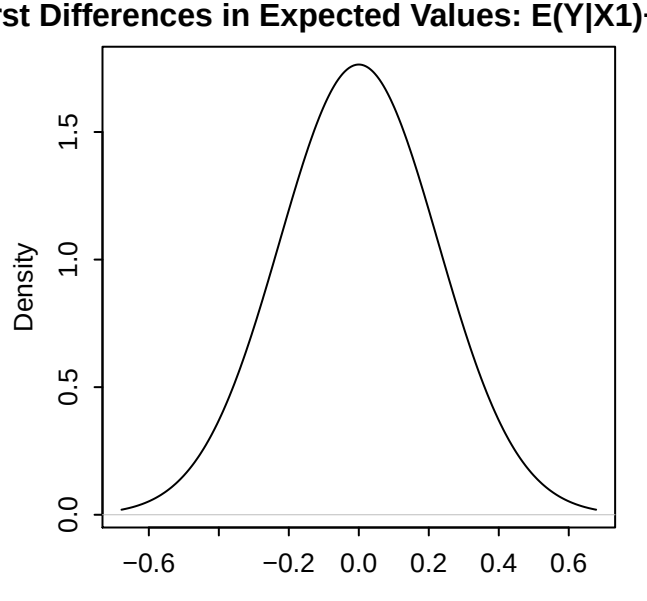

Expected Values: E(Y|X)
Density
0.00
0.10
0.20
−5
0
5

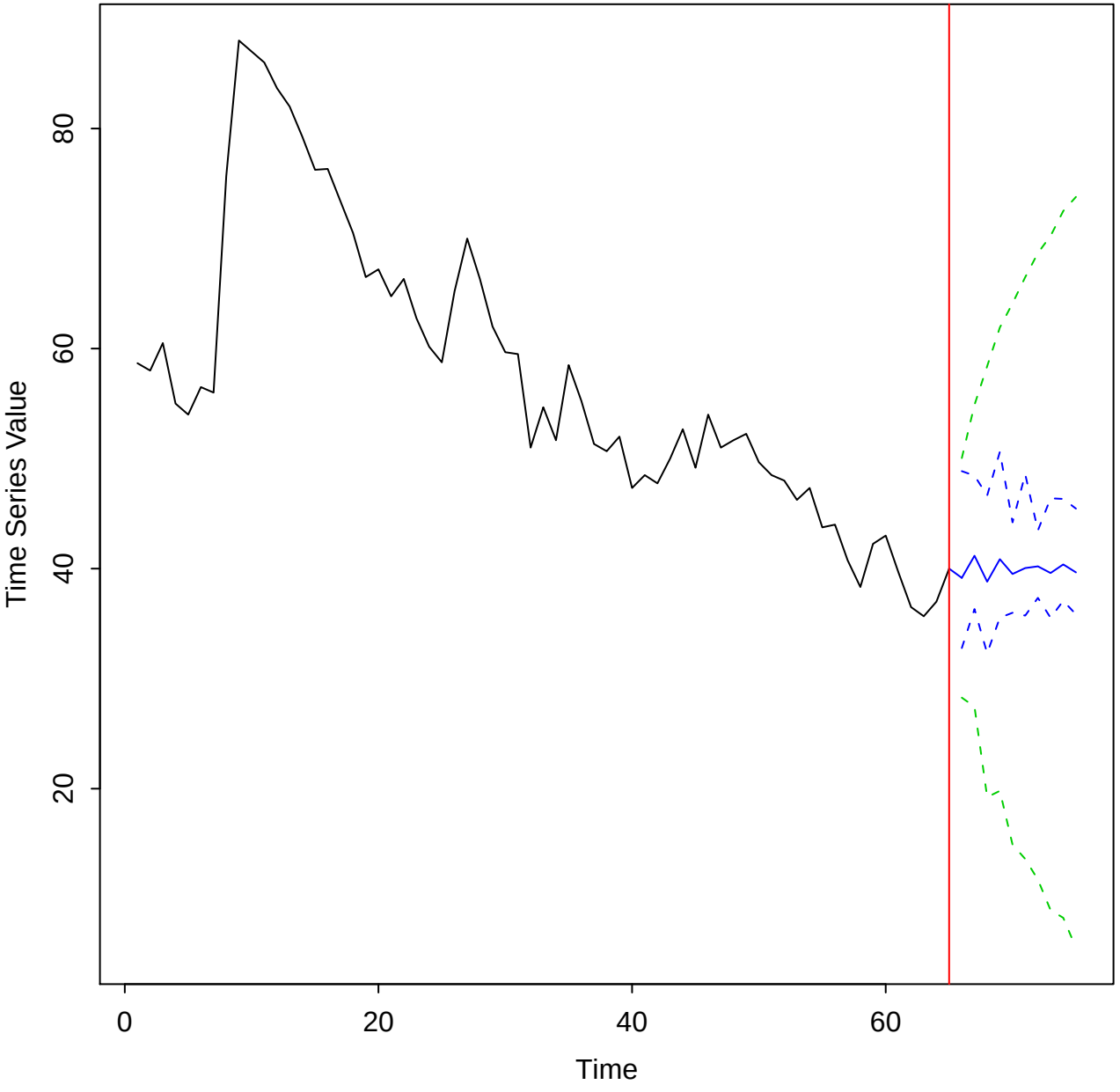

Expected Values: E(Y|X)
Density
0.00
0.05
0.10
0.15
−10
−5
0
5

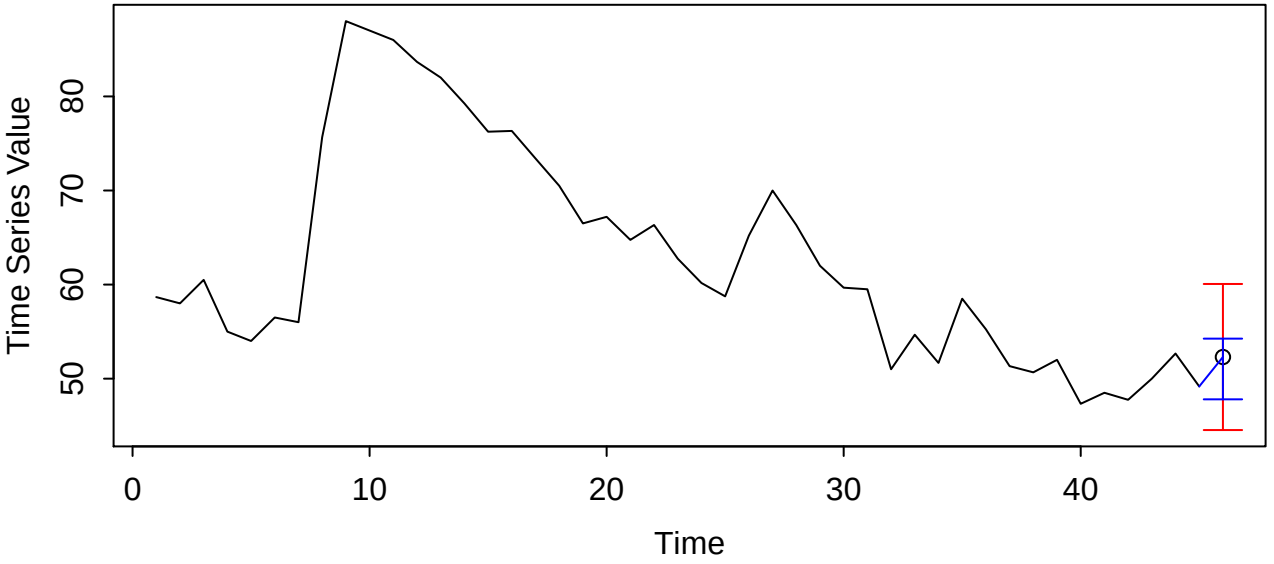

Expected Values: E(Y|X)
Density
0.0
0.5
1.0
1.5
−0.6
−0.2
0.0
0.2
0.4
0.6

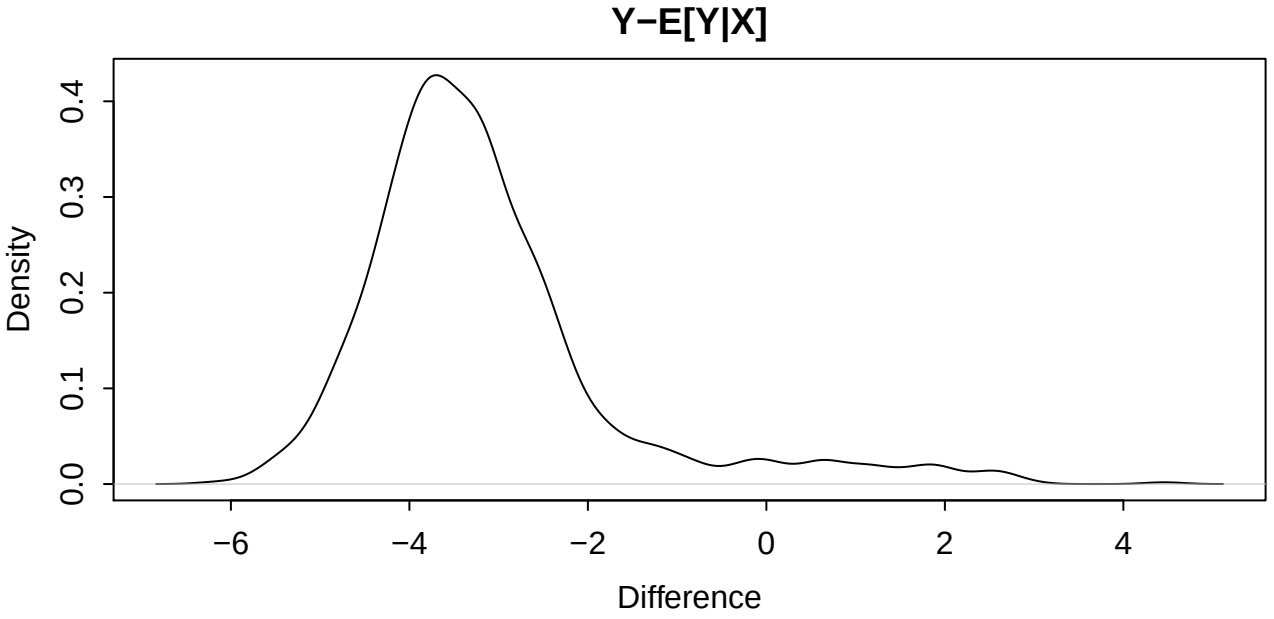

Expected Values: E(Y|X)
Density
0.0
0.5
1.0
1.5
−0.6
−0.2
0.0
0.2
0.4
0.6

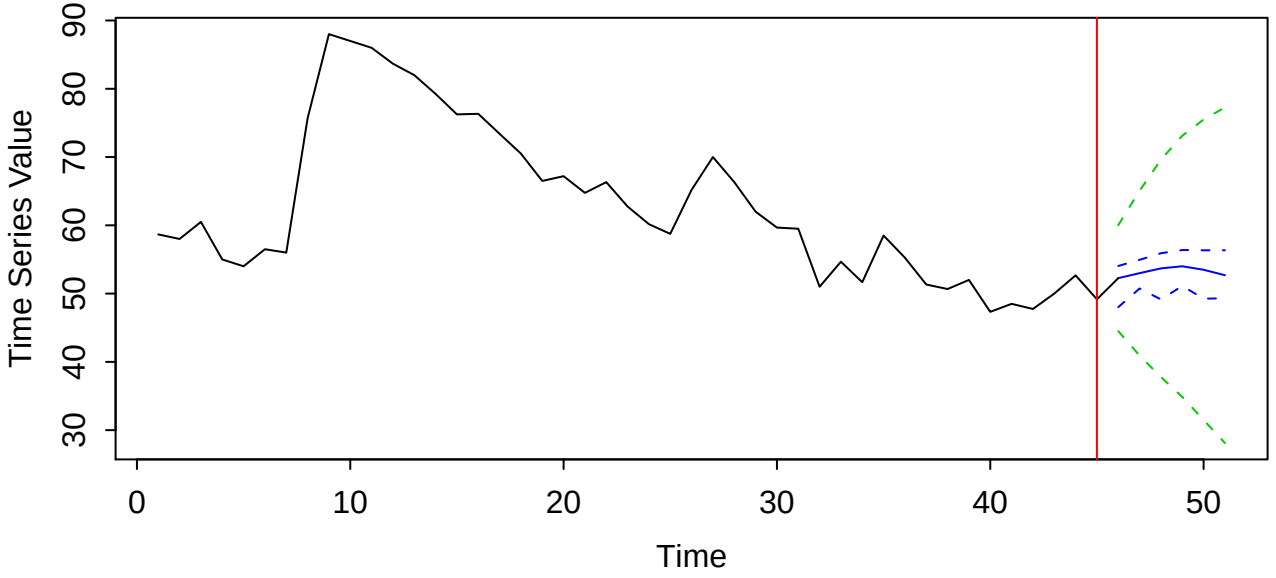

First Differences in Expected Values: E(Y|X1)
Density
0.00
0.01
0.02
0.03
0.04
0.05
−30
−20
−10
0
10
20

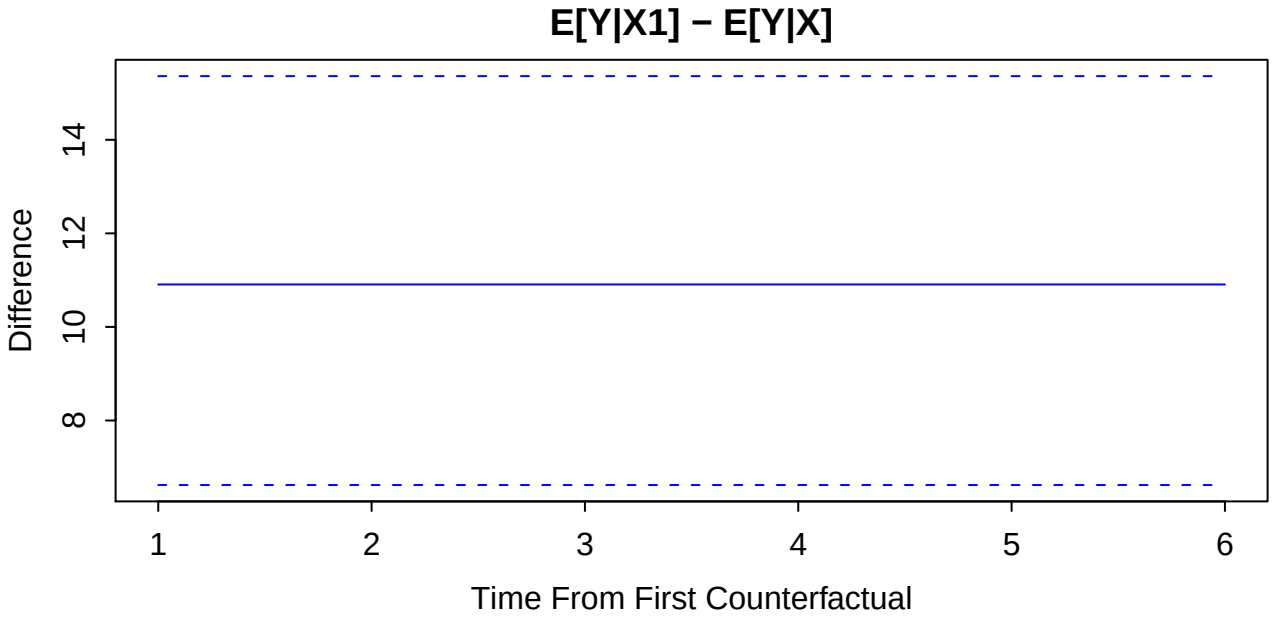

irst Differences in Expected Values: E(Y|X1)
Density
0.0
0.5
1.0
1.5
−0.6
−0.2
0.0
0.2
0.4
0.6

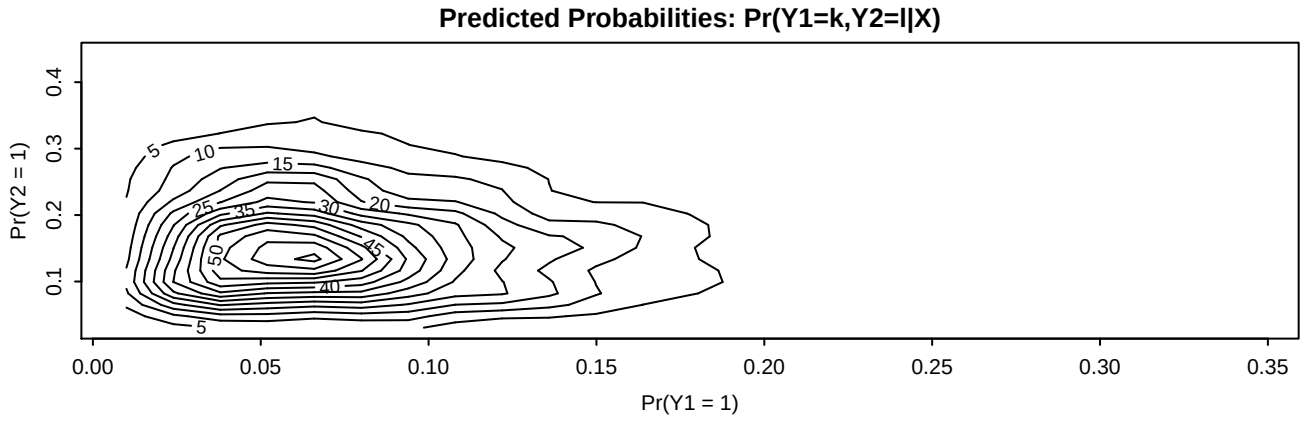

Time Series Value
20
40
60
80
0
20
40
60
Time

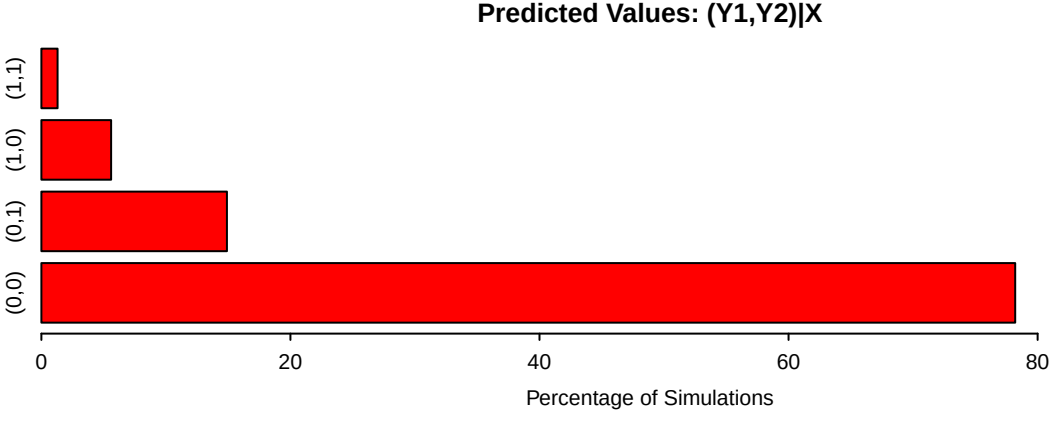

Time Series Value
50
60
70
80
0
10
20
30
40
Time

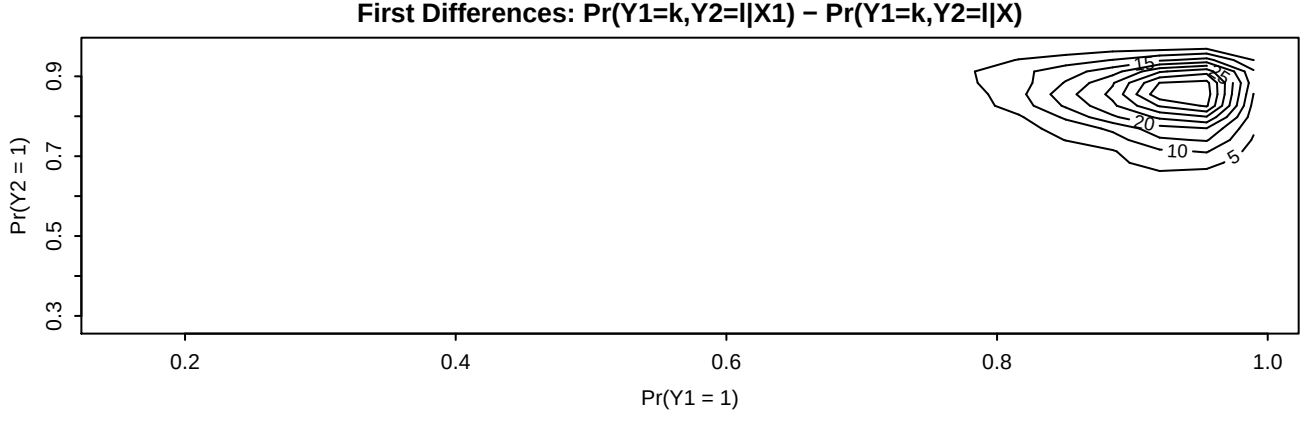

Y−E[Y|X]
Density
0.0
0.1
0.2
0.3
0.4
−6
−4
−2
0
2
4
Difference

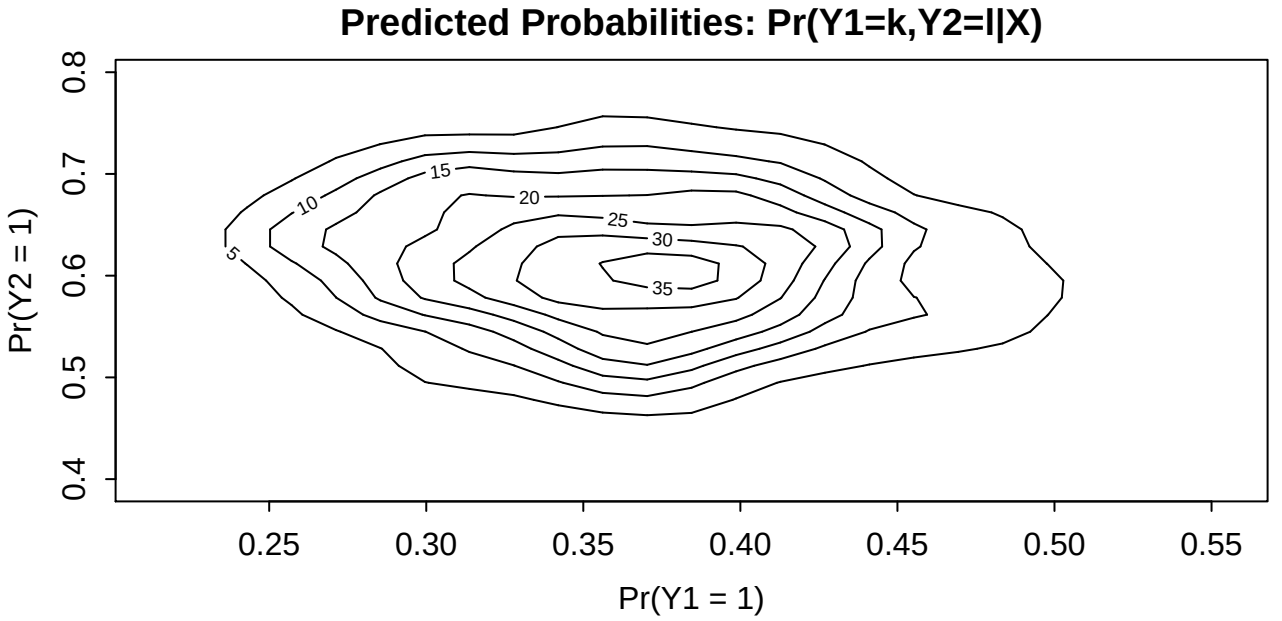

Time Series Value
90
80
70
60
50
40
30
0
10
20
30
40
50
Time

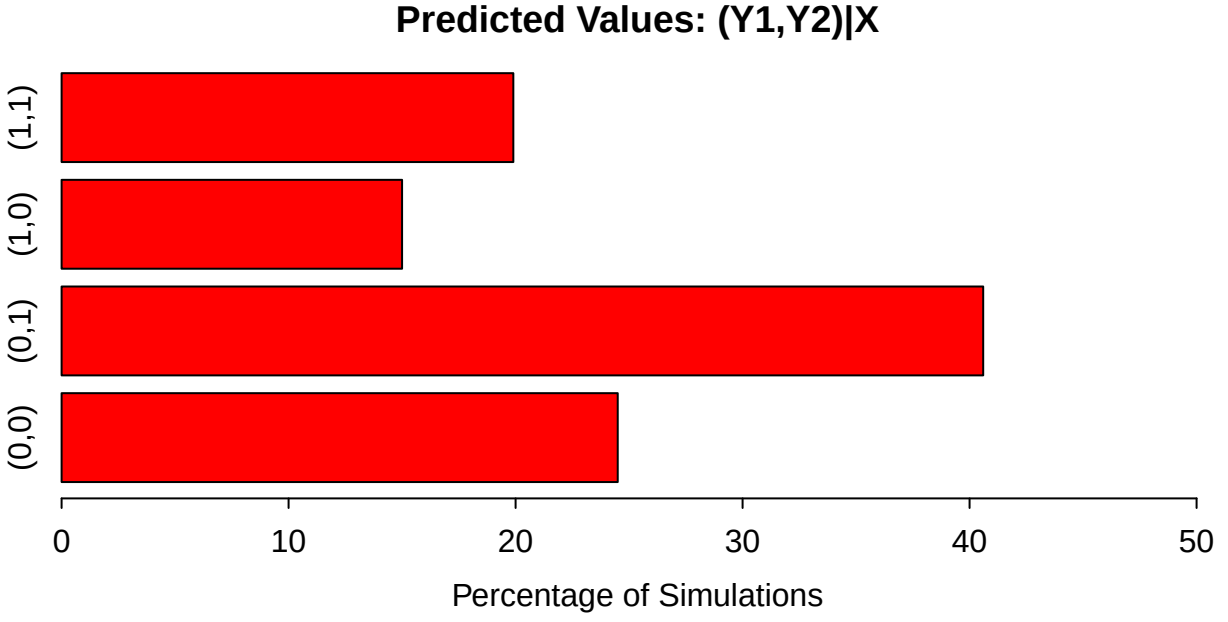

E[Y|X1] − E[Y|X]
Difference
14
12
10
8
1
2
3
4
5
6
Time From First Counterfactual

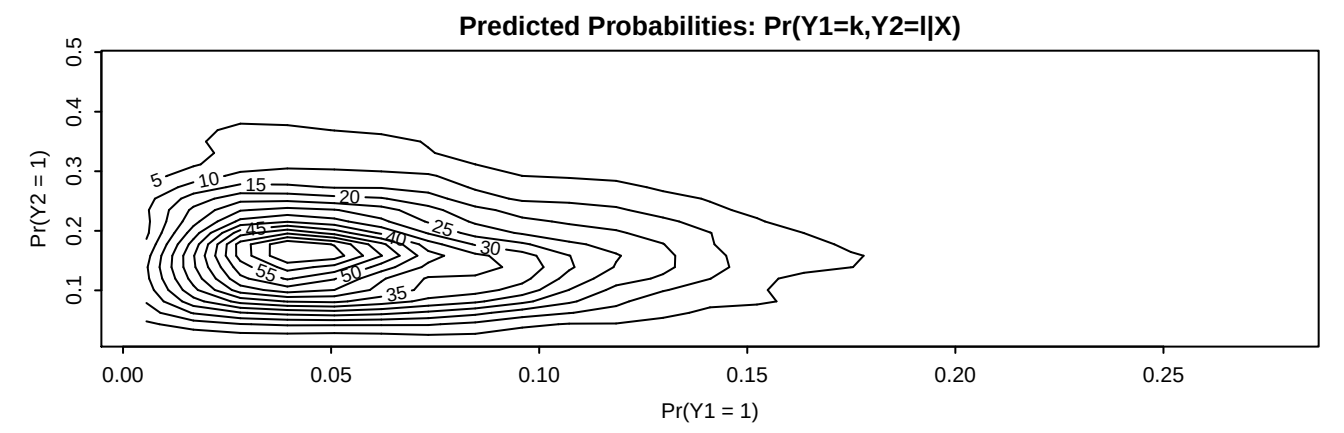

Predicted Probabilities: Pr(Y1=k,Y2=l|X)
Pr(Y2 = 1)
0.1
0.2
0.3
0.4
5
10
15
20
25
30
35
40
45
50
5
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
Pr(Y1 = 1)

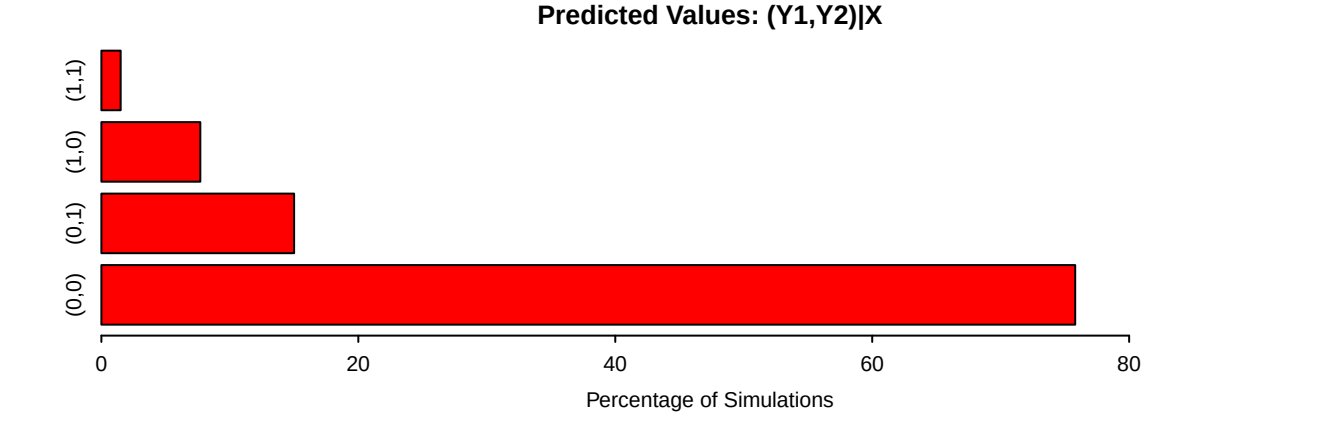

Predicted Values: (Y1,Y2)|X
(1,1)
(1,0)
(0,1)
(0,0)
0
20
40
60
80
Percentage of Simulations

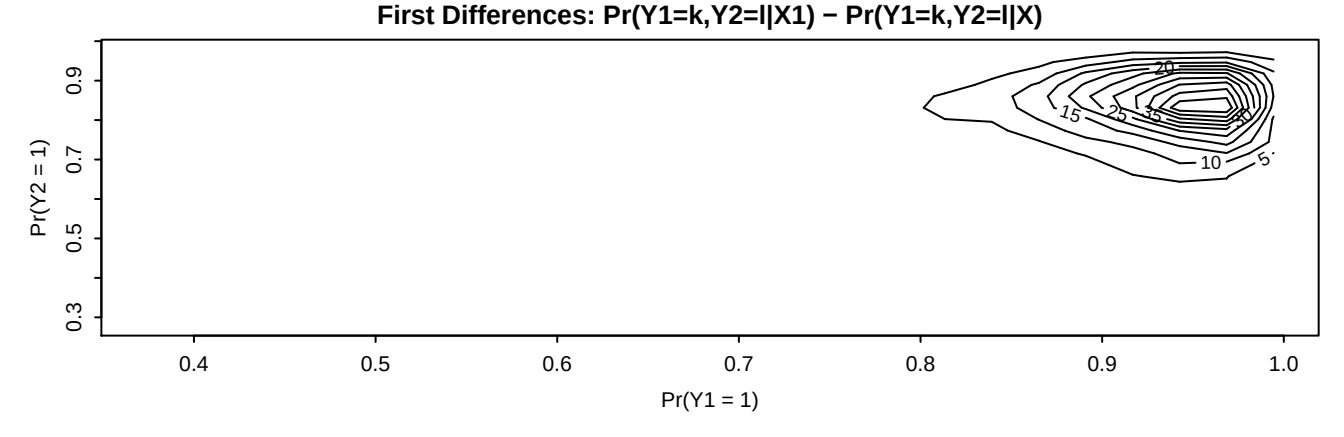

First Differences: Pr(Y1=k,Y2=l|X1) − Pr(Y1=k,Y2=l|X)
Pr(Y2 = 1)
0.3
0.5
0.7
0.9
15
25
20
10
5
0.2
0.4
0.6
0.8
1.0
Pr(Y1 = 1)

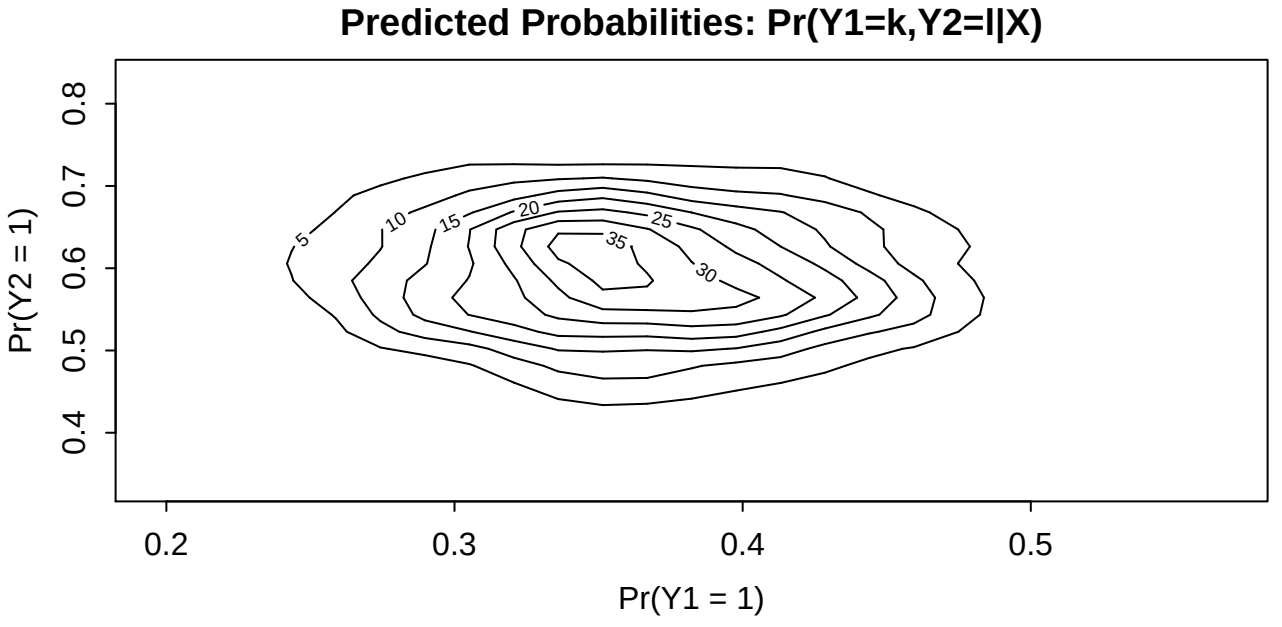

Predicted Probabilities: Pr(Y1=k,Y2=l|X)
Pr(Y2 = 1)
0.4
0.5
0.6
0.7
0.8
5
10
15
20
25
30
35
0.25
0.30
0.35
0.40
0.45
0.50
0.55
Pr(Y1 = 1)

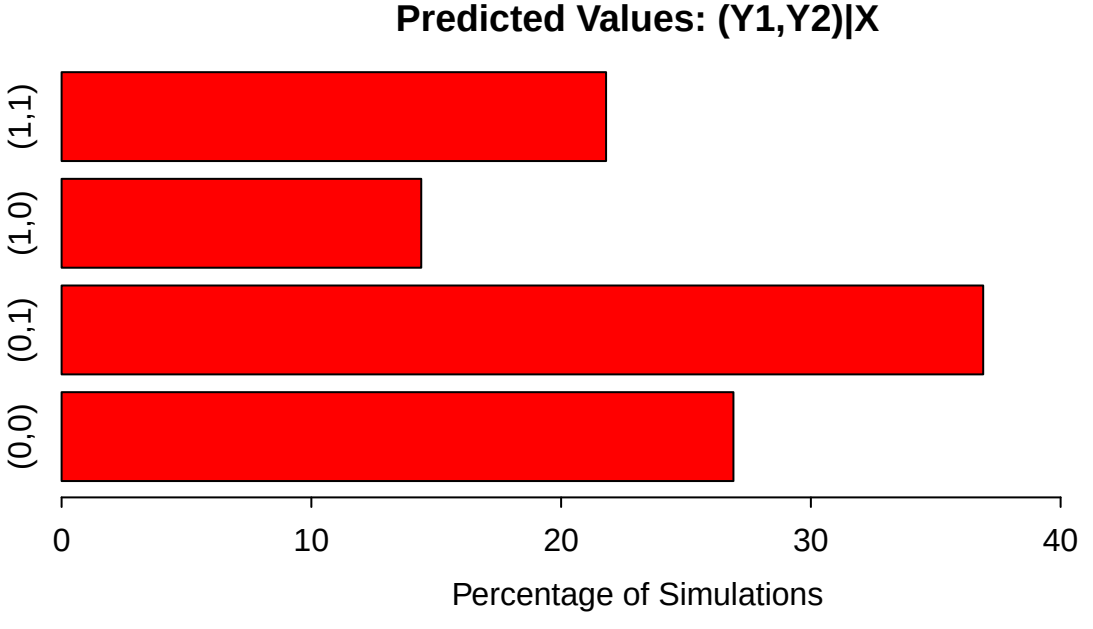

Predicted Values: (Y1,Y2)|X
(1,1)
(1,0)
(0,1)
(0,0)
0
10
20
30
40
50
Percentage of Simulations

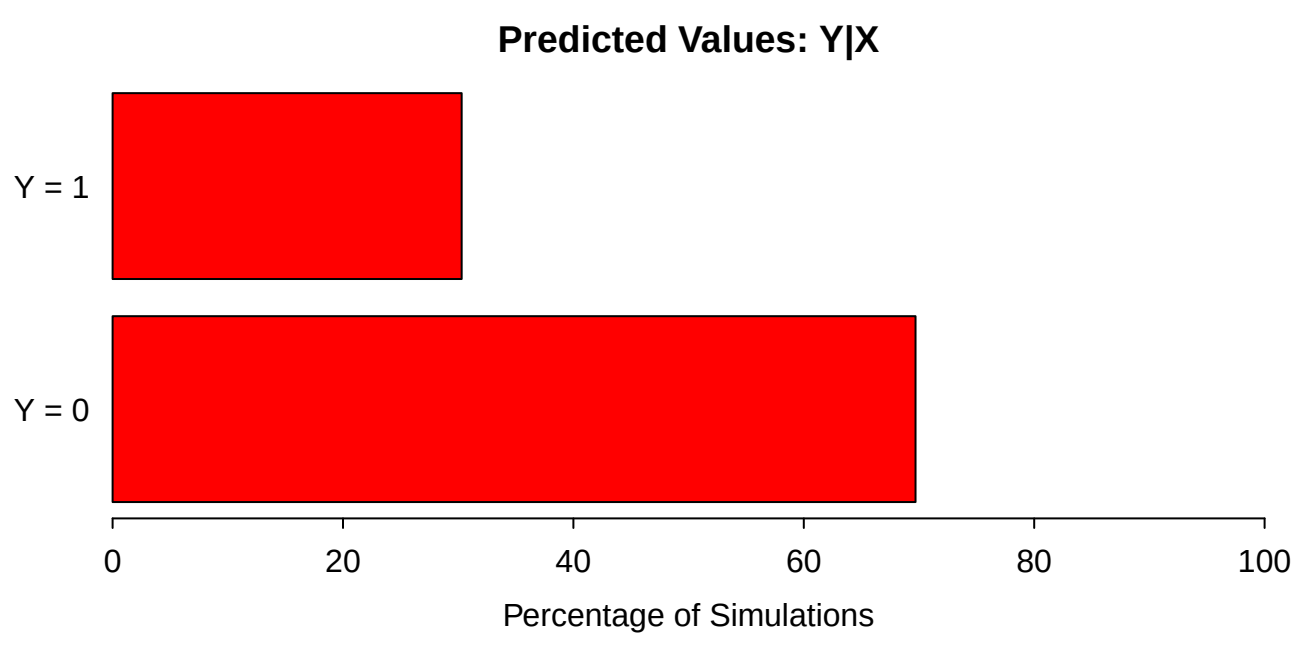

Predicted Probabilities: Pr(Y1=k,Y2=l|X)
Pr(Y2 = 1)
0.1
0.2
0.3
0.4
0.5
5
10
15
20
25
30
35
40
45
50
55
0.00
0.05
0.10
0.15
0.20
0.25
Pr(Y1 = 1)

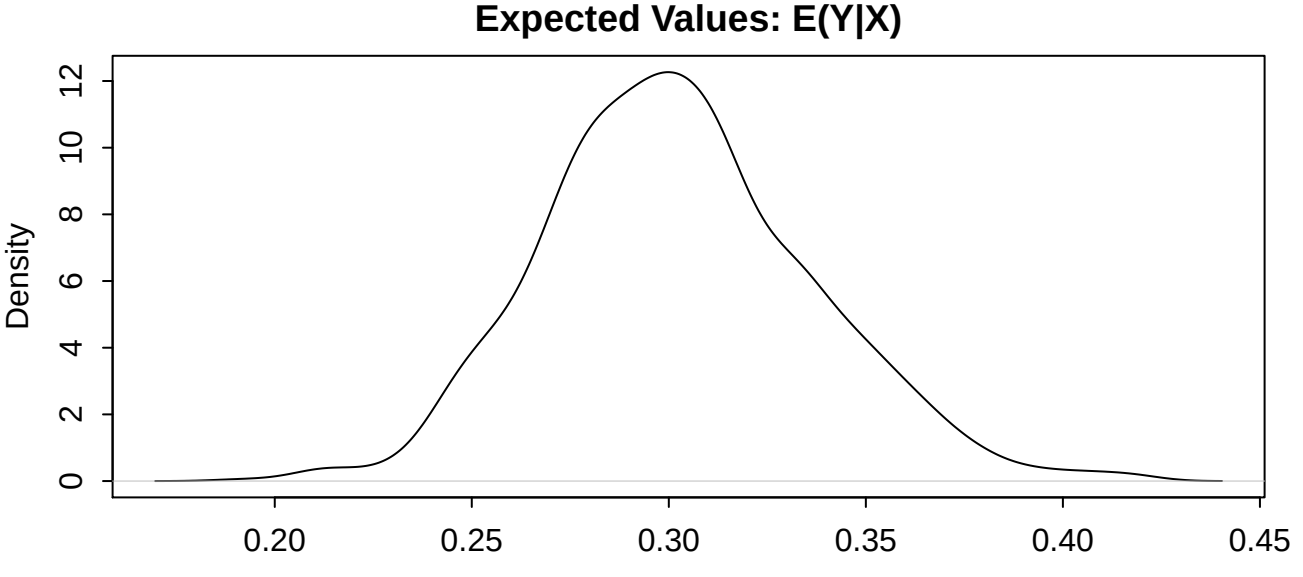

Predicted Values: (Y1,Y2)|X
(1,1)
(1,0)
(0,1)
(0,0)
0
20
40
60
80
Percentage of Simulations

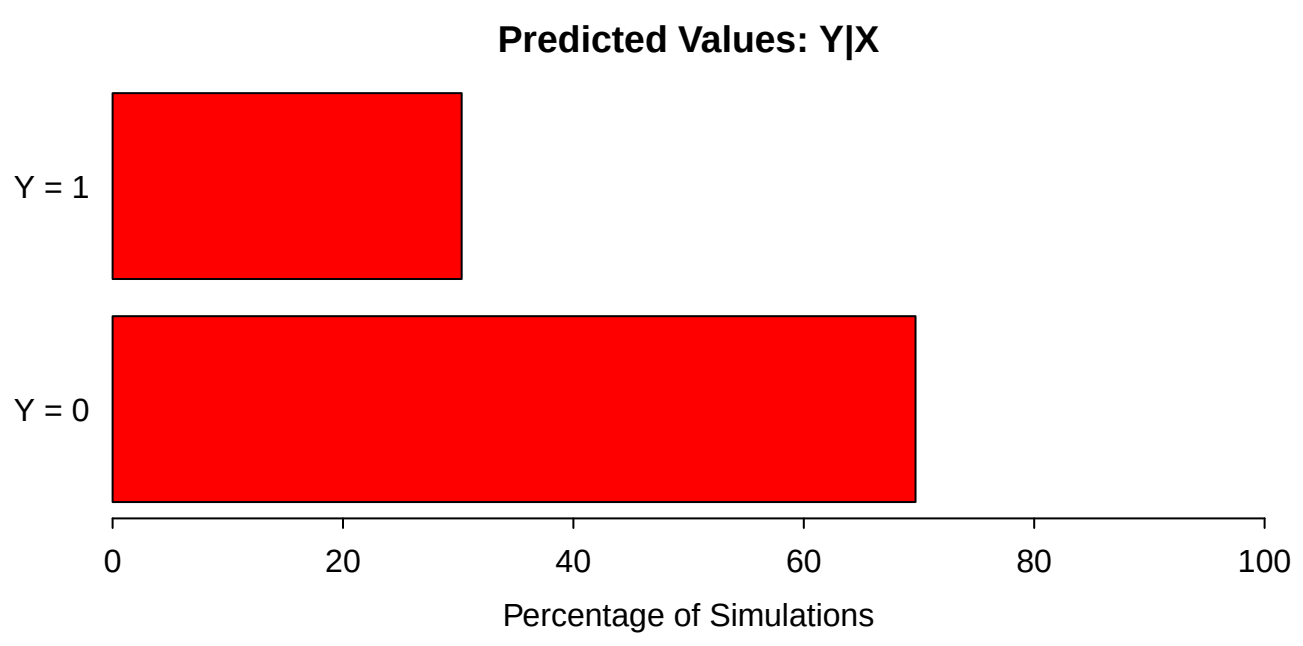

First Differences: Pr(Y1=k,Y2=l|X1) − Pr(Y1=k,Y2=l|X)
Pr(Y2 = 1)
0.3
0.5
0.7
0.9
5
10
15
20
25
30
35
0.4
0.5
0.6
0.7
0.8
0.9
1.0
Pr(Y1 = 1)

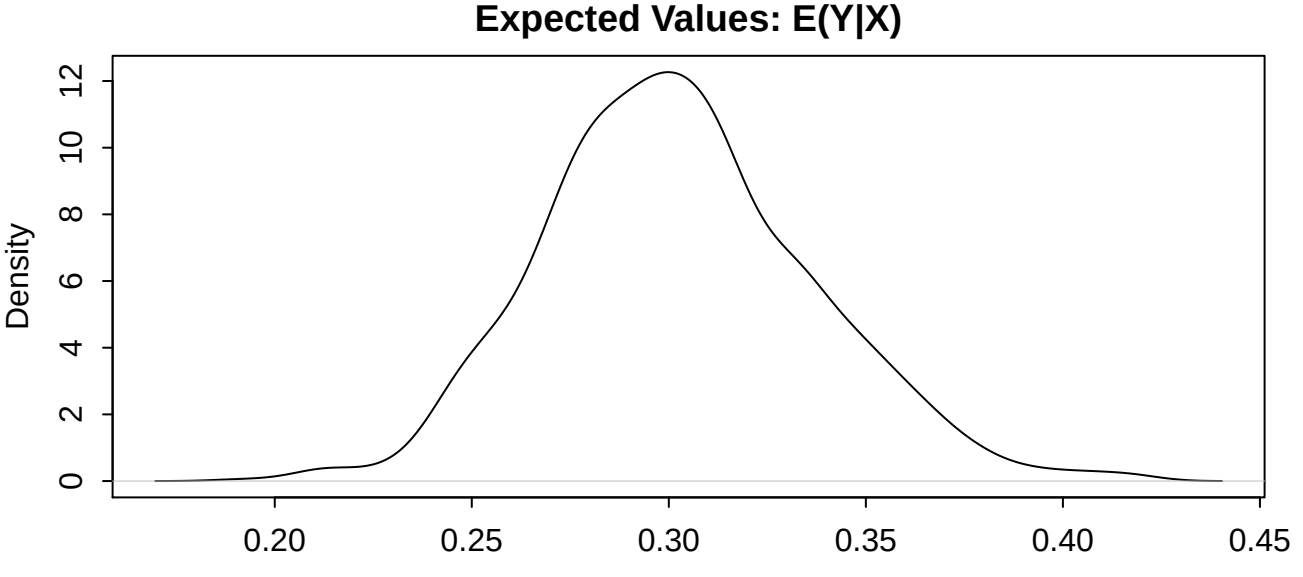

Predicted Probabilities: Pr(Y1=k,Y2=l|X)
Pr(Y2 = 1)
0.4
0.5
0.6
0.7
0.8
5
10
15
20
25
30
35
0.2
0.3
0.4
0.5
Pr(Y1 = 1)

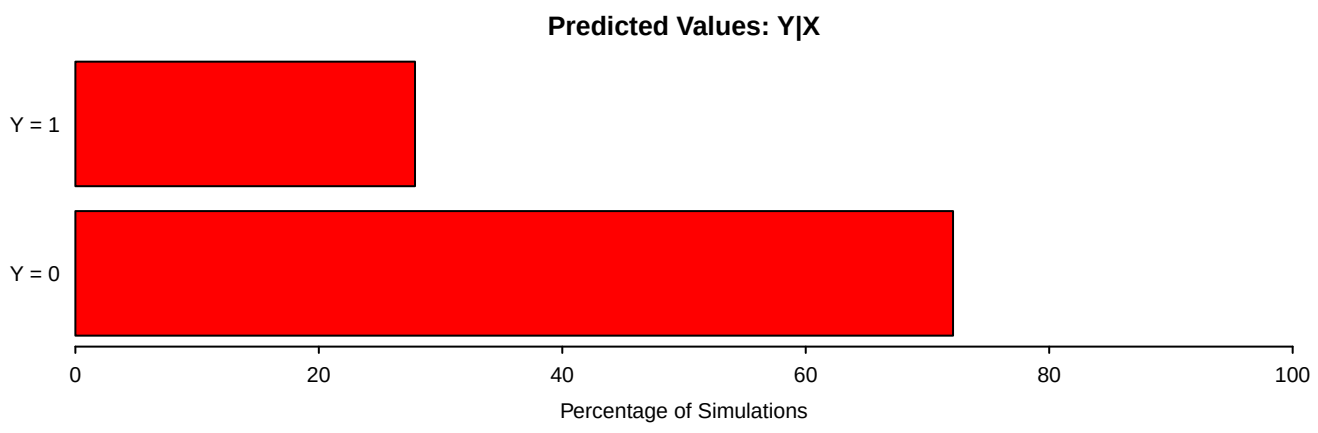

Predicted Values: (Y1,Y2)|X
(1,1)
(1,0)
(0,1)
(0,0)
0
10
20
30
40
Percentage of Simulations

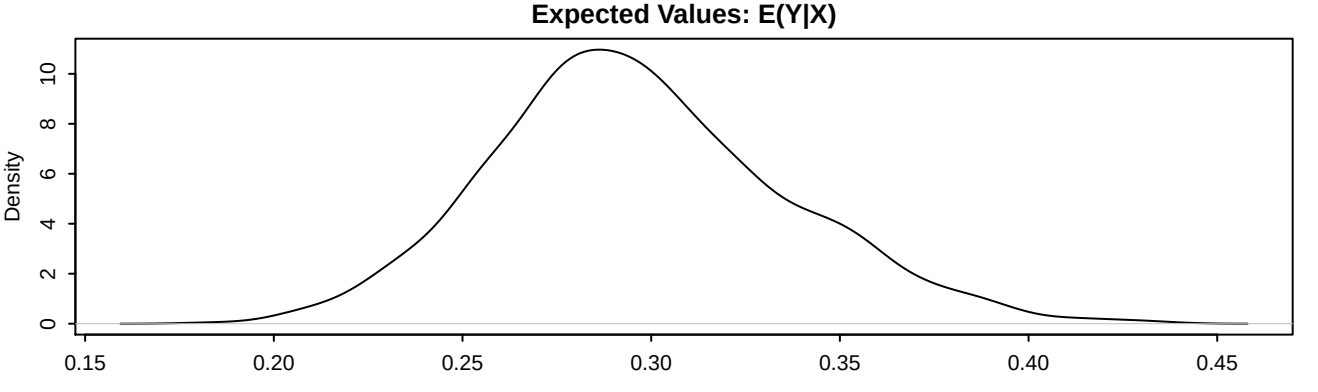

Predicted Values: Y|X
Y = 1
Y = 0
0
20
40
60
80
100
Percentage of Simulations

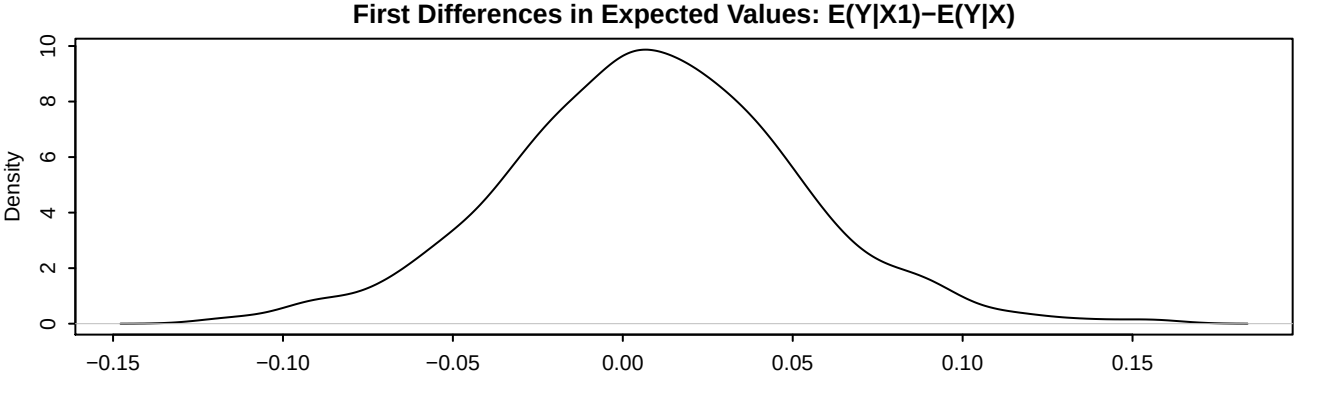

Expected Values: E(Y|X)
Density
0
2
4
6
8
10
12
0.20
0.25
0.30
0.35
0.40
0.45

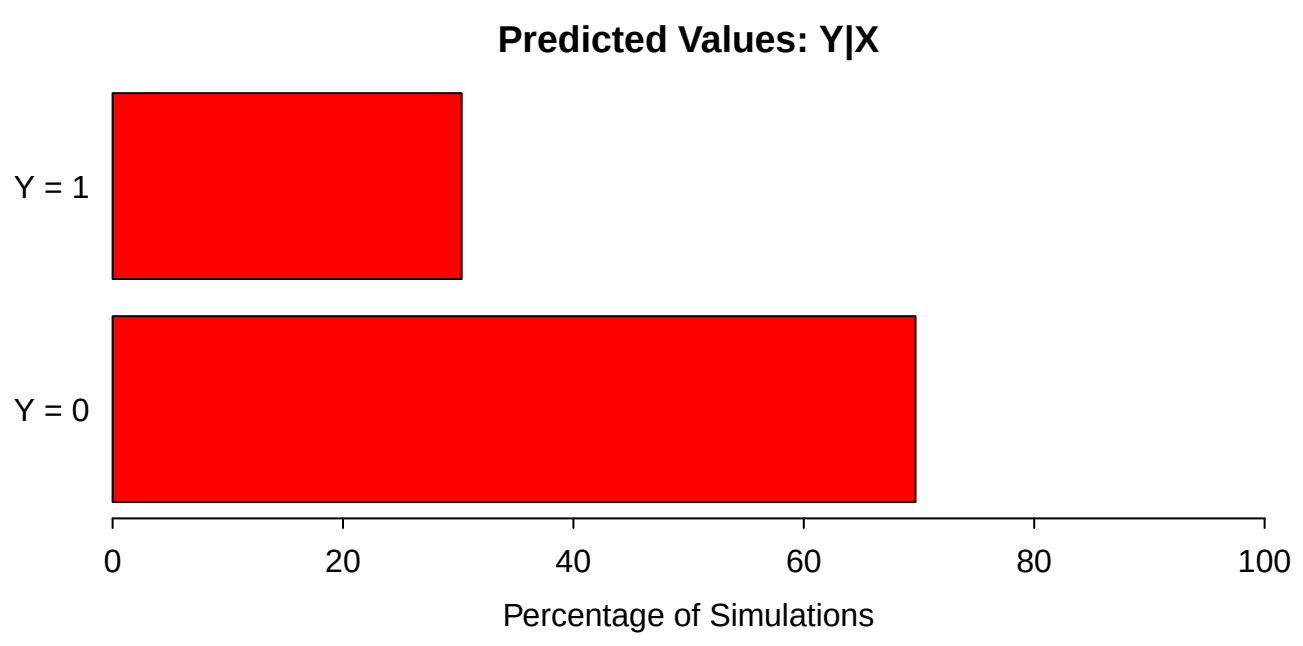

Predicted Values: Y|X
Y = 1
Y = 0
0
20
40
60
80
100
Percentage of Simulations

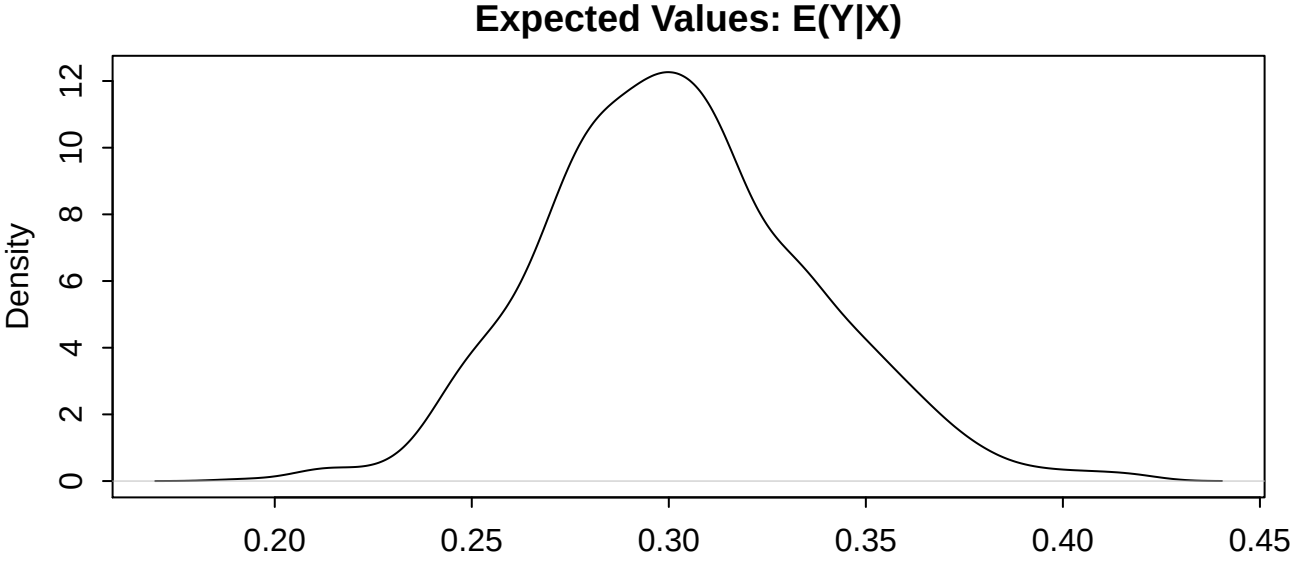

Expected Values: E(Y|X)
Density
0
2
4
6
8
10
12
0.20
0.25
0.30
0.35
0.40
0.45

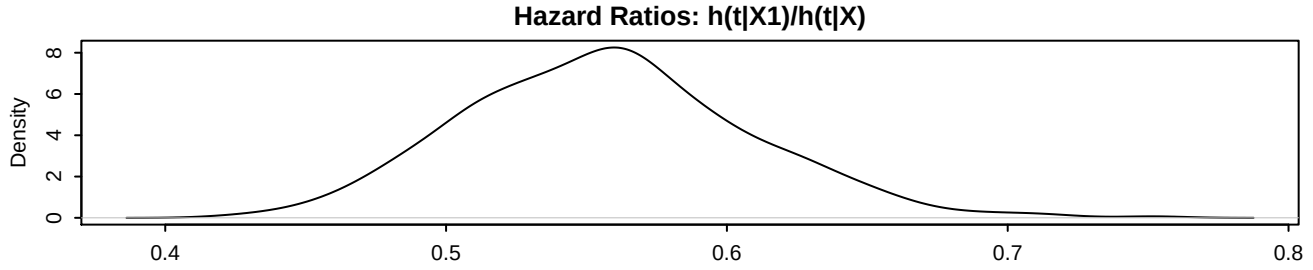

Predicted Values: Y|X
Y = 1
Y = 0
0
20
40
60
80
100
Percentage of Simulations

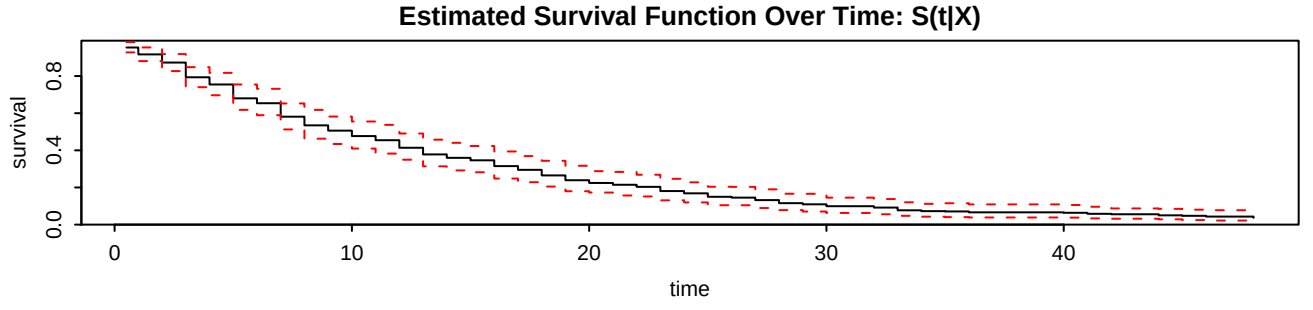

Expected Values: E(Y|X)
Density
0
2
4
6
8
10
0.15
0.20
0.25
0.30
0.35
0.40
0.45

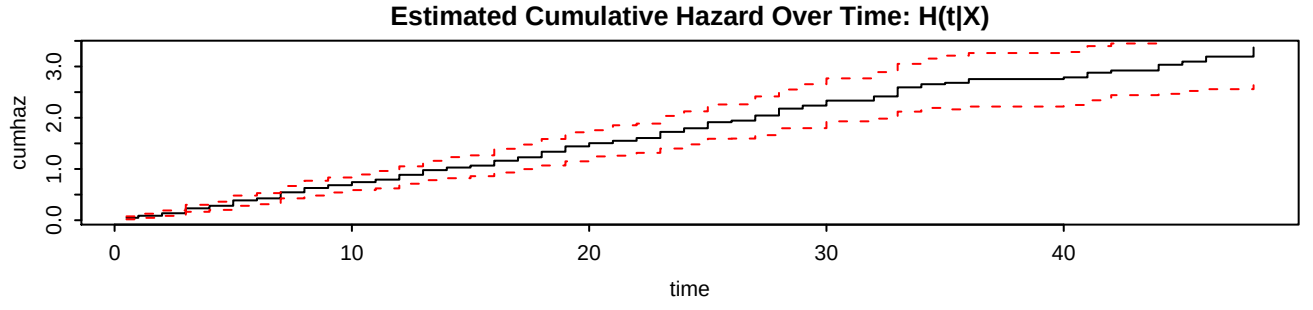

First Differences in Expected Values: E(Y|X1)−E(Y|X)
Density
0
2
4
6
8
10
−0.15
−0.10
−0.05
0.00
0.05
0.10
0.15

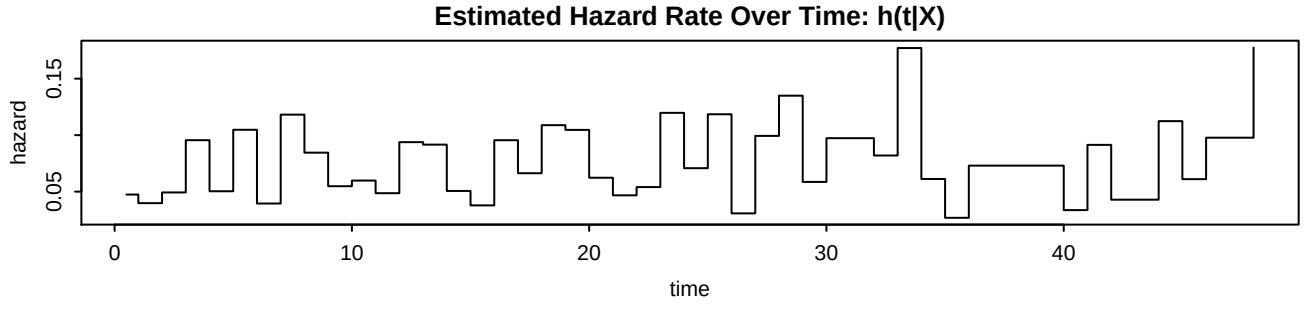

Predicted Values: Y|X
Y = 1
Y = 0
0
20
40
60
80
100
Percentage of Simulations

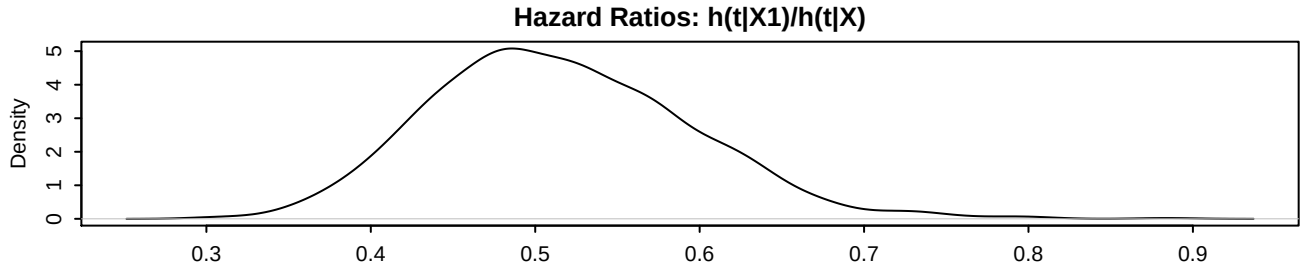

Expected Values: E(Y|X)
Density
0
2
4
6
8
10
12
0.20
0.25
0.30
0.35
0.40
0.45

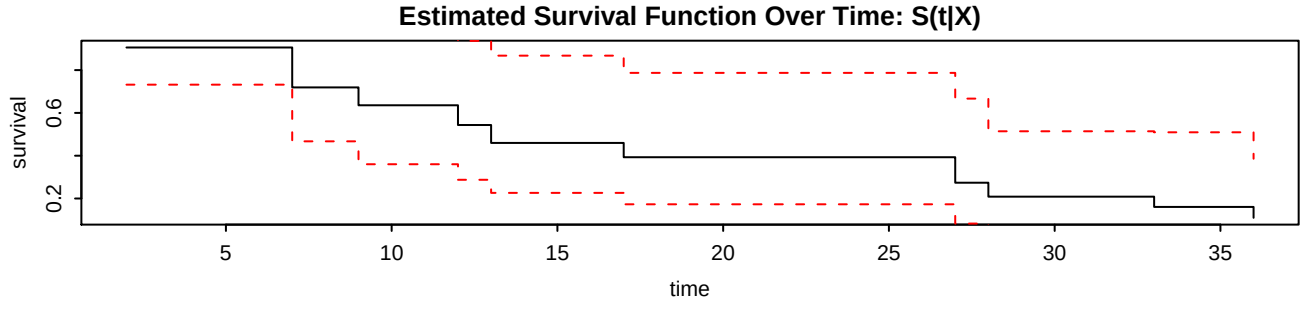

Hazard Ratios: h(t|X1)/h(t|X)
Density
0
2
4
6
8
0.4
0.5
0.6
0.7
0.8

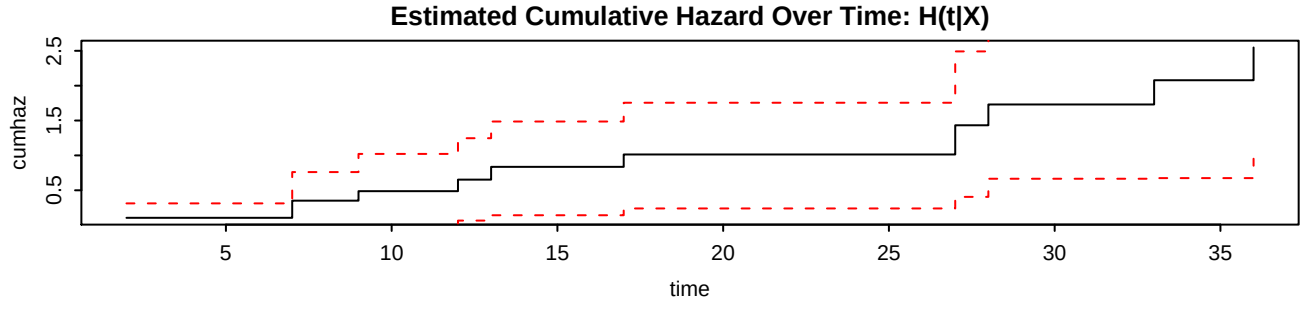

Estimated Survival Function Over Time: S(t|X)
survival
0.0
0.4
0.8
0
10
20
30
40
time

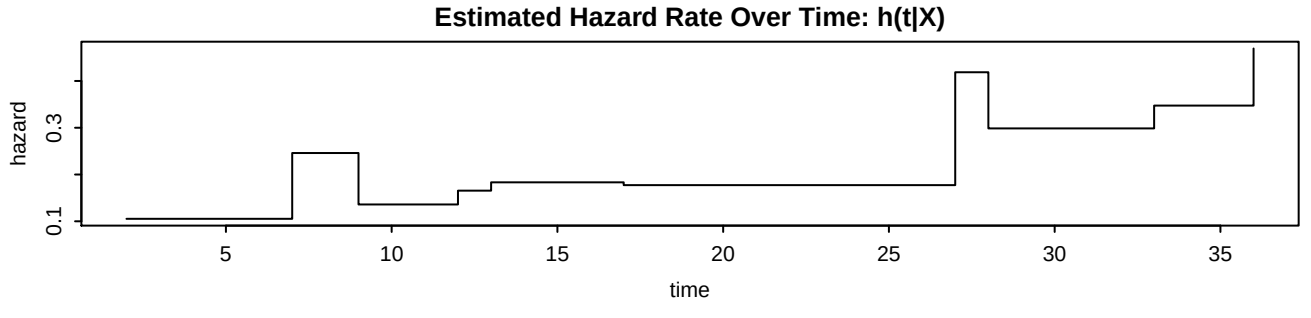

Estimated Cumulative Hazard Over Time: H(t|X)
cumhaz
0.0
1.0
2.0
3.0
0
10
20
30
40
time

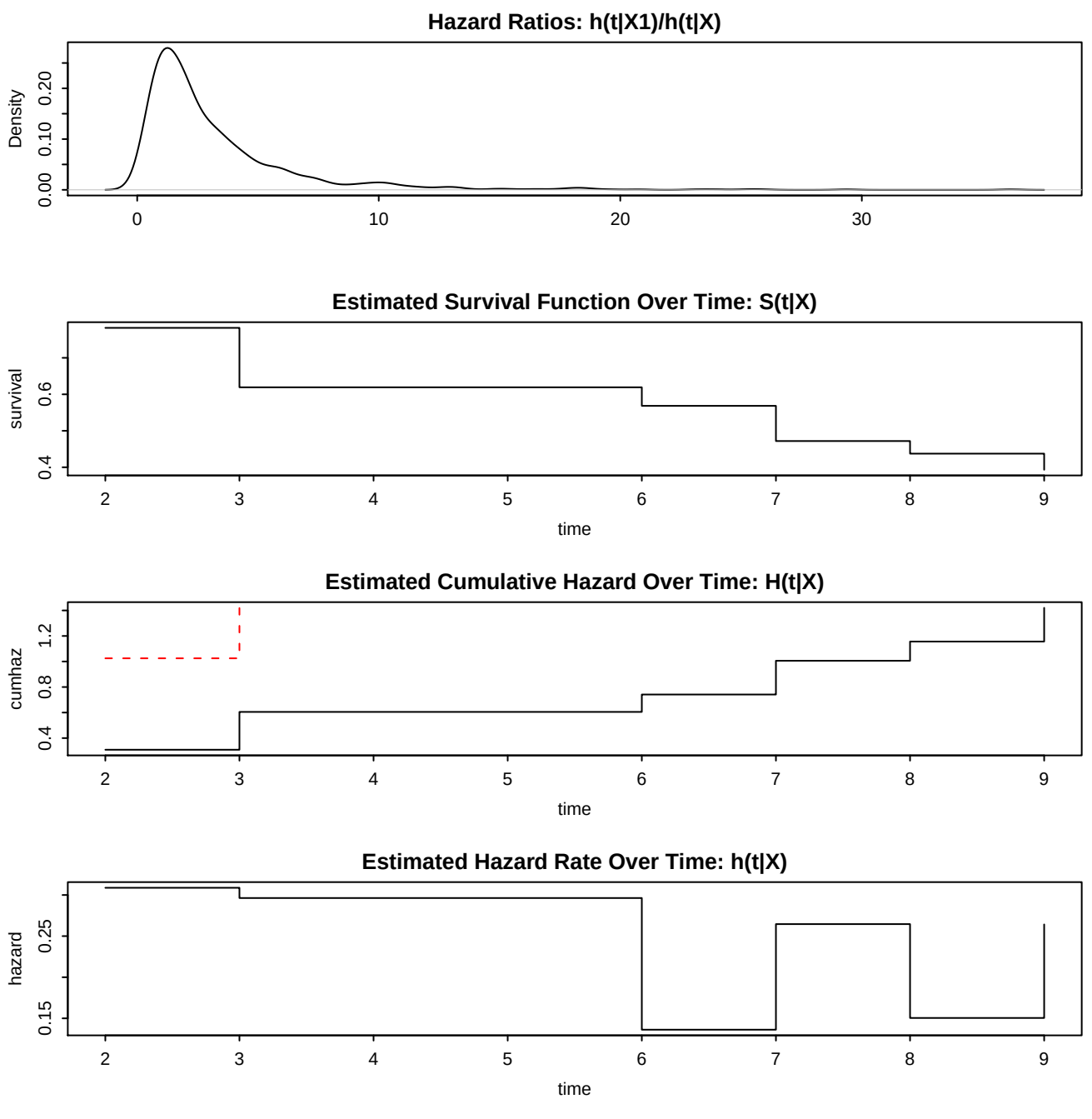

Estimated Hazard Rate Over Time: h(t|X)
hazard
0.05
0.15
0
10
20
30
40
time

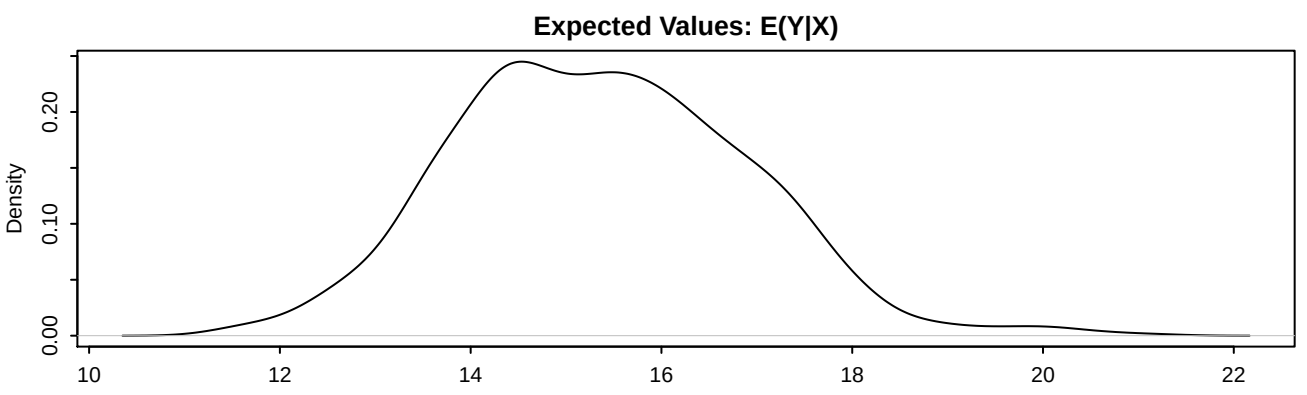

Hazard Ratios: h(t|X1)/h(t|X)
Density
0
1
2
3
4
5
0.3
0.4
0.5
0.6
0.7
0.8
0.9

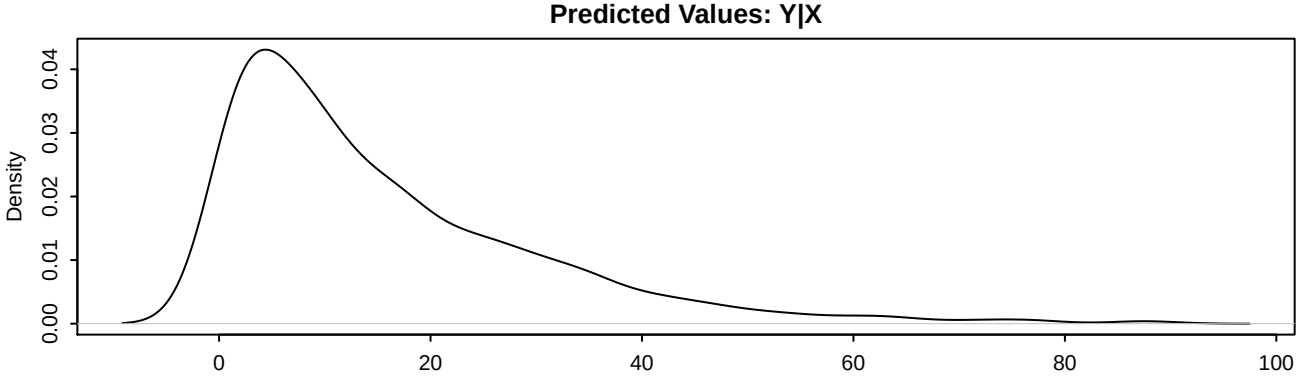

Estimated Survival Function Over Time: S(t|X)
survival
0.2
0.6
5
10
15
20
25
30
35
time

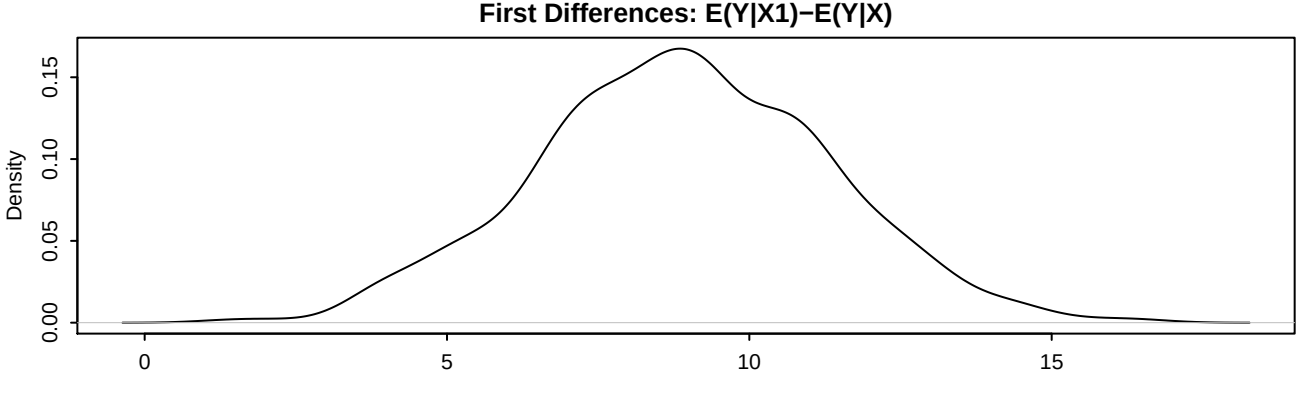

Estimated Cumulative Hazard Over Time: H(t|X)
cumhaz
0.5
1.5
2.5
5
10
15
20
25
30
35
time

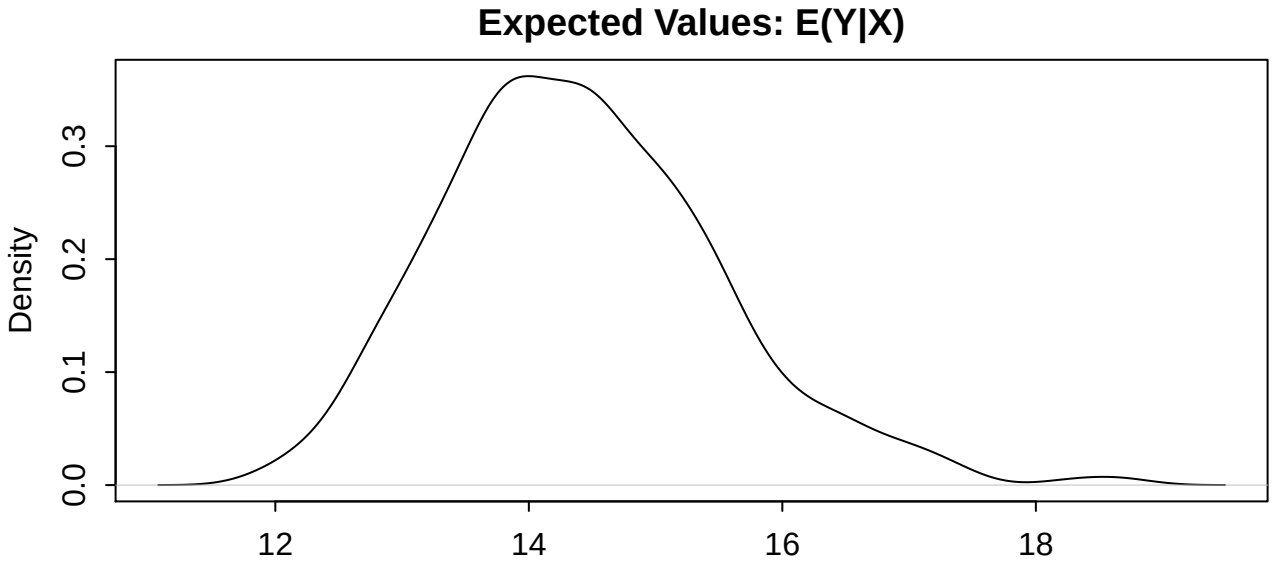

Estimated Hazard Rate Over Time: h(t|X)
hazard
0.1
0.3
5
10
15
20
25
30
35
time

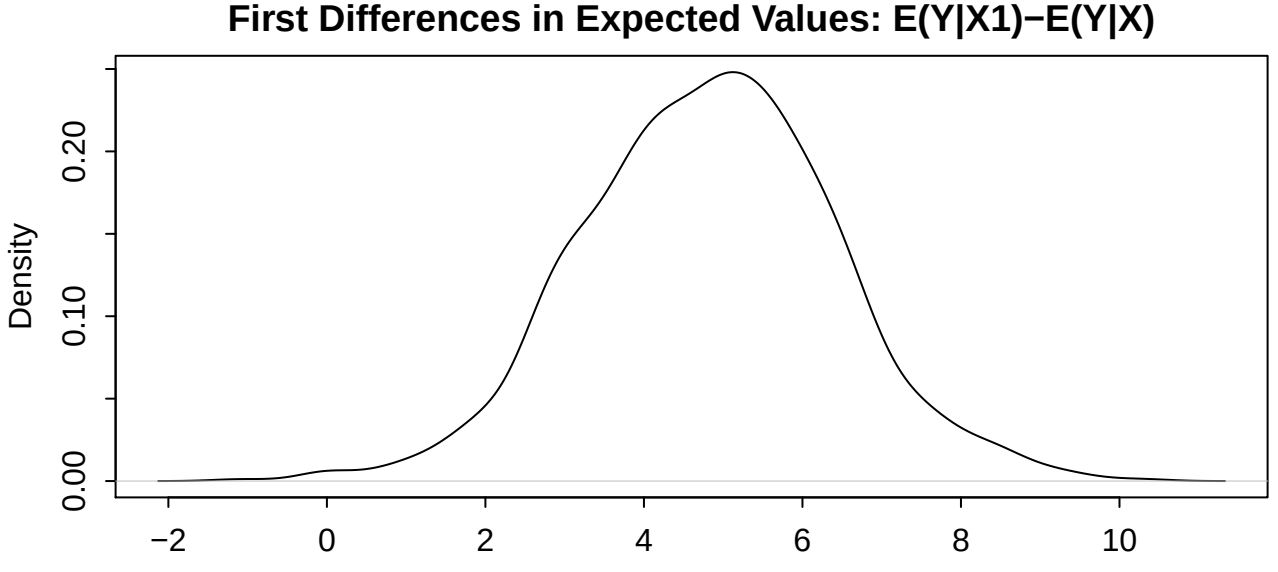

Hazard Ratios: h(t|X1)/h(t|X)
Density
0.00
0.10
0.20
0
10
20
30
Estimated Survival Function Over Time: S(t|X)
survival
0.4
0.6
2
3
4
5
6
7
8
9
time
Estimated Cumulative Hazard Over Time: H(t|X)
cumhaz
0.4
0.8
1.2
2
3
4
5
6
7
8
9
time
Estimated Hazard Rate Over Time: h(t|X)
hazard
0.15
0.25
2
3
4
5
6
7
8
9
time

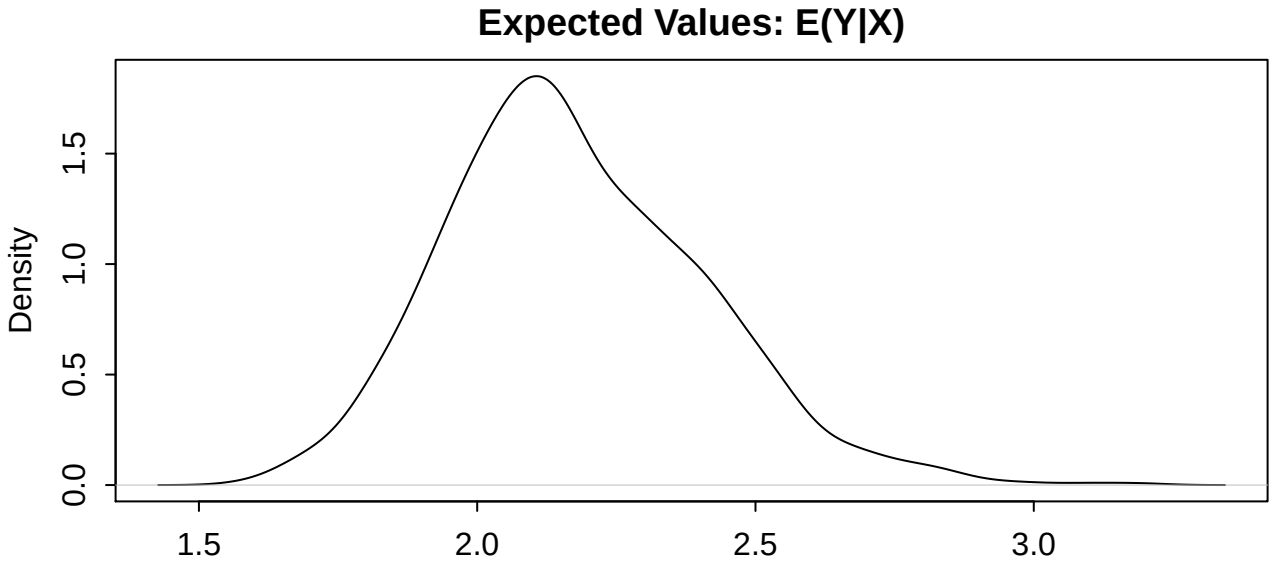

Expected Values: E(Y|X)
Density
0.00
0.10
0.20
10
12
14
16
18
20
22

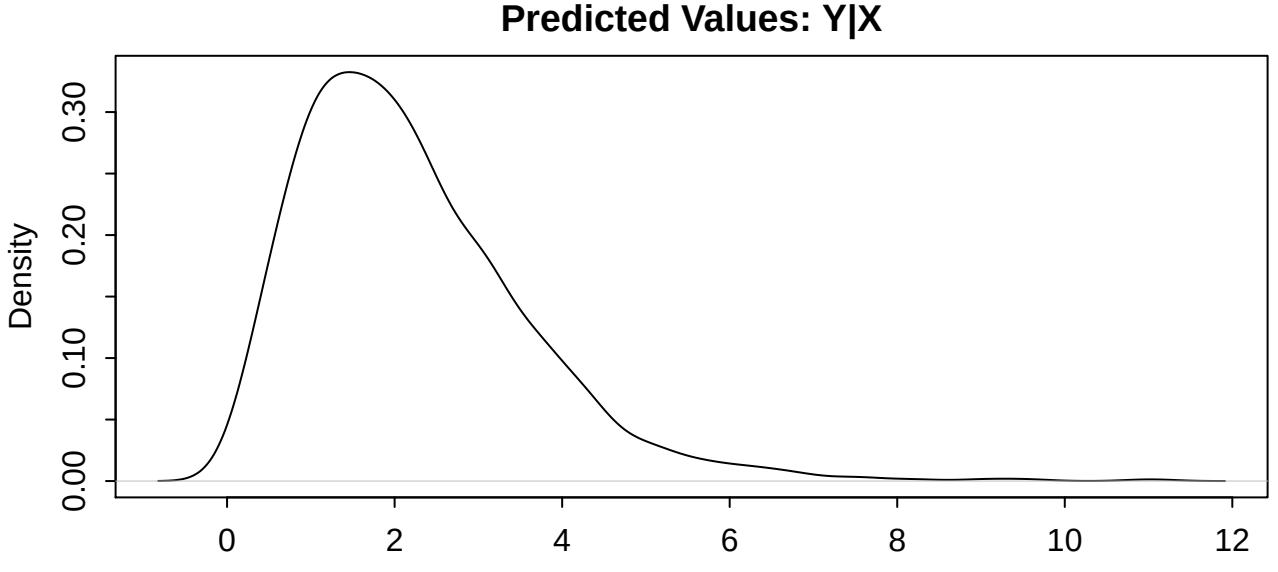

Predicted Values: Y|X
Density
0.00
0.01
0.02
0.03
0.04
0
20
40
60
80
100

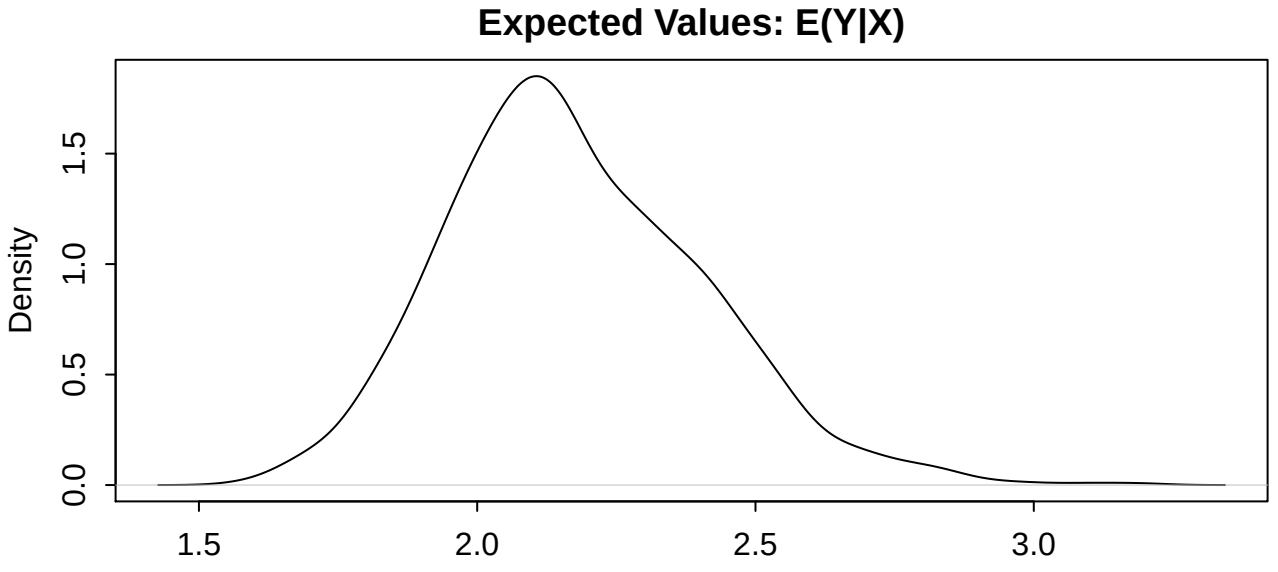

First Differences: E(Y|X1)−E(Y|X)
Density
0.00
0.05
0.10
0.15
0
5
10
15

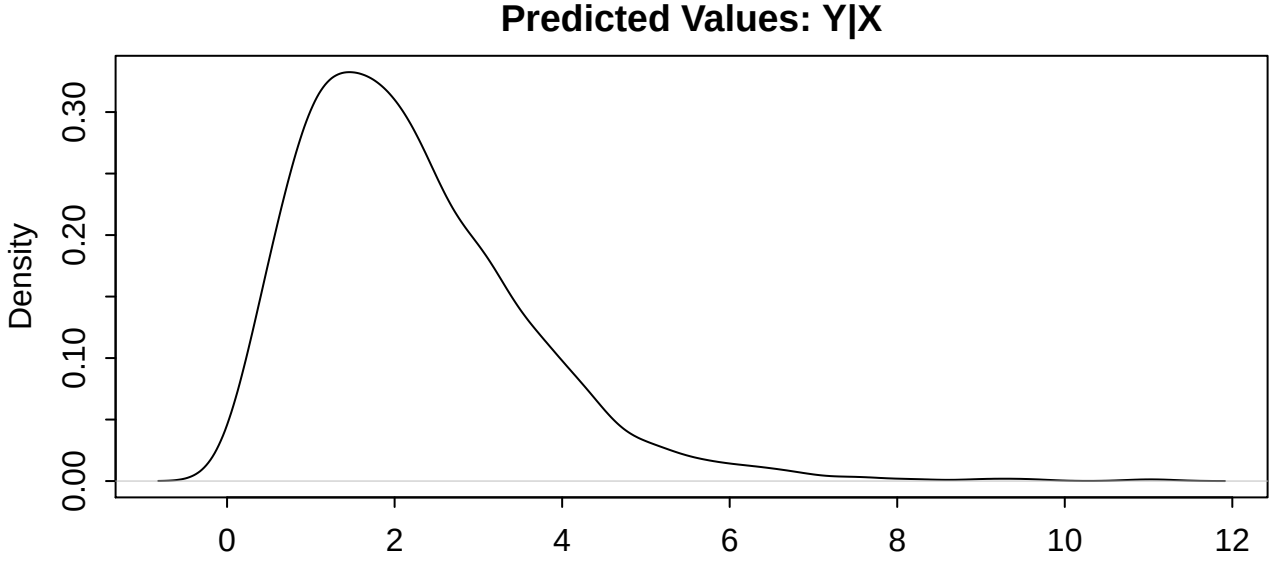

Expected Values: E(Y|X)
Density
0.0
0.1
0.2
0.3
12
14
16
18

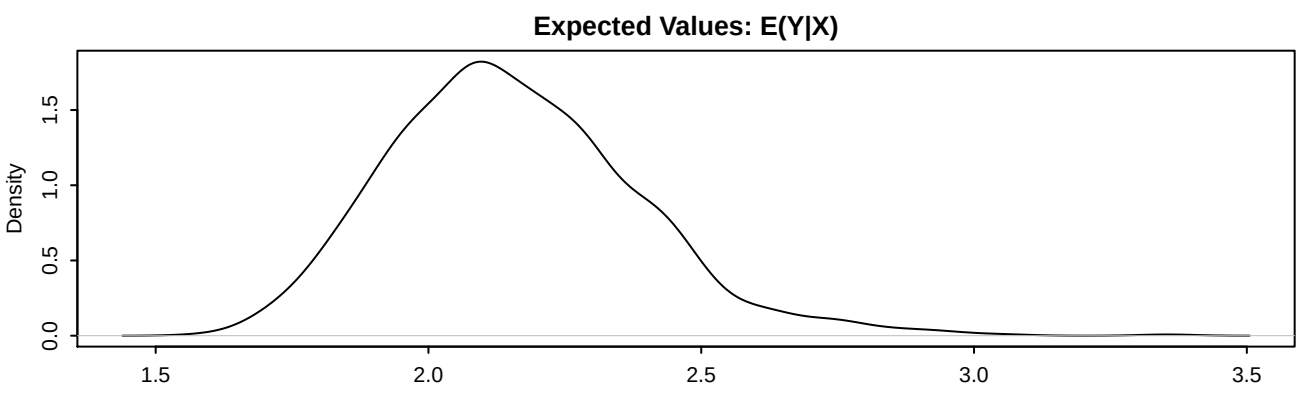

First Differences in Expected Values: E(Y|X1)−E(Y|X)
Density
0.00
0.10
0.20
−2
0
2
4
6
8
10

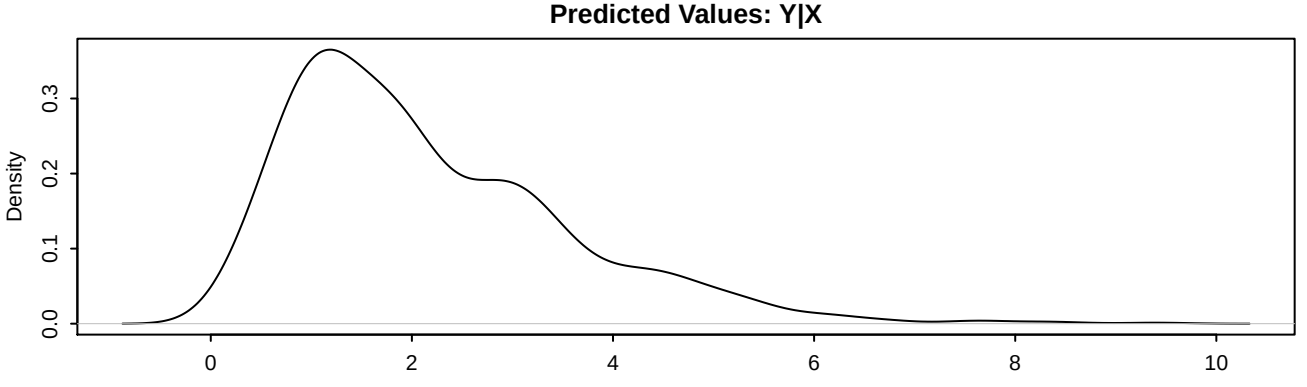

Expected Values: E(Y|X)
Density
0.0
0.5
1.0
1.5
1.5
2.0
2.5
3.0

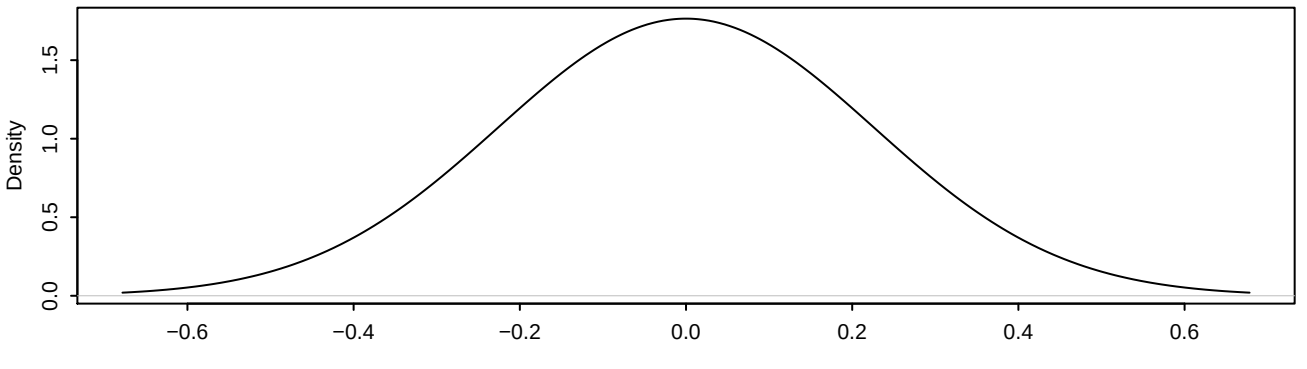

Predicted Values: Y|X
Density
0.00
0.10
0.20
0.30
0
2
4
6
8
10
12

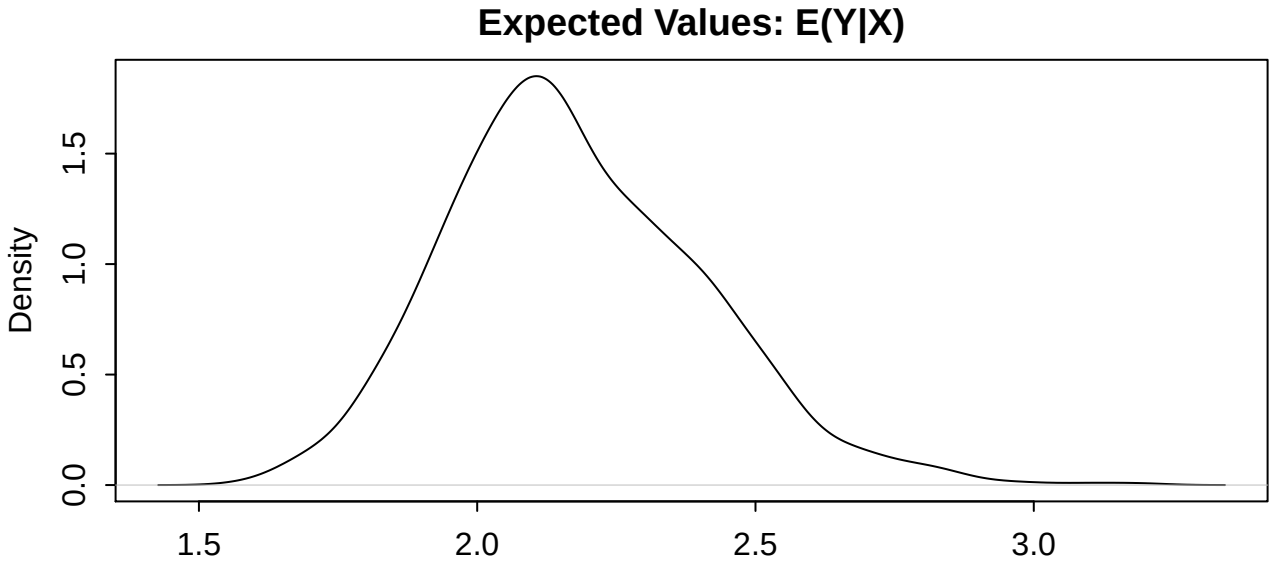

Expected Values: E(Y|X)
Density
0.0
0.5
1.0
1.5
1.5
2.0
2.5
3.0

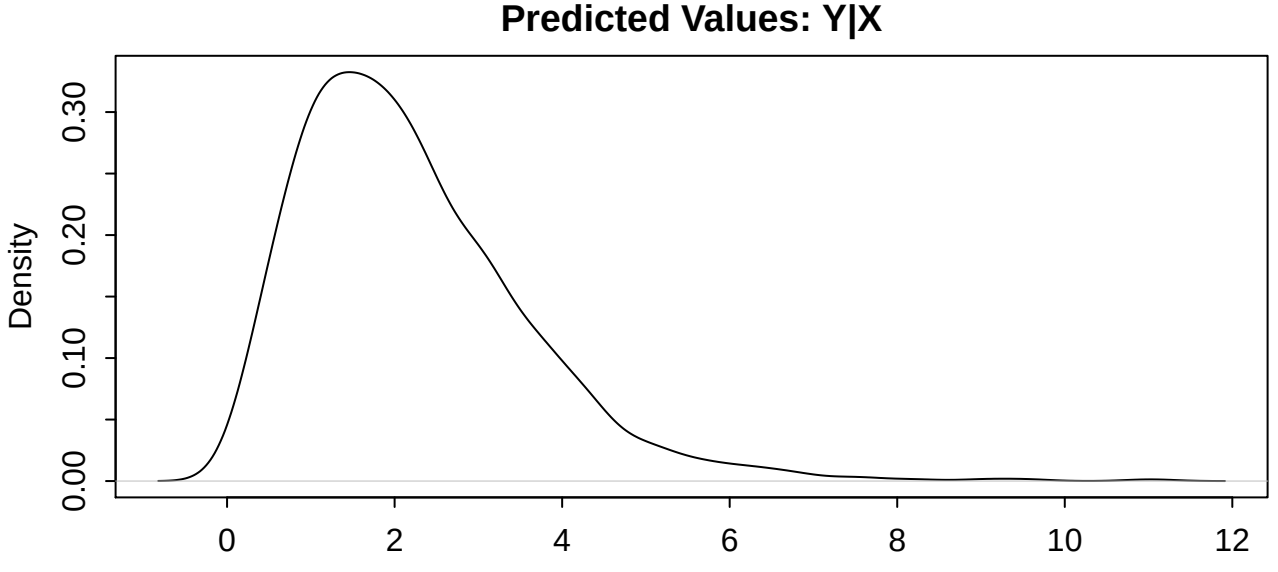

Predicted Values: Y|X
Density
0.00
0.10
0.20
0.30
0
2
4
6
8
10
12

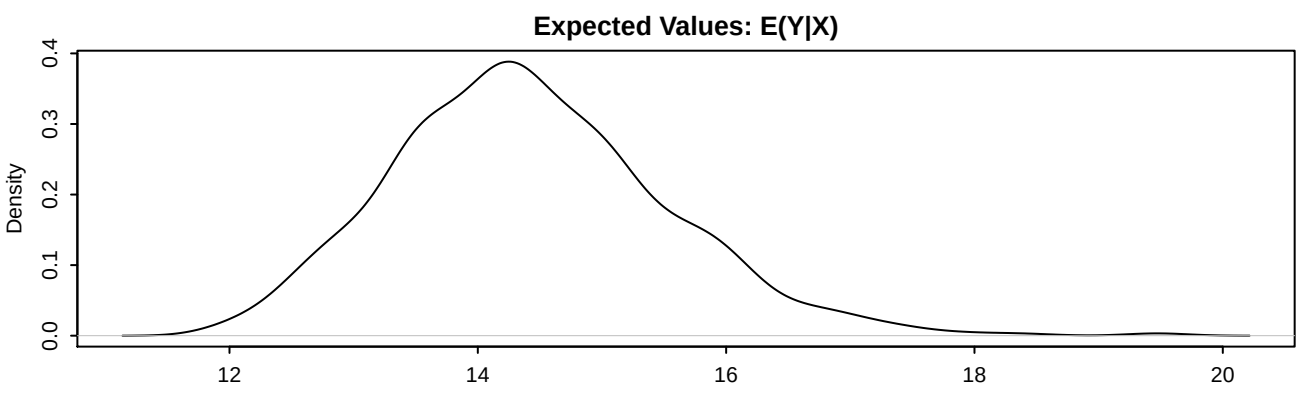

Expected Values: E(Y|X)
Density
0.0
0.5
1.0
1.5
1.5
2.0
2.5
3.0
3.5

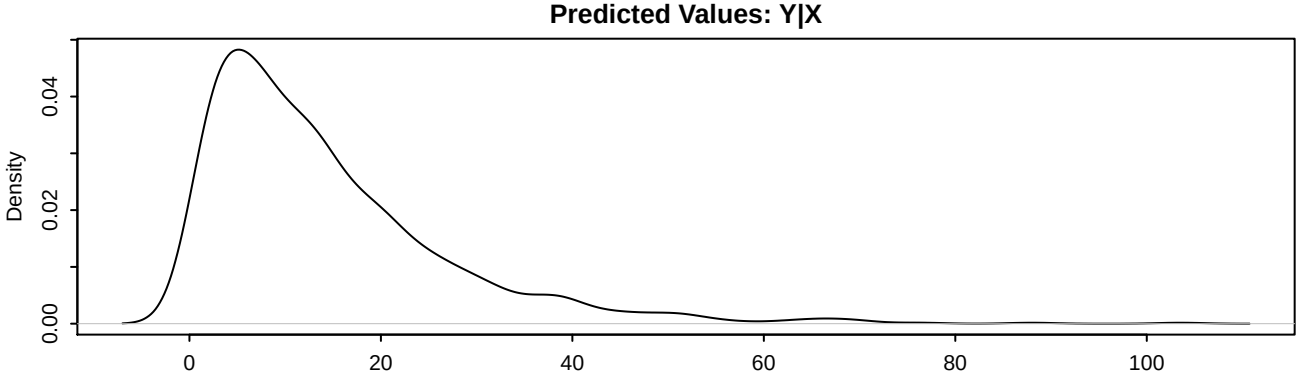

Predicted Values: Y|X
Density
0.0
0.1
0.2
0.3
0
2
4
6
8
10

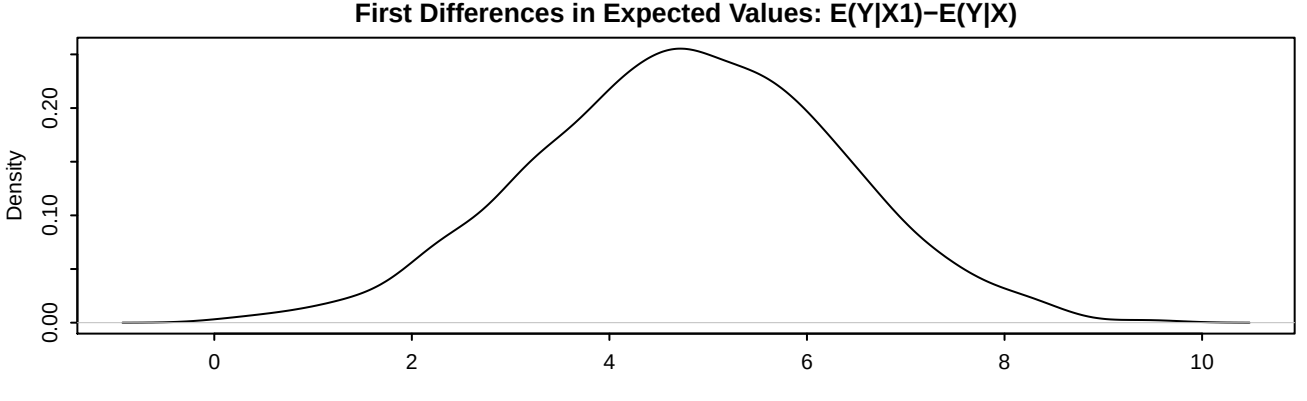

First Differences in Expected Values: E(Y|X1)−E(Y|X)
Density
0.0
0.5
1.0
1.5
−0.6
−0.4
−0.2
0.0
0.2
0.4
0.6

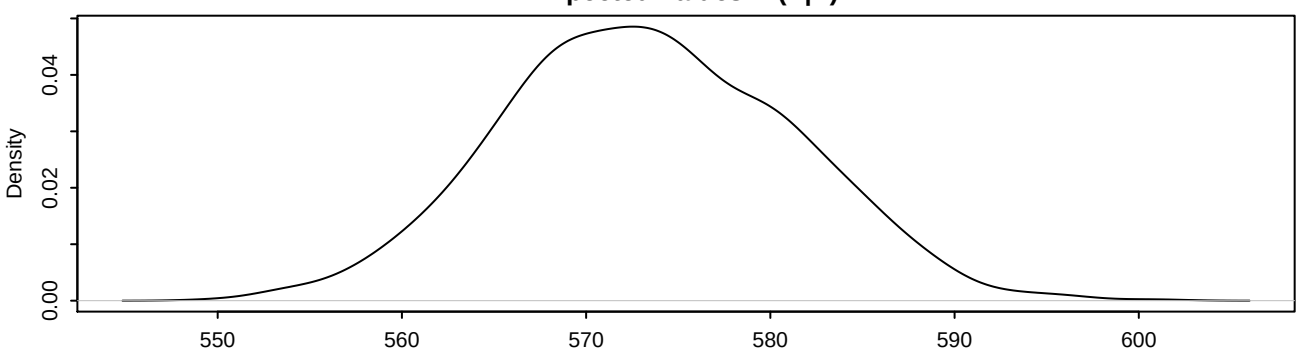

Expected Values: E(Y|X)
Density
0.0
0.5
1.0
1.5
1.5
2.0
2.5
3.0

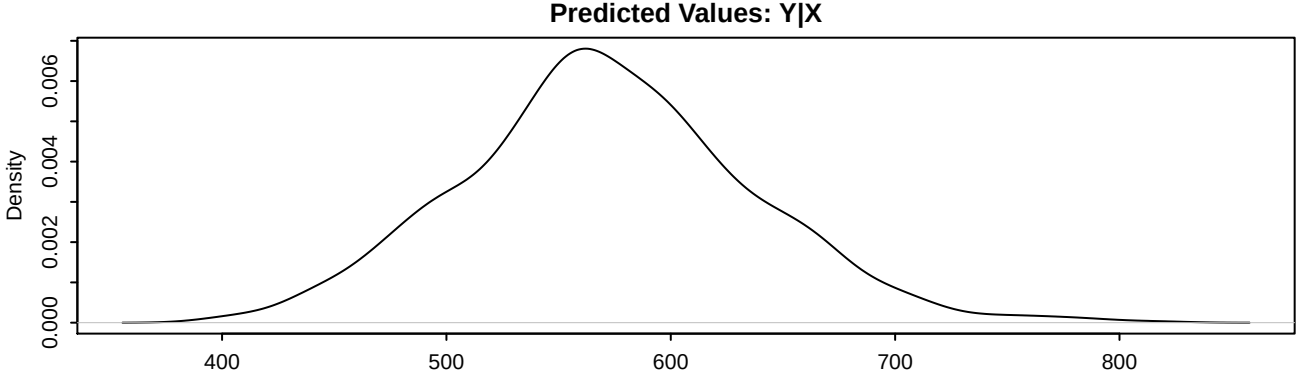

Predicted Values: Y|X
Density
0.00
0.10
0.20
0.30
0
2
4
6
8
10
12

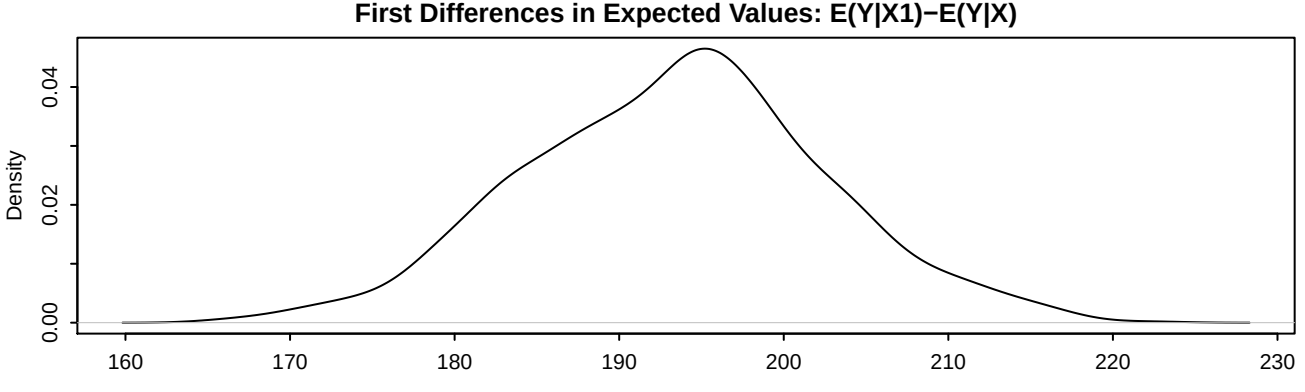

Expected Values: E(Y|X)
Density
0.0
0.1
0.2
0.3
0.4
12
14
16
18
20

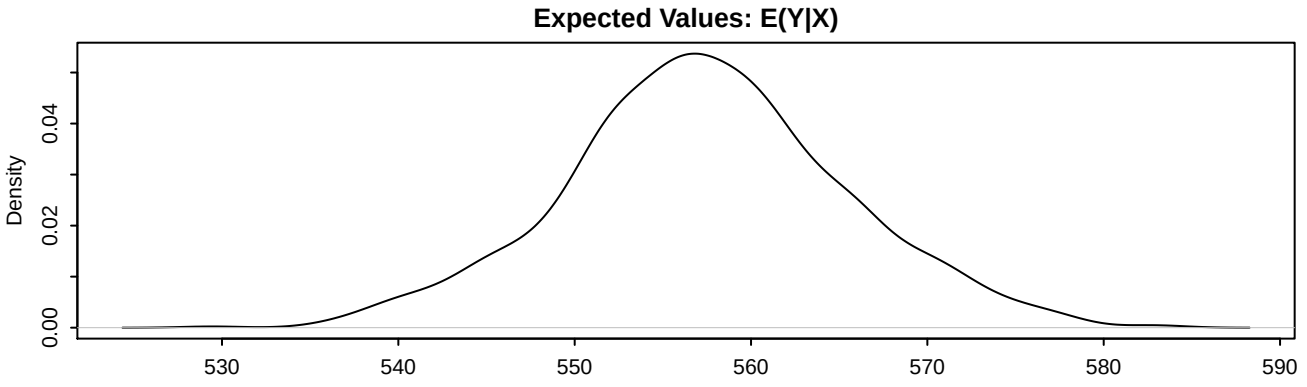

Predicted Values: Y|X
Density
0.00
0.02
0.04
0
20
40
60
80
100

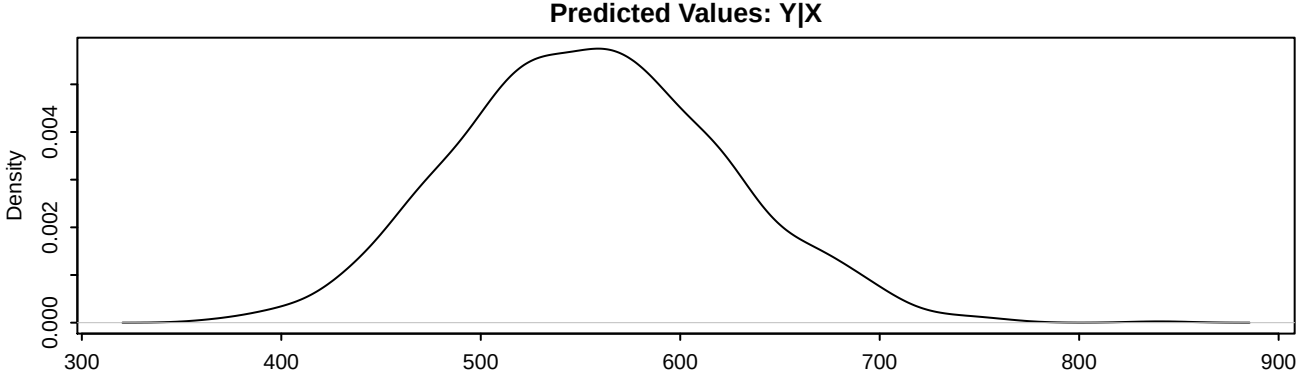

First Differences in Expected Values: E(Y|X1)−E(Y|X)
Density
0.00
0.10
0.20
0
2
4
6
8
10

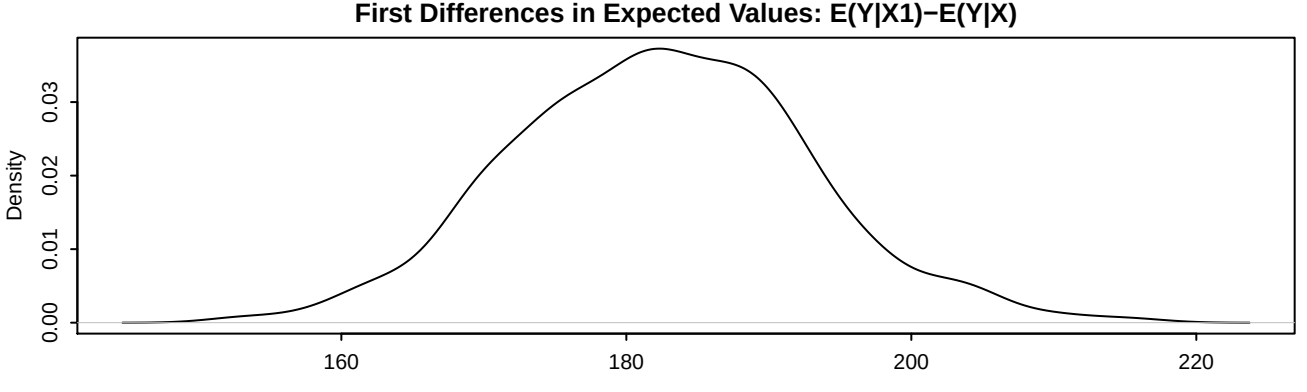

Expected Values: E(Y|X)
Density
0.00
0.02
0.04
550
560
570
580
590
600

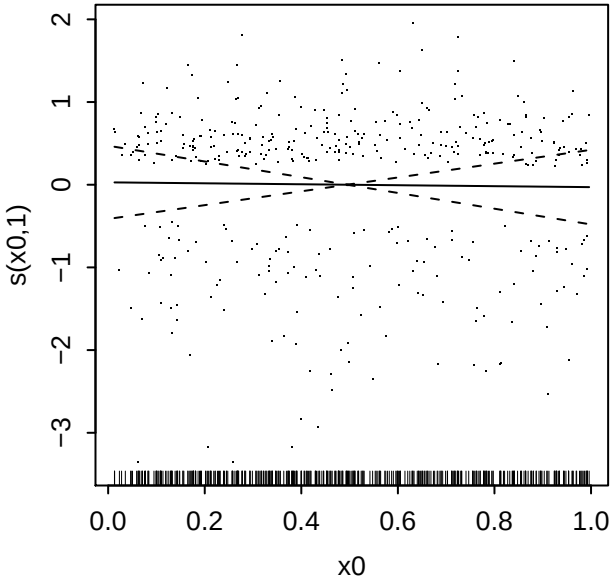

Predicted Values: Y|X
Density
0.000
0.002
0.004
0.006
400
500
600
700
800

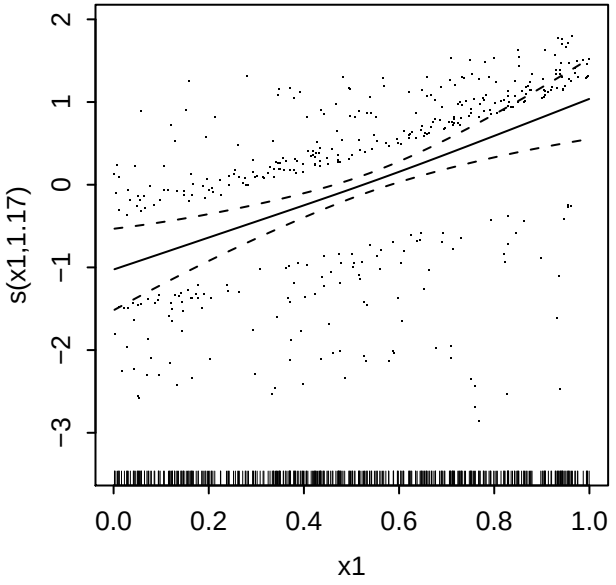

First Differences in Expected Values: E(Y|X1)−E(Y|X)
Density
0.00
0.02
0.04
160
170
180
190
200
210
220
230

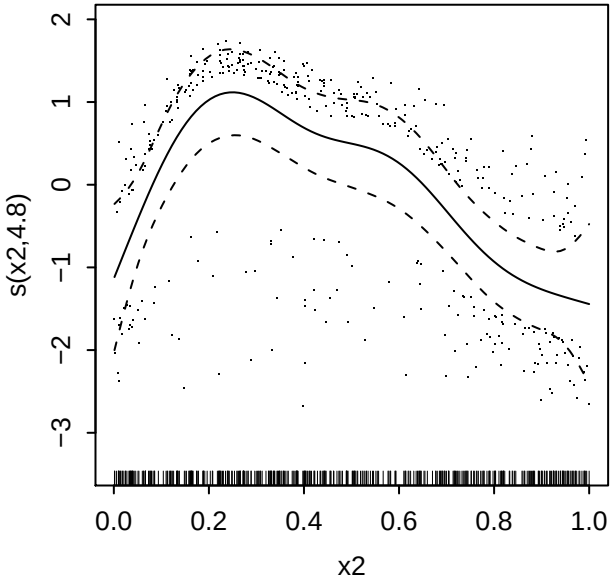

Expected Values: E(Y|X)
Density
0.00
0.02
0.04
530
540
550
560
570
580
590

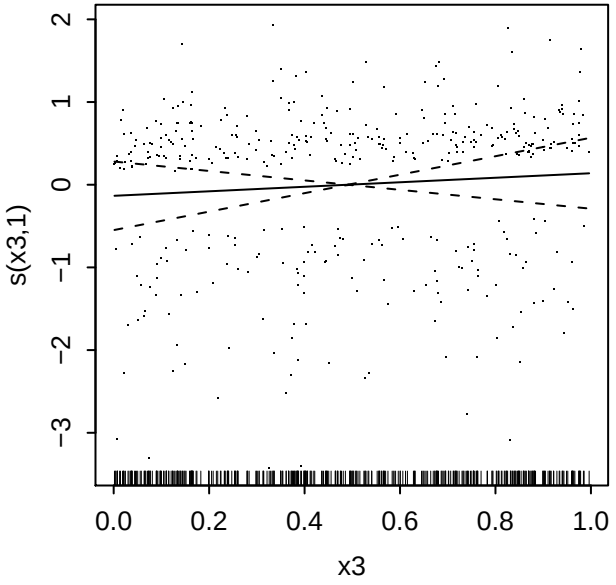

Predicted Values: Y|X
Density
0.000
0.002
0.004
300
400
500
600
700
800
900

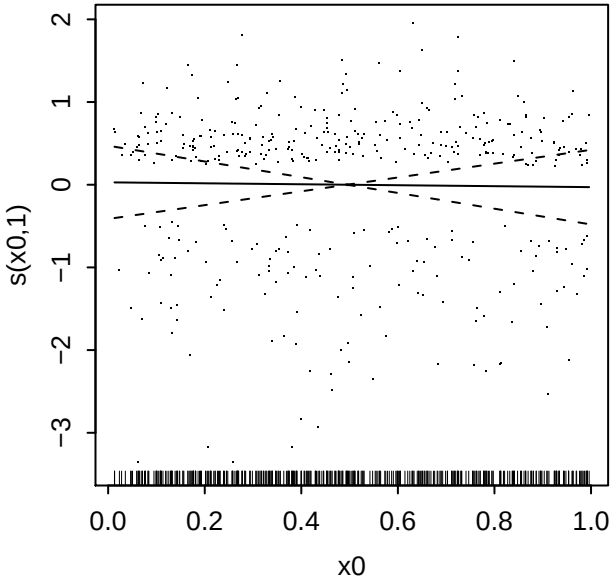

First Differences in Expected Values: E(Y|X1)−E(Y|X)
Density
0.00
0.01
0.02
0.03
160
180
200
220

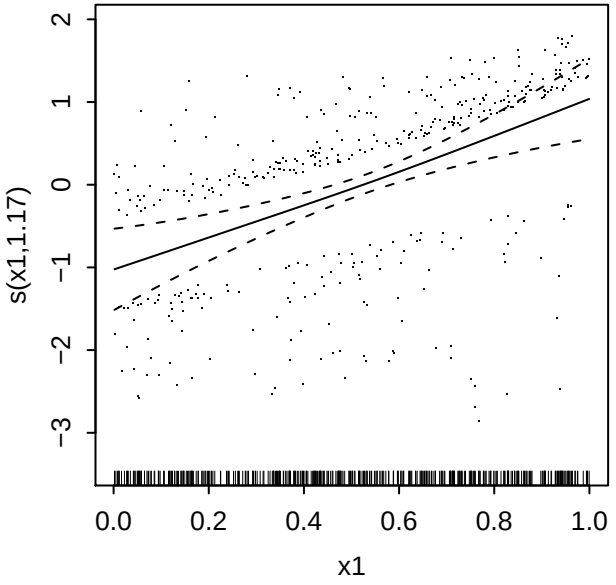

s(x0,1)
x0
2
1
0
−1
−2
−3
0.0
0.2
0.4
0.6
0.8
1.0

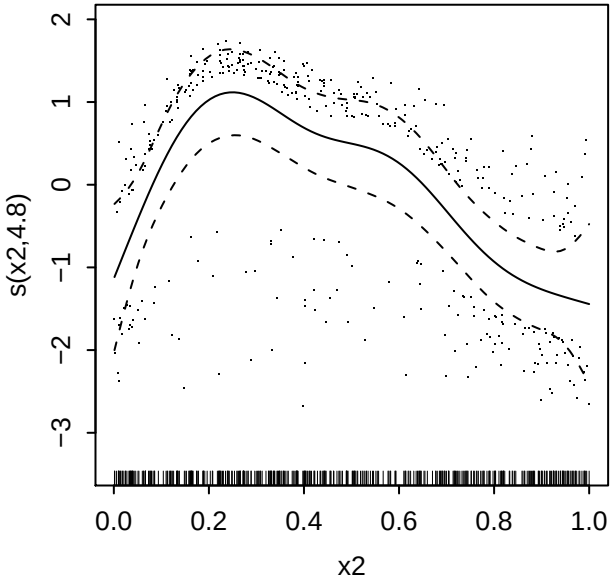

s(x1,1.17)
x1
2
1
0
−1
−2
−3
0.0
0.2
0.4
0.6
0.8
1.0

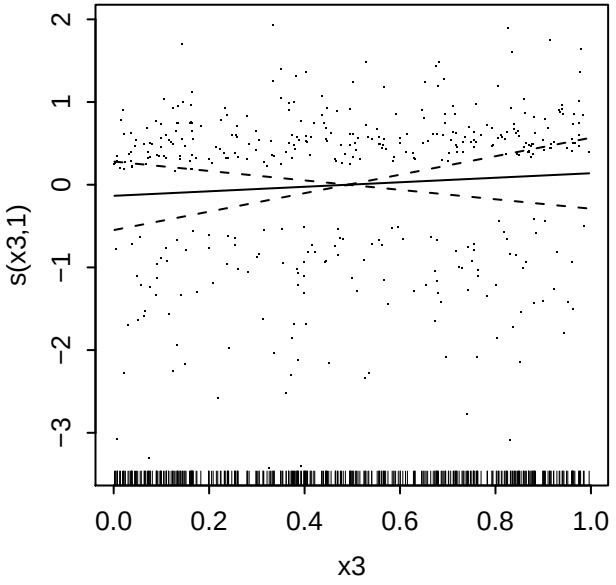

s(x2,4.8)
x2
2
1
0
−1
−2
−3
0.0
0.2
0.4
0.6
0.8
1.0

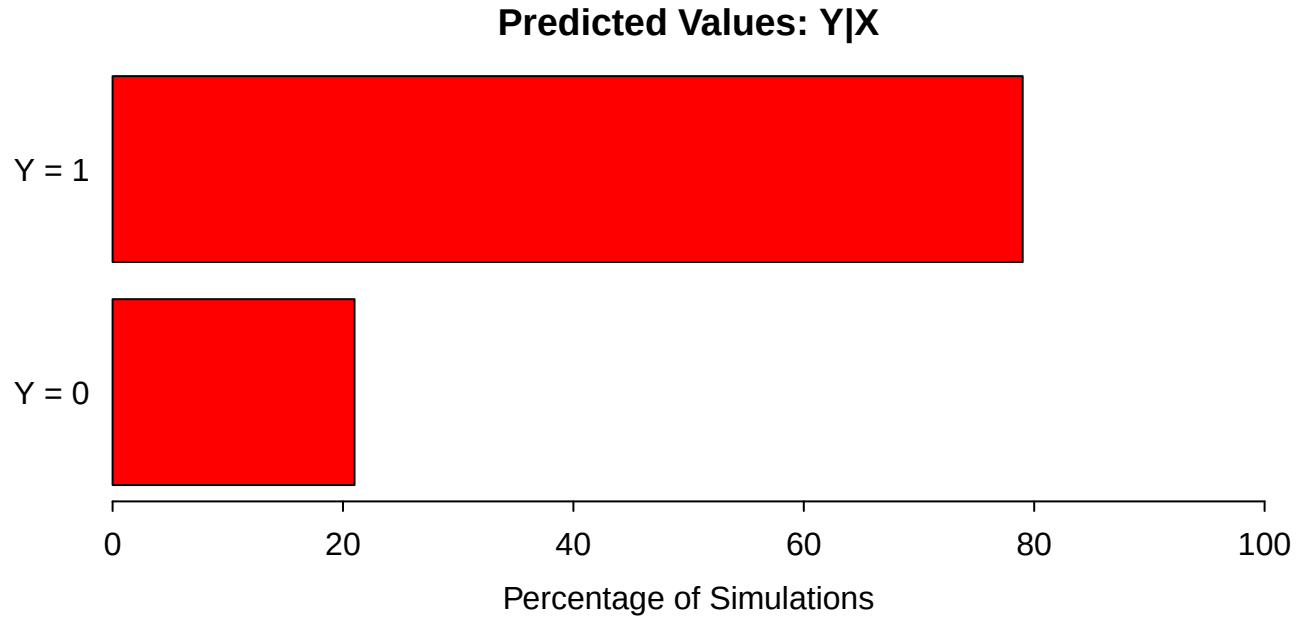

s(x3,1)
x3
2
1
0
−1
−2
−3
0.0
0.2
0.4
0.6
0.8
1.0

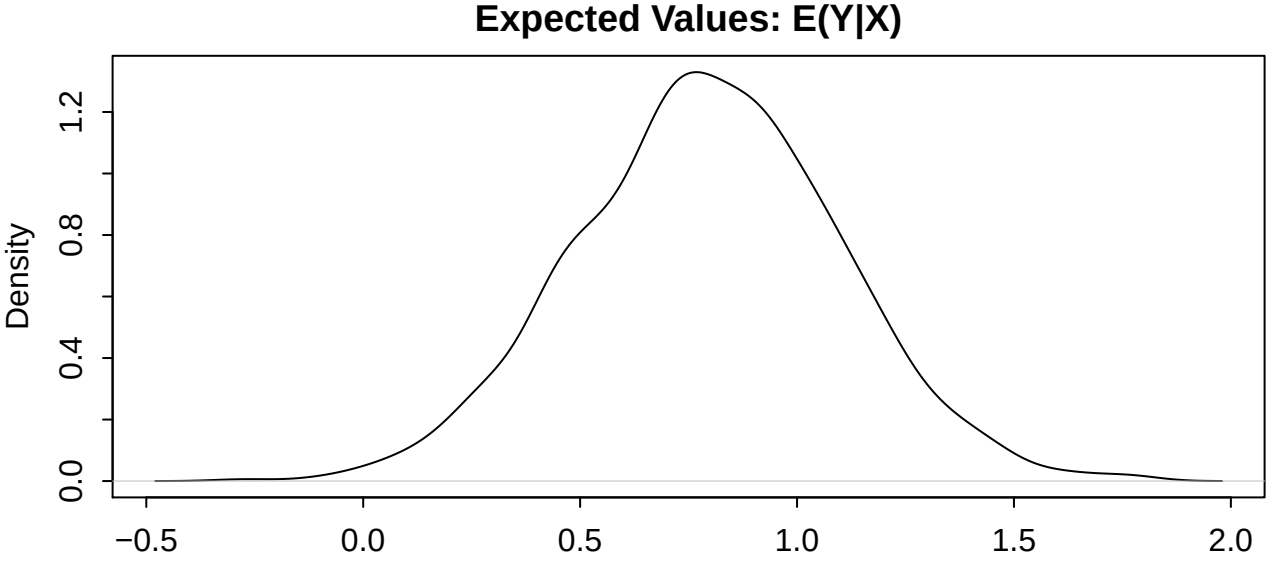

s(x0,1)
x0
2
1
0
−1
−2
−3
0.0
0.2
0.4
0.6
0.8
1.0

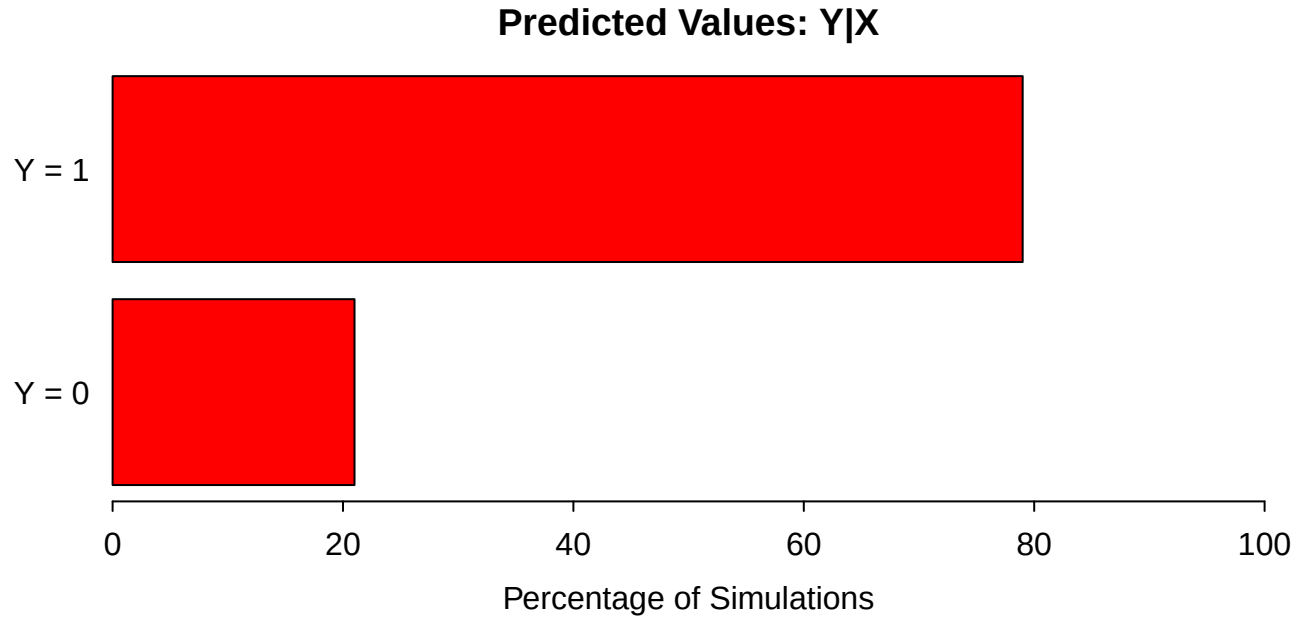

s(x1,1.17)
x1
2
1
0
−1
−2
−3
0.0
0.2
0.4
0.6
0.8
1.0

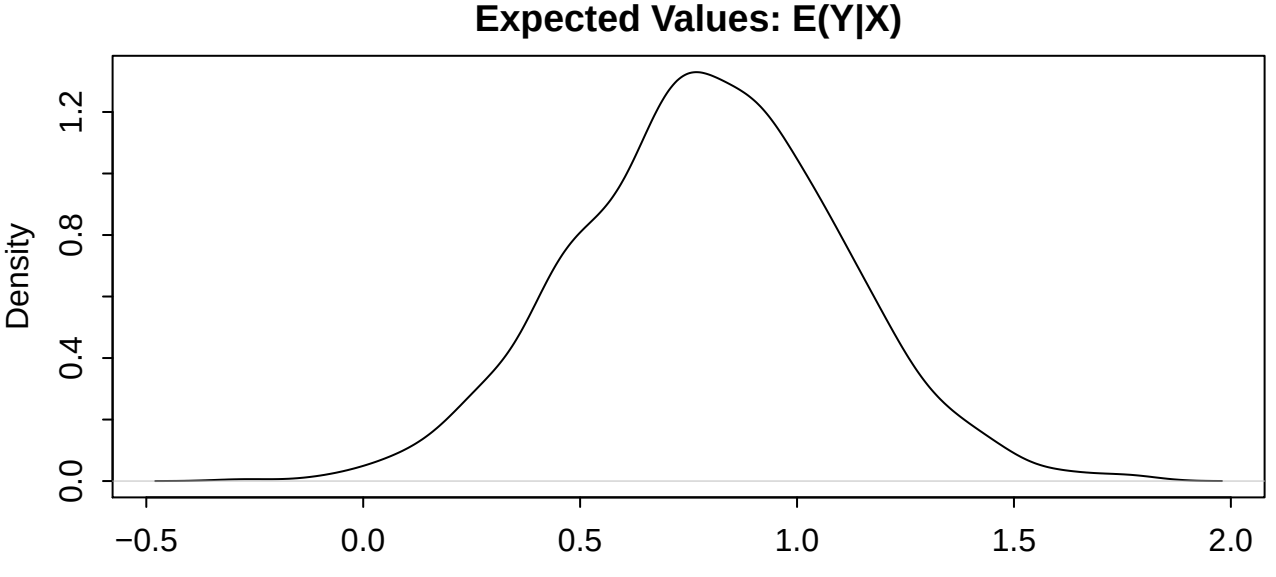

s(x2,4.8)
x2
2
1
0
−1
−2
−3
0.0
0.2
0.4
0.6
0.8
1.0

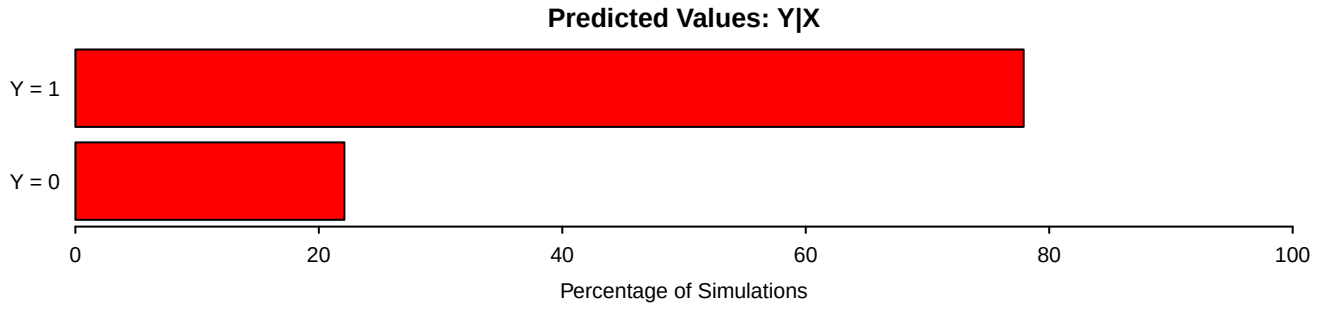

s(x3,1)
x3
2
1
0
−1
−2
−3
0.0
0.2
0.4
0.6
0.8
1.0

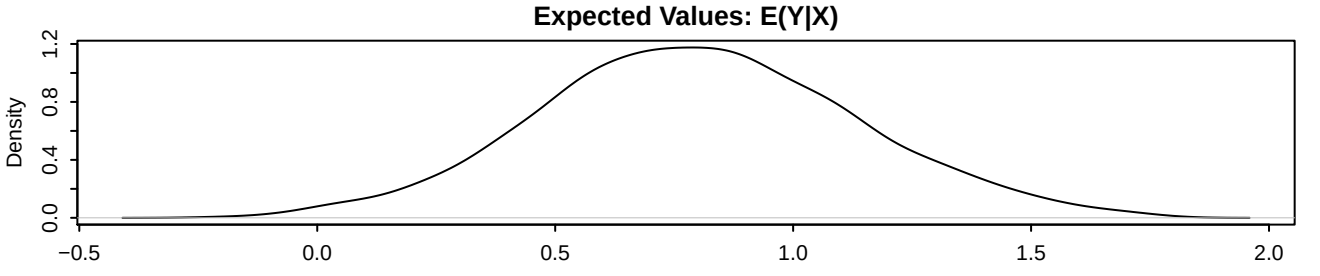

Predicted Values: Y|X
Y = 1
Y = 0
0
20
40
60
80
100
Percentage of Simulations

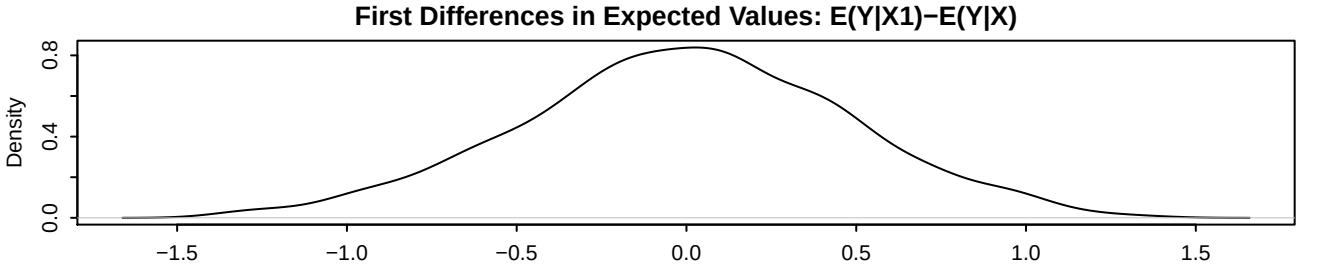

Expected Values: E(Y|X)
Density
0.0
0.4
0.8
1.2
−0.5
0.0
0.5
1.0
1.5
2.0

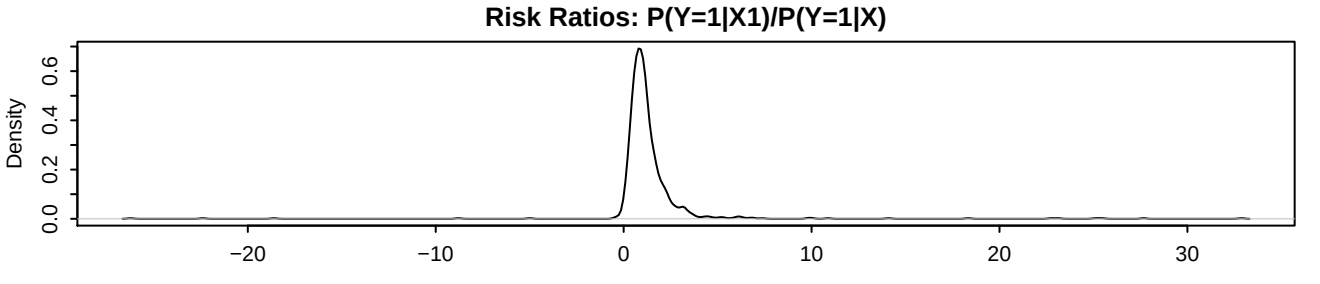

Predicted Values: Y|X
Y = 1
Y = 0
0
20
40
60
80
100
Percentage of Simulations

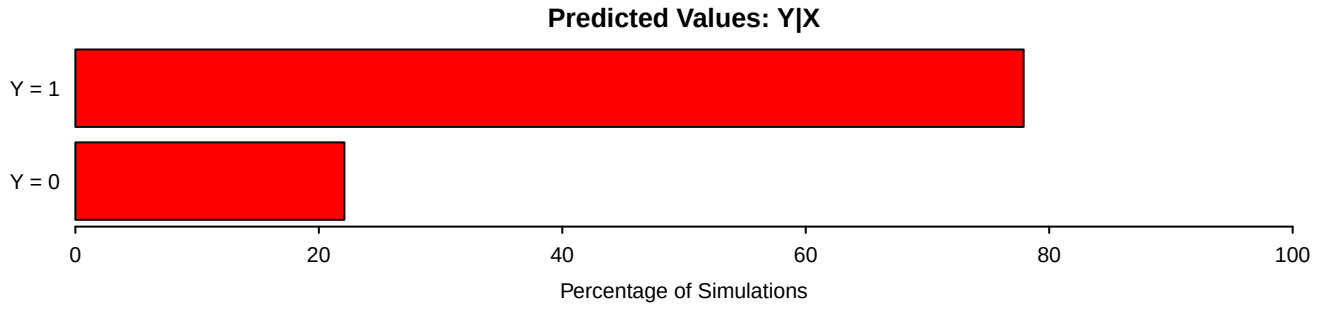

Expected Values: E(Y|X)
Density
0.0
0.4
0.8
1.2
−0.5
0.0
0.5
1.0
1.5
2.0

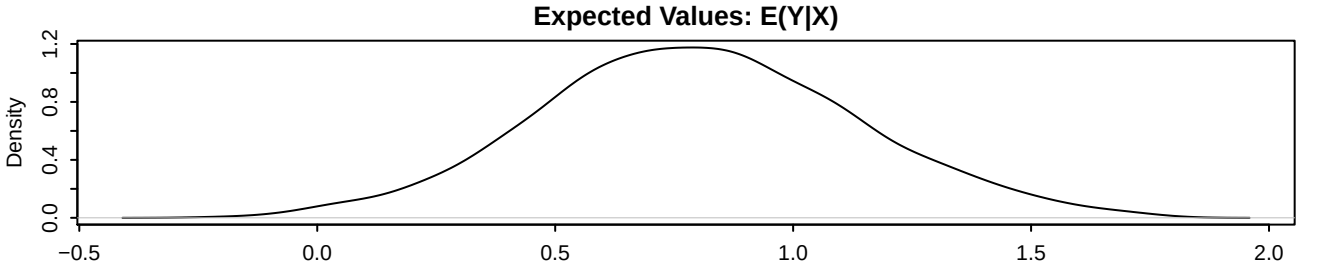

Predicted Values: Y|X
Y = 1
Y = 0
0
20
40
60
80
100
Percentage of Simulations

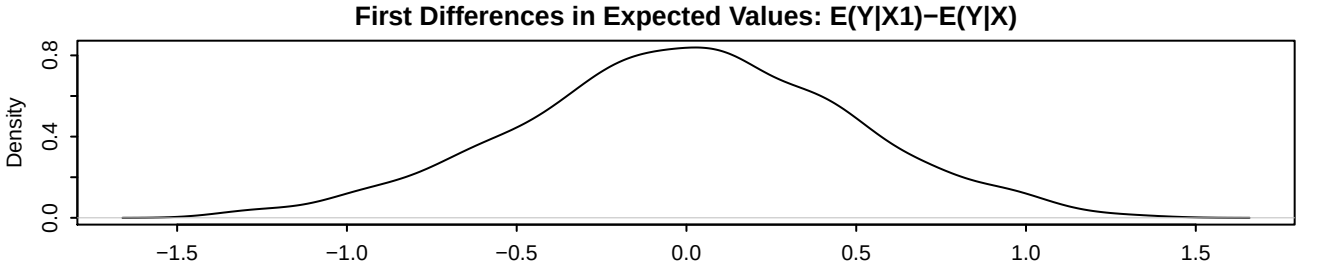

Expected Values: E(Y|X)
Density
0.0
0.4
0.8
1.2
−0.5
0.0
0.5
1.0
1.5
2.0

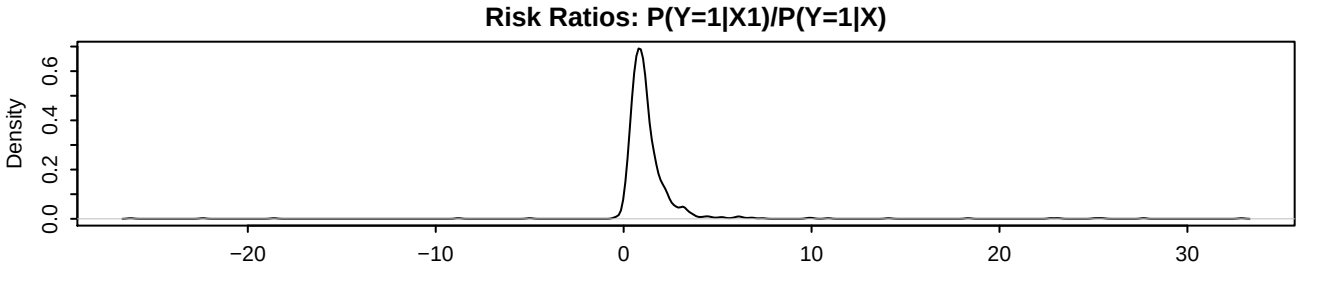

First Differences in Expected Values: E(Y|X1)−E(Y|X)
Density
0.0
0.4
0.8
−1.5
−1.0
−0.5
0.0
0.5
1.0
1.5

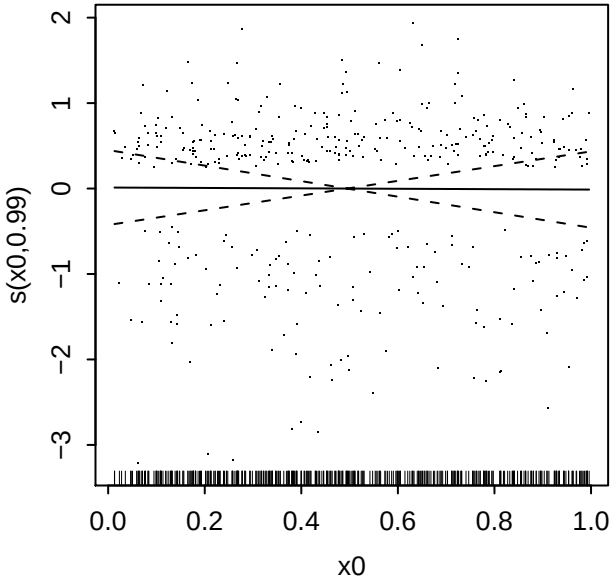

Risk Ratios: P(Y=1|X1)/P(Y=1|X)
Density
0.0
0.2
0.4
0.6
−20
−10
0
10
20
30

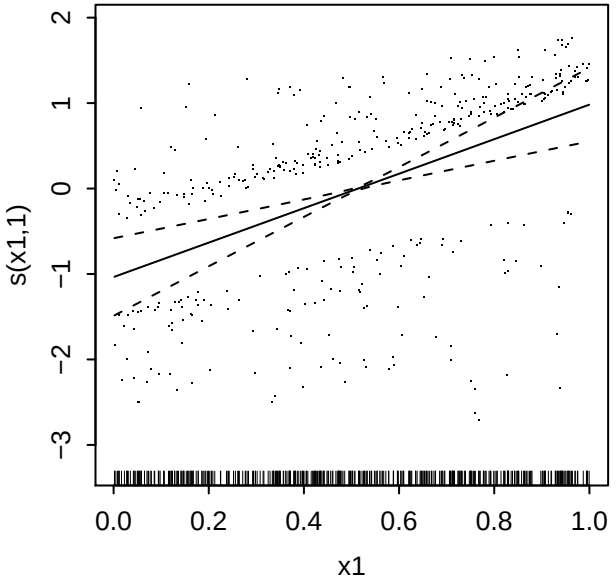

Predicted Values: Y|X
Y = 1
Y = 0
0
20
40
60
80
100
Percentage of Simulations

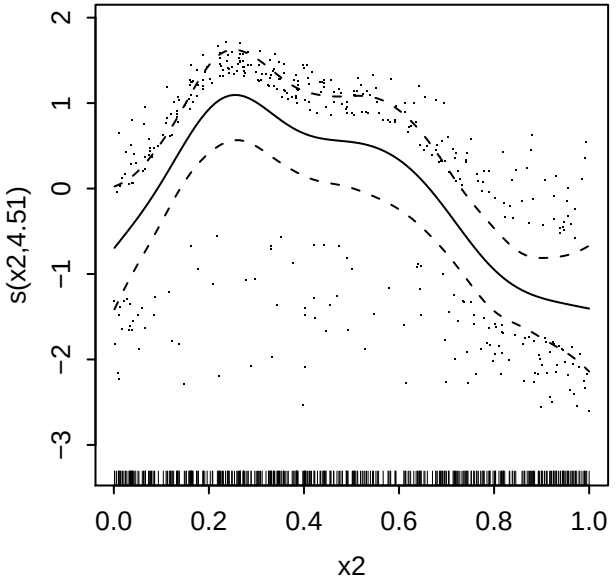

Expected Values: E(Y|X)
Density
0.0
0.4
0.8
1.2
−0.5
0.0
0.5
1.0
1.5
2.0

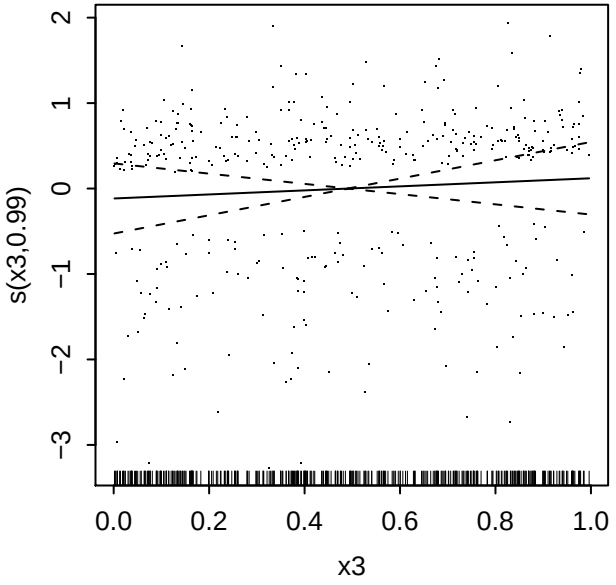

First Differences in Expected Values: E(Y|X1)−E(Y|X)
Density
0.0
0.4
0.8
−1.5
−1.0
−0.5
0.0
0.5
1.0
1.5

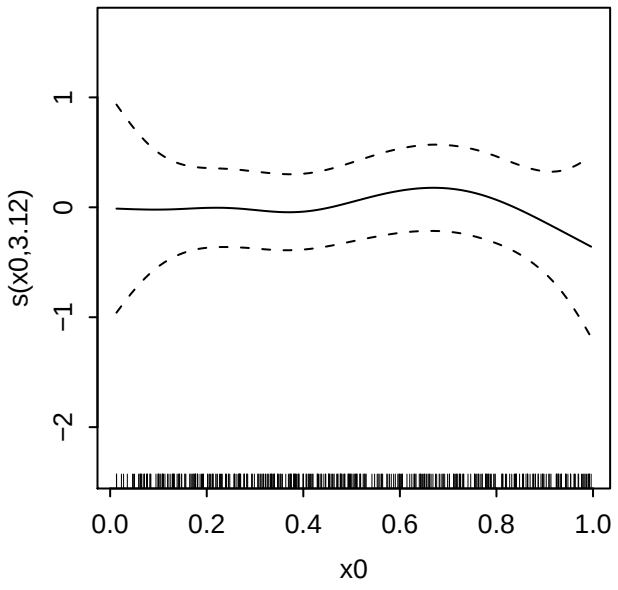

Risk Ratios: P(Y=1|X1)/P(Y=1|X)
Density
0.0
0.2
0.4
0.6
−20
−10
0
10
20
30

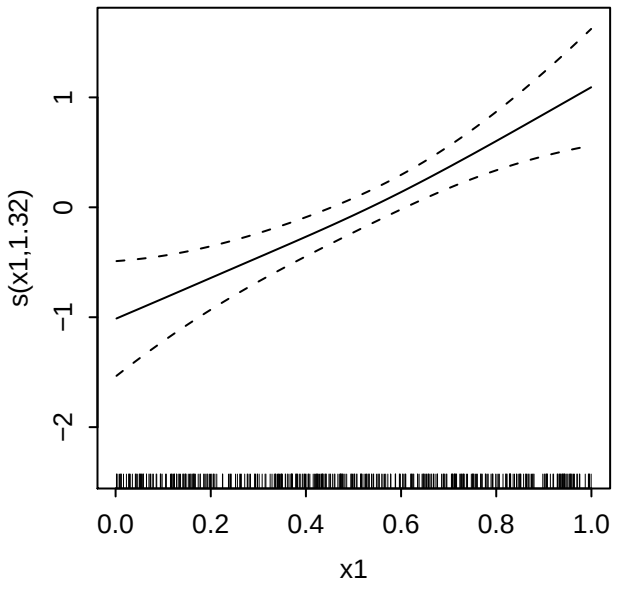

s(x0,0.99)
x0
2
1
0
−1
−2
−3
0.0
0.2
0.4
0.6
0.8
1.0

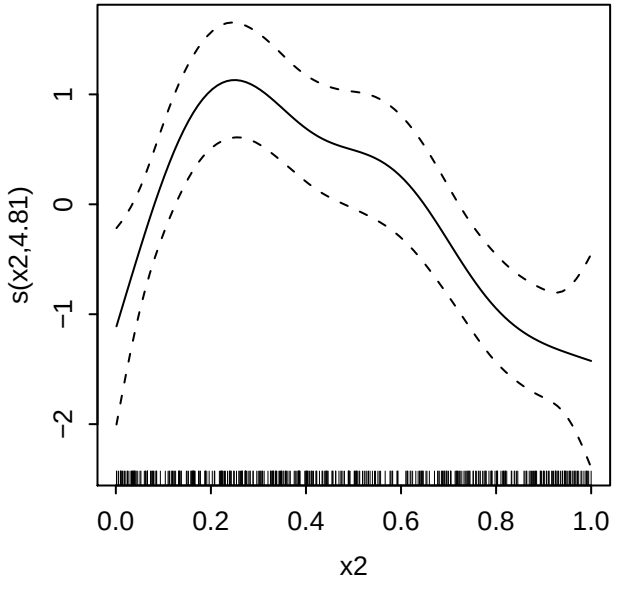

s(x1,1)
x1
2
1
0
−1
−2
−3
0.0
0.2
0.4
0.6
0.8
1.0

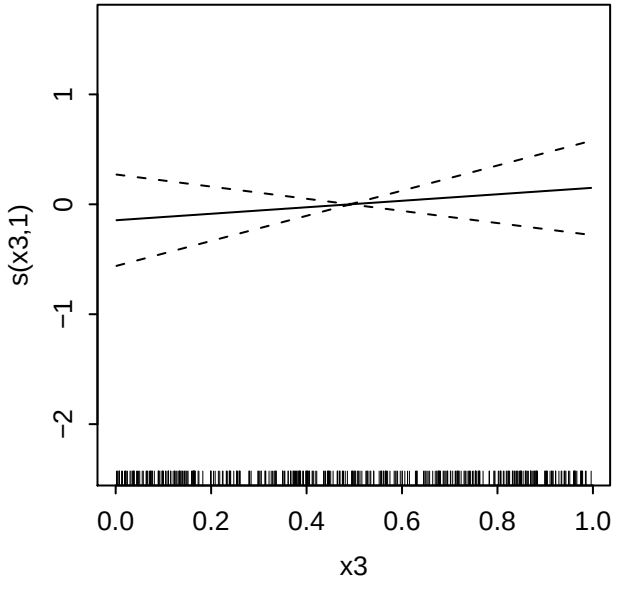

s(x2,4.51)
x2
2
1
0
−1
−2
−3
0.0
0.2
0.4
0.6
0.8
1.0

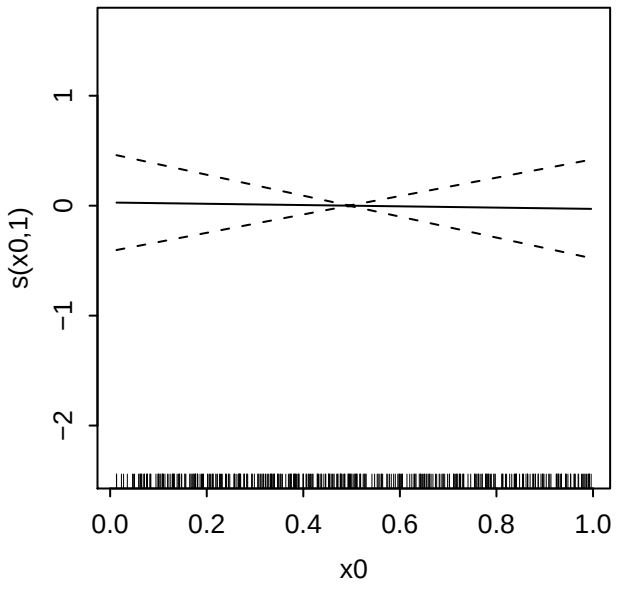

s(x3,0.99)
x3
2
1
0
−1
−2
−3
0.0
0.2
0.4
0.6
0.8
1.0

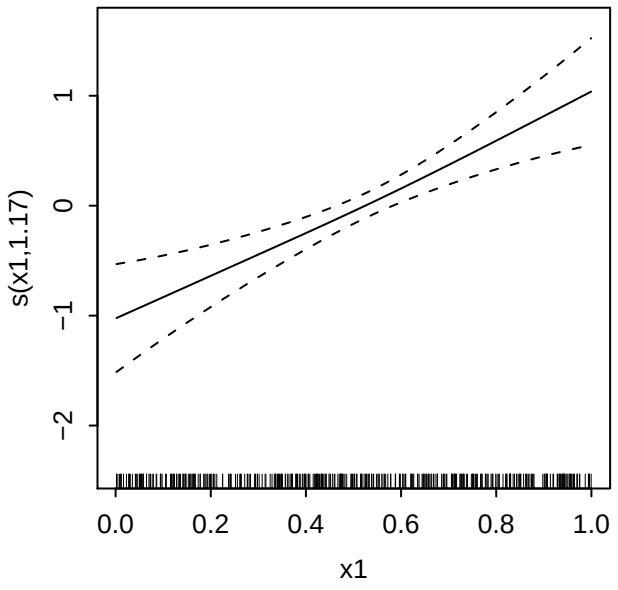

s(x0,3.12)
1
0
−1
−2
0.0
0.2
0.4
0.6
0.8
1.0
x0

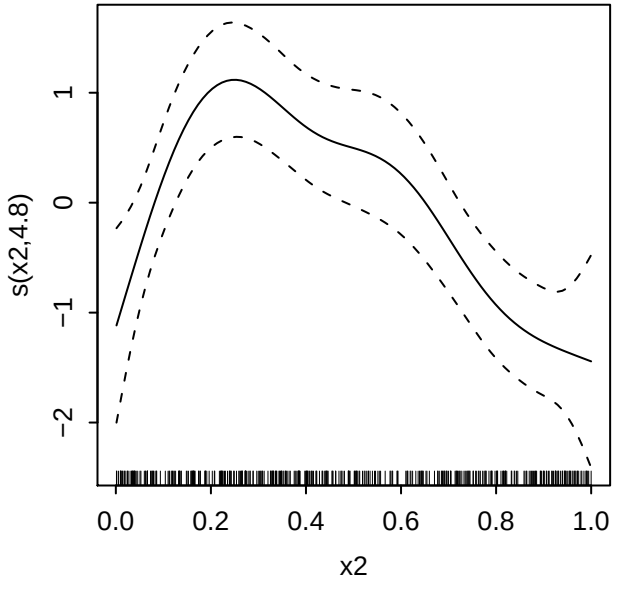

s(x1,1.32)
1
0
−1
−2
0.0
0.2
0.4
0.6
0.8
1.0
x1

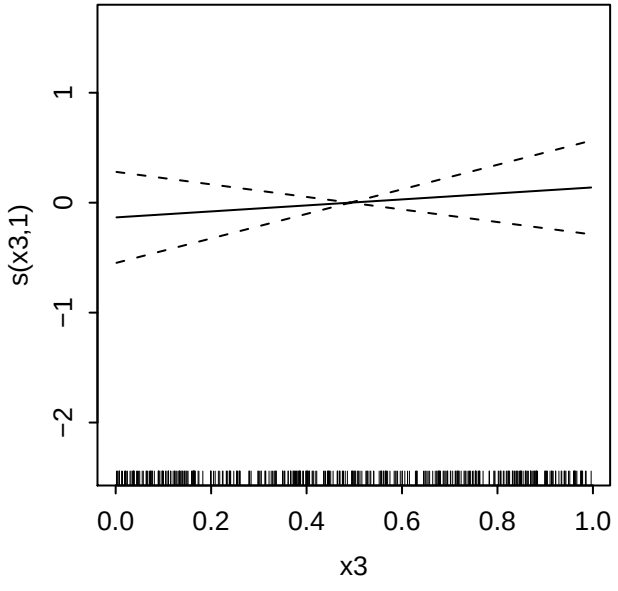

s(x2,4.81)
1
0
−1
−2
0.0
0.2
0.4
0.6
0.8
1.0
x2

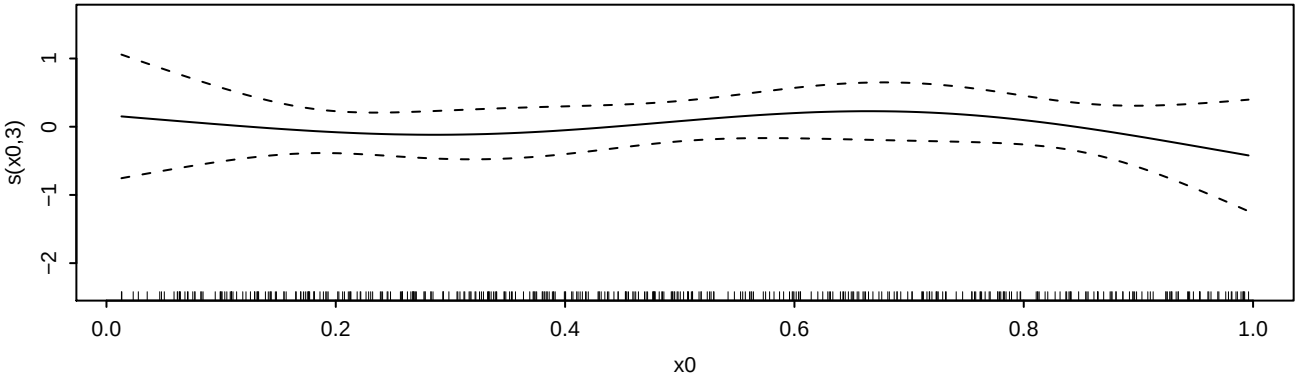

s(x3,1)
1
0
−1
−2
0.0
0.2
0.4
0.6
0.8
1.0
x3

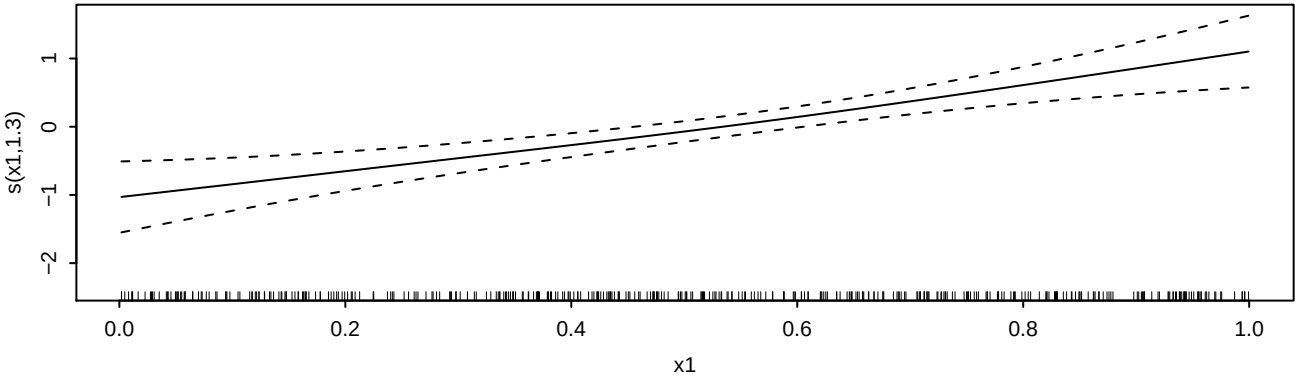

s(x0,1)
1
0
−1
−2
0.0
0.2
0.4
0.6
0.8
1.0
x0

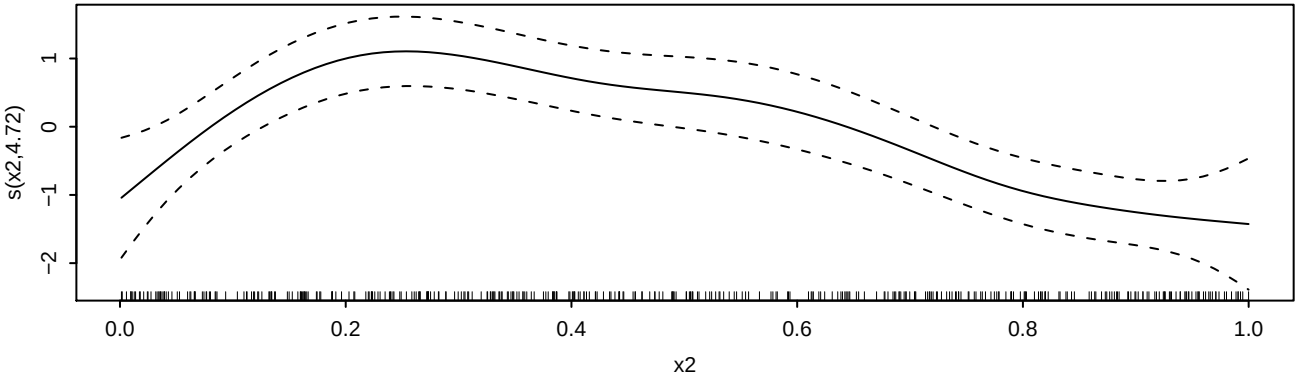

s(x1,1.17)
1
0
−1
−2
0.0
0.2
0.4
0.6
0.8
1.0
x1

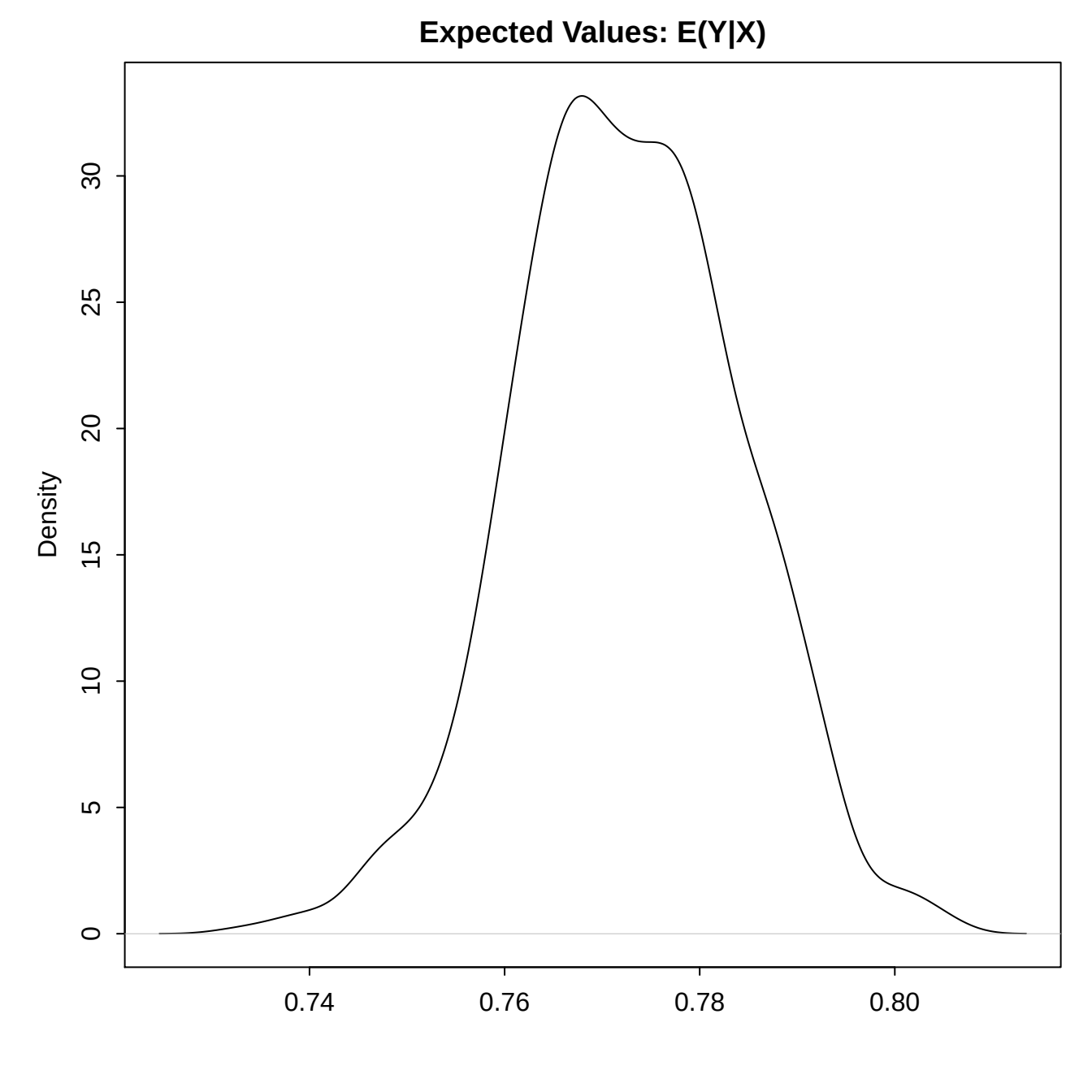

s(x2,4.8)
1
0
−1
−2
0.0
0.2
0.4
0.6
0.8
1.0
x2

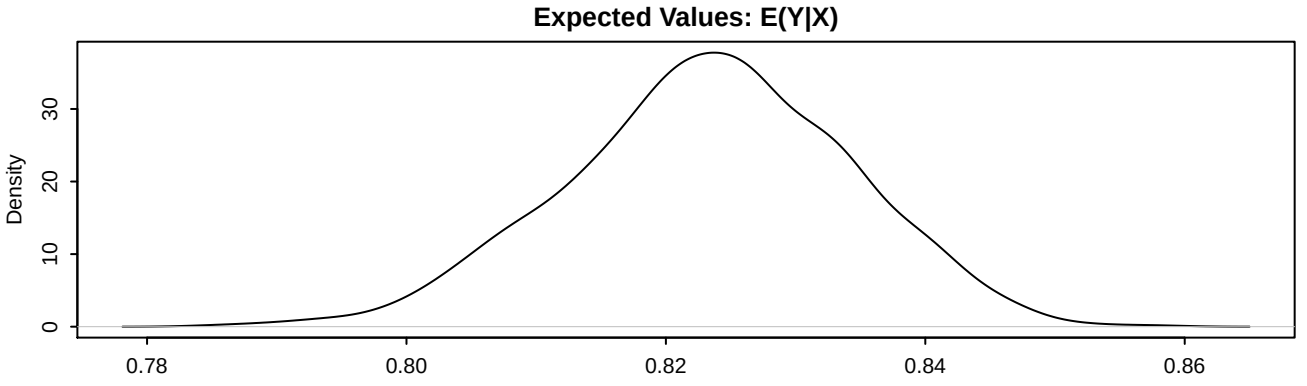

s(x3,1)
1
0
−1
−2
0.0
0.2
0.4
0.6
0.8
1.0
x3

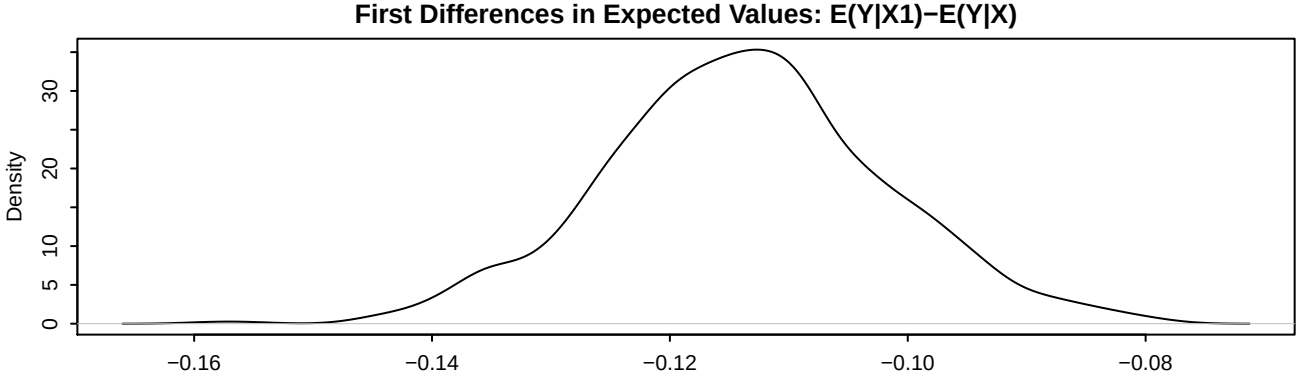

s(x0,3)
1
0
−1
−2
0.0
0.2
0.4
0.6
0.8
1.0
x0

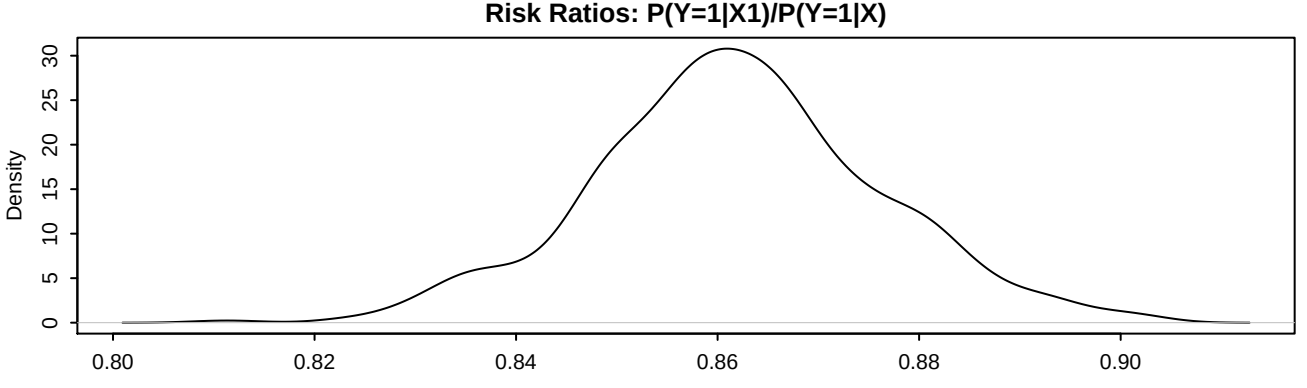

s(x1,1.3)
1
0
−1
−2
0.0
0.2
0.4
0.6
0.8
1.0
x1

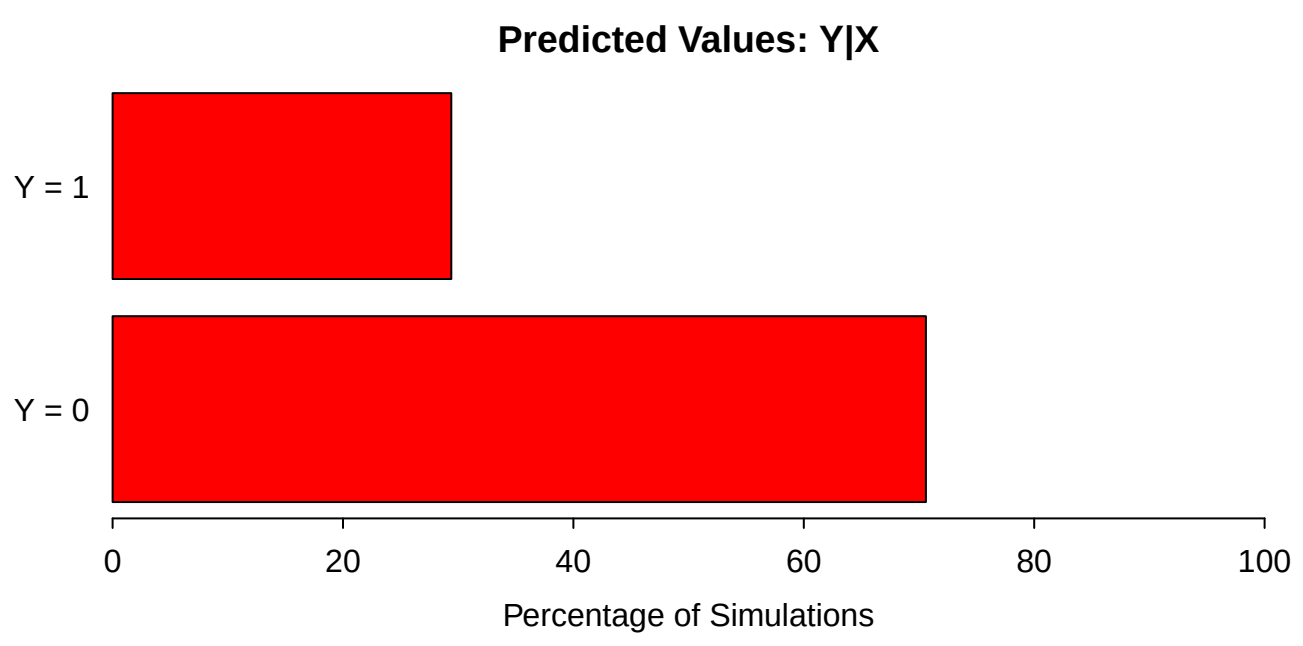

s(x2,4.72)
1
0
−1
−2
0.0
0.2
0.4
0.6
0.8
1.0
x2

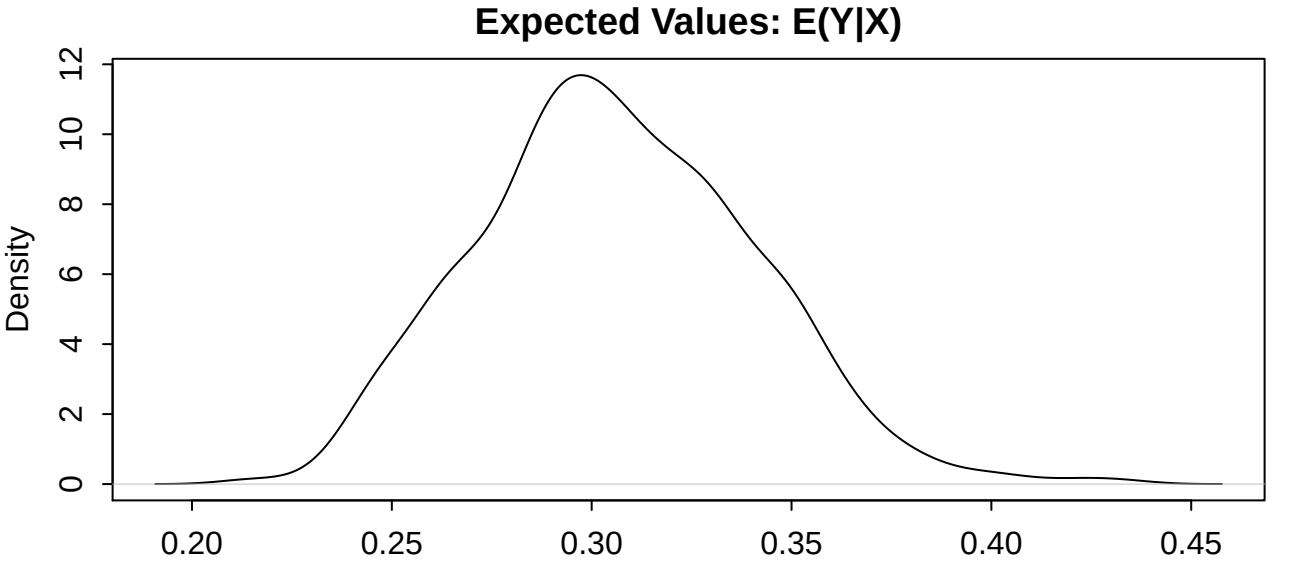

Expected Values: E(Y|X)
Density
0
5
10
15
20
25
30
0.74
0.76
0.78
0.80

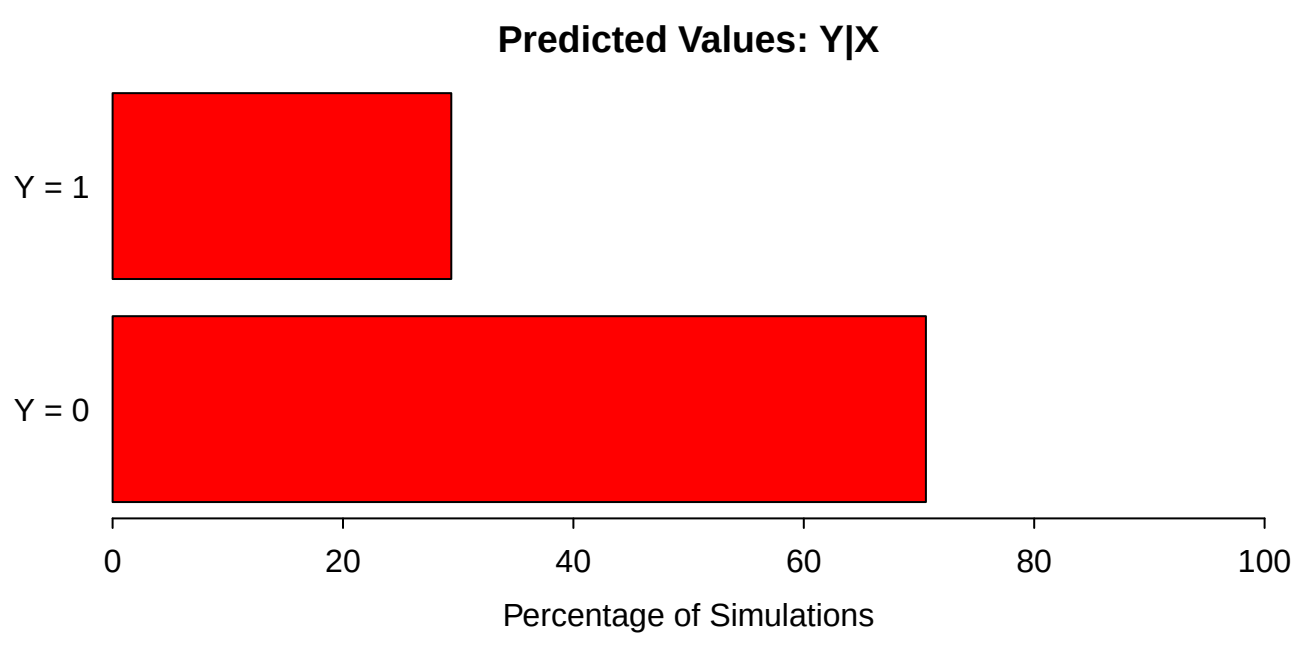

Expected Values: E(Y|X)
Density
0
10
20
30
0.78
0.80
0.82
0.84
0.86

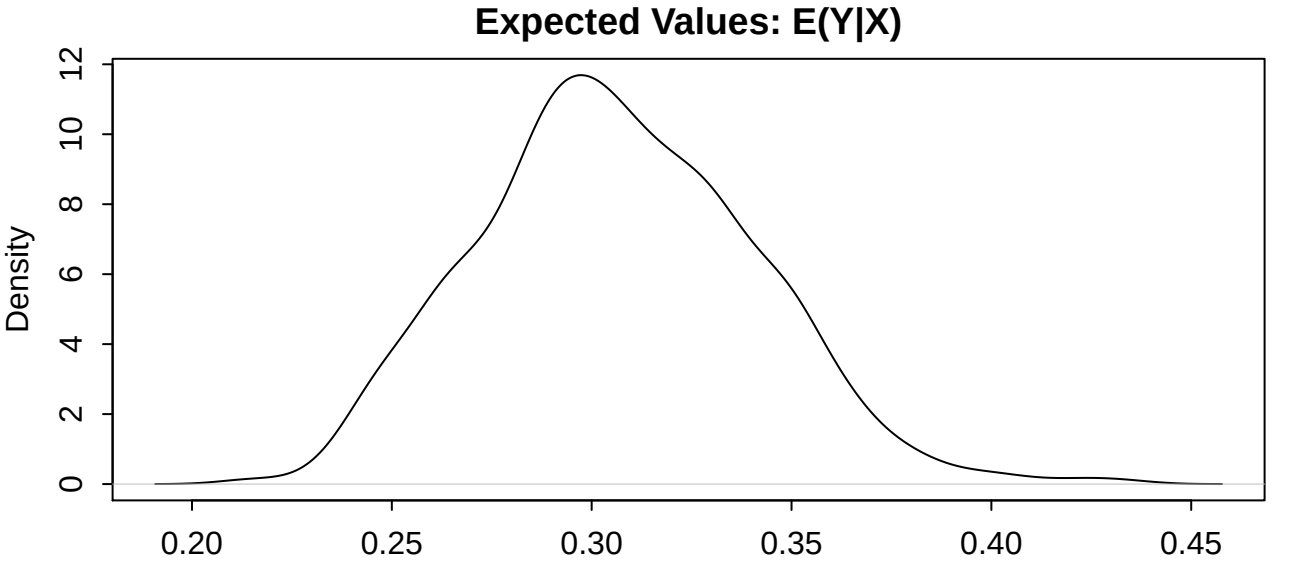

First Differences in Expected Values: E(Y|X1)−E(Y|X)
Density
0
5
10
20
30
−0.16
−0.14
−0.12
−0.10
−0.08

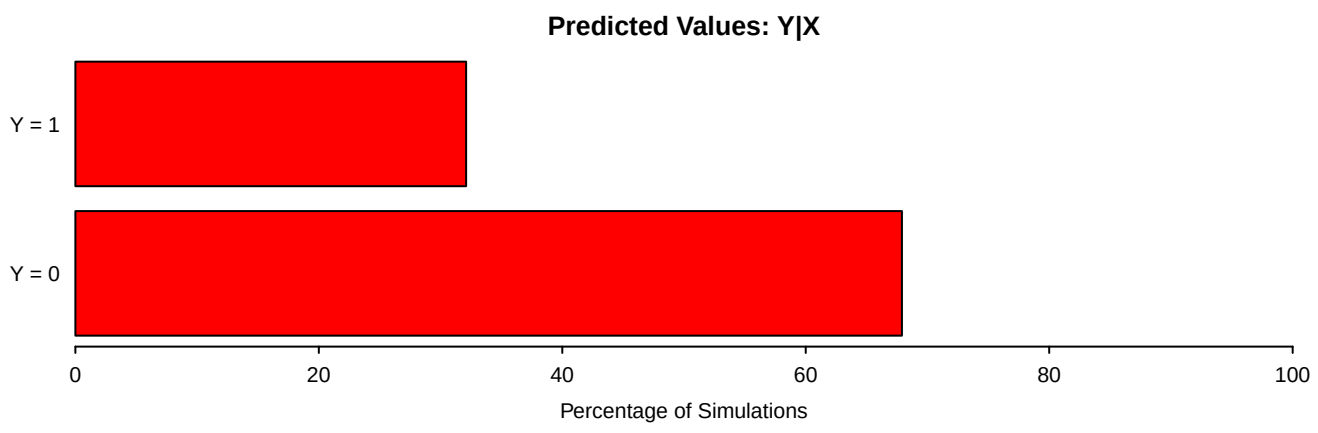

Risk Ratios: P(Y=1|X1)/P(Y=1|X)
Density
0
5
10
15
20
25
30
0.80
0.82
0.84
0.86
0.88
0.90

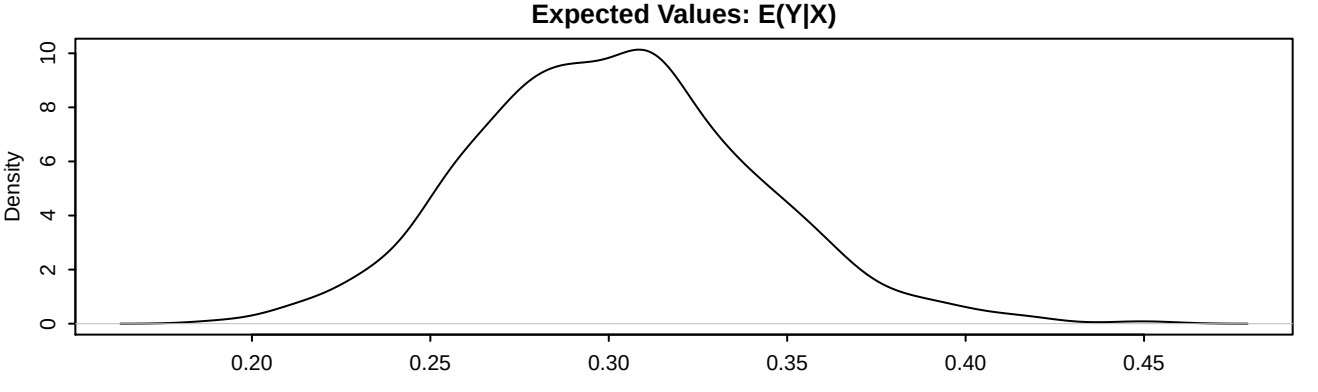

Predicted Values: Y|X
Y = 1
Y = 0
0
20
40
60
80
100
Percentage of Simulations

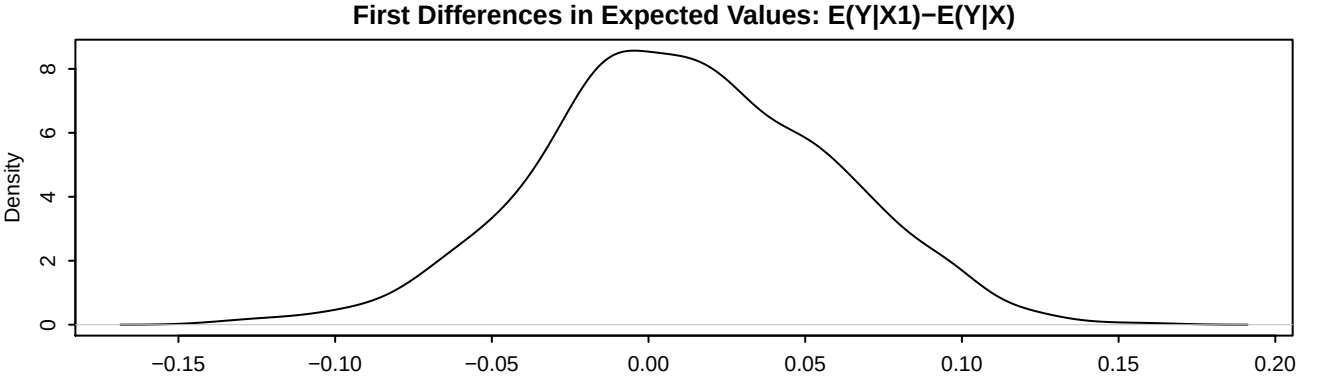

Expected Values: E(Y|X)
Density
0
2
4
6
8
10
12
0.20
0.25
0.30
0.35
0.40
0.45

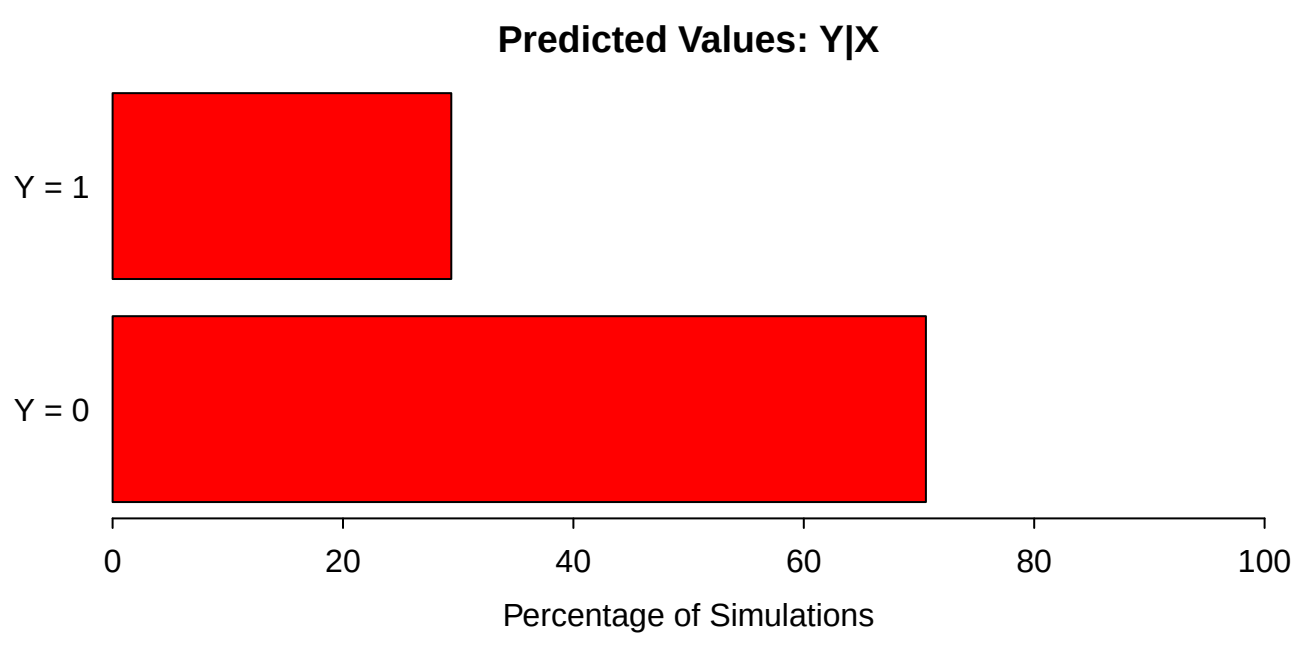

Predicted Values: Y|X
Y = 1
Y = 0
0
20
40
60
80
100
Percentage of Simulations

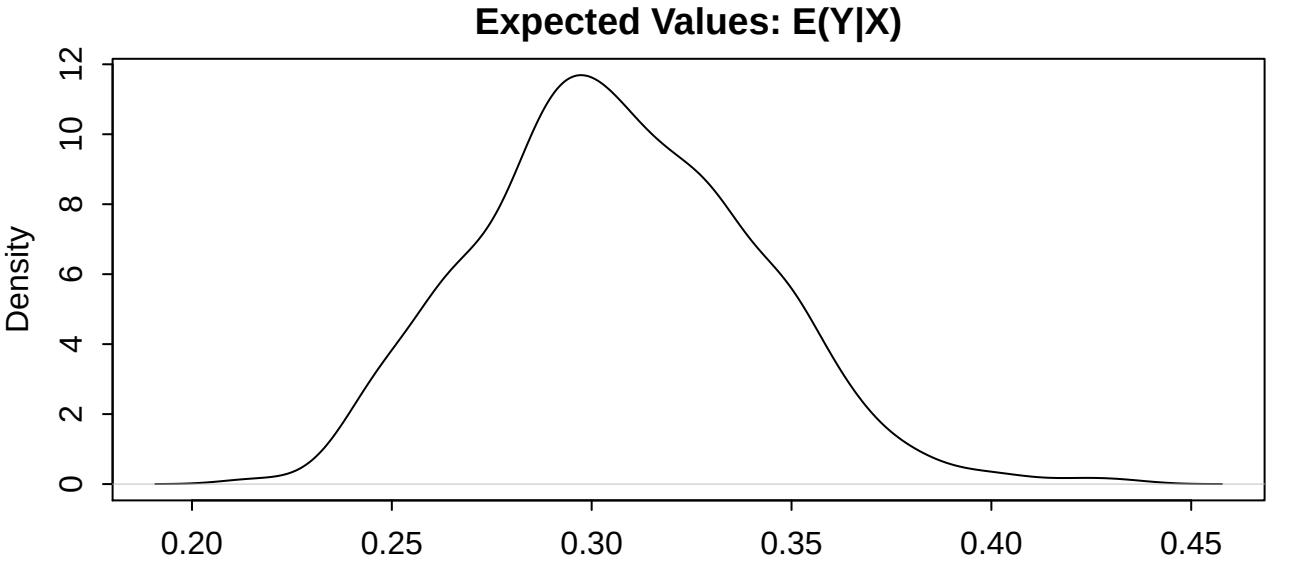

Expected Values: E(Y|X)
Density
0
2
4
6
8
10
12
0.20
0.25
0.30
0.35
0.40
0.45

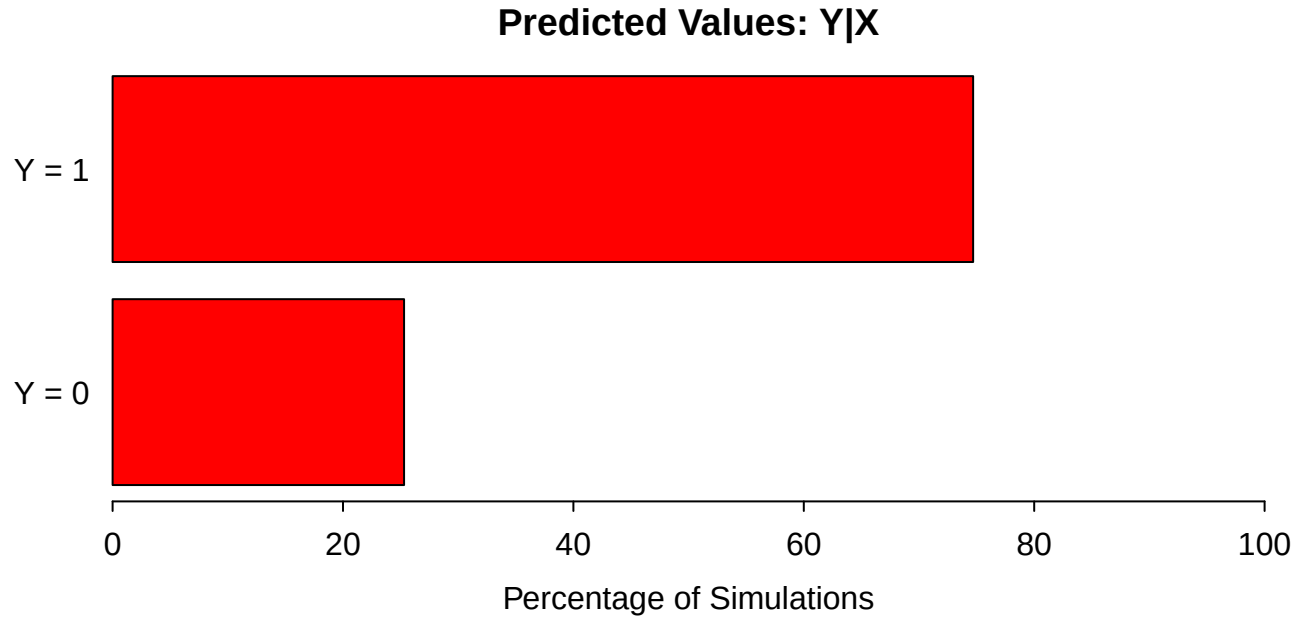

Predicted Values: Y|X
Y = 1
Y = 0
0
20
40
60
80
100
Percentage of Simulations

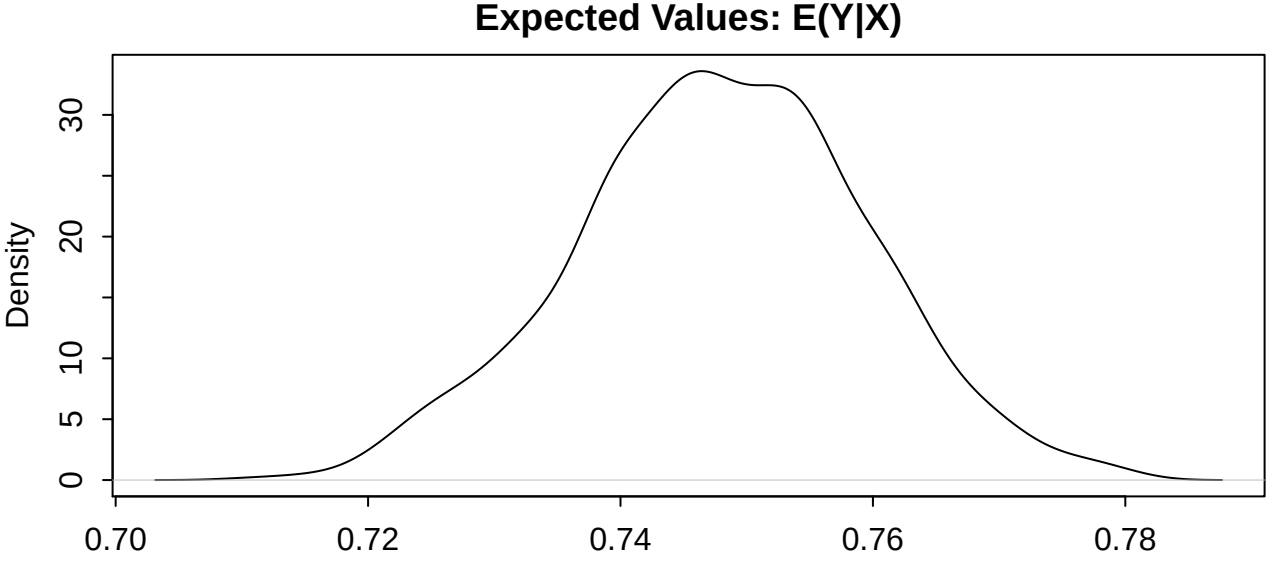

Expected Values: E(Y|X)
Density
0
2
4
6
8
10
0.20
0.25
0.30
0.35
0.40
0.45

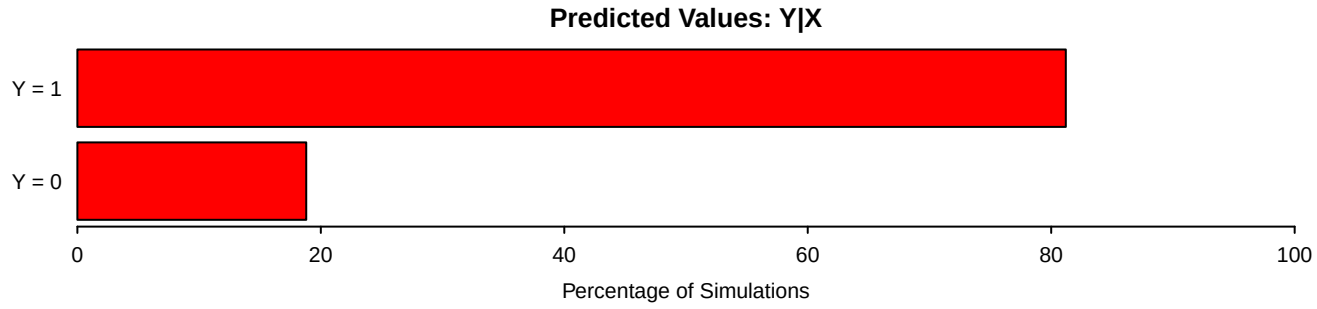

First Differences in Expected Values: E(Y|X1)−E(Y|X)
Density
0
2
4
6
8
−0.15
−0.10
−0.05
0.00
0.05
0.10
0.15
0.20

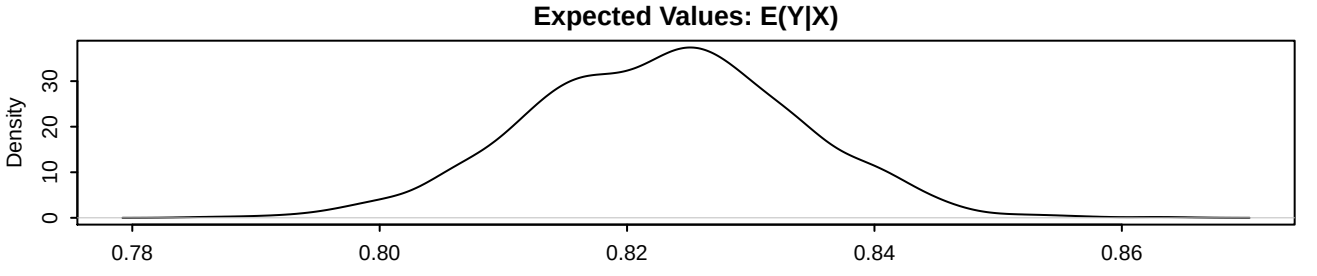

Predicted Values: Y|X
Y = 1
Y = 0
0
20
40
60
80
100
Percentage of Simulations

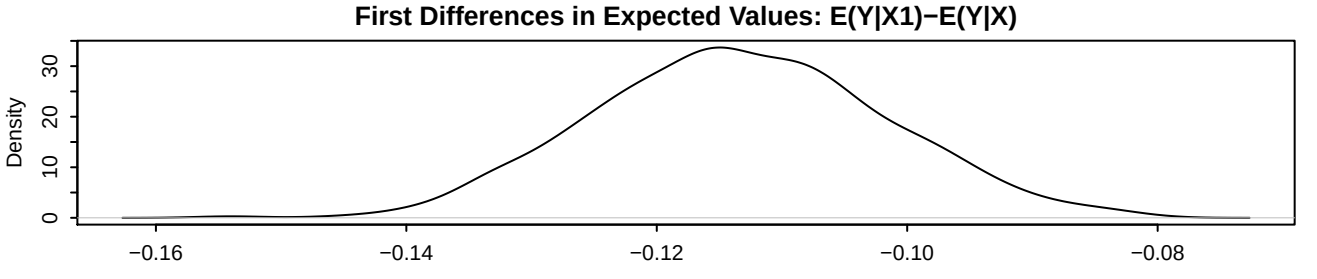

Expected Values: E(Y|X)
Density
0
2
4
6
8
10
12
0.20
0.25
0.30
0.35
0.40
0.45

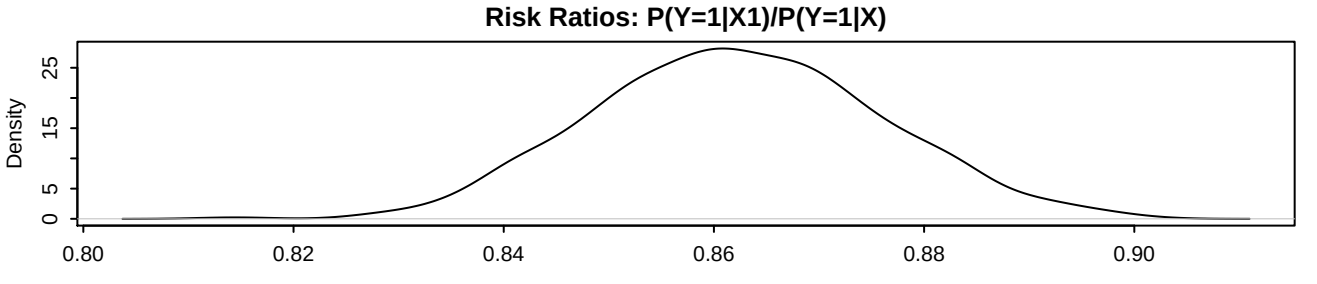

Predicted Values: Y|X
Y = 1
Y = 0
0
20
40
60
80
100
Percentage of Simulations

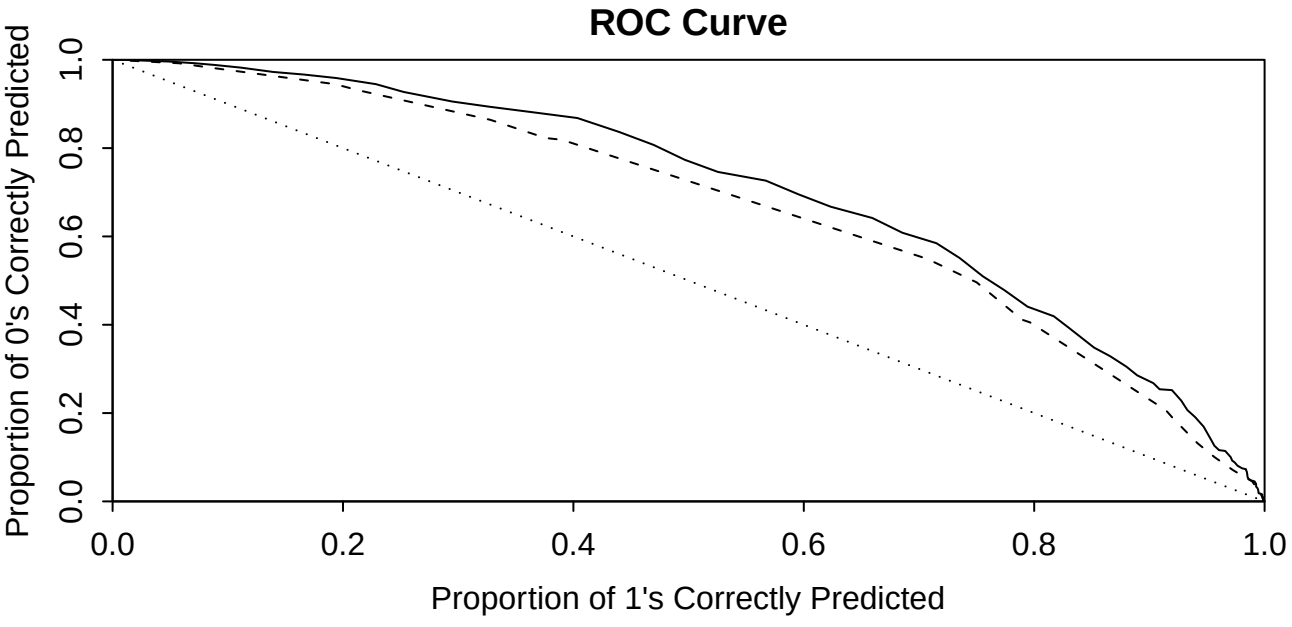

Expected Values: E(Y|X)
Density
0
5
10
20
30
0.70
0.72
0.74
0.76
0.78

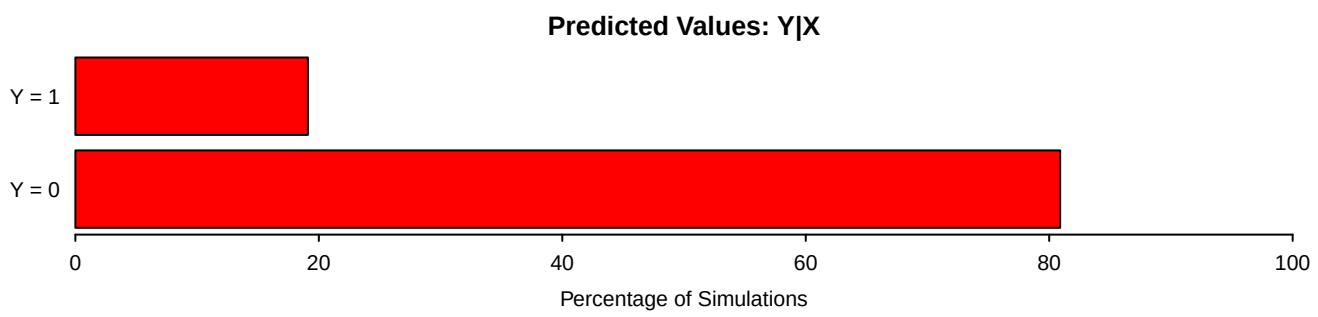

Predicted Values: Y|X
Y = 1
Y = 0
0
20
40
60
80
100
Percentage of Simulations

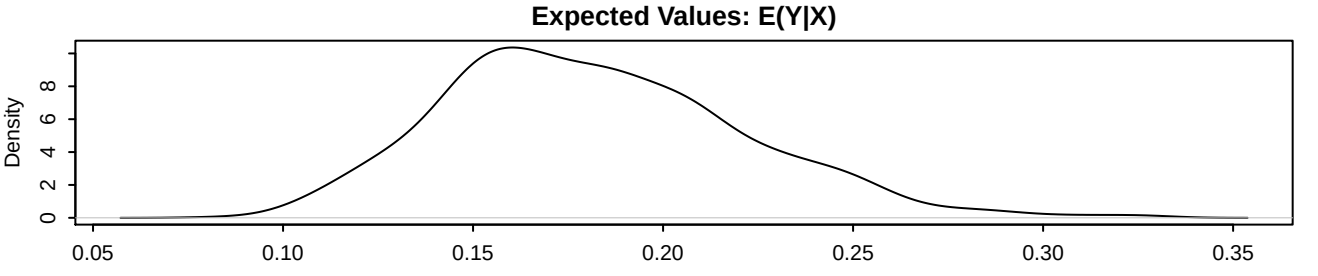

Expected Values: E(Y|X)
Density
0
10
20
30
0.78
0.80
0.82
0.84
0.86

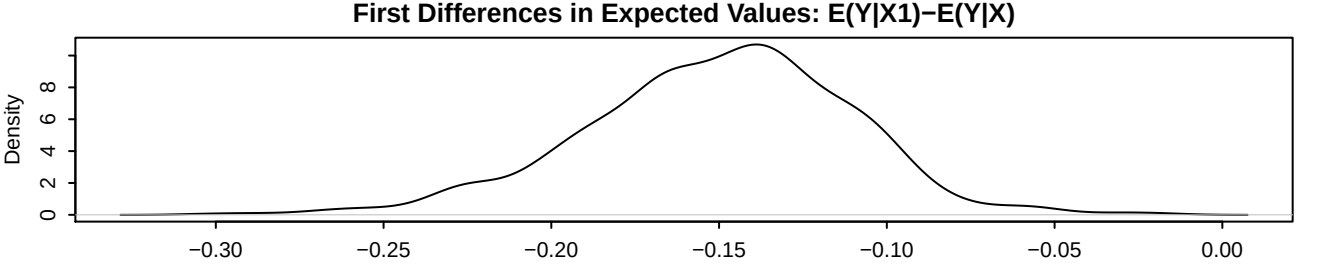

First Differences in Expected Values: E(Y|X1)−E(Y|X)
Density
0
10
20
30
−0.16
−0.14
−0.12
−0.10
−0.08

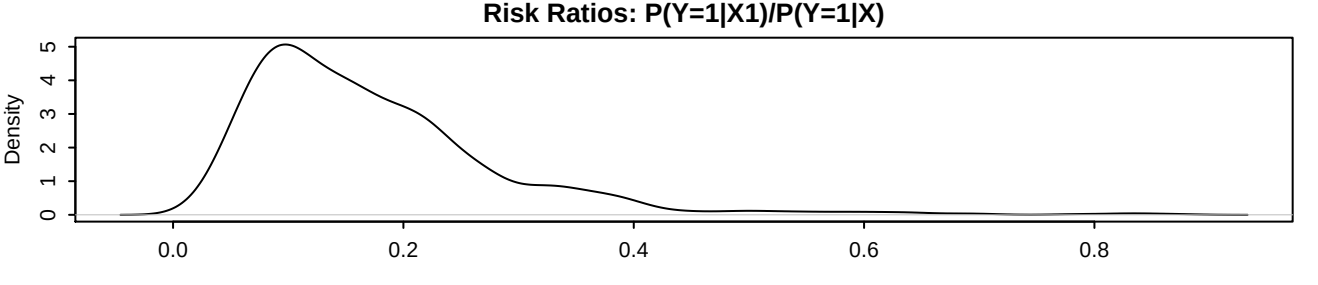

Risk Ratios: P(Y=1|X1)/P(Y=1|X)
Density
0
5
15
25
0.80
0.82
0.84
0.86
0.88
0.90

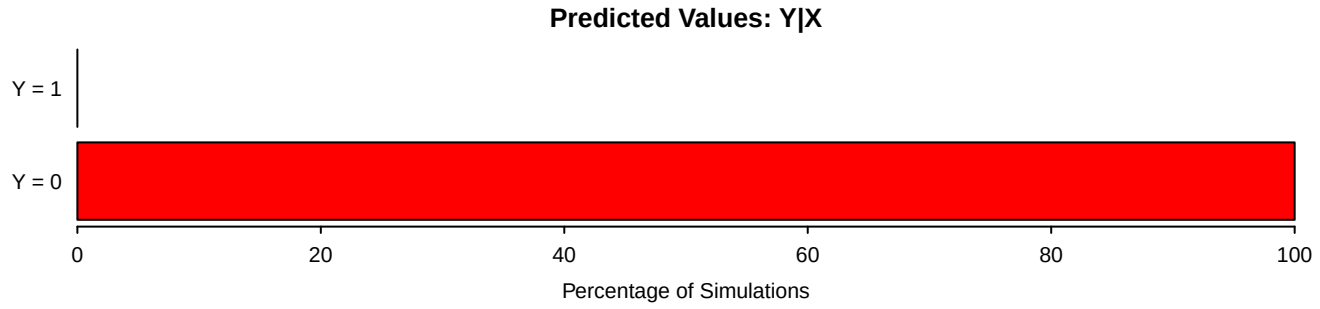

ROC Curve
Proportion of 0's Correctly Predicted
0.0
0.2
0.4
0.6
0.8
1.0
Proportion of 1's Correctly Predicted

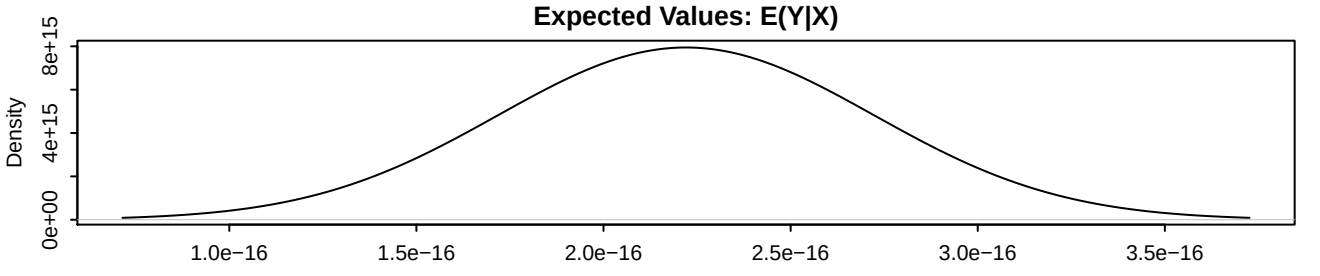

Predicted Values: Y|X
Y = 1
Y = 0
0
20
40
60
80
100
Percentage of Simulations

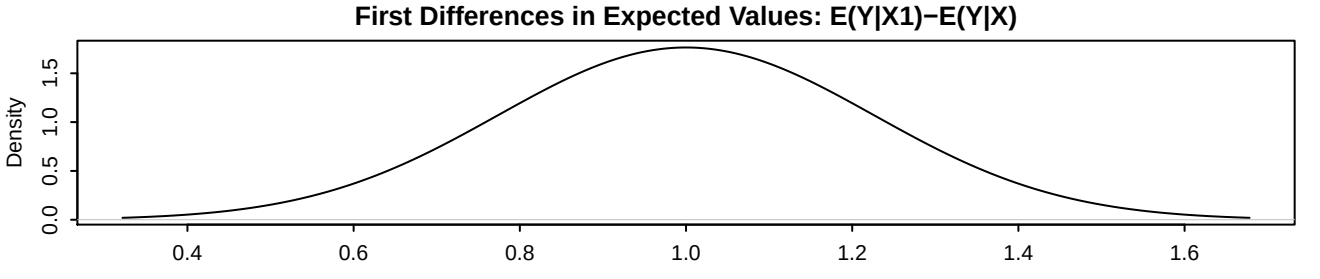

Expected Values: E(Y|X)
Density
0
2
4
6
8
0.05
0.10
0.15
0.20
0.25
0.30
0.35

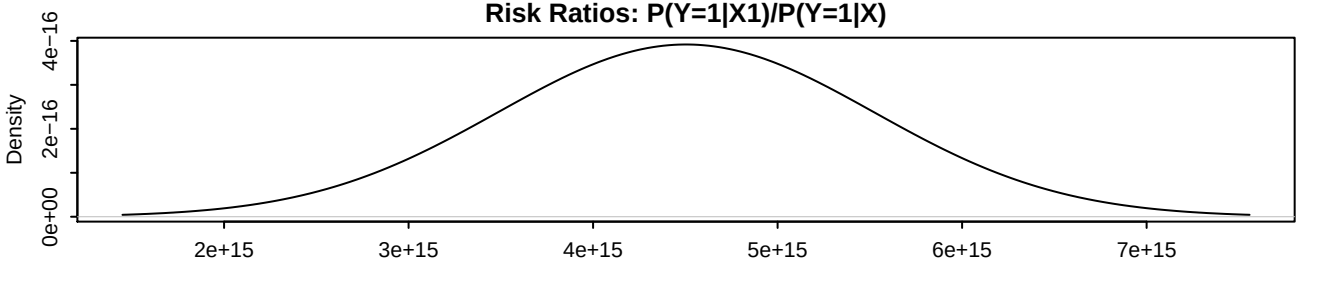

First Differences in Expected Values: E(Y|X1)−E(Y|X)
Density
0
2
4
6
8
−0.30
−0.25
−0.20
−0.15
−0.10
−0.05
0.00

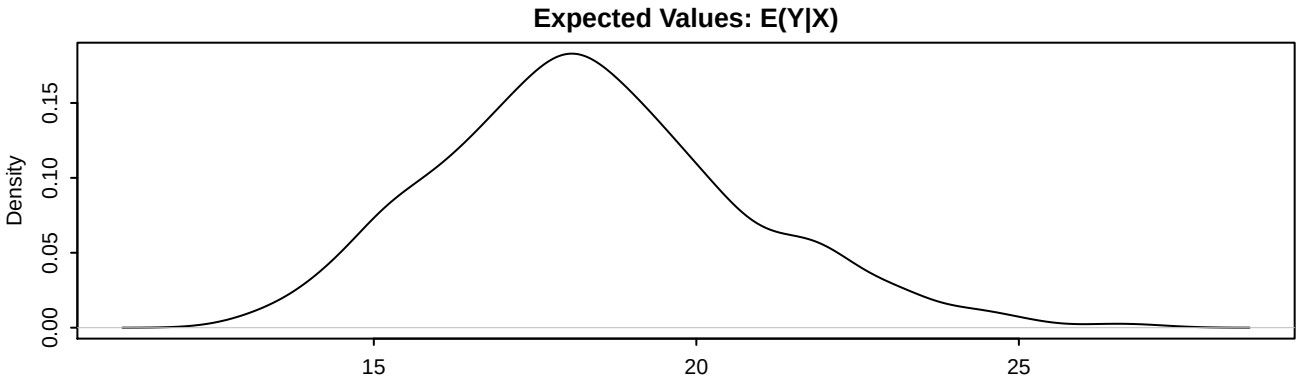

Risk Ratios: P(Y=1|X1)/P(Y=1|X)
Density
0
1
2
3
4
5
0.0
0.2
0.4
0.6
0.8

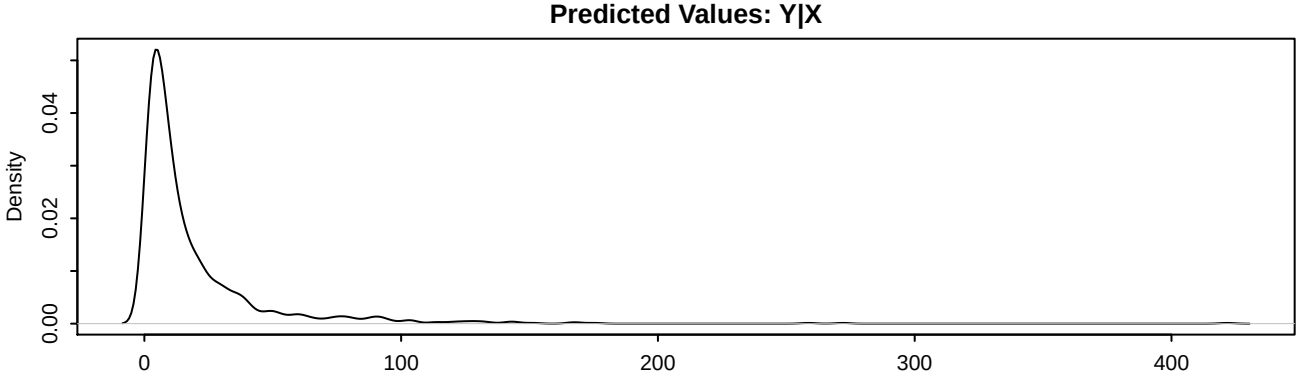

Predicted Values: Y|X
Y = 1
Y = 0
0
20
40
60
80
100
Percentage of Simulations

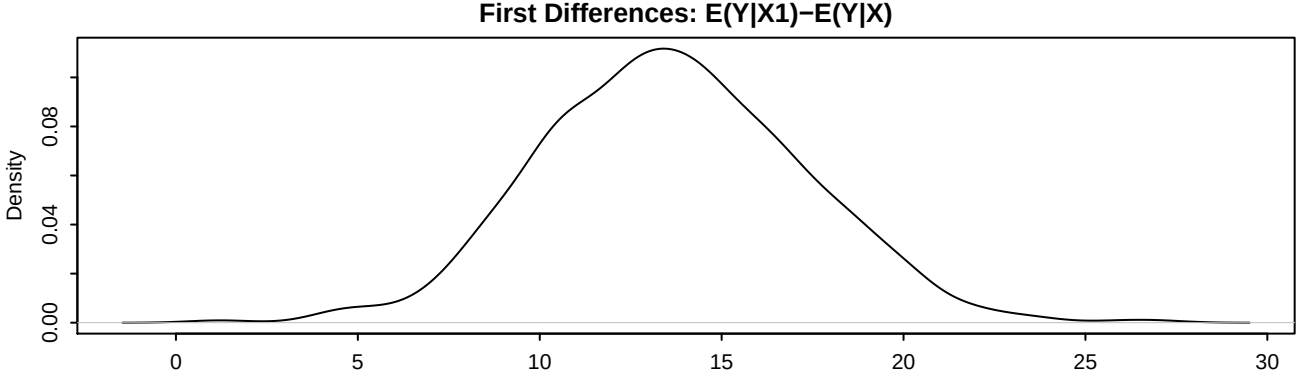

Expected Values: E(Y|X)
Density
0e+00
4e+15
8e+15
1.0e−16
1.5e−16
2.0e−16
2.5e−16
3.0e−16
3.5e−16

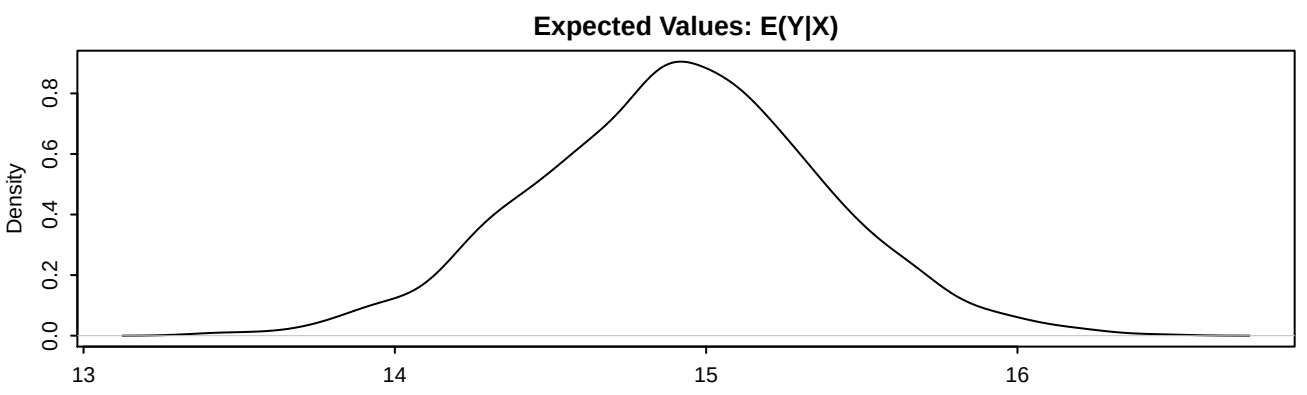

First Differences in Expected Values: E(Y|X1)−E(Y|X)
Density
0.0
0.5
1.0
1.5
0.4
0.6
0.8
1.0
1.2
1.4
1.6

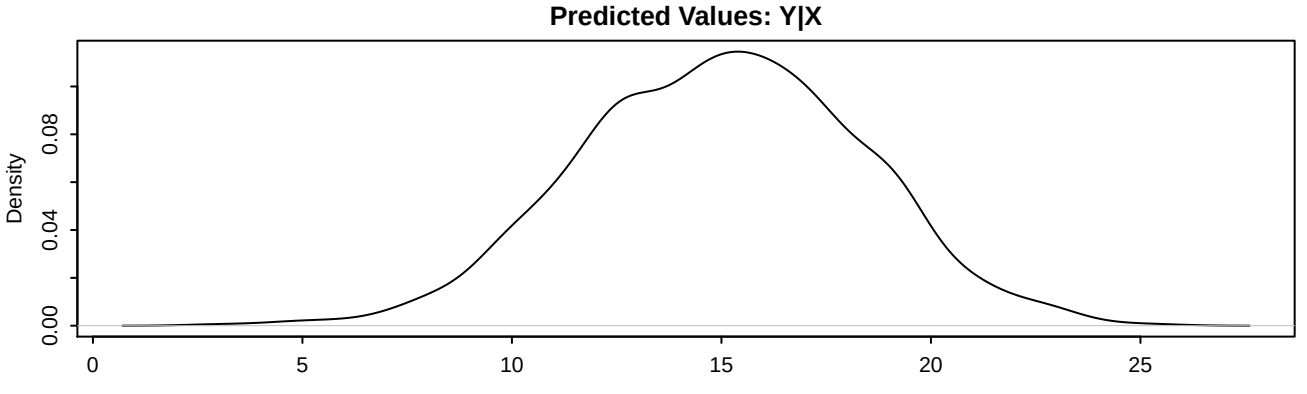

Risk Ratios: P(Y=1|X1)/P(Y=1|X)
Density
0e+00
2e−16
4e−16
2e+15
3e+15
4e+15
5e+15
6e+15
7e+15

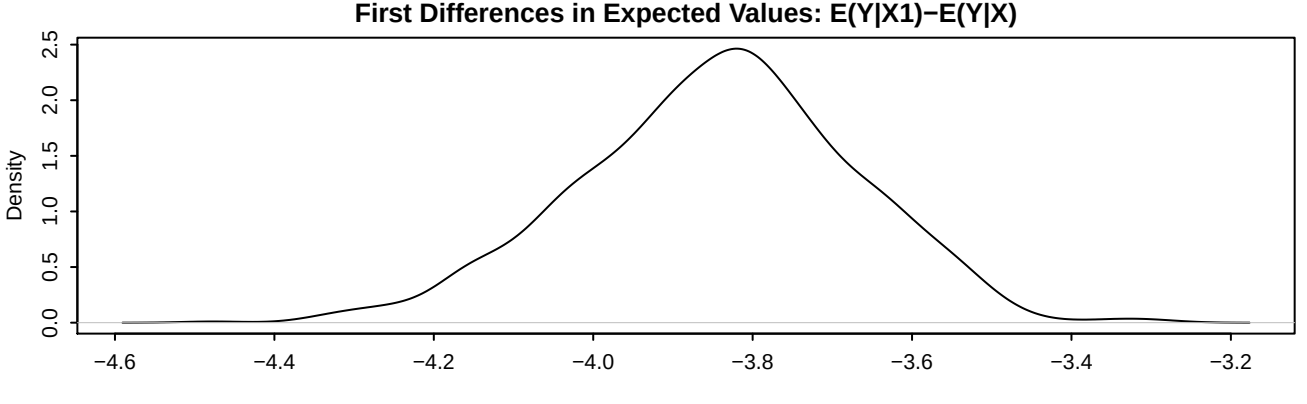

Expected Values: E(Y|X)
Density
0.00
0.05
0.10
0.15
15
20
25

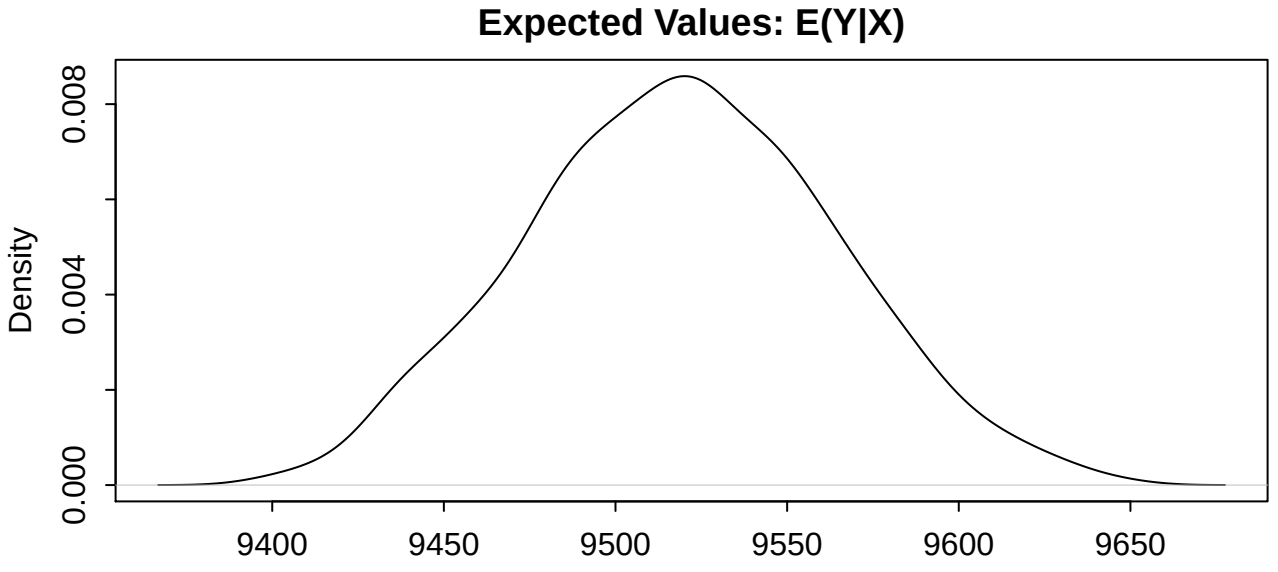

Predicted Values: Y|X
Density
0.00
0.02
0.04
0
100
200
300
400

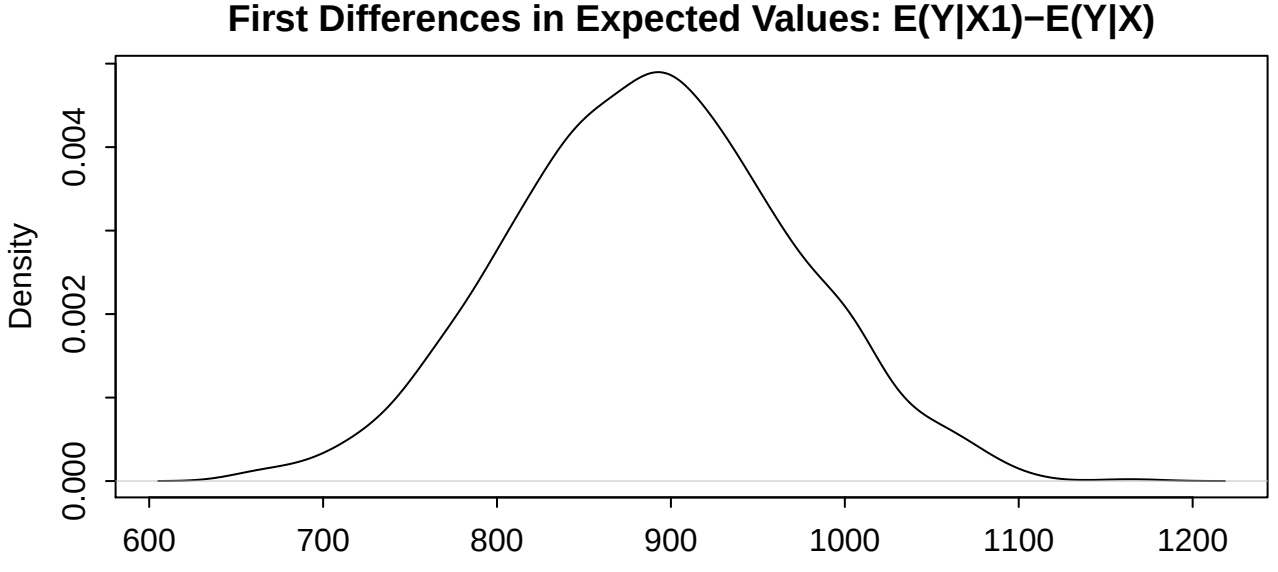

First Differences: E(Y|X1)−E(Y|X)
Density
0.00
0.04
0.08
0
5
10
15
20
25
30

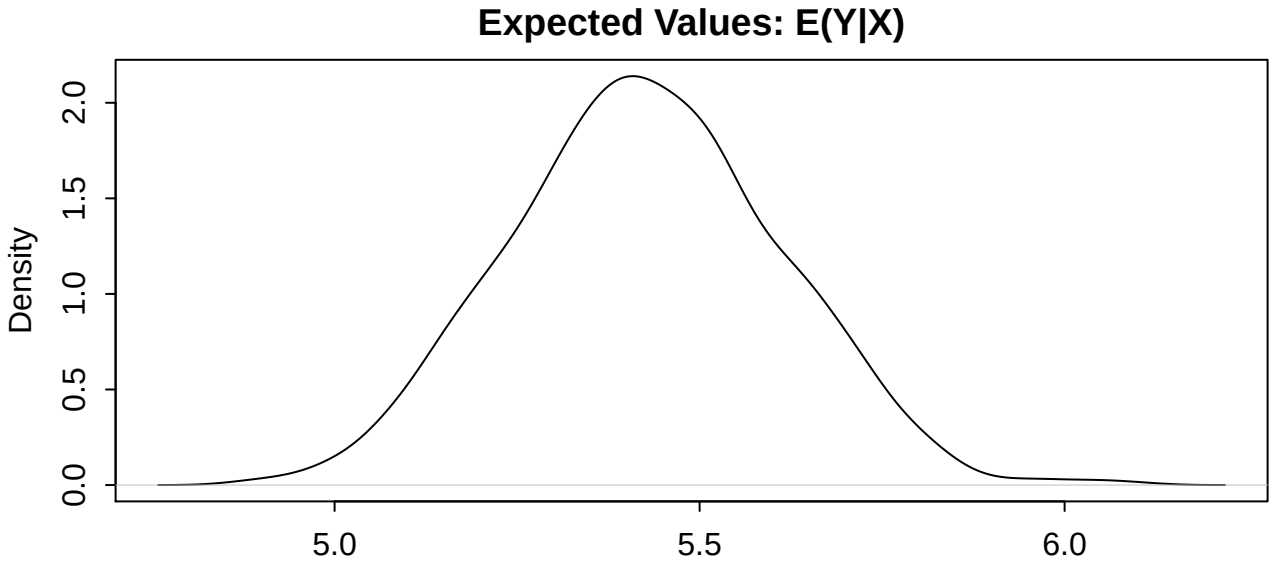

Expected Values: E(Y|X)
Density
0.0
0.2
0.4
0.6
0.8
13
14
15
16

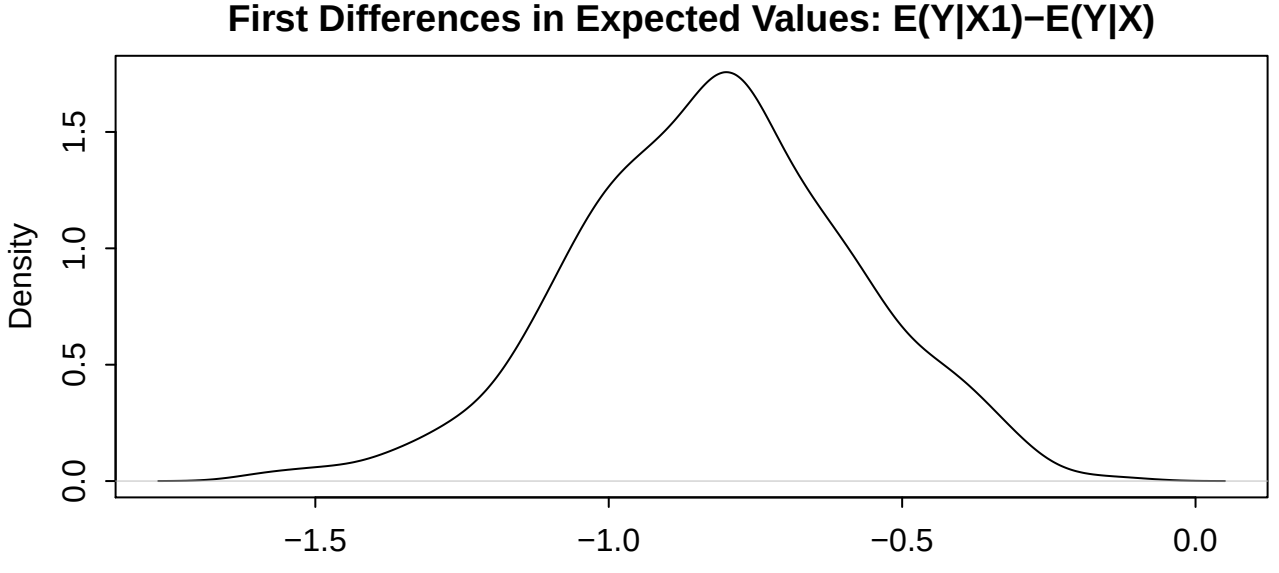

Predicted Values: Y|X
Density
0.00
0.04
0.08
0
5
10
15
20
25

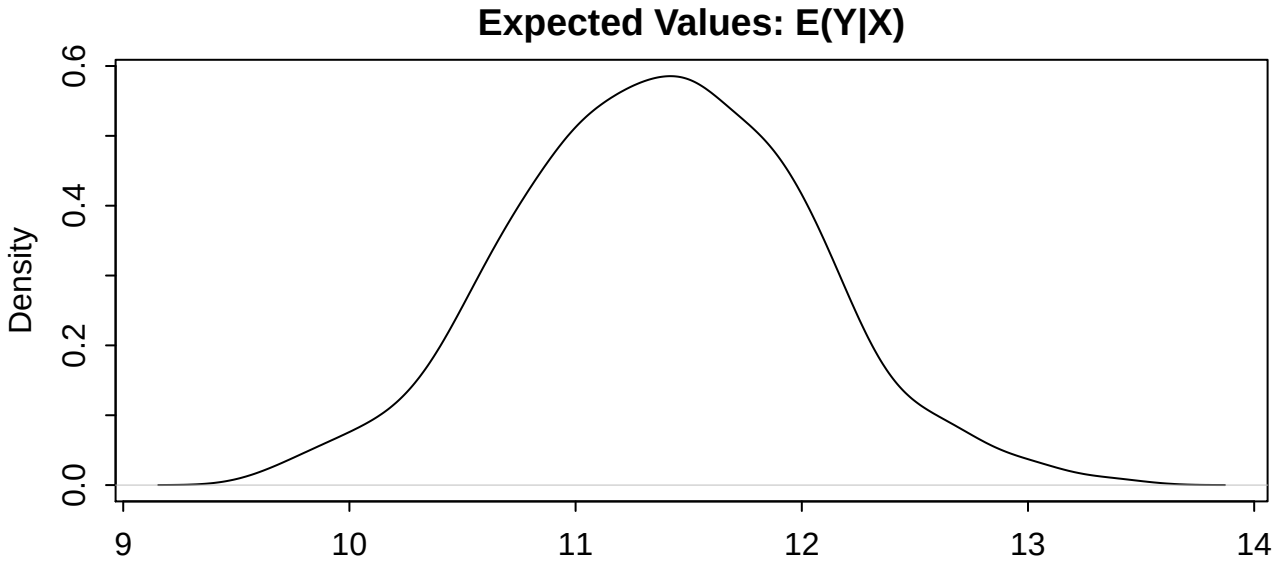

First Differences in Expected Values: E(Y|X1)−E(Y|X)
Density
0.0
0.5
1.0
1.5
2.0
2.5
−4.6
−4.4
−4.2
−4.0
−3.8
−3.6
−3.4
−3.2

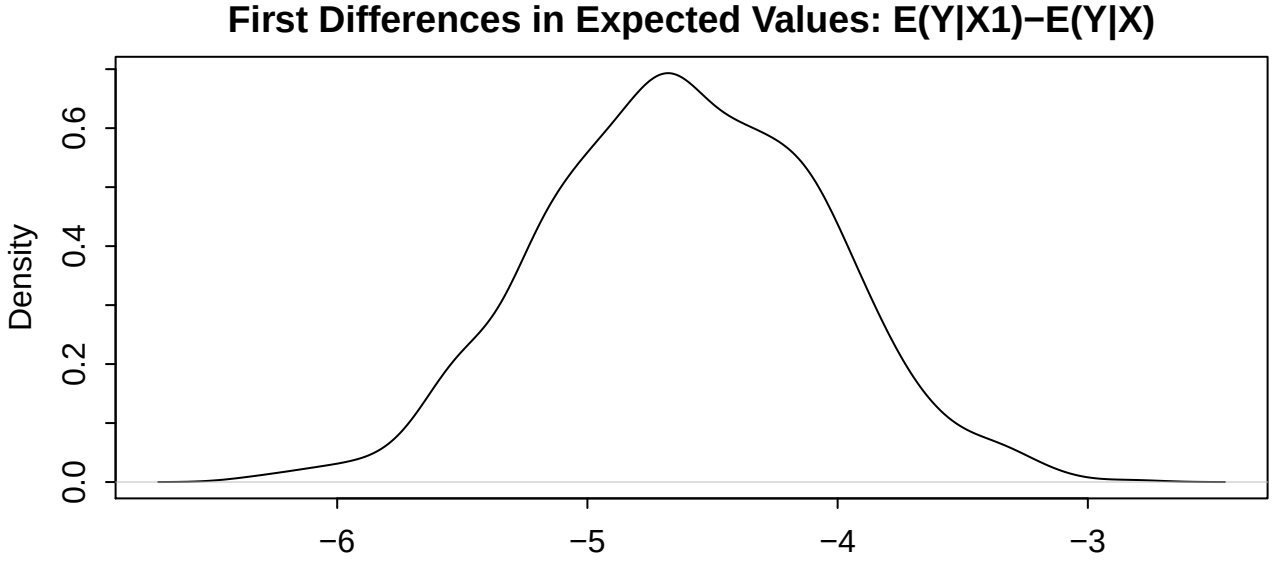

Expected Values: E(Y|X)
Density
0.000
0.004
0.008
9400
9450
9500
9550
9600
9650

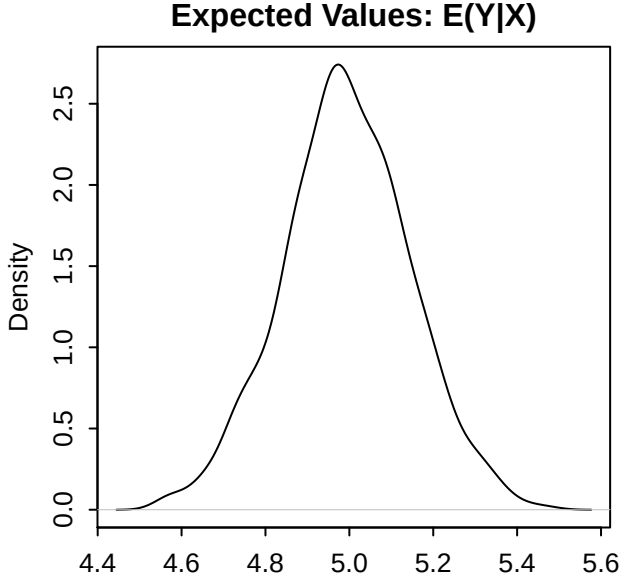

First Differences in Expected Values: E(Y|X1)−E(Y|X)
Density
0.000
0.002
0.004
600
700
800
900
1000
1100
1200

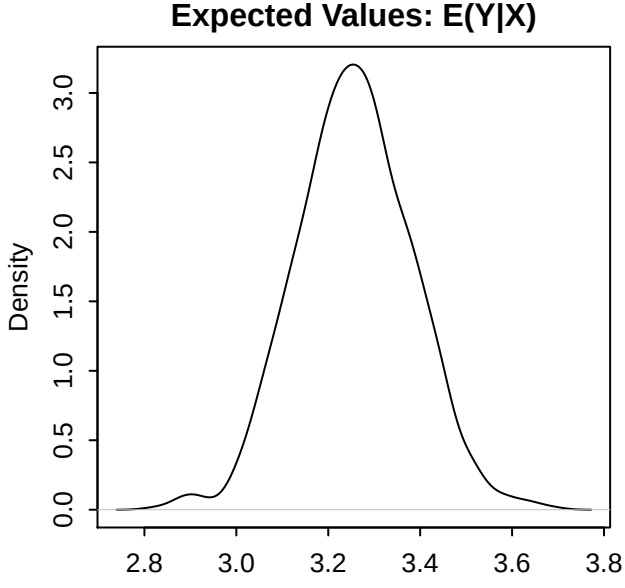

Expected Values: E(Y|X)
Density
0.0
0.5
1.0
1.5
2.0
5.0
5.5
6.0

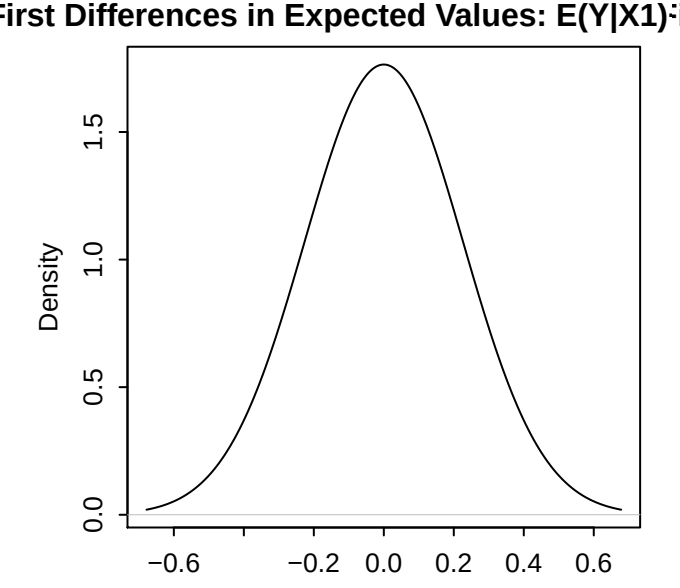

First Differences in Expected Values: E(Y|X1)−E(Y|X)
Density
0.0
0.5
1.0
1.5
−1.5
−1.0
−0.5
0.0

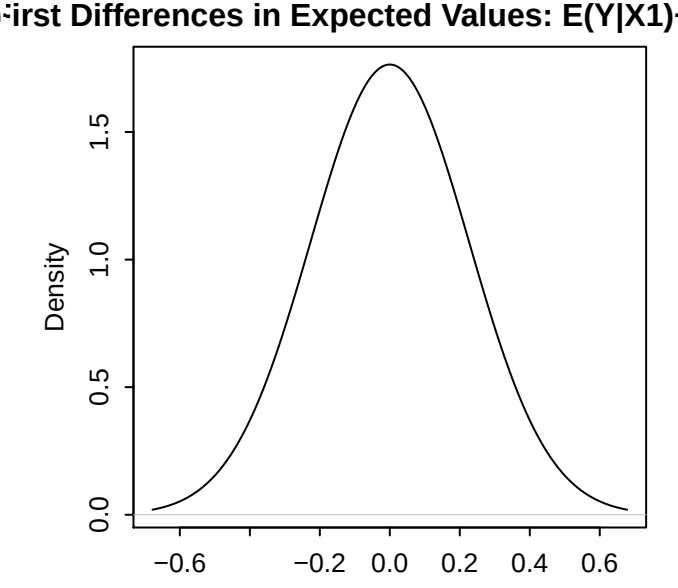

Expected Values: E(Y|X)
Density
0.0
0.2
0.4
0.6
9
10
11
12
13
14


First Differences in Expected Values: E(Y|X1)−E(Y|X)
Density
0.0
0.2
0.4
0.6
−6
−5
−4
−3

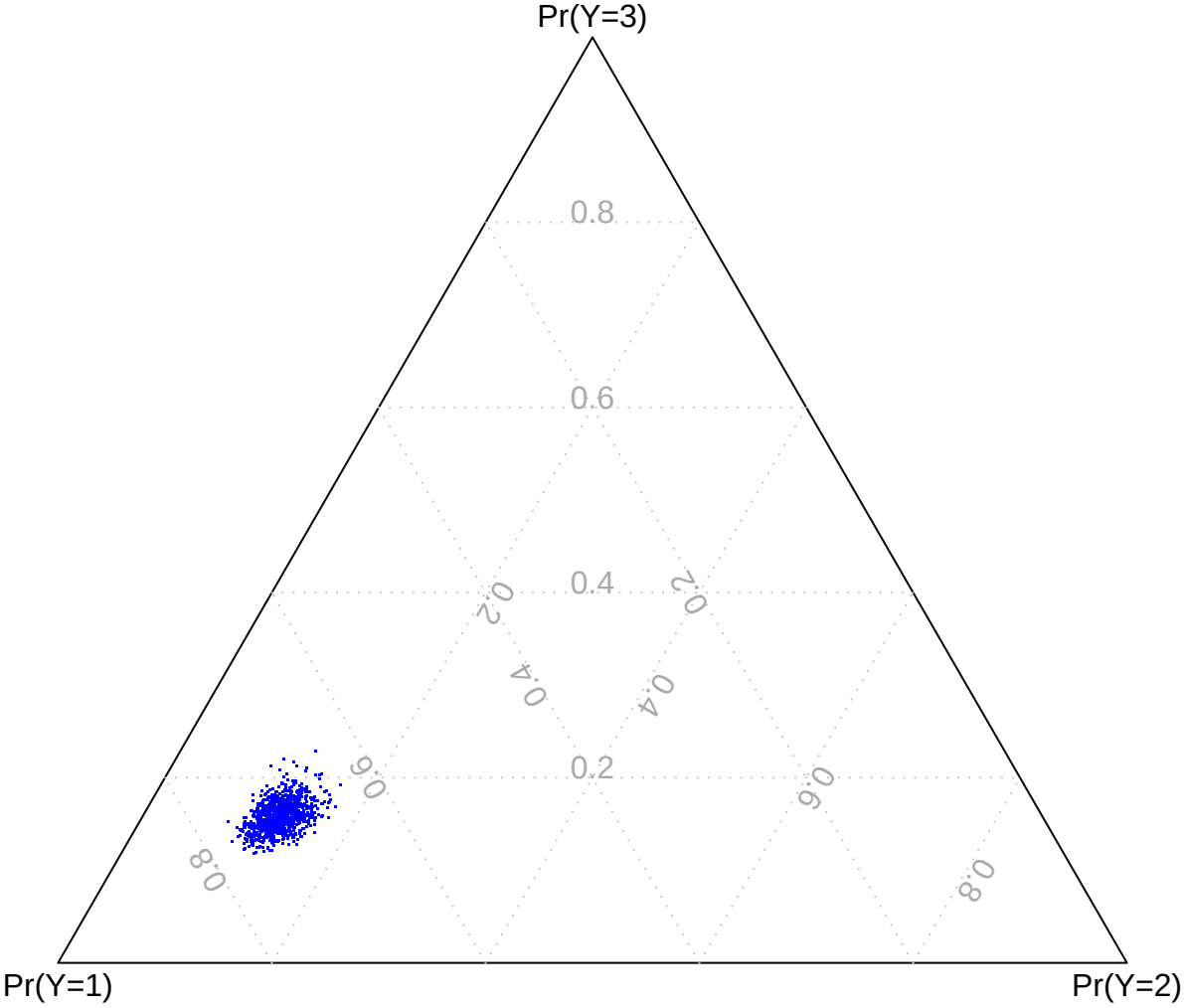

Expected Values: E(Y|X)
Density
0.0
0.5
1.0
1.5
2.0
2.5
4.4
4.6
4.8
5.0
5.2
5.4
5.6


Expected Values: E(Y|X)
Density
0.0
0.5
1.0
1.5
2.0
2.5
3.0
2.8
3.0
3.2
3.4
3.6
3.8

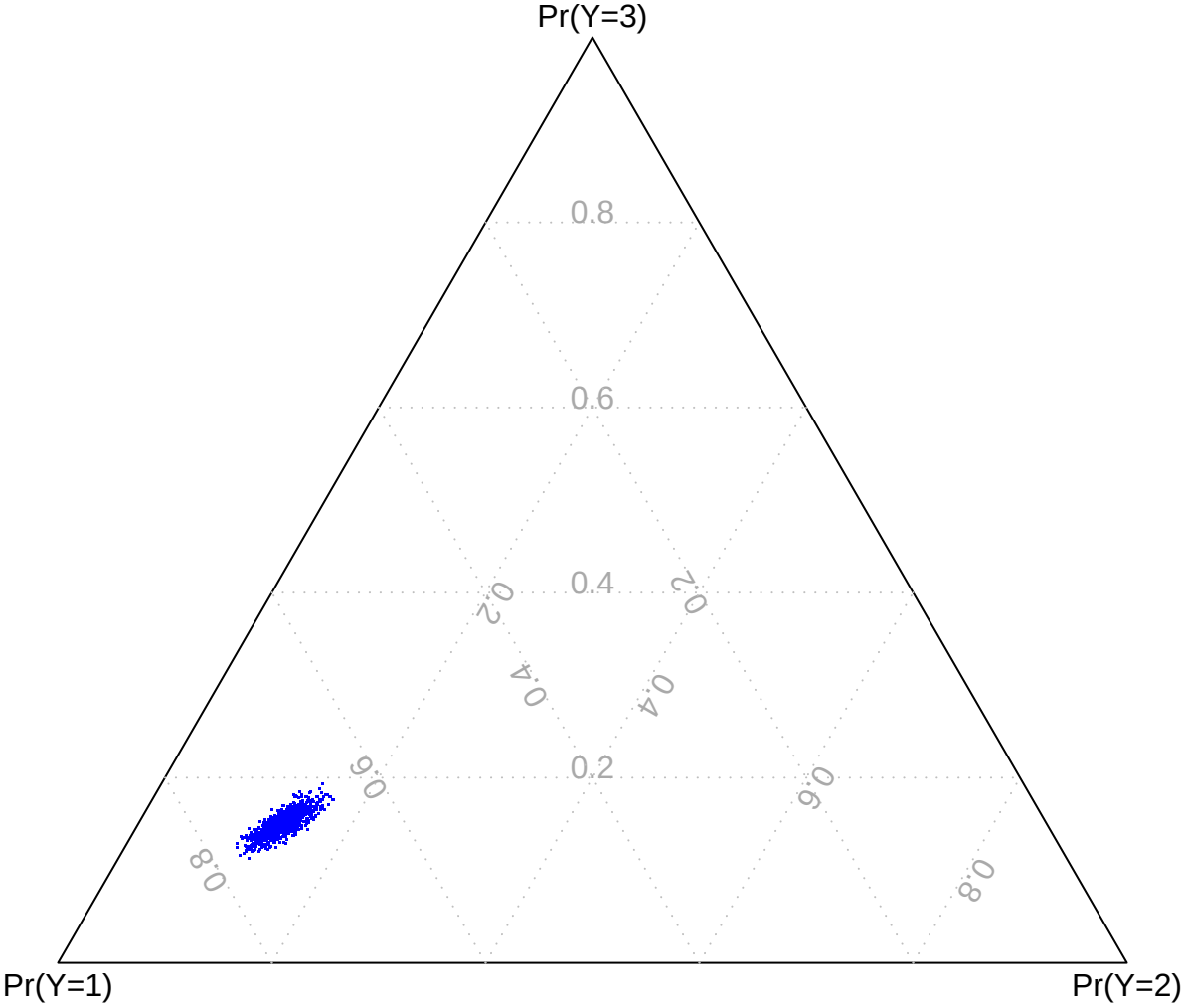

First Differences in Expected Values: E(Y|X1)
Density
0.0
0.5
1.0
1.5
−0.6
−0.2
0.0
0.2
0.4
0.6

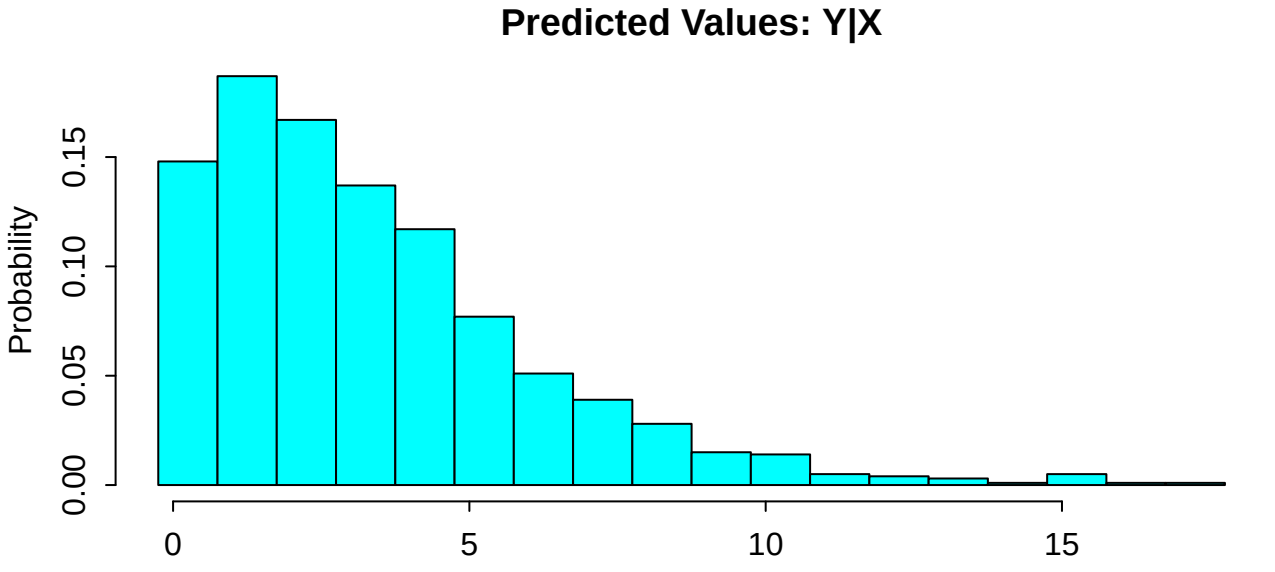

First Differences in Expected Values: E(Y|X1)
Density
0.0
0.5
1.0
1.5
−0.6
−0.2
0.0
0.2
0.4
0.6

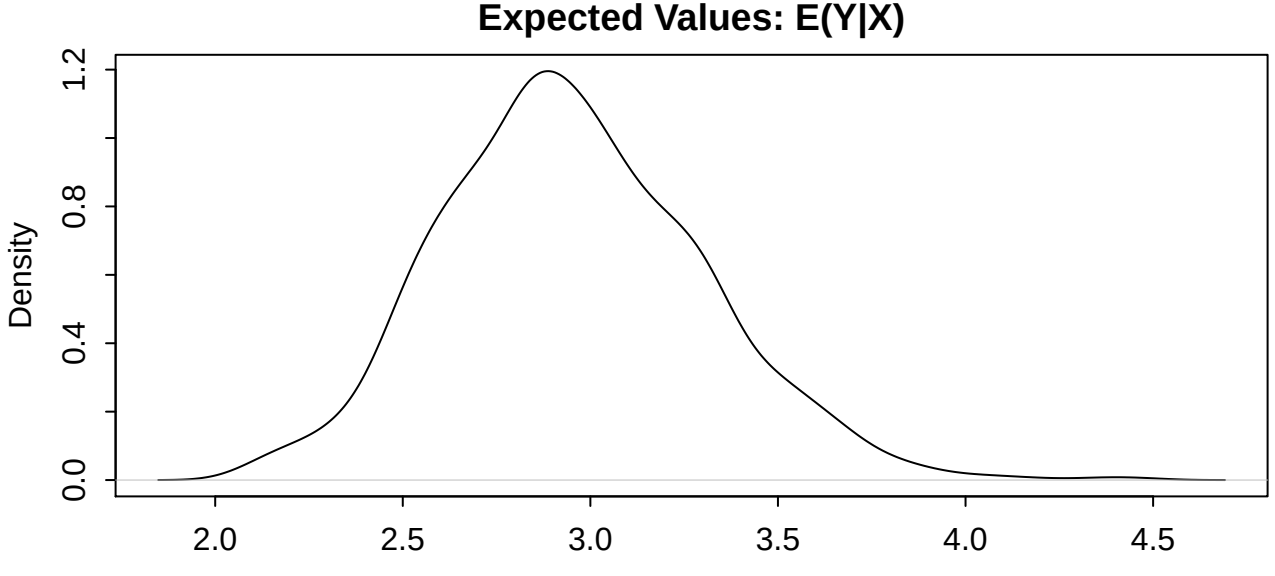
1988 Mexican Presidential Election

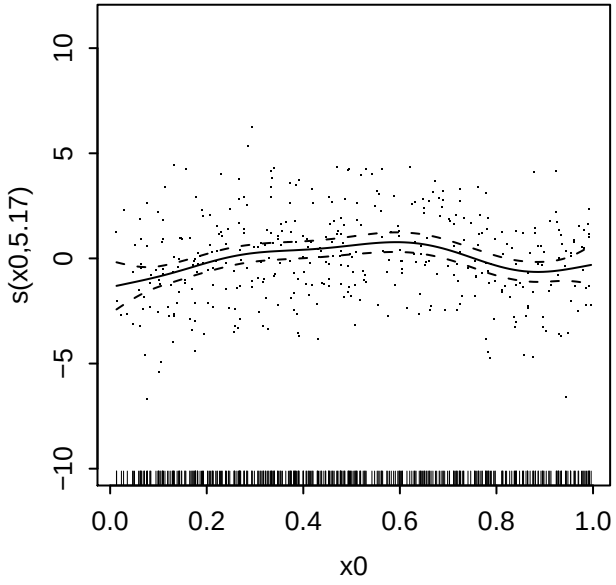


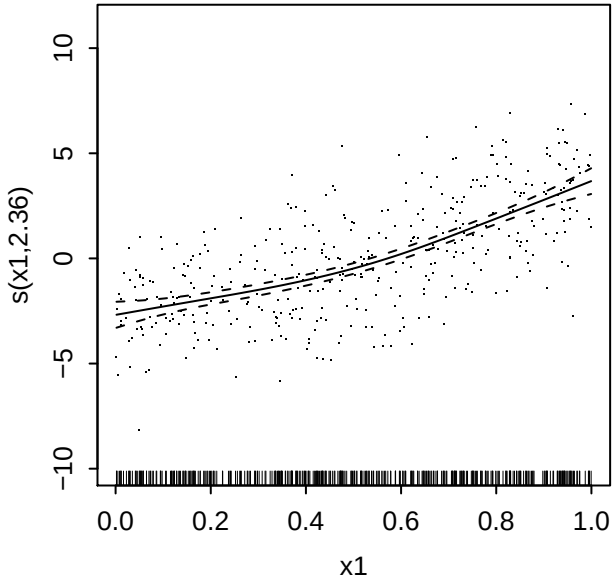
1988 Mexican Presidential Election

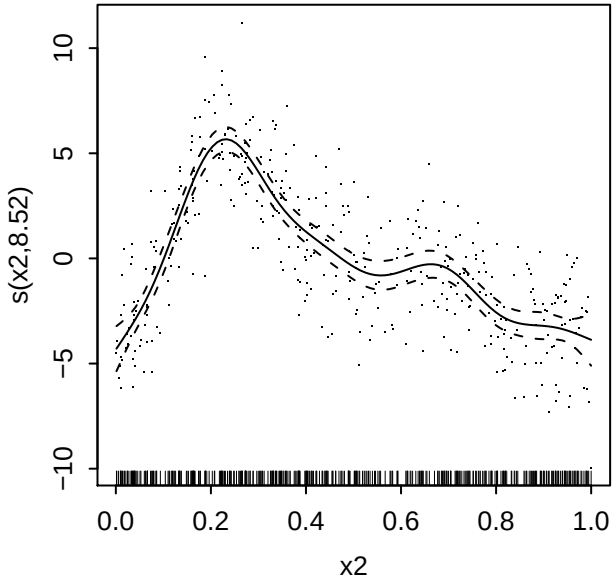


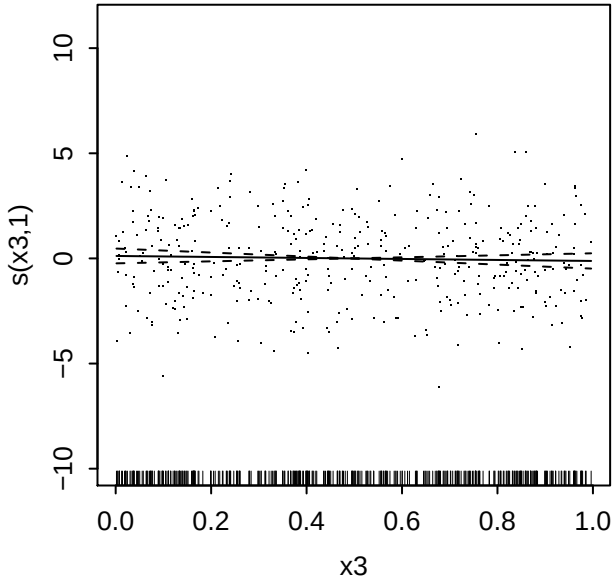

Predicted Values: Y|X
Probability
0.00
0.05
0.10
0.15
0
5
10
15

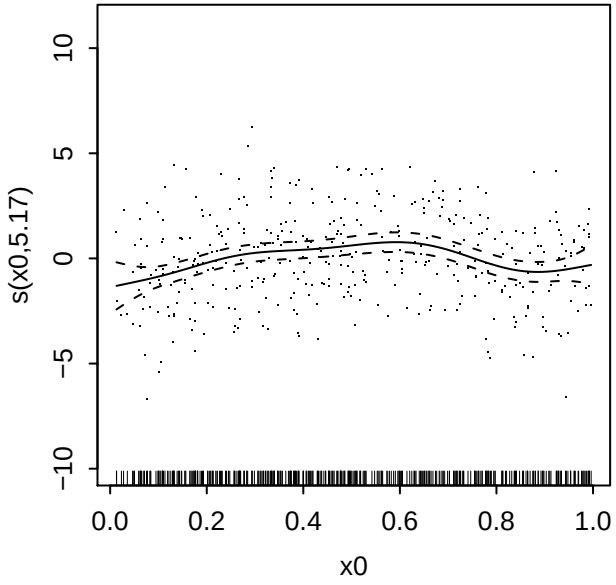

Expected Values: E(Y|X)
Density
0.0
0.4
0.8
1.2
2.0
2.5
3.0
3.5
4.0
4.5

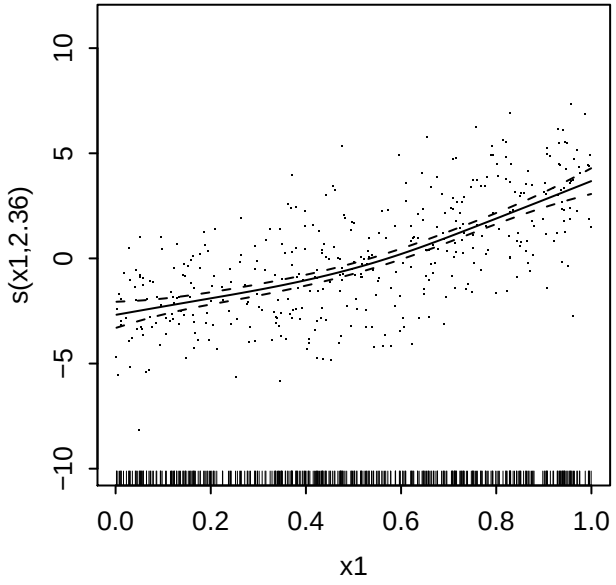

s(x0,5.17)
10
5
0
−5
−10
0.0
0.2
0.4
0.6
0.8
1.0
x0

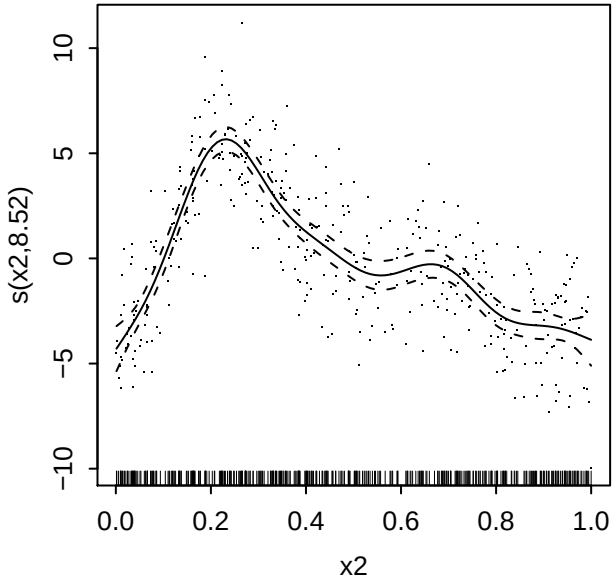

s(x1,2.36)
10
5
0
−5
−10
0.0
0.2
0.4
0.6
0.8
1.0
x1

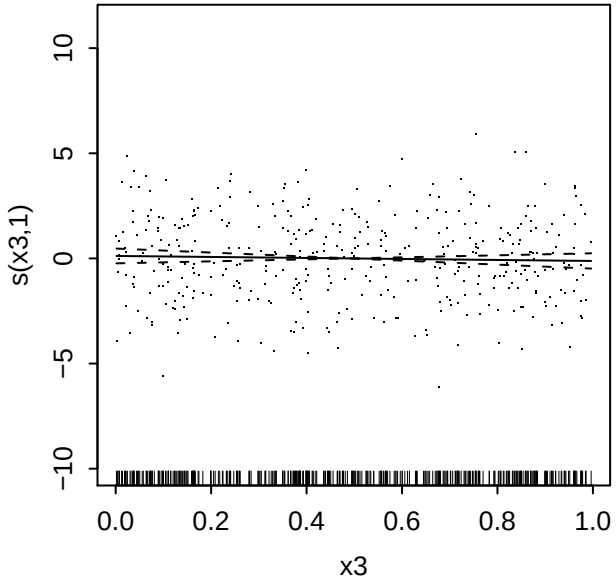

s(x2,8.52)
10
5
0
−5
−10
0.0
0.2
0.4
0.6
0.8
1.0
x2

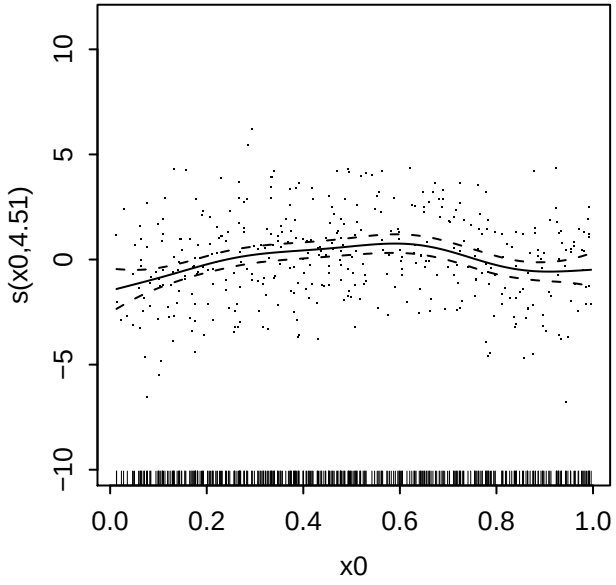

s(x3,1)
10
5
0
−5
−10
0.0
0.2
0.4
0.6
0.8
1.0
x3

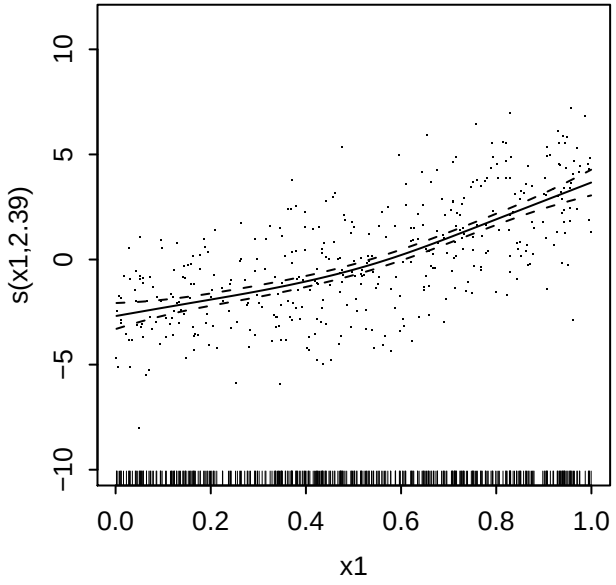

s(x0,5.17)
10
5
0
−5
−10
0.0
0.2
0.4
0.6
0.8
1.0
x0

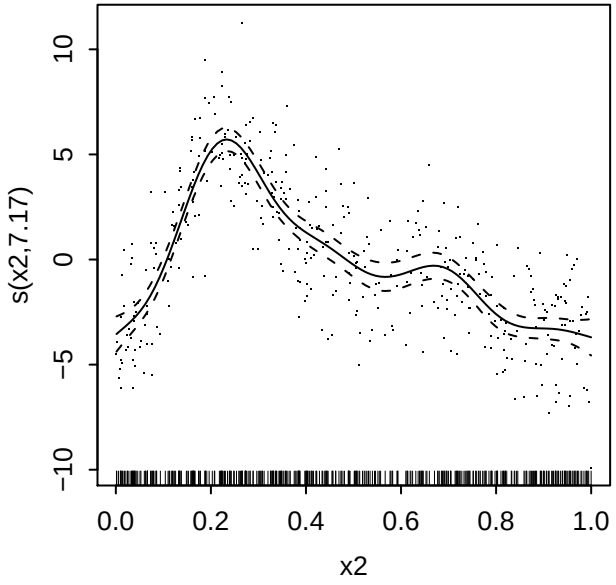

s(x1,2.36)
10
5
0
−5
−10
0.0
0.2
0.4
0.6
0.8
1.0
x1

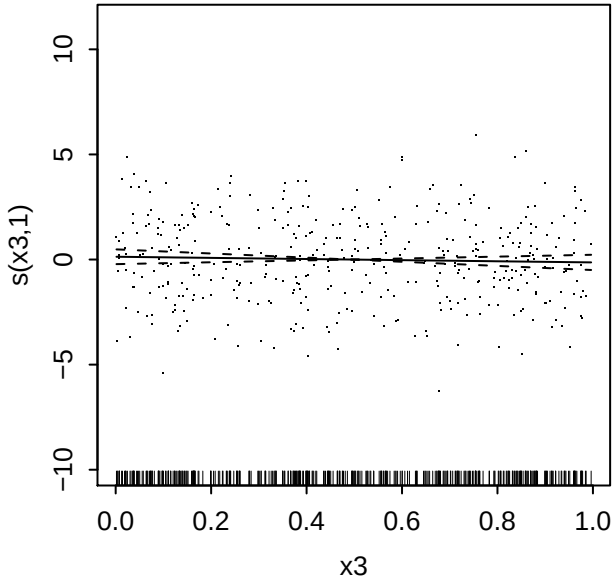

s(x2,8.52)
10
5
0
−5
−10
0.0
0.2
0.4
0.6
0.8
1.0
x2

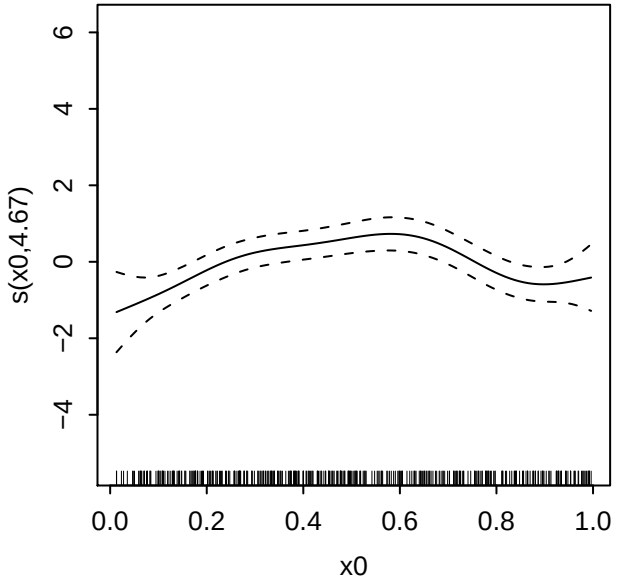

s(x3,1)
10
5
0
−5
−10
0.0
0.2
0.4
0.6
0.8
1.0
x3

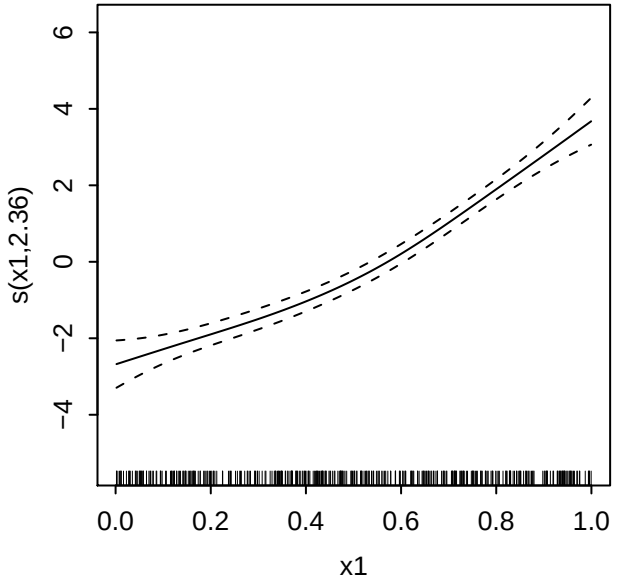

s(x0,4.51)
10
5
0
−5
−10
0.0
0.2
0.4
0.6
0.8
1.0
x0

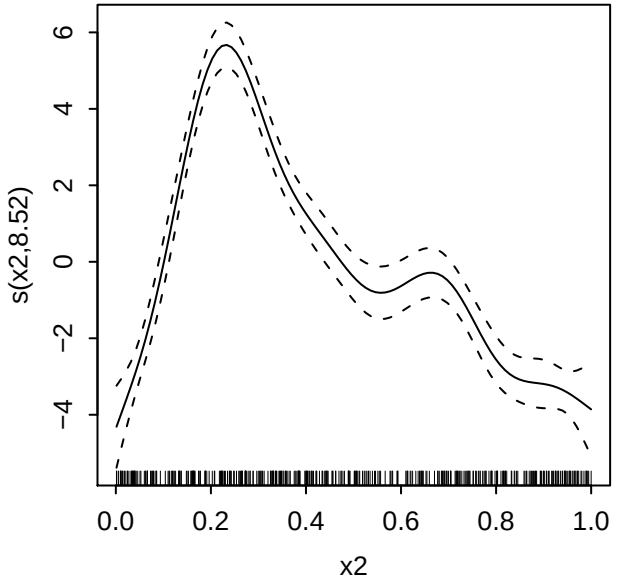

s(x1,2.39)
10
5
0
−5
−10
0.0
0.2
0.4
0.6
0.8
1.0
x1

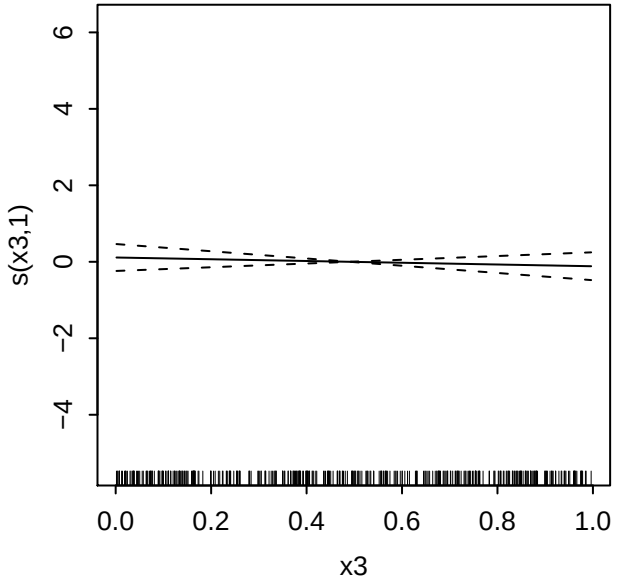

s(x2,7.17)
10
5
0
−5
−10
0.0
0.2
0.4
0.6
0.8
1.0
x2

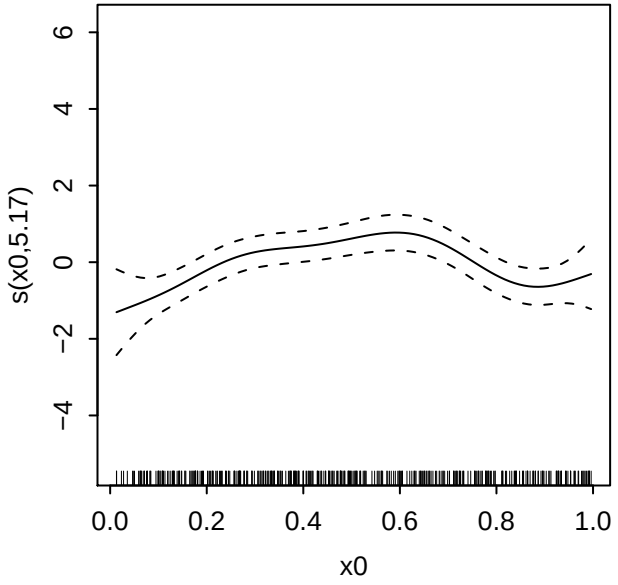

s(x3,1)
10
5
0
−5
−10
0.0
0.2
0.4
0.6
0.8
1.0
x3

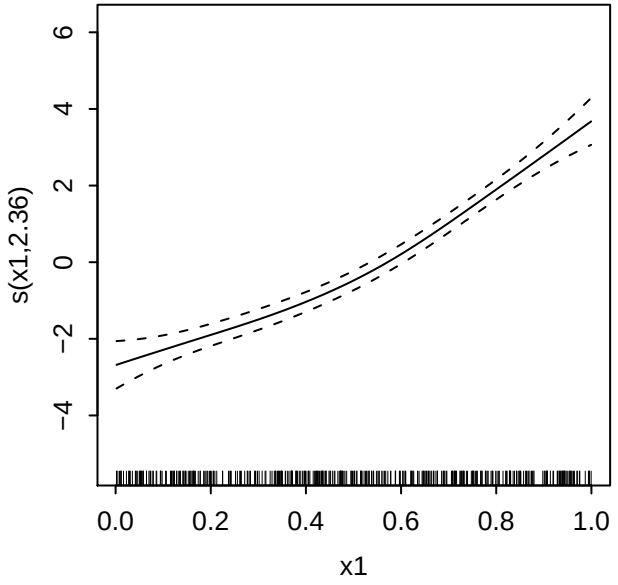

s(x0,4.67)
6
4
2
0
−2
−4
0.0
0.2
0.4
0.6
0.8
1.0
x0

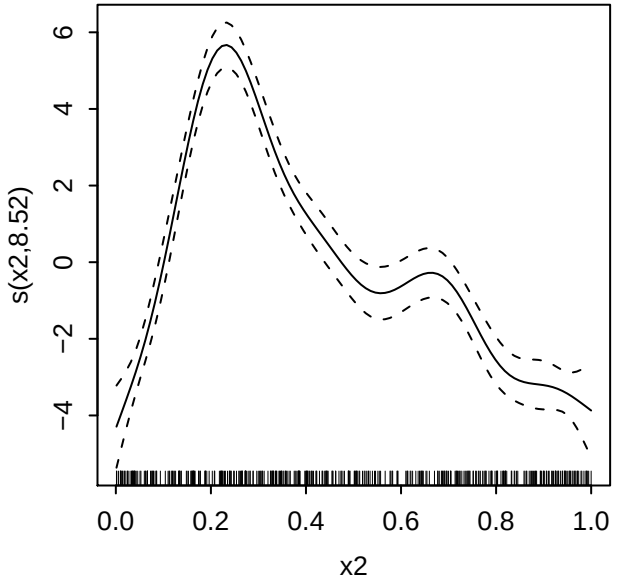

s(x1,2.36)
6
4
2
0
−2
−4
0.0
0.2
0.4
0.6
0.8
1.0
x1

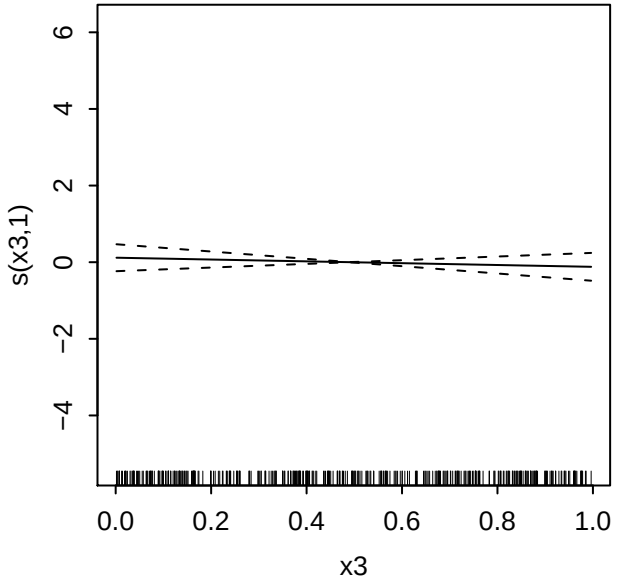

s(x2,8.52)
6
4
2
0
−2
−4
0.0
0.2
0.4
0.6
0.8
1.0
x2

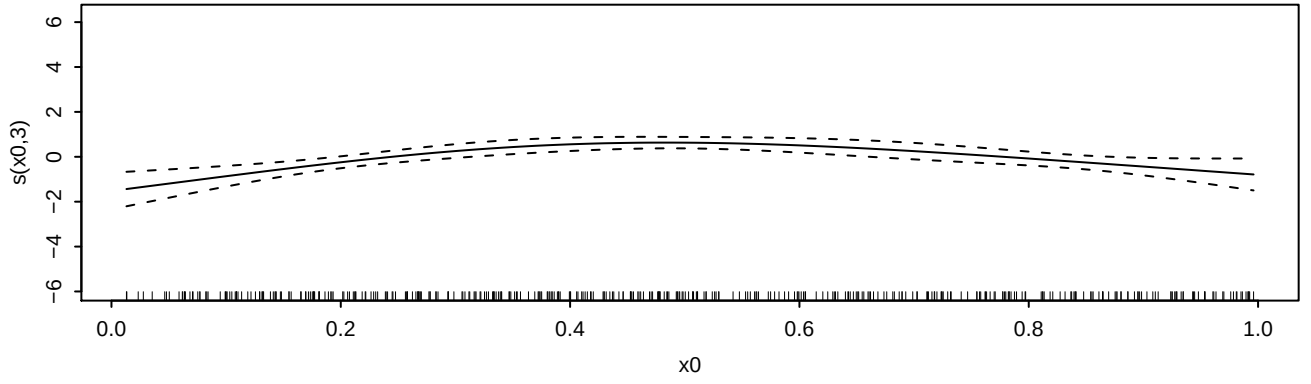

s(x3,1)
6
4
2
0
−2
−4
0.0
0.2
0.4
0.6
0.8
1.0
x3

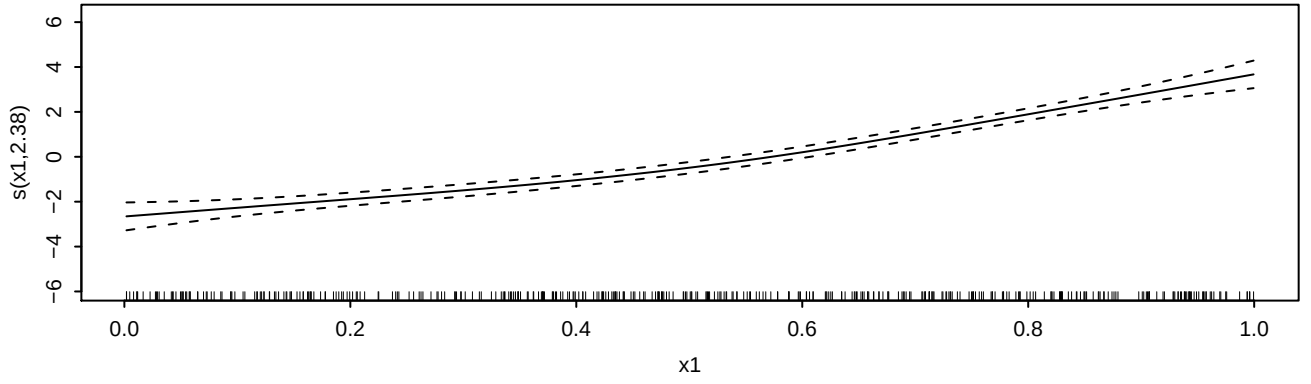

s(x0,5.17)
6
4
2
0
−2
−4
0.0
0.2
0.4
0.6
0.8
1.0
x0

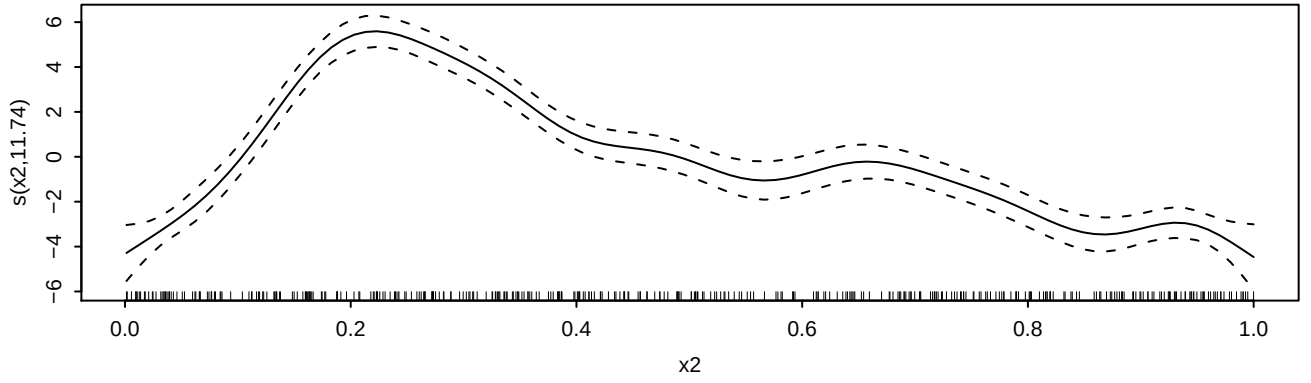

s(x1,2.36)
6
4
2
0
−2
−4
0.0
0.2
0.4
0.6
0.8
1.0
x1

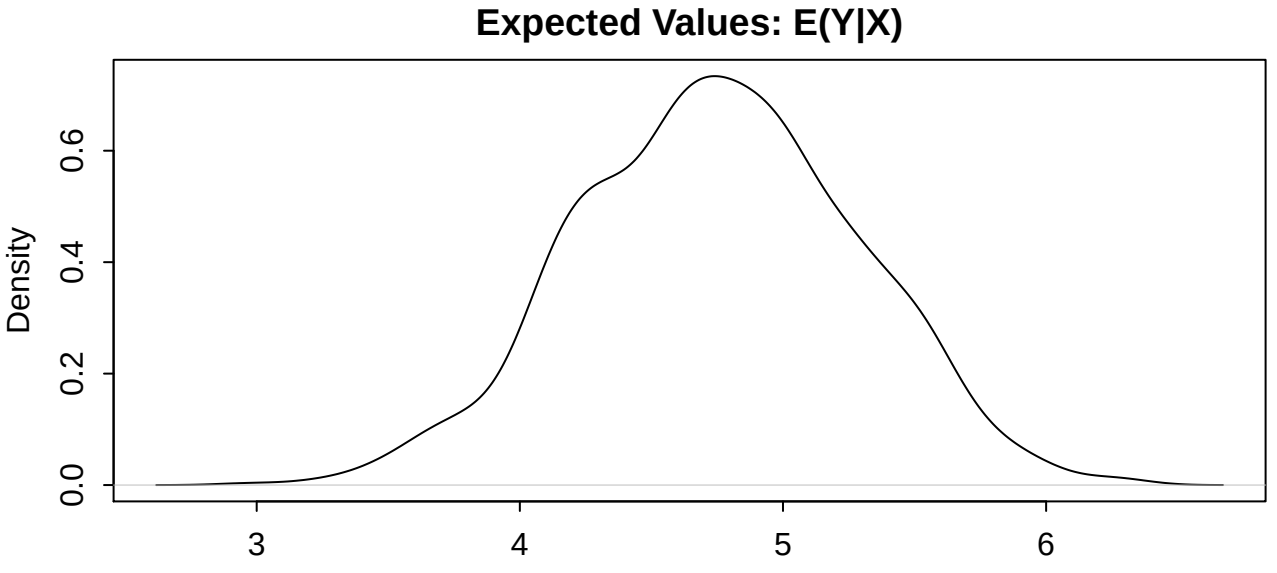

s(x2,8.52)
6
4
2
0
−2
−4
0.0
0.2
0.4
0.6
0.8
1.0
x2

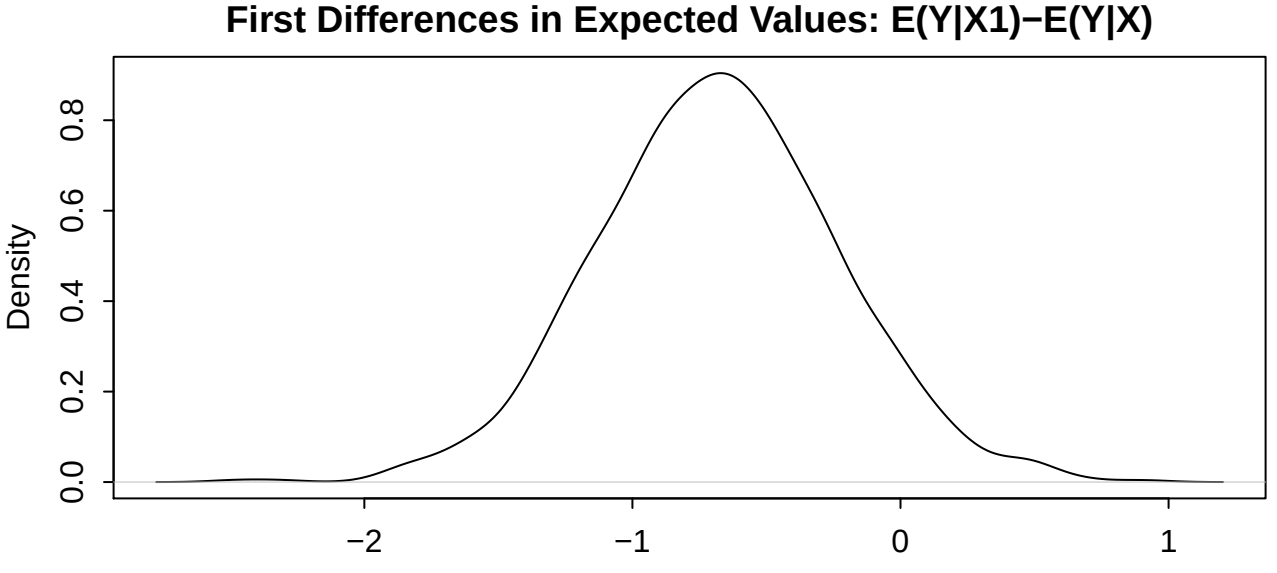

s(x3,1)
6
4
2
0
−2
−4
0.0
0.2
0.4
0.6
0.8
1.0
x3

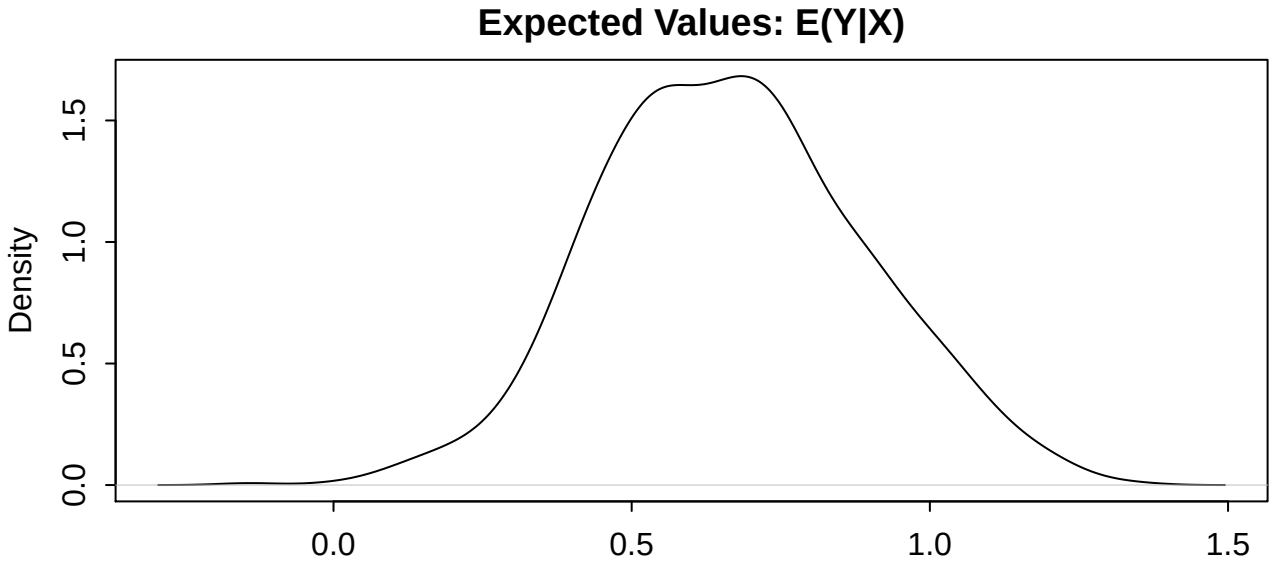

s(x0,3)
6
4
2
0
−2
−4
−6
0.0
0.2
0.4
0.6
0.8
1.0
x0

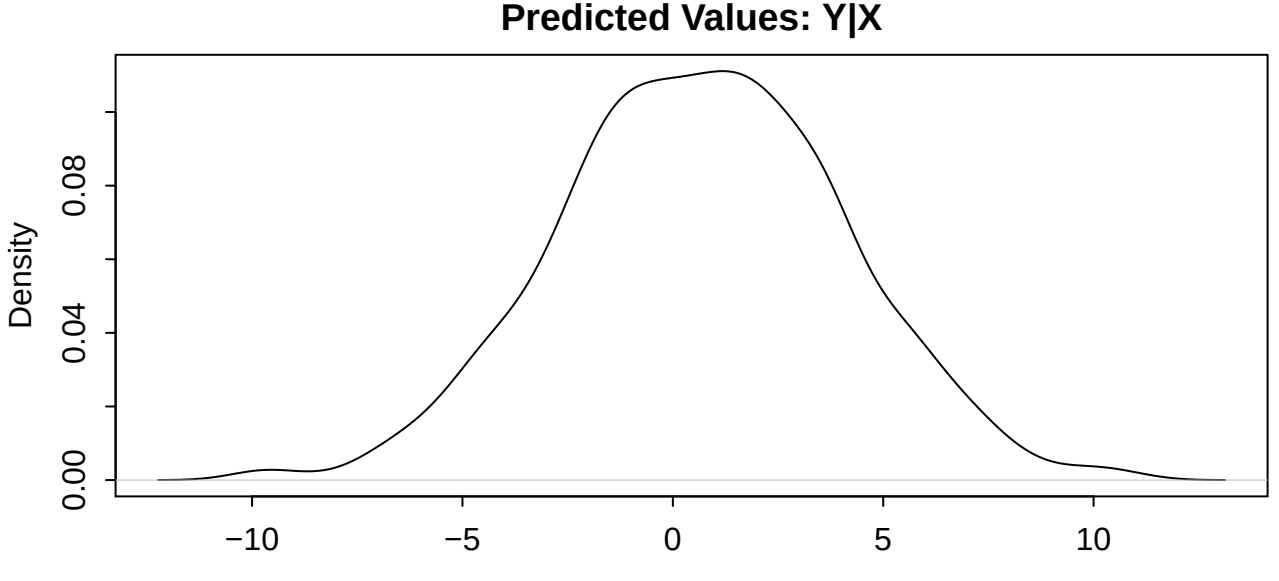

s(x1,2.38)
6
4
2
0
−2
−4
−6
0.0
0.2
0.4
0.6
0.8
1.0
x1

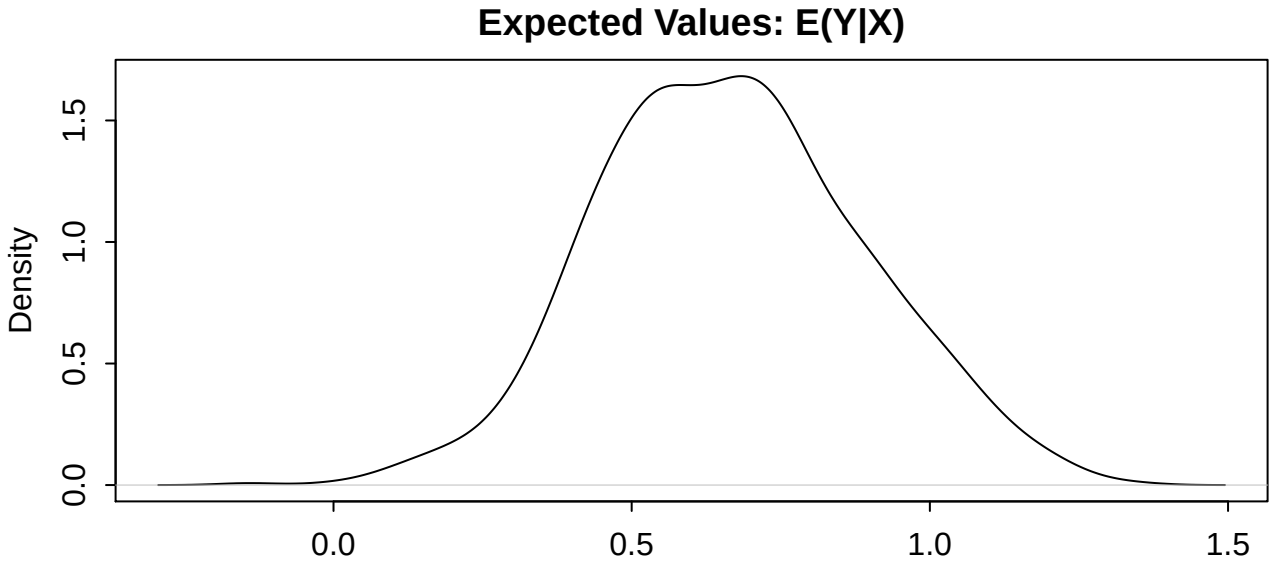

s(x2,11.74)
6
4
2
0
−2
−4
−6
0.0
0.2
0.4
0.6
0.8
1.0
x2

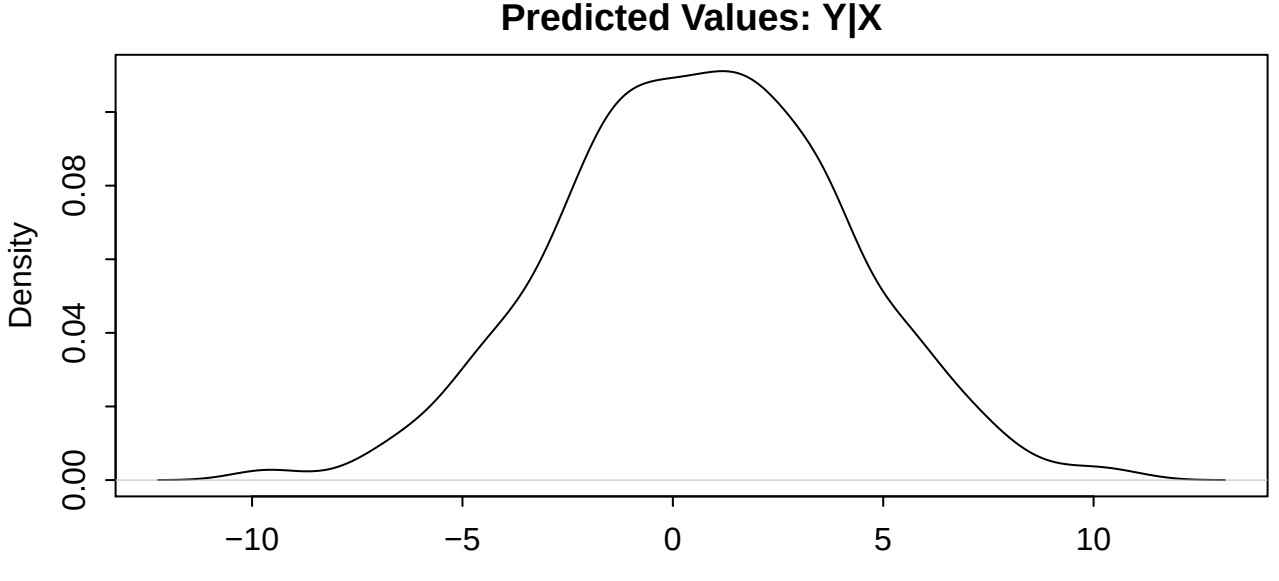

Expected Values: E(Y|X)
Density
0.0
0.2
0.4
0.6
3
4
5
6

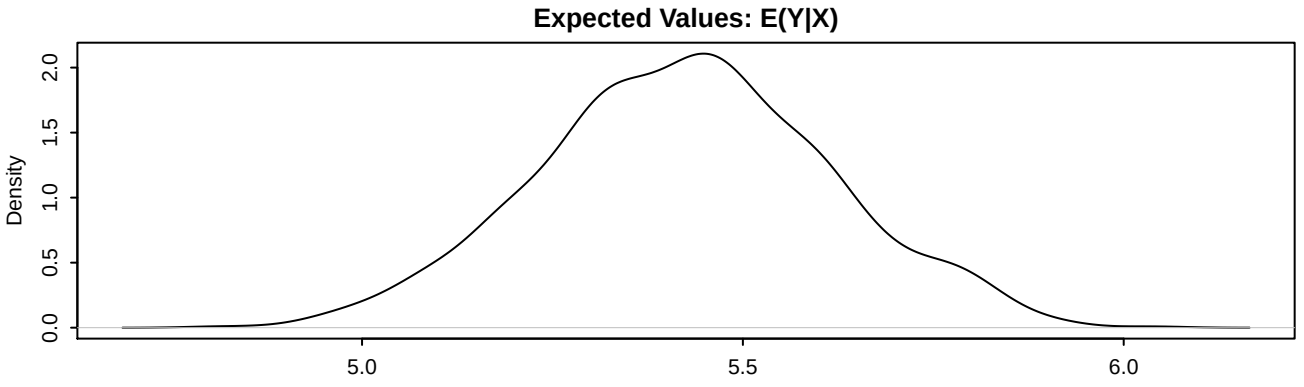

First Differences in Expected Values: E(Y|X1)−E(Y|X)
Density
0.0
0.2
0.4
0.6
0.8
−2
−1
0
1

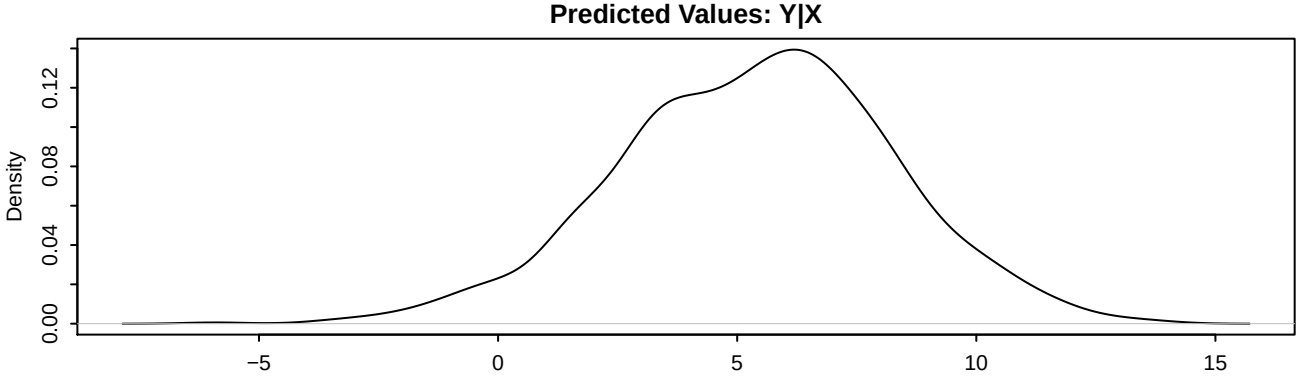

Expected Values: E(Y|X)
Density
0.0
0.5
1.0
1.5
0.0
0.5
1.0
1.5

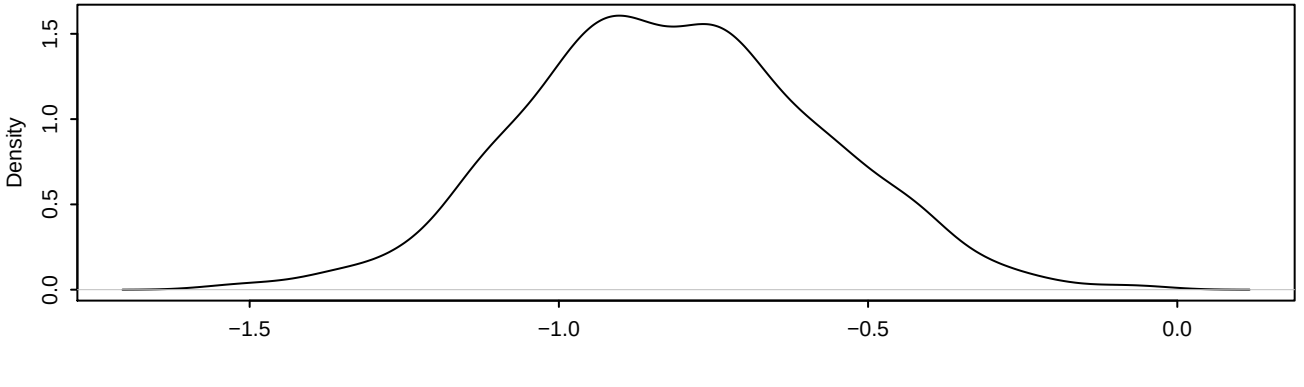

Predicted Values: Y|X
Density
0.00
0.04
0.08
−10
−5
0
5
10

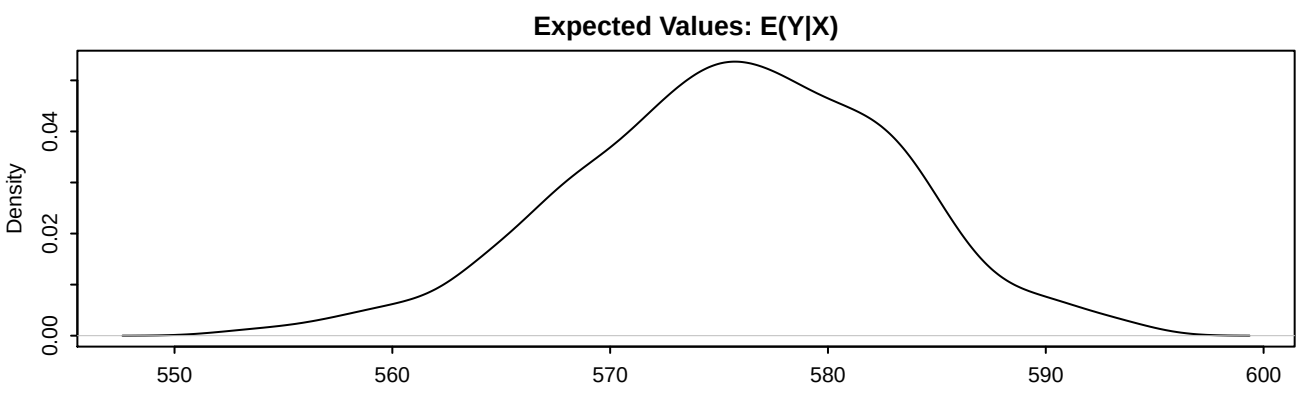

Expected Values: E(Y|X)
Density
0.0
0.5
1.0
1.5
0.0
0.5
1.0
1.5

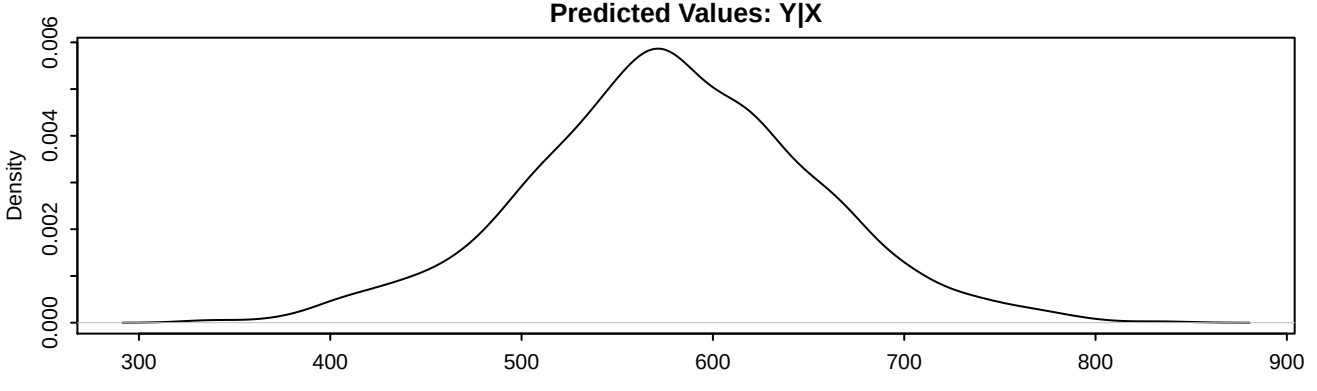

Predicted Values: Y|X
Density
0.00
0.04
0.08
−10
−5
0
5
10

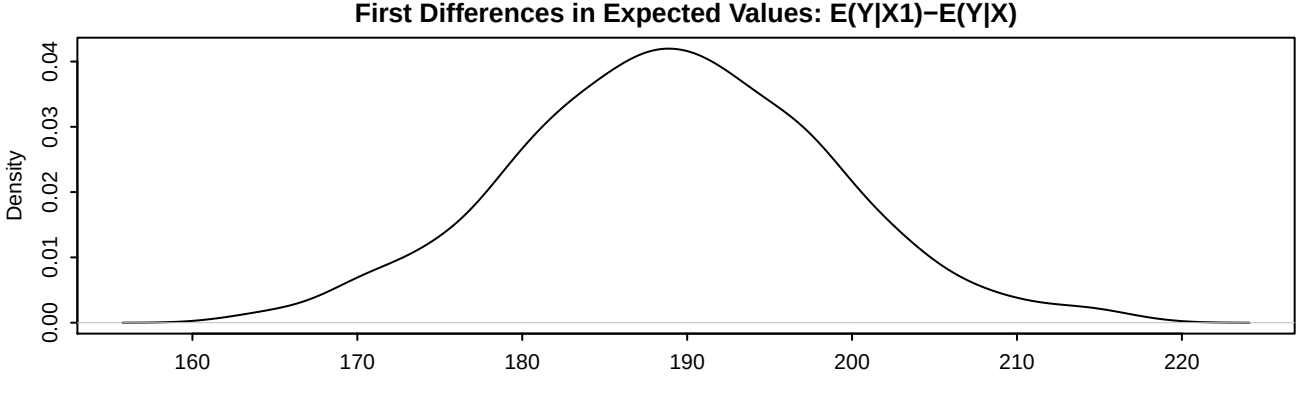

Expected Values: E(Y|X)
Density
0.0
0.5
1.0
1.5
2.0
5.0
5.5
6.0

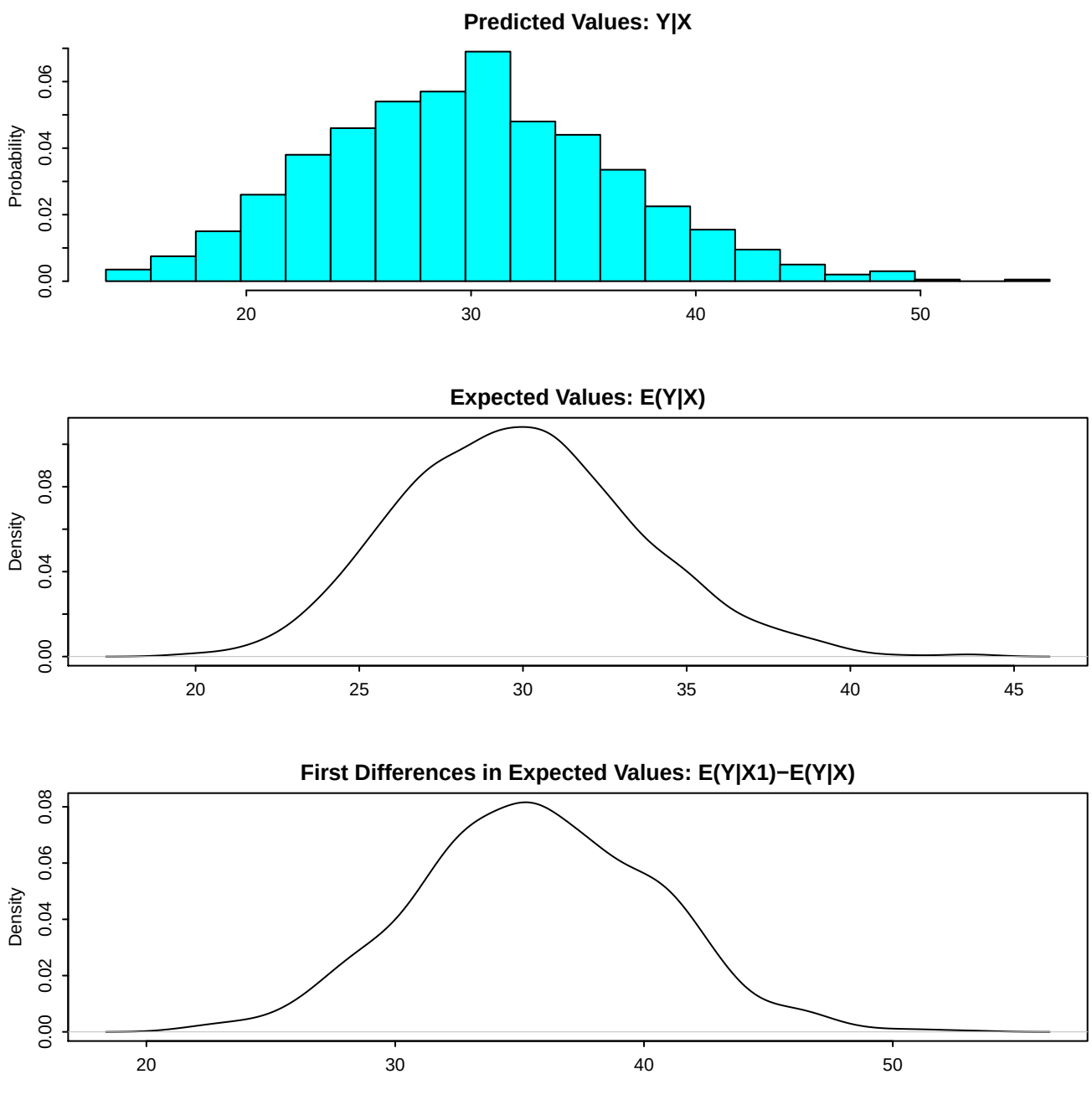

Predicted Values: Y|X
Density
0.00
0.04
0.08
0.12
−5
0
5
10
15

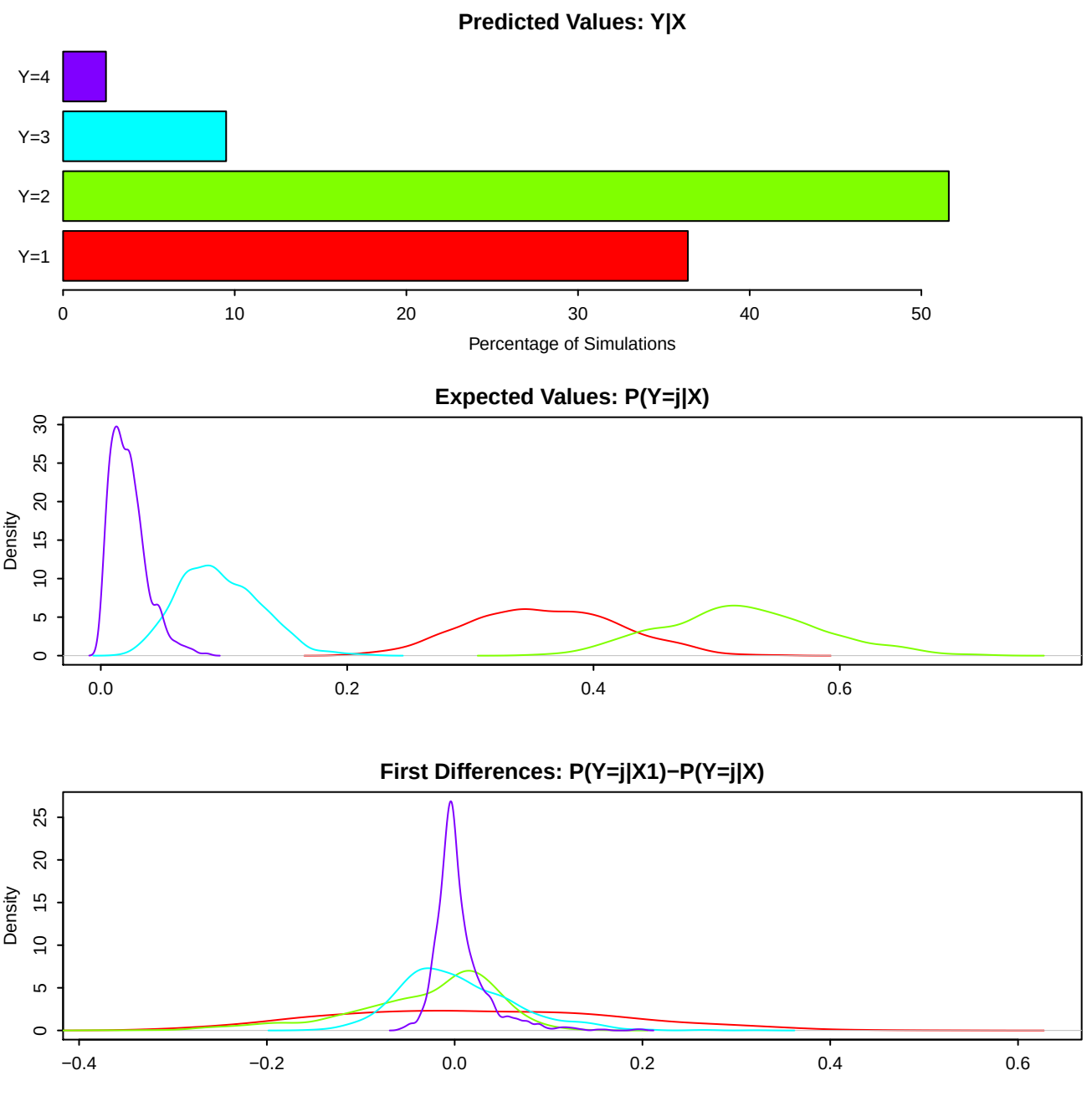

First Differences in Expected Values: E(Y|X1)−E(Y|X)
Density
0.0
0.5
1.0
1.5
−1.5
−1.0
−0.5
0.0

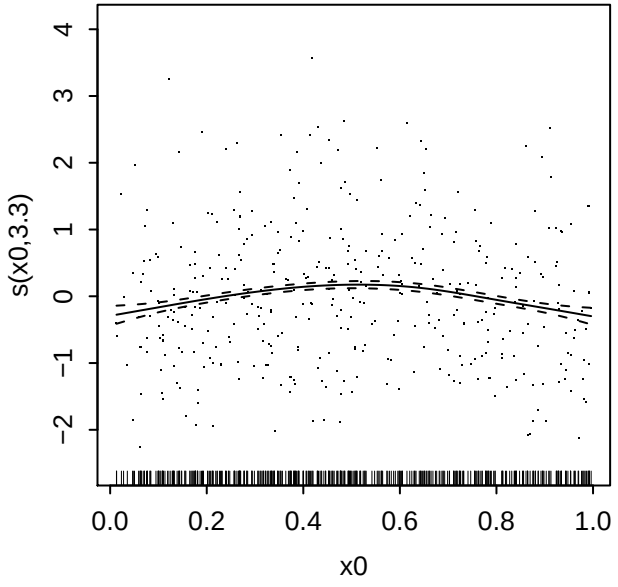

Expected Values: E(Y|X)
Density
0.00
0.02
0.04
550
560
570
580
590
600

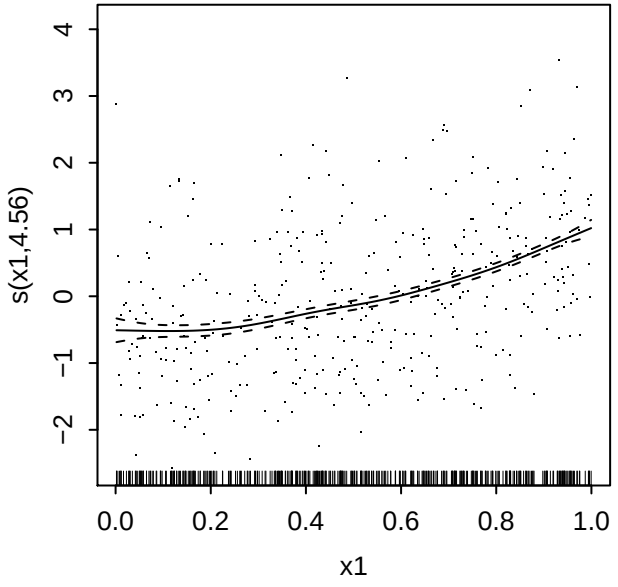

Predicted Values: Y|X
Density
0.000
0.002
0.004
0.006
300
400
500
600
700
800
900

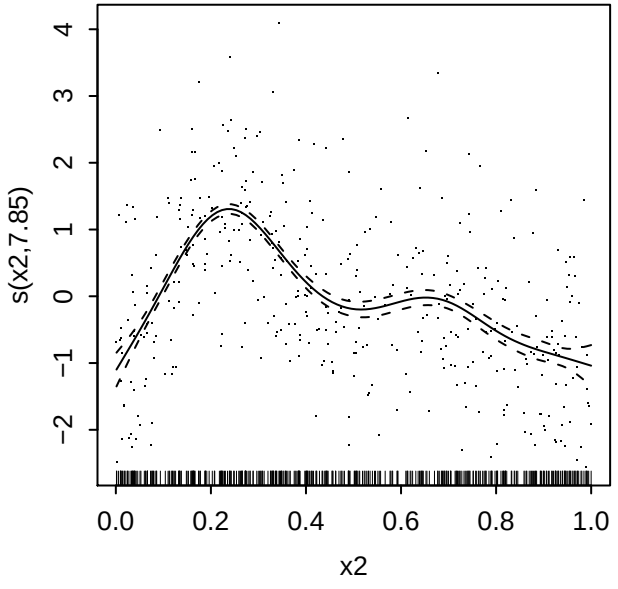

First Differences in Expected Values: E(Y|X1)−E(Y|X)
Density
0.00
0.01
0.02
0.03
0.04
160
170
180
190
200
210
220

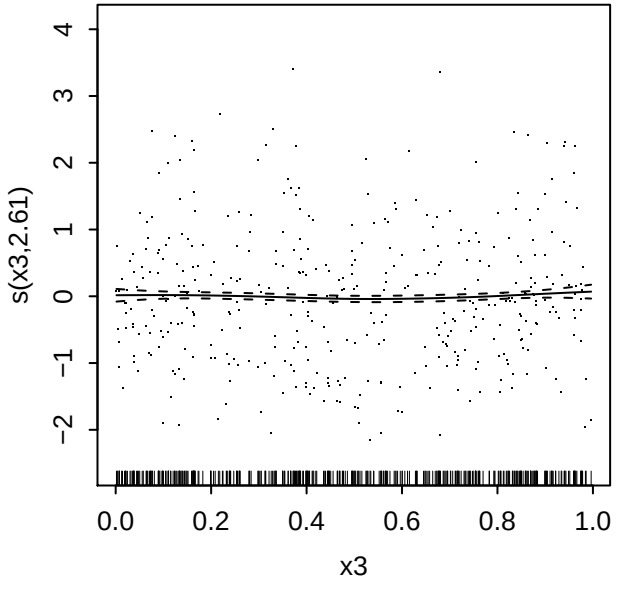

Predicted Values: Y|X
Probability
0.00
0.02
0.04
0.06
20
30
40
50
Expected Values: E(Y|X)
Density
0.00
0.04
0.08
20
25
30
35
40
45
First Differences in Expected Values: E(Y|X1)−E(Y|X)
Density
0.00
0.02
0.04
0.06
0.08
20
30
40
50

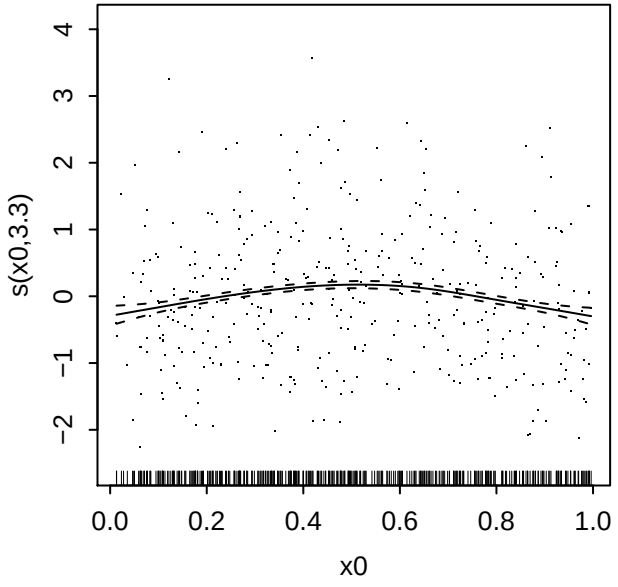

Predicted Values: Y|X
Y=4
Y=3
Y=2
Y=1
0
10
20
30
40
50
Percentage of Simulations
Expected Values: P(Y=j|X)
Density
0
5
10
15
20
25
30
0.0
0.2
0.4
0.6
First Differences: P(Y=j|X1)−P(Y=j|X)
Density
0
5
10
15
20
25
−0.4
−0.2
0.0
0.2
0.4
0.6

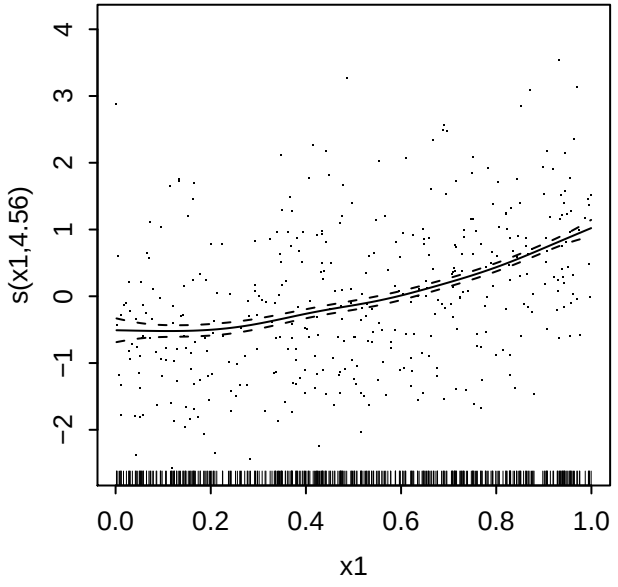

s(x0,3.3)
x0
0.0
0.2
0.4
0.6
0.8
1.0
−2
−1
0
1
2
3
4

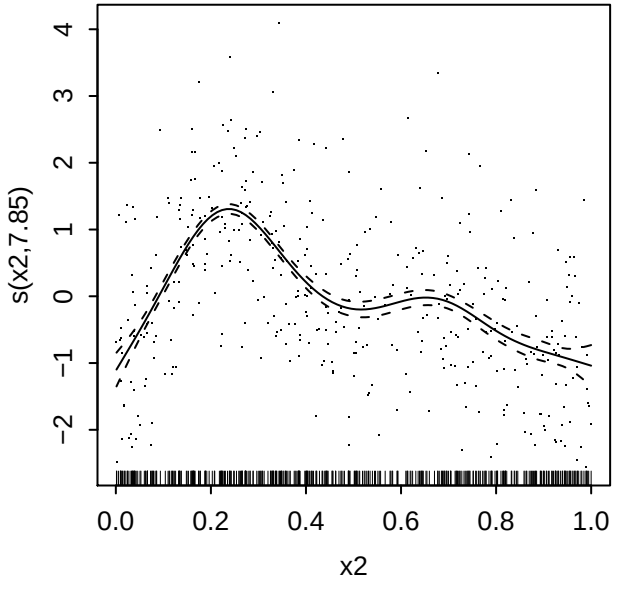

s(x1,4.56)
x1
0.0
0.2
0.4
0.6
0.8
1.0
−2
−1
0
1
2
3
4

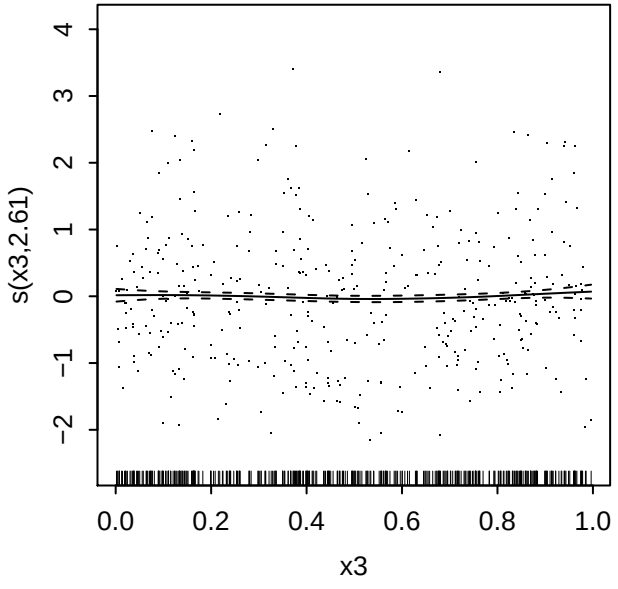

s(x2,7.85)
x2
0.0
0.2
0.4
0.6
0.8
1.0
−2
−1
0
1
2
3
4

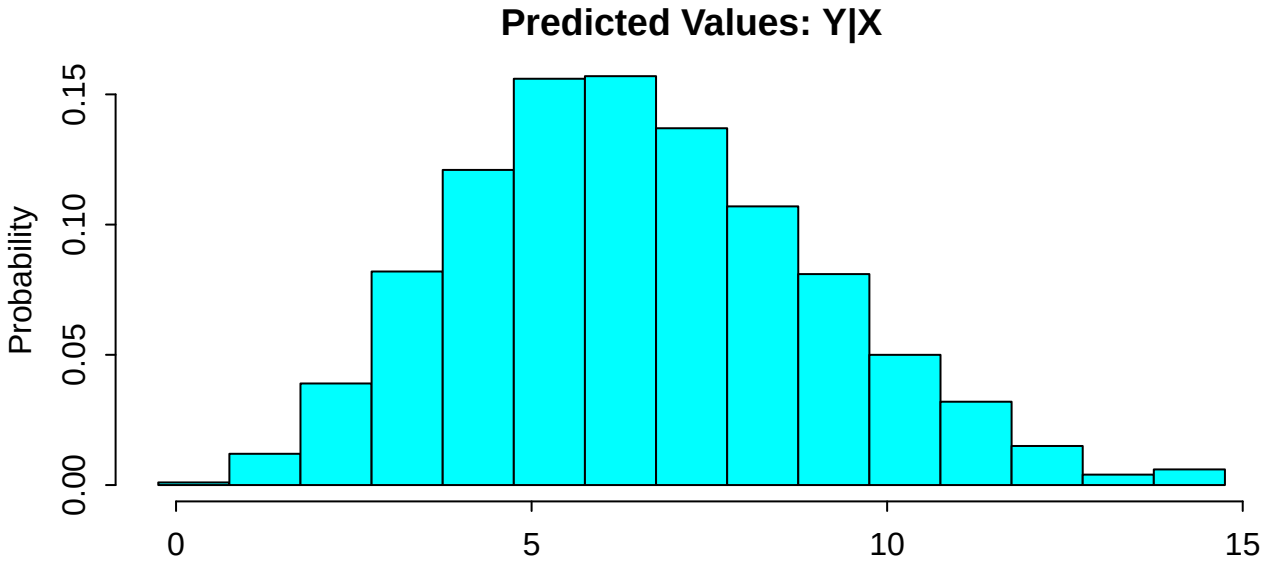

s(x3,2.61)
x3
0.0
0.2
0.4
0.6
0.8
1.0
−2
−1
0
1
2
3
4

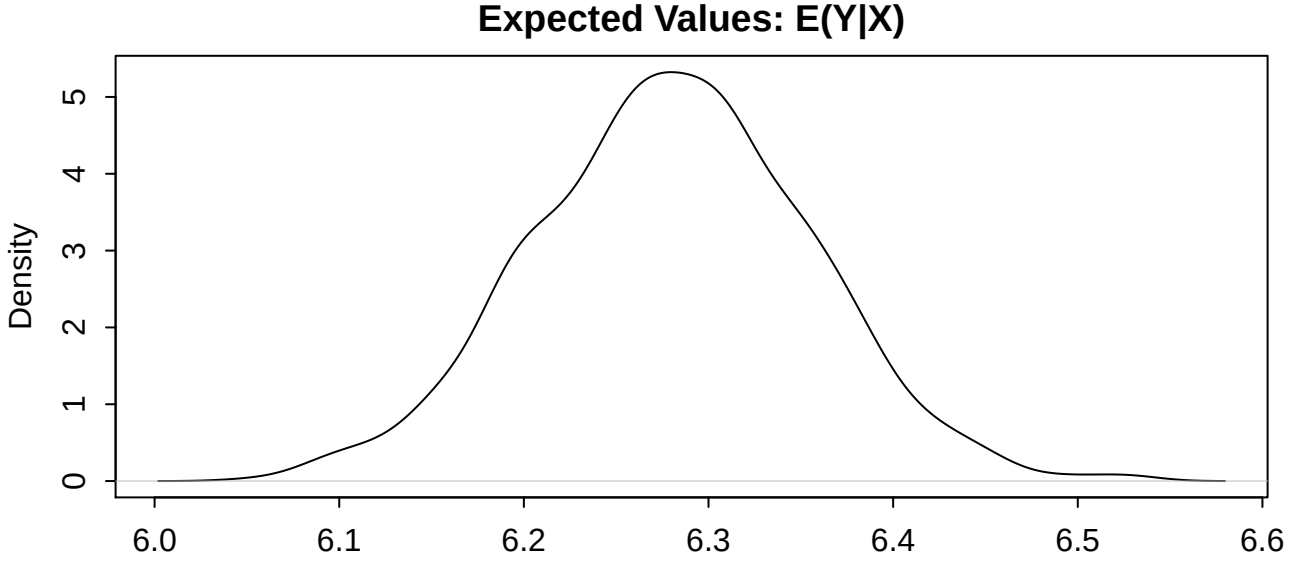

s(x0,3.3)
x0
0.0
0.2
0.4
0.6
0.8
1.0
−2
−1
0
1
2
3
4

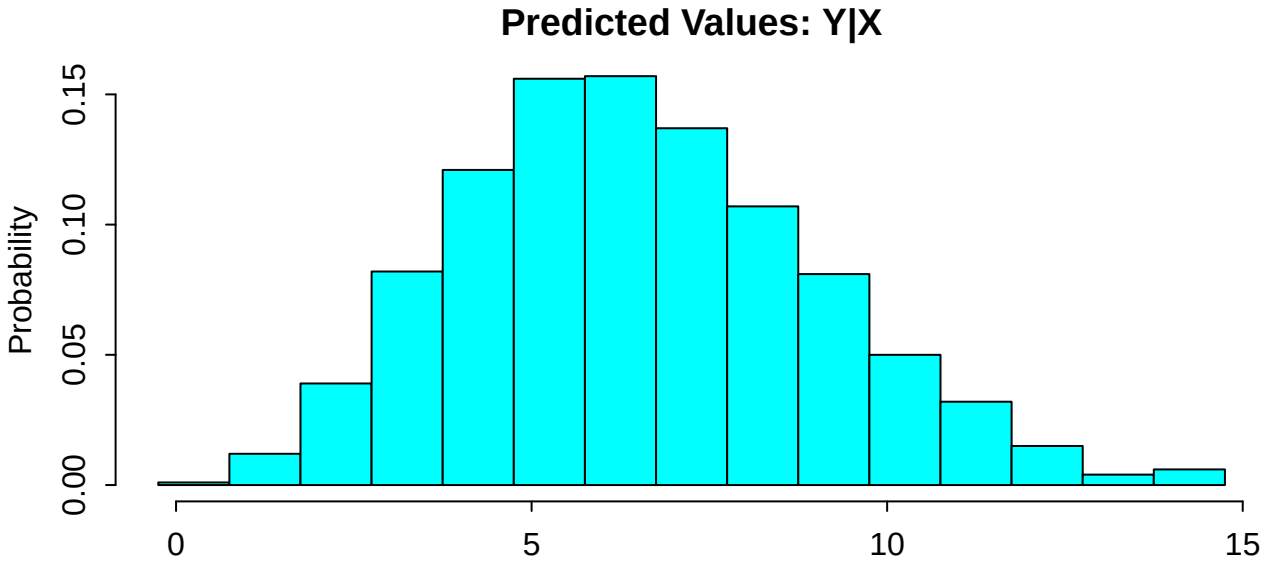

s(x1,4.56)
x1
0.0
0.2
0.4
0.6
0.8
1.0
−2
−1
0
1
2
3
4

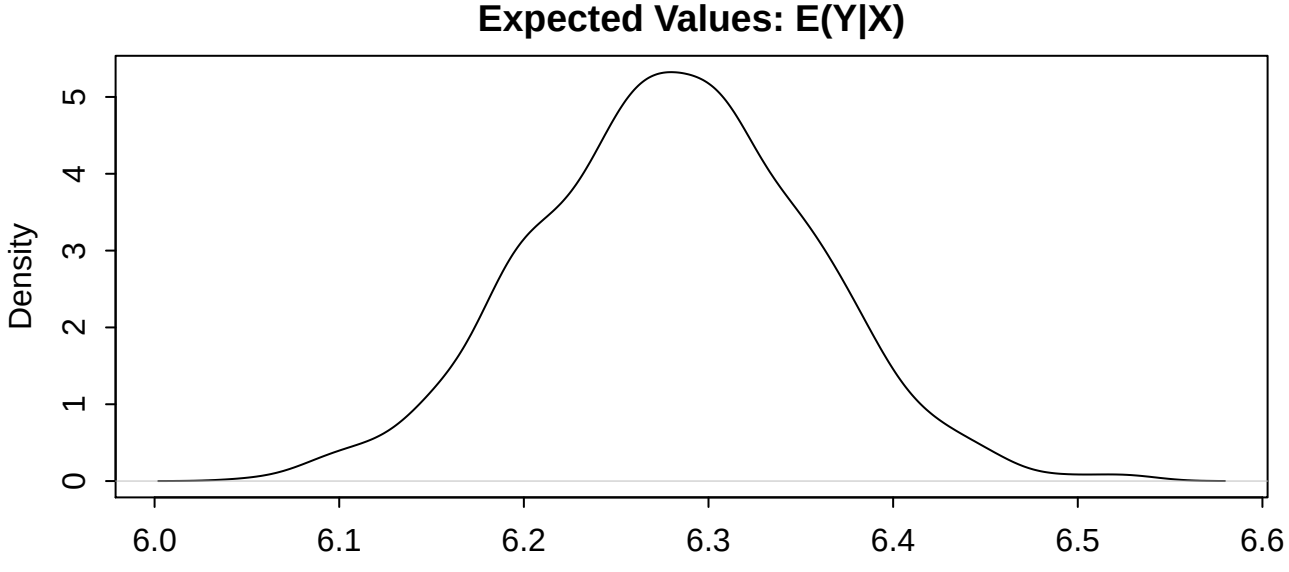

s(x2,7.85)
x2
0.0
0.2
0.4
0.6
0.8
1.0
−2
−1
0
1
2
3
4

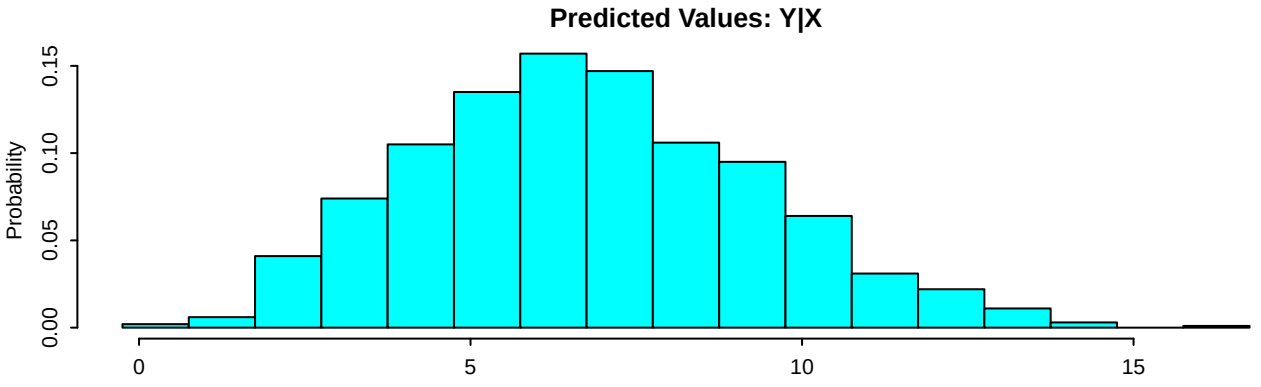

s(x3,2.61)
x3
0.0
0.2
0.4
0.6
0.8
1.0
−2
−1
0
1
2
3
4

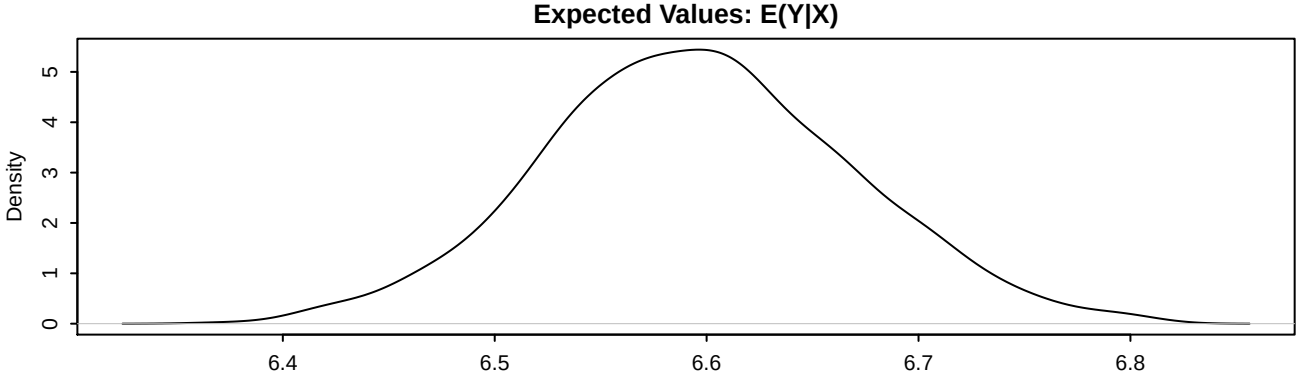

Predicted Values: Y|X
Probability
0.00
0.05
0.10
0.15
0
5
10
15

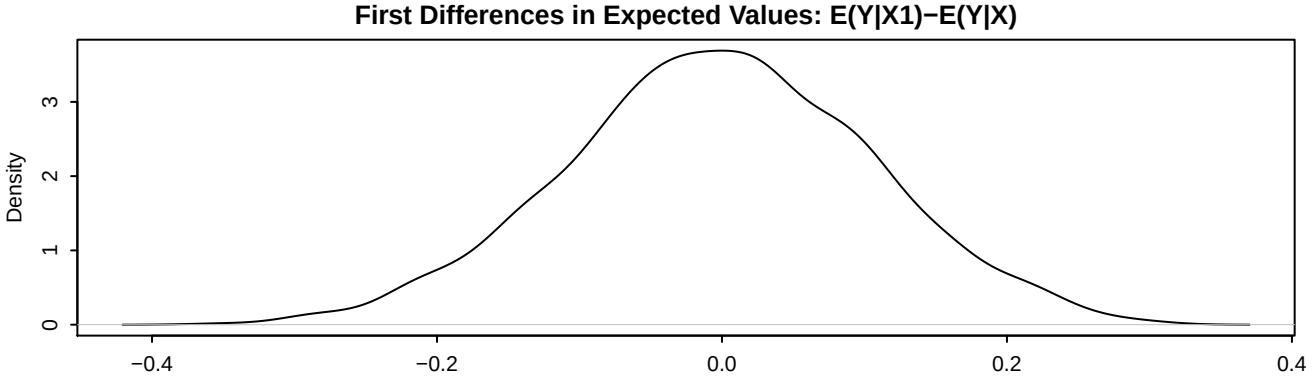

Expected Values: E(Y|X)
Density
0
1
2
3
4
5
6.0
6.1
6.2
6.3
6.4
6.5
6.6

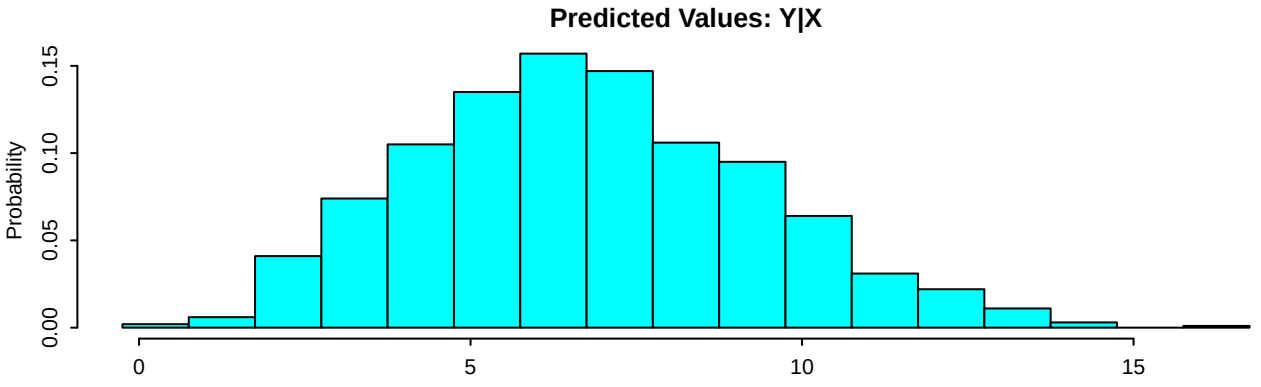

Predicted Values: Y|X
Probability
0.00
0.05
0.10
0.15
0
5
10
15

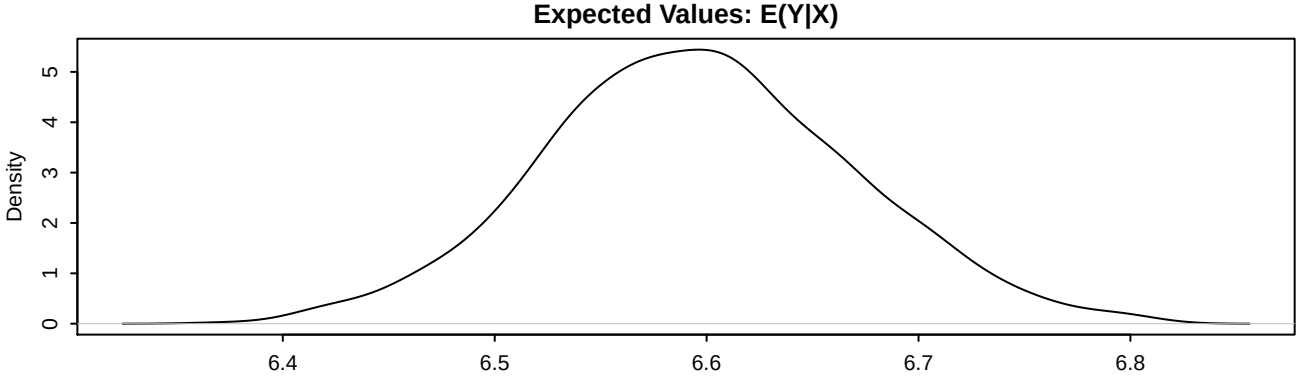

Expected Values: E(Y|X)
Density
0
1
2
3
4
5
6.0
6.1
6.2
6.3
6.4
6.5
6.6

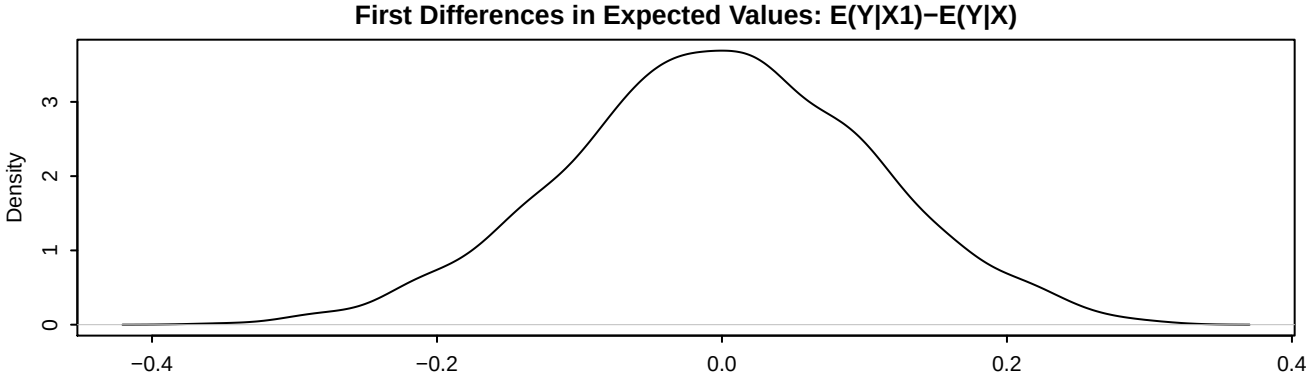

Predicted Values: Y|X
Probability
0.00
0.05
0.10
0.15
0
5
10
15

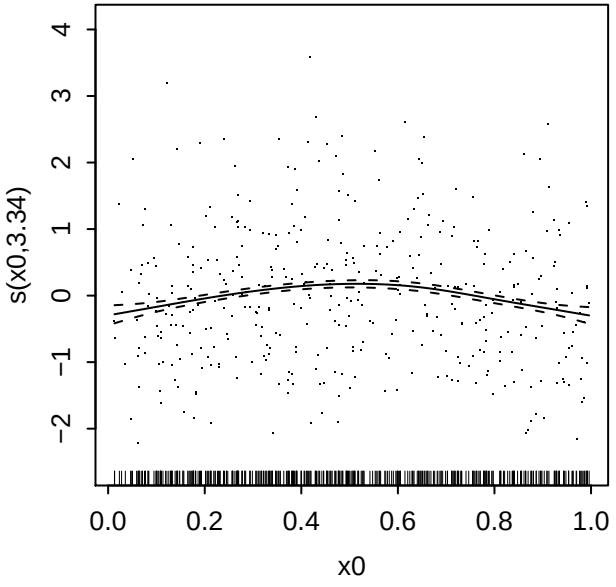

Expected Values: E(Y|X)
Density
0
1
2
3
4
5
6.4
6.5
6.6
6.7
6.8

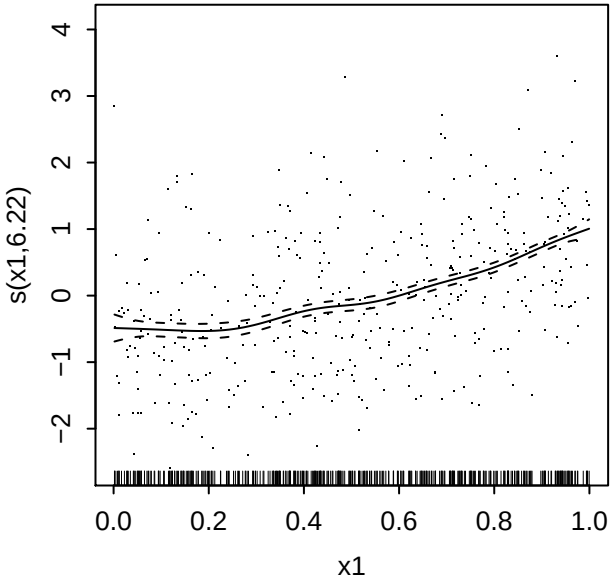

First Differences in Expected Values: E(Y|X1)−E(Y|X)
Density
0
1
2
3
−0.4
−0.2
0.0
0.2
0.4

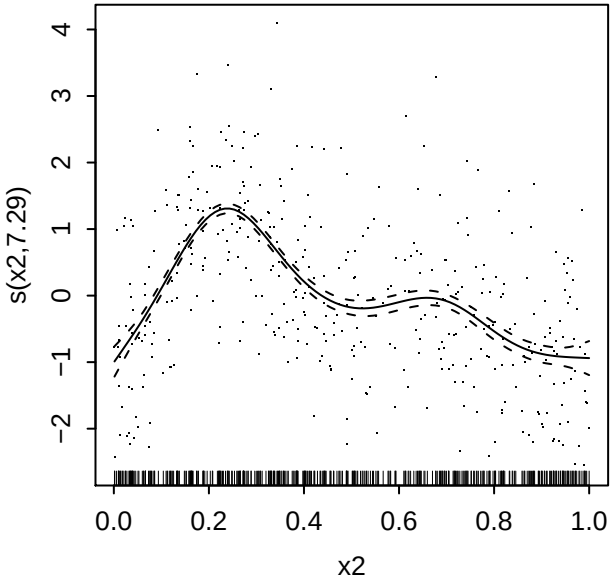

Predicted Values: Y|X
Probability
0.00
0.05
0.10
0.15
0
5
10
15

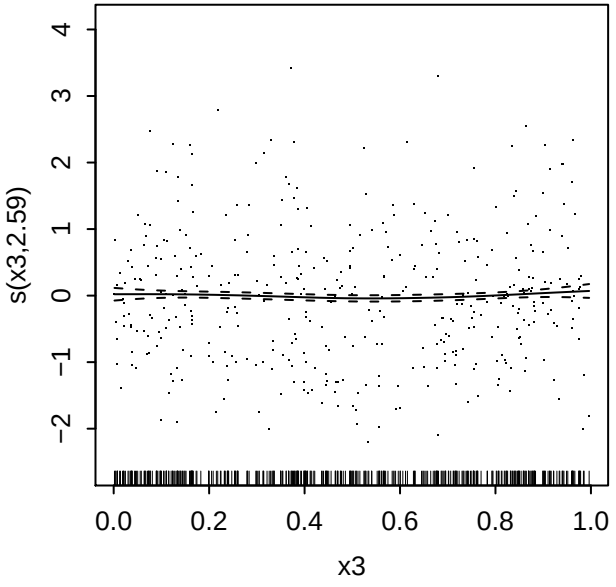

Expected Values: E(Y|X)
Density
0
1
2
3
4
5
6.4
6.5
6.6
6.7
6.8

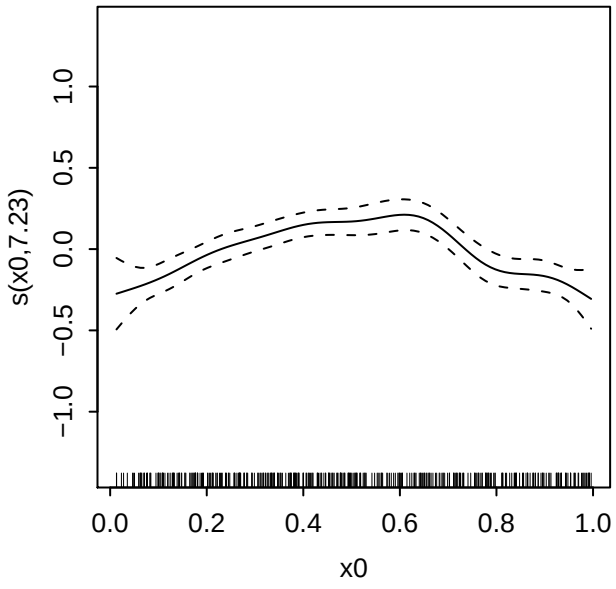

First Differences in Expected Values: E(Y|X1)−E(Y|X)
Density
0
1
2
3
−0.4
−0.2
0.0
0.2
0.4

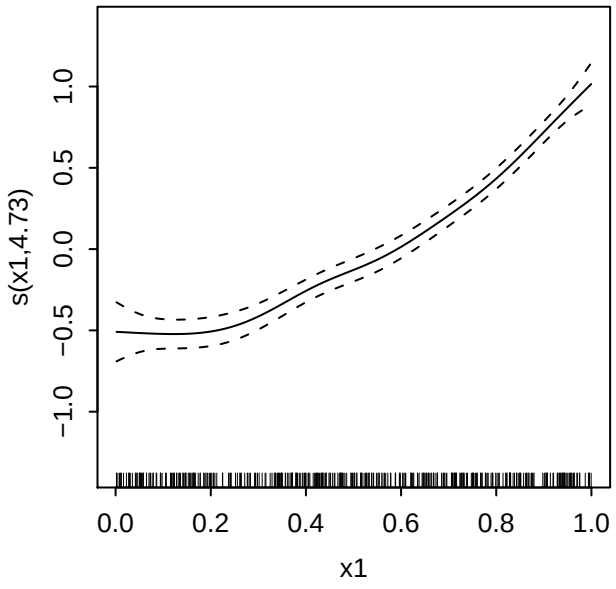

s(x0,3.34)
x0

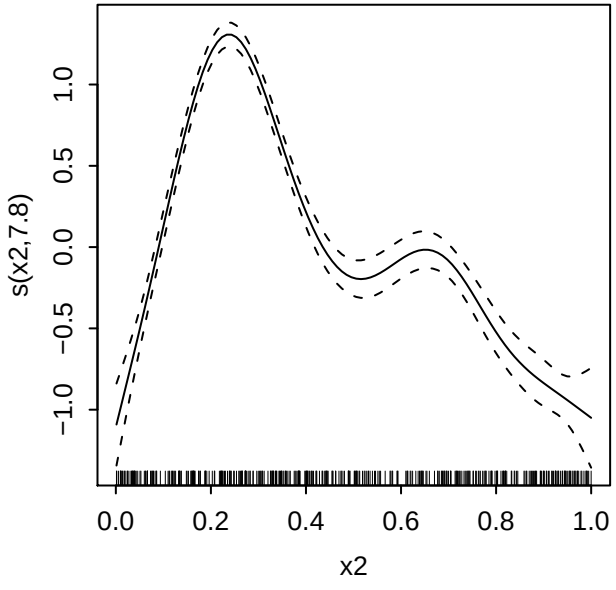

s(x1,6.22)
x1

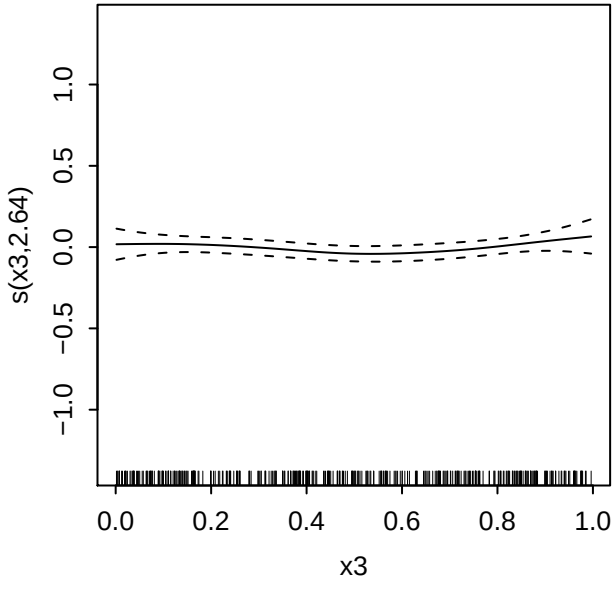

s(x2,7.29)
x2

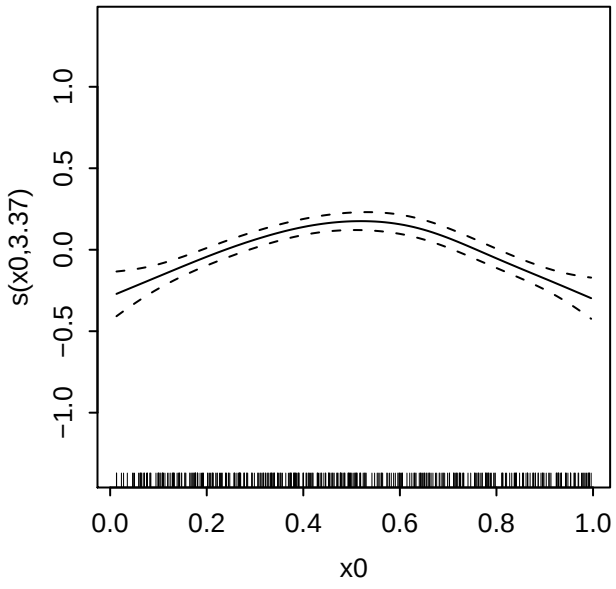

s(x3,2.59)
x3

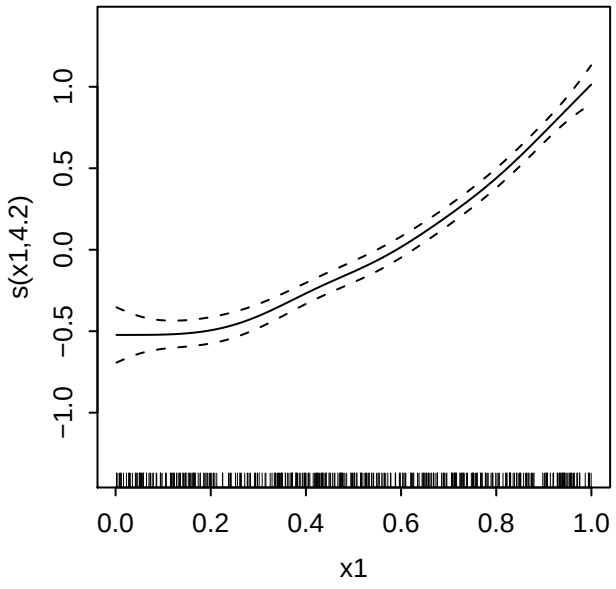

s(x0,7.23)
1.0
0.5
0.0
−0.5
−1.0
0.0
0.2
0.4
0.6
0.8
1.0
x0

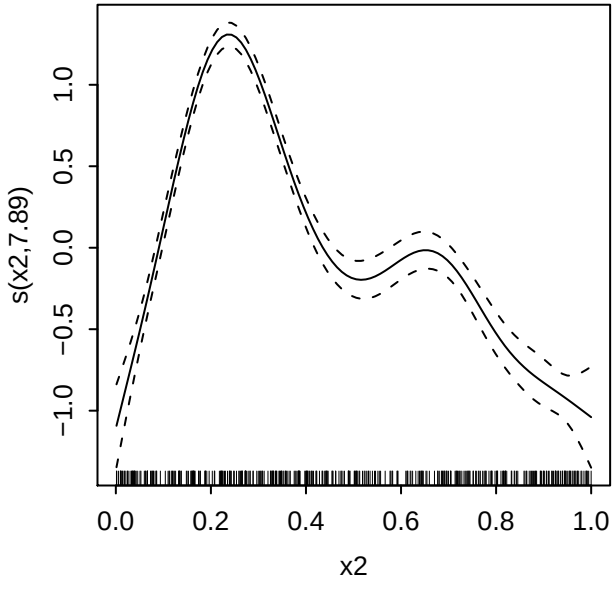

s(x1,4.73)
1.0
0.5
0.0
−0.5
−1.0
0.0
0.2
0.4
0.6
0.8
1.0
x1

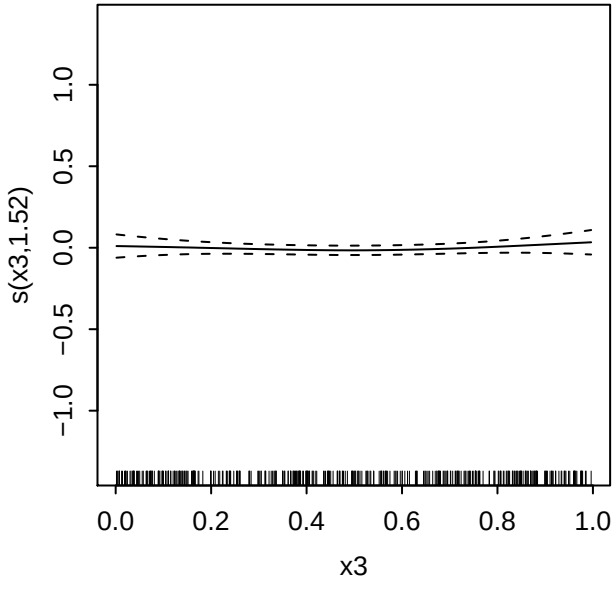

s(x2,7.8)
1.0
0.5
0.0
−0.5
−1.0
0.0
0.2
0.4
0.6
0.8
1.0
x2

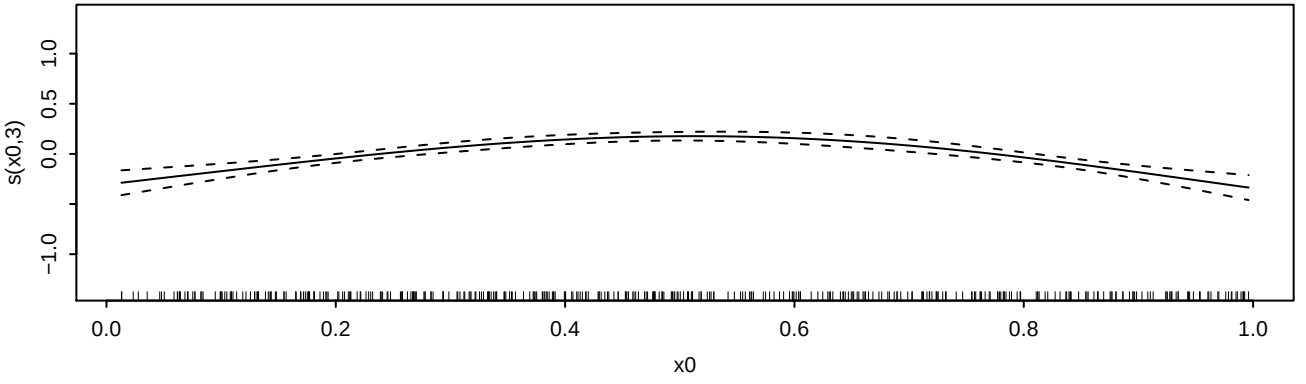

s(x3,2.64)
1.0
0.5
0.0
−0.5
−1.0
0.0
0.2
0.4
0.6
0.8
1.0
x3

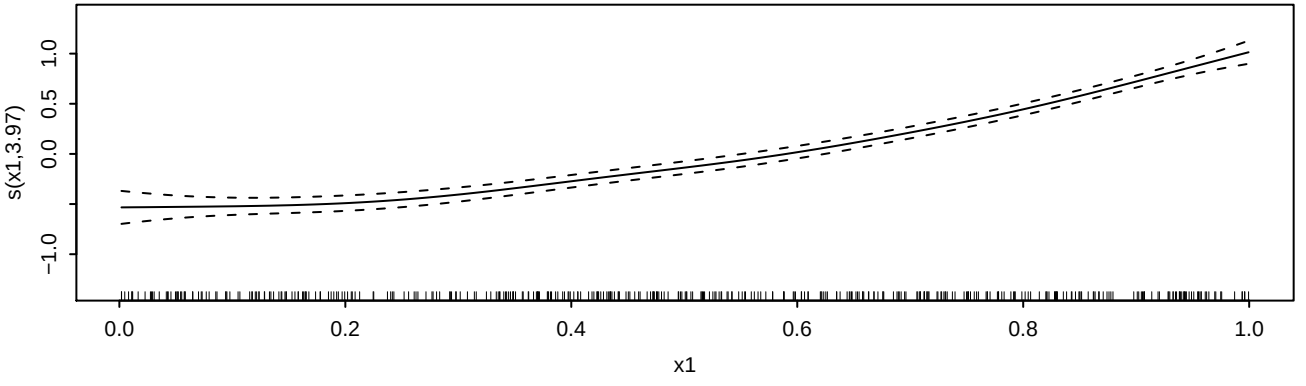

s(x0,3.37)
1.0
0.5
0.0
−0.5
−1.0
0.0
0.2
0.4
0.6
0.8
1.0
x0

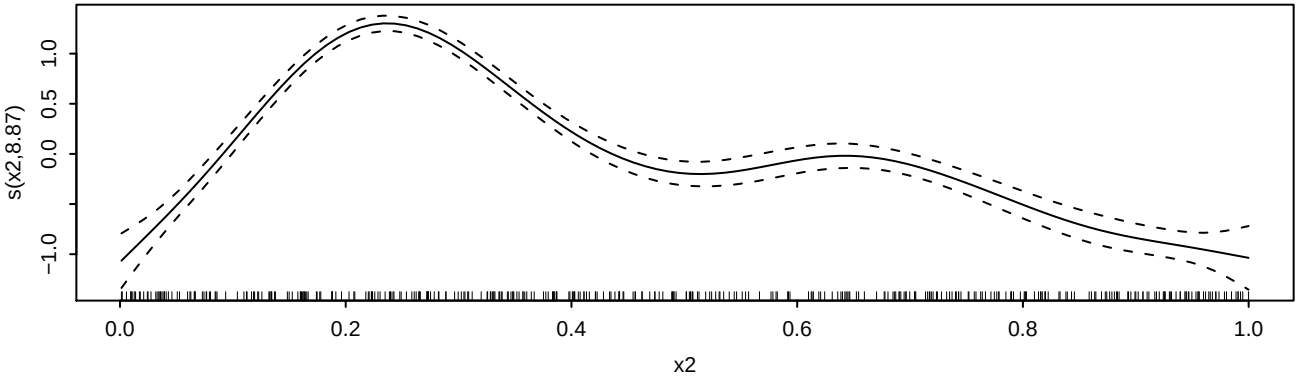

s(x1,4.2)
1.0
0.5
0.0
−0.5
−1.0
0.0
0.2
0.4
0.6
0.8
1.0
x1

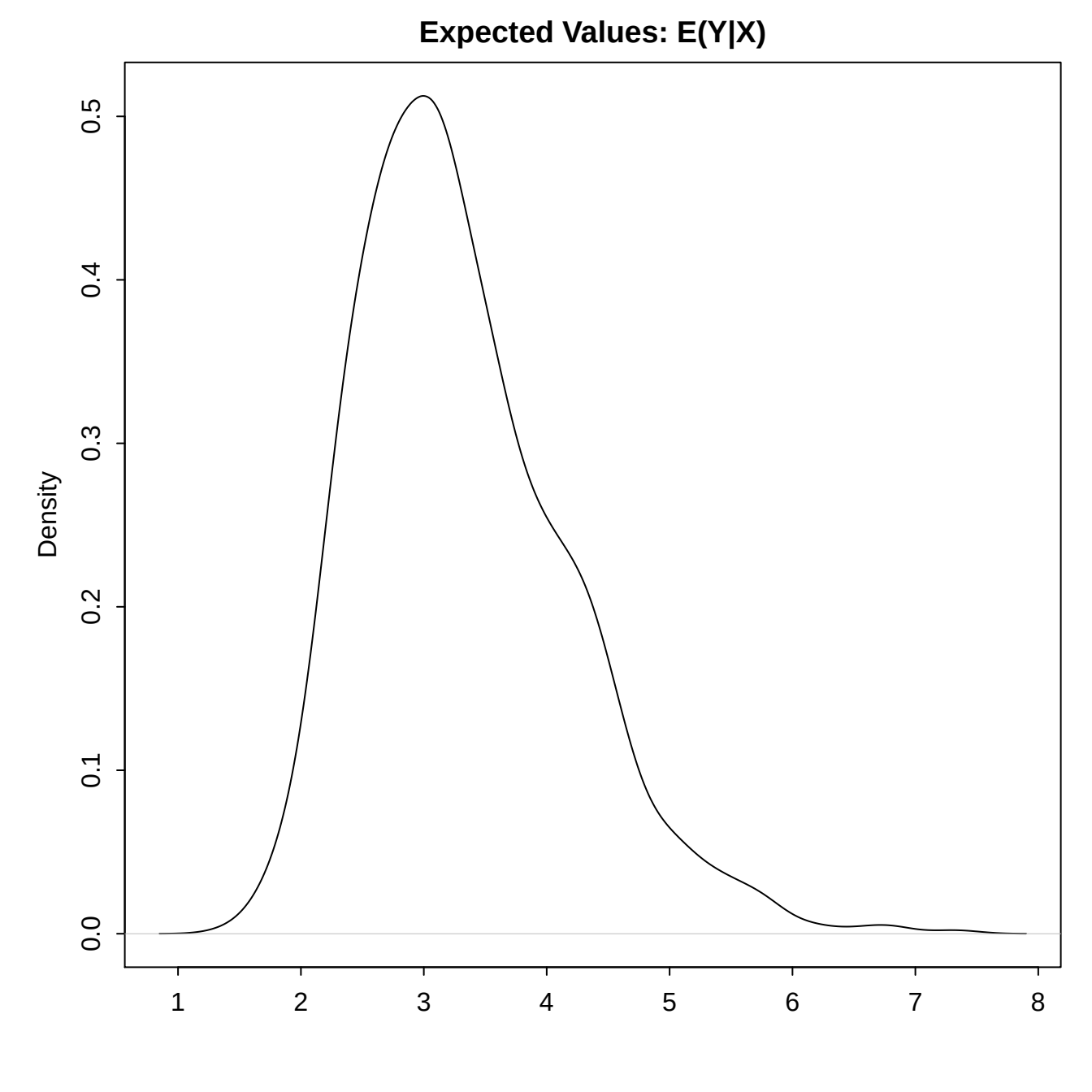

s(x2,7.89)
1.0
0.5
0.0
−0.5
−1.0
0.0
0.2
0.4
0.6
0.8
1.0
x2

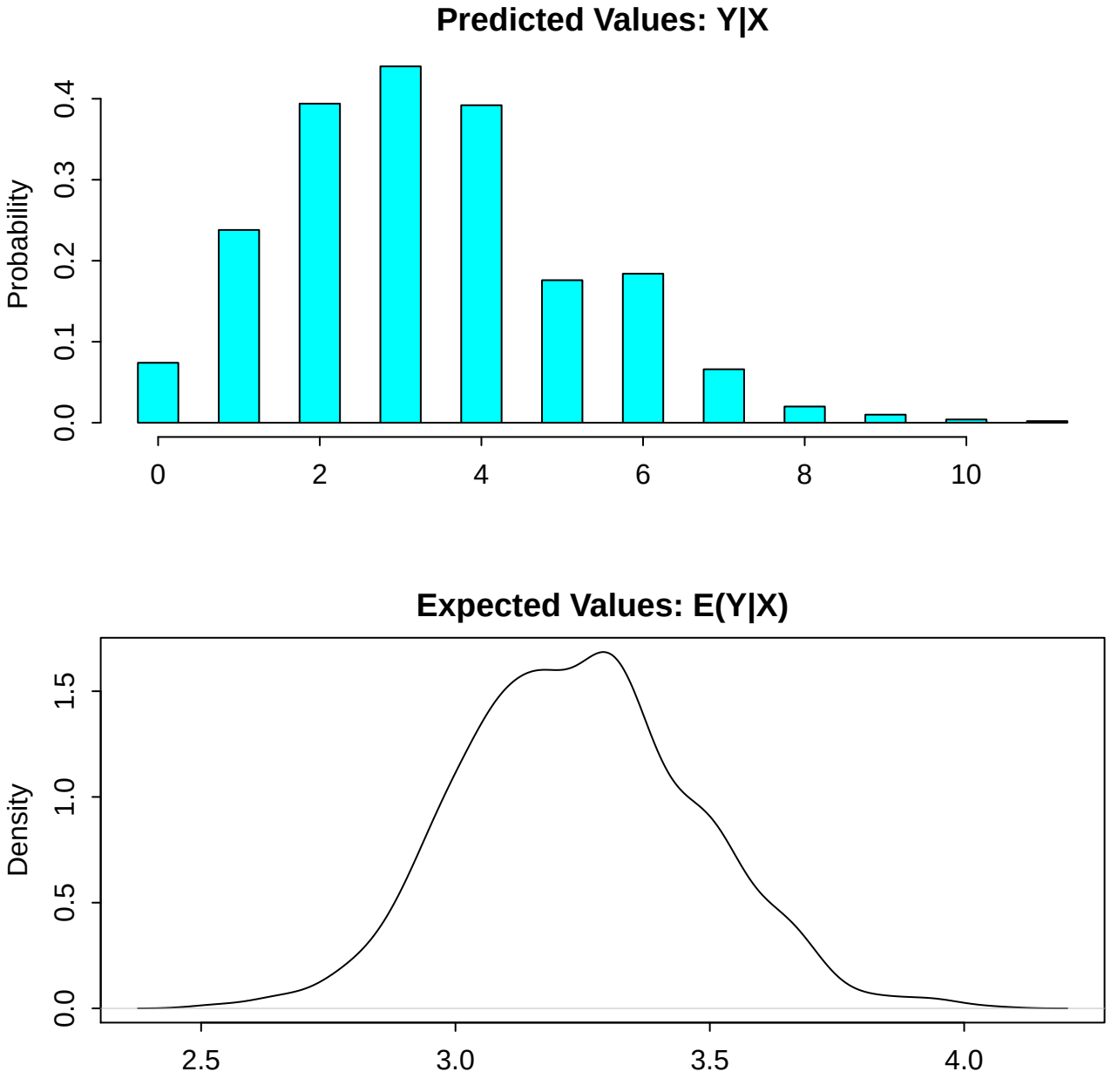

s(x3,1.52)
1.0
0.5
0.0
−0.5
−1.0
0.0
0.2
0.4
0.6
0.8
1.0
x3

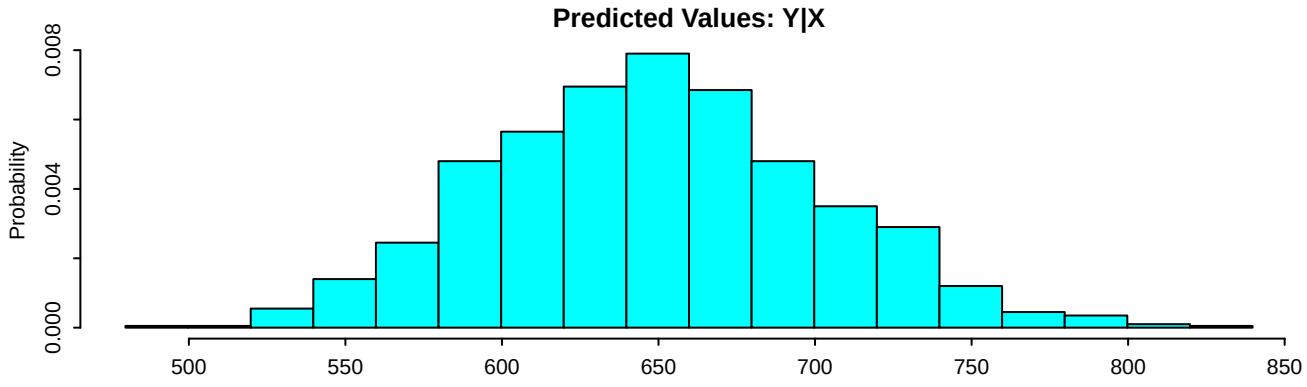

s(x0,3)
1.0
0.5
0.0
−1.0
0.0
0.2
0.4
0.6
0.8
1.0
x0

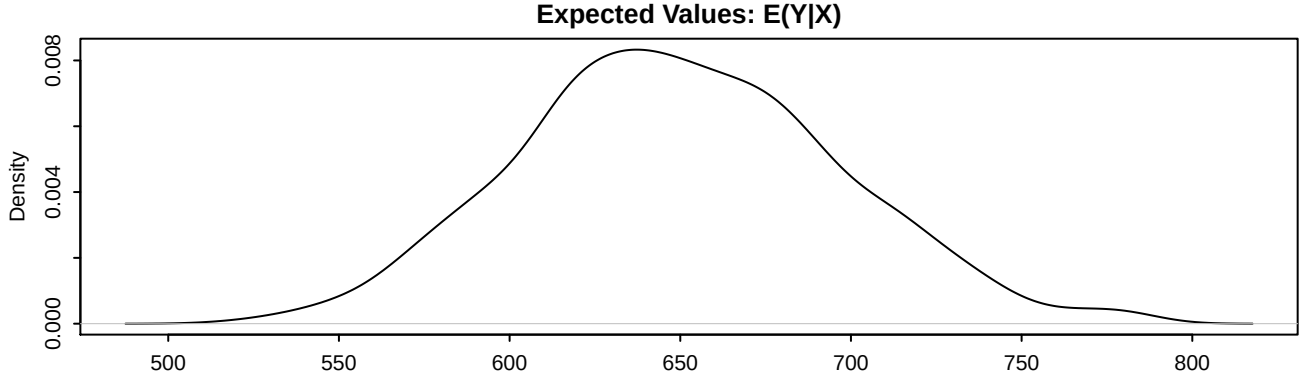

s(x1,3.97)
1.0
0.5
0.0
−1.0
0.0
0.2
0.4
0.6
0.8
1.0
x1

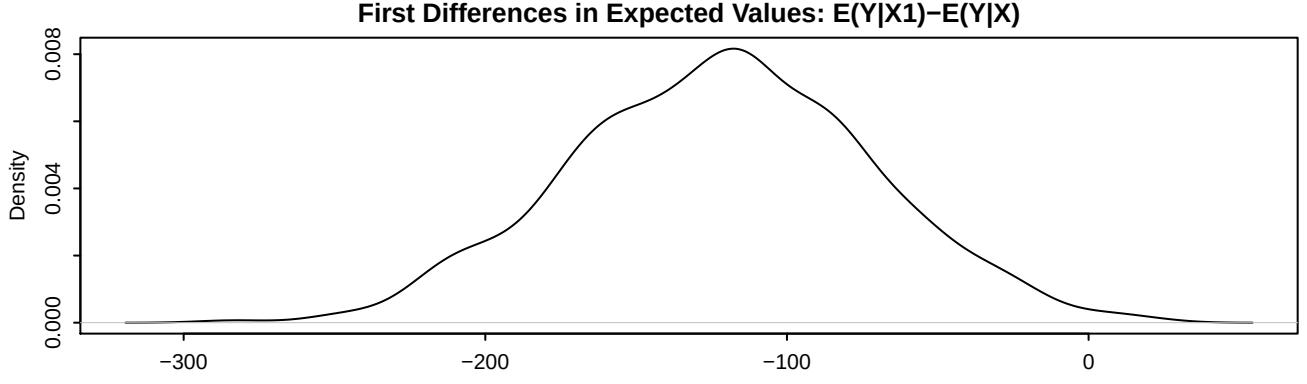

s(x2,8.87)
1.0
0.5
0.0
−1.0
0.0
0.2
0.4
0.6
0.8
1.0
x2

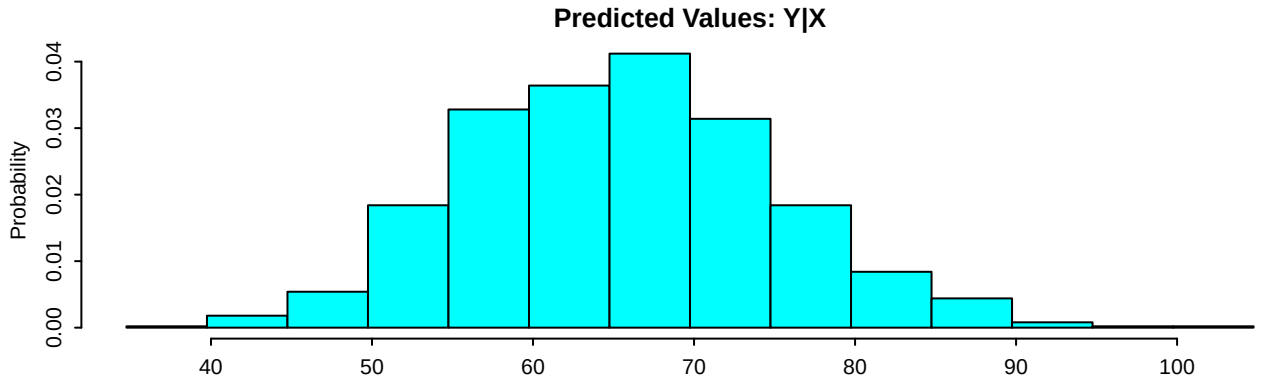

Expected Values: E(Y|X)
Density
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
4
5
6
7
8

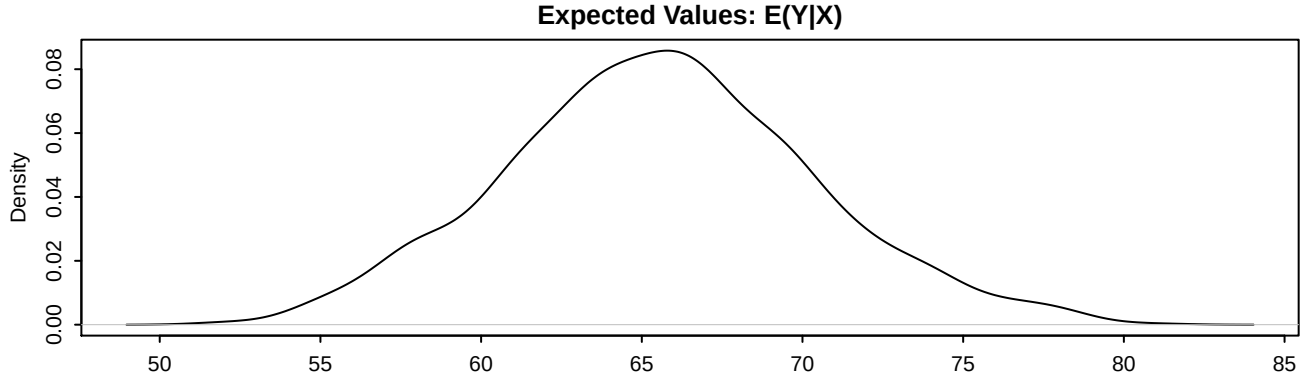

Predicted Values: Y|X
Probability
0.0
0.1
0.2
0.3
0.4
0
2
4
6
8
10
Expected Values: E(Y|X)
Density
0.0
0.5
1.0
1.5
2.5
3.0
3.5
4.0

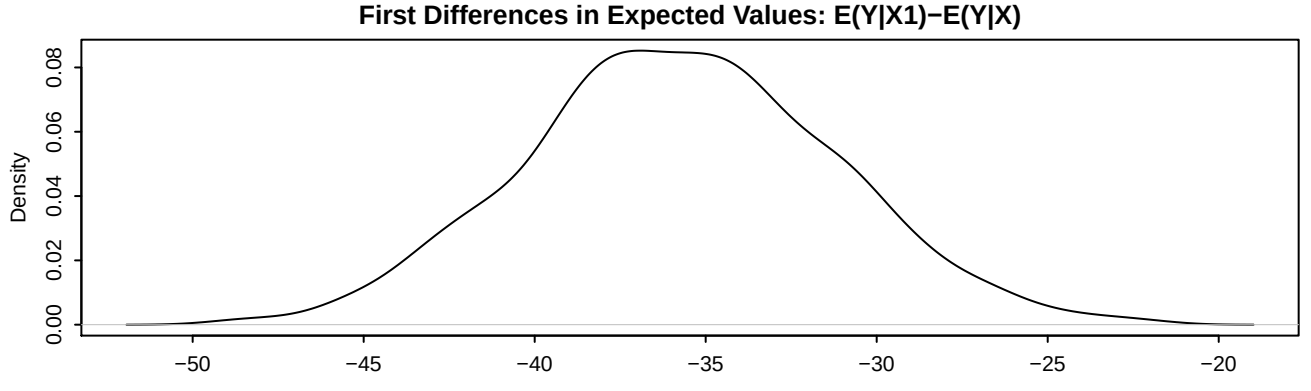

Predicted Values: Y|X
Probability
0.000
0.004
0.008
500
550
600
650
700
750
800
850

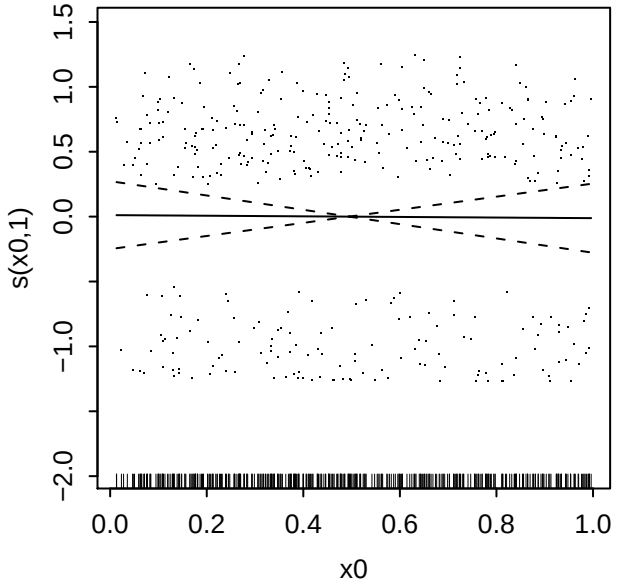

Expected Values: E(Y|X)
Density
0.000
0.004
0.008
500
550
600
650
700
750
800

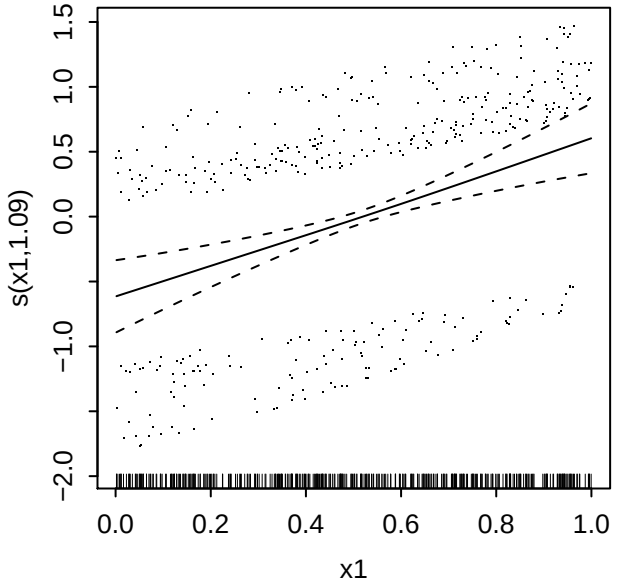

First Differences in Expected Values: E(Y|X1)−E(Y|X)
Density
0.000
0.004
0.008
−300
−200
−100
0

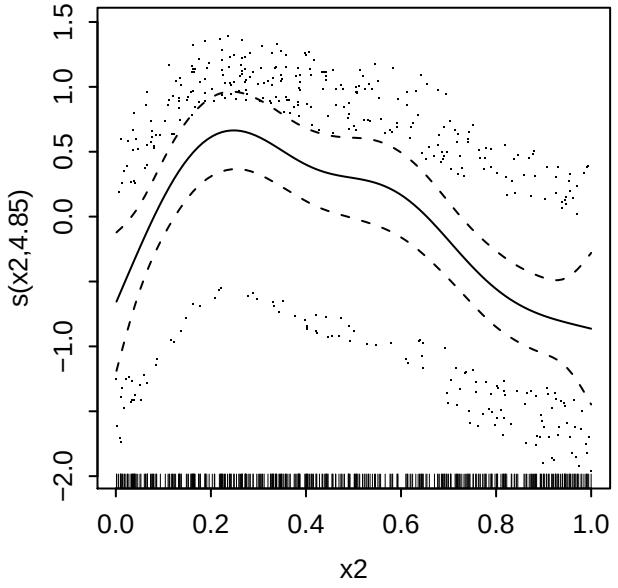

Predicted Values: Y|X
Probability
0.00
0.01
0.02
0.03
0.04
40
50
60
70
80
90
100

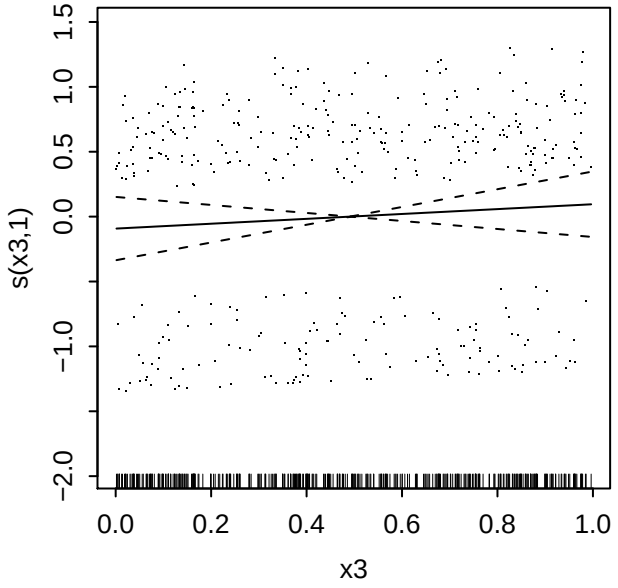

Expected Values: E(Y|X)
Density
0.00
0.02
0.04
0.06
0.08
50
55
60
65
70
75
80
85

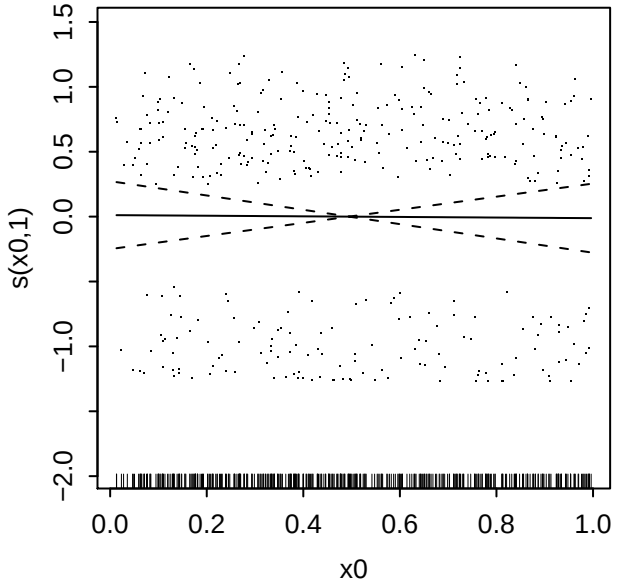

First Differences in Expected Values: E(Y|X1)−E(Y|X)
Density
0.00
0.02
0.04
0.06
0.08
−50
−45
−40
−35
−30
−25
−20

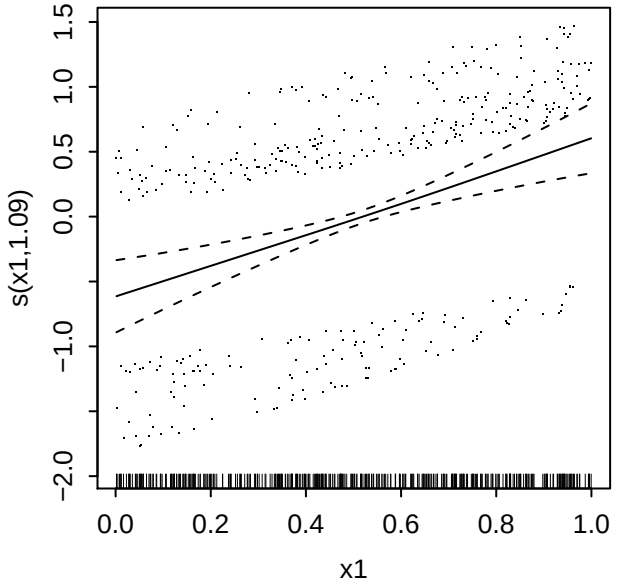

s(x0,1)
1.5
1.0
0.5
0.0
−1.0
−2.0
0.0
0.2
0.4
0.6
0.8
1.0
x0

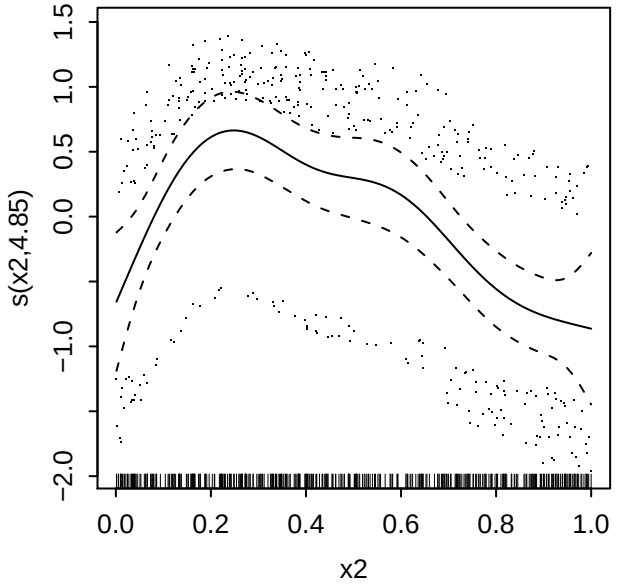

s(x1,1.09)
1.5
1.0
0.5
0.0
−1.0
−2.0
0.0
0.2
0.4
0.6
0.8
1.0
x1

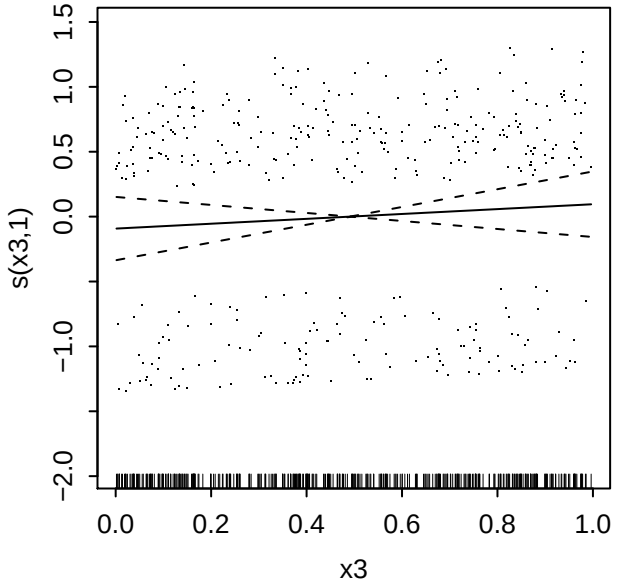

s(x2,4.85)
1.5
1.0
0.5
0.0
−1.0
−2.0
0.0
0.2
0.4
0.6
0.8
1.0
x2

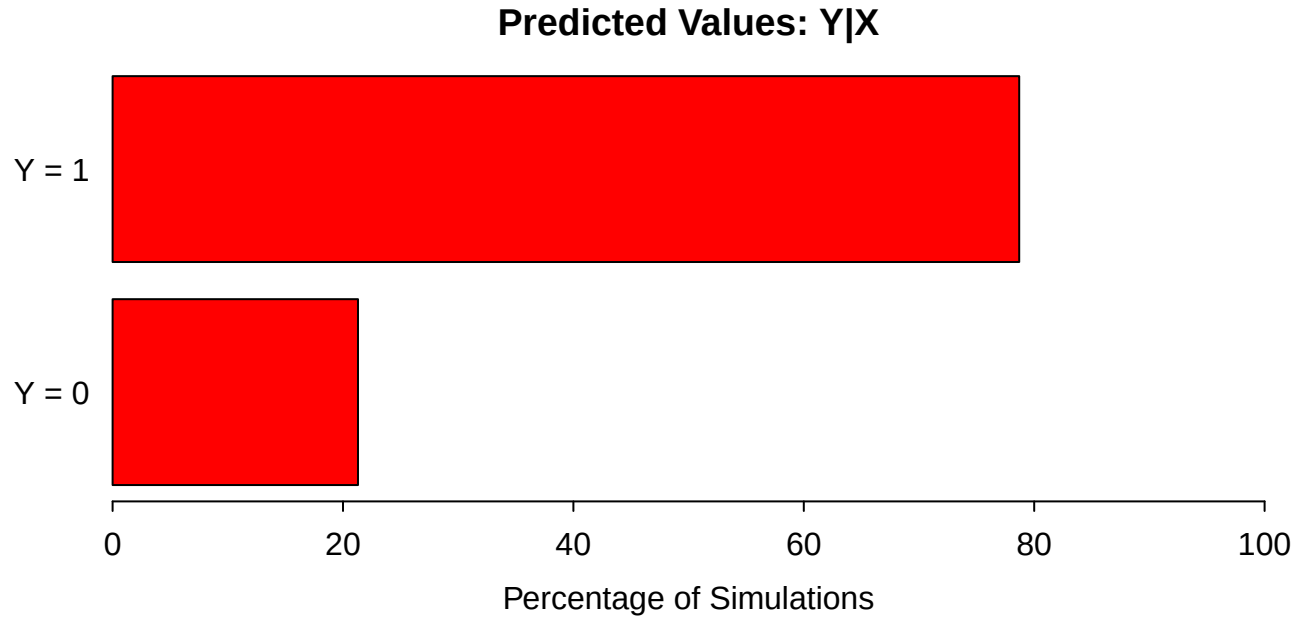

s(x3,1)
1.5
1.0
0.5
0.0
−1.0
−2.0
0.0
0.2
0.4
0.6
0.8
1.0
x3

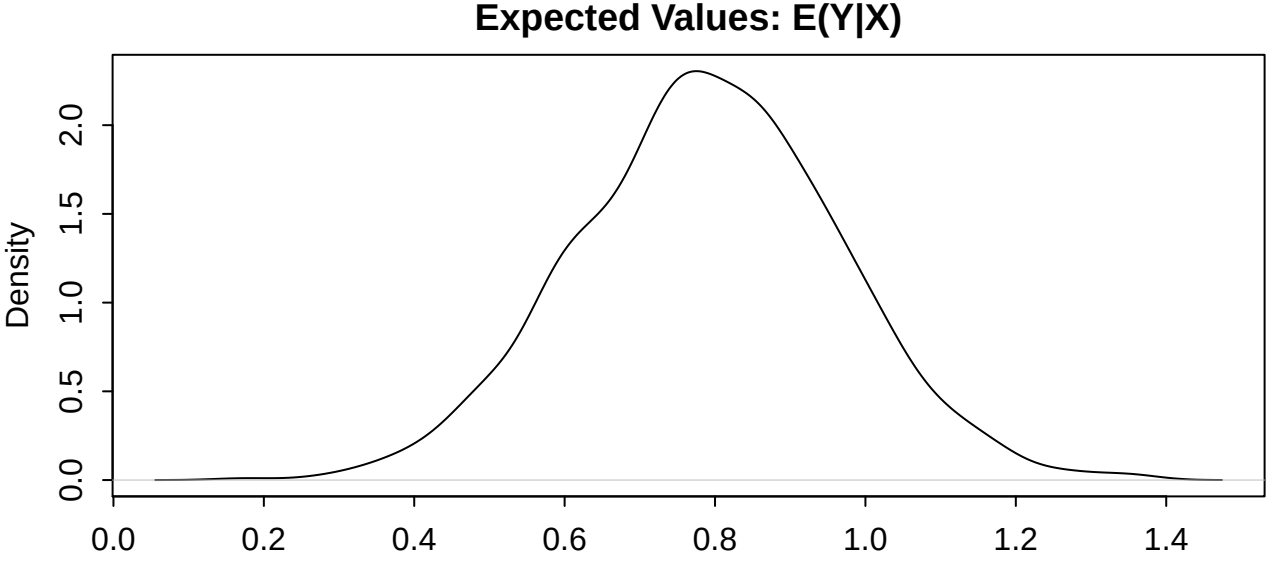

s(x0,1)
1.5
1.0
0.5
0.0
−1.0
−2.0
0.0
0.2
0.4
0.6
0.8
1.0
x0

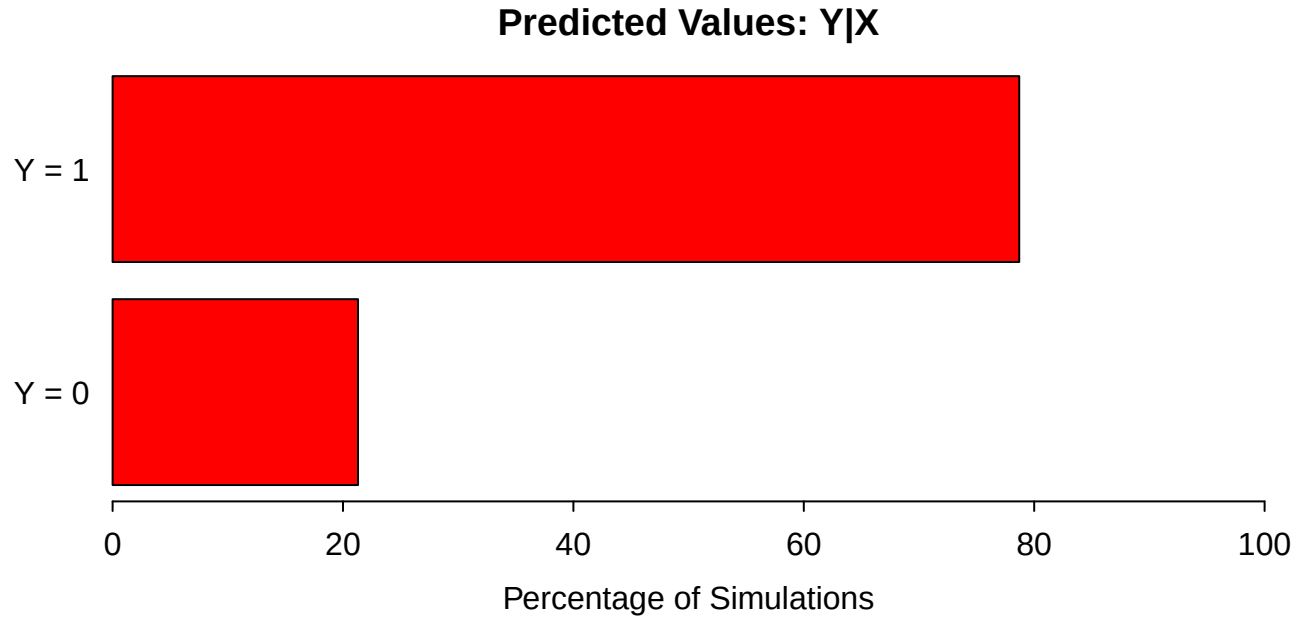

s(x1,1.09)
1.5
1.0
0.5
0.0
−1.0
−2.0
0.0
0.2
0.4
0.6
0.8
1.0
x1

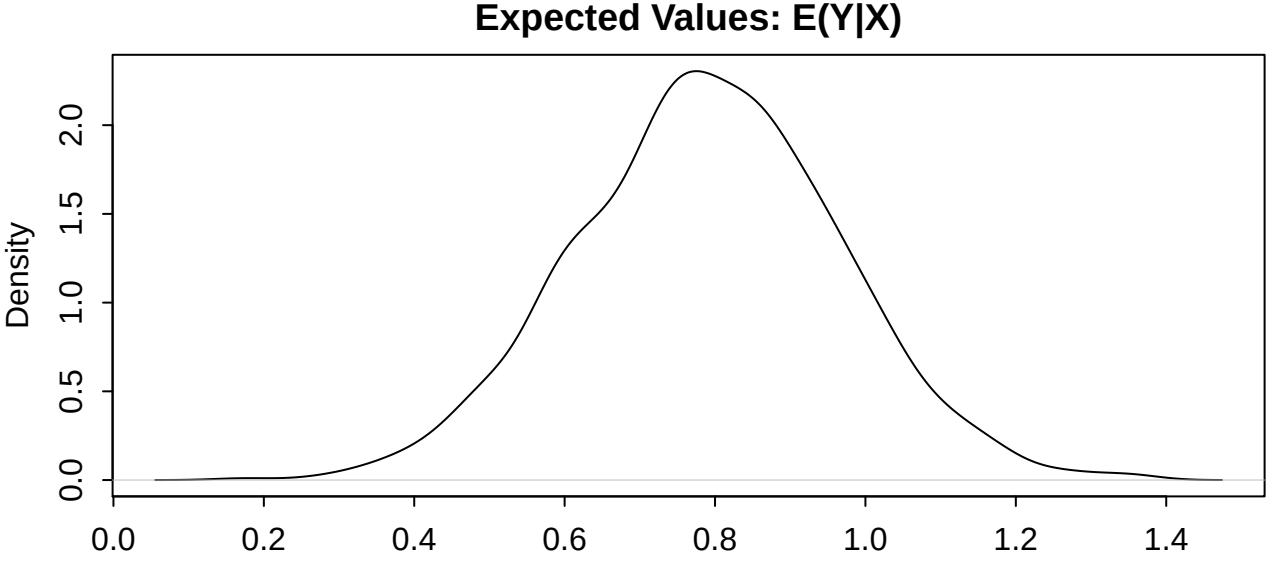

s(x2,4.85)
1.5
1.0
0.5
0.0
−1.0
−2.0
0.0
0.2
0.4
0.6
0.8
1.0
x2

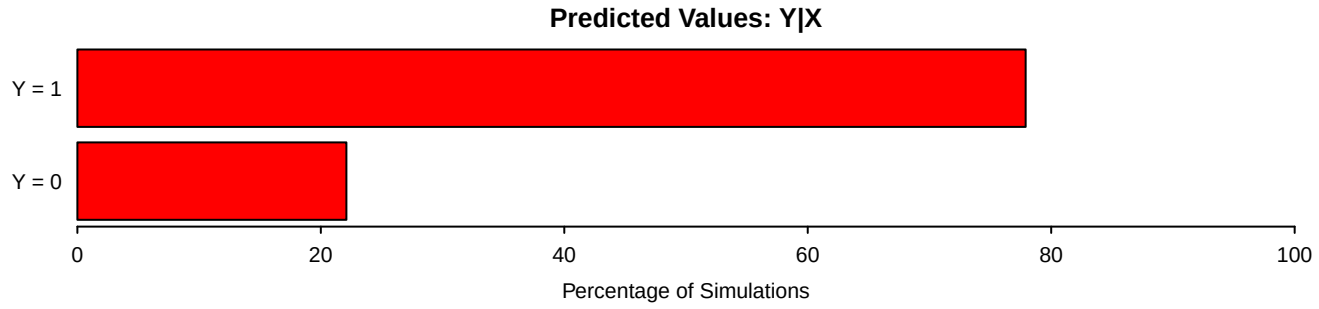

s(x3,1)
1.5
1.0
0.5
0.0
−1.0
−2.0
0.0
0.2
0.4
0.6
0.8
1.0
x3

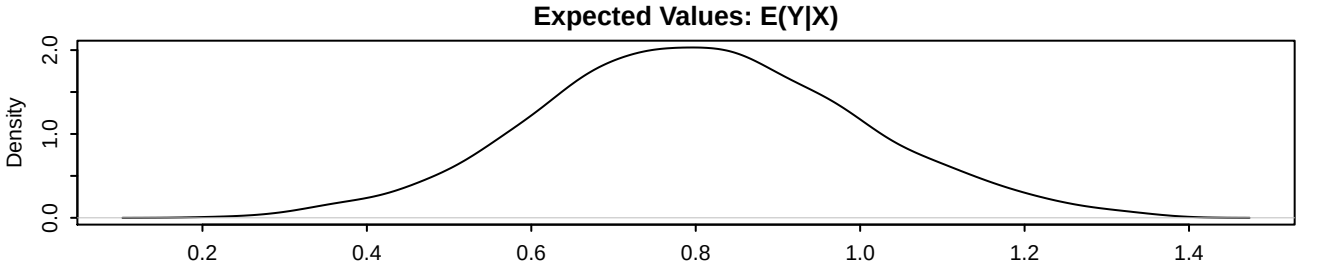

Predicted Values: Y|X
Y = 1
Y = 0
0
20
40
60
80
100
Percentage of Simulations

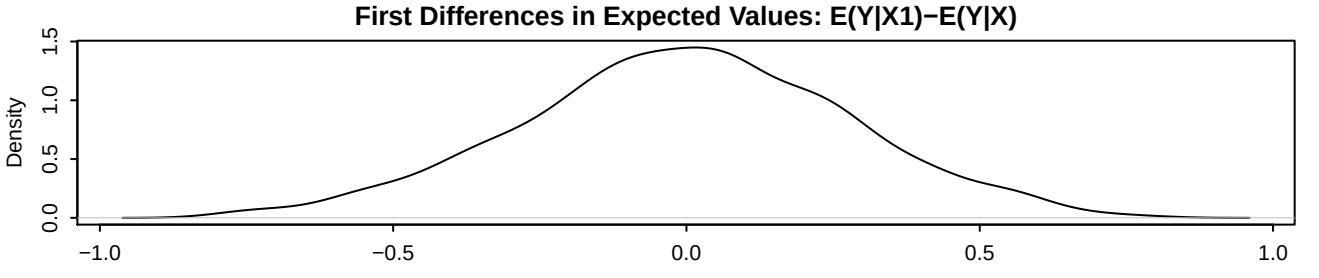

Expected Values: E(Y|X)
Density
0.0
0.5
1.0
1.5
2.0
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4

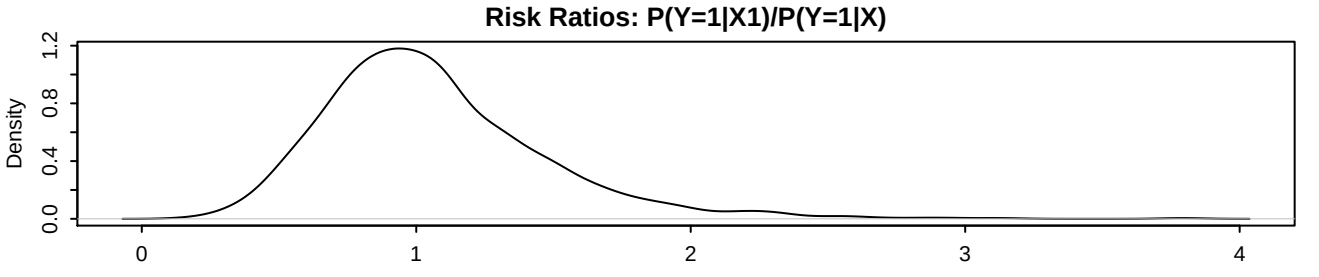

Predicted Values: Y|X
Y = 1
Y = 0
0
20
40
60
80
100
Percentage of Simulations

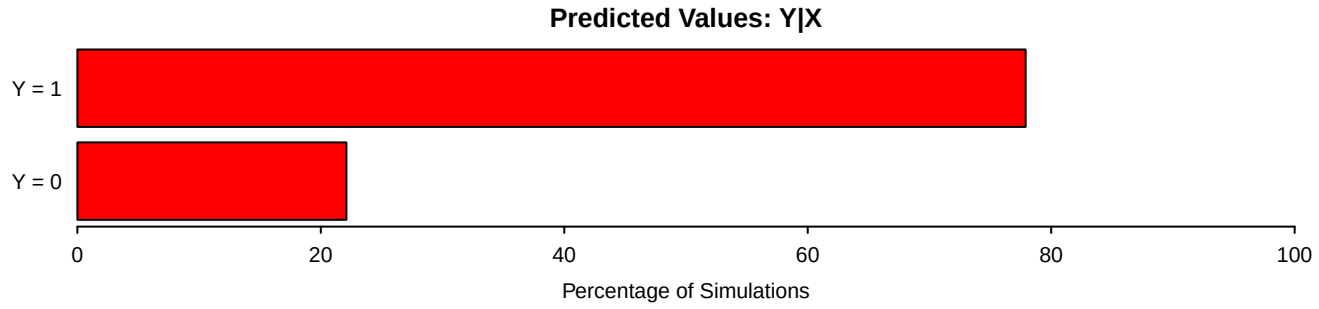

Expected Values: E(Y|X)
Density
0.0
0.5
1.0
1.5
2.0
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4

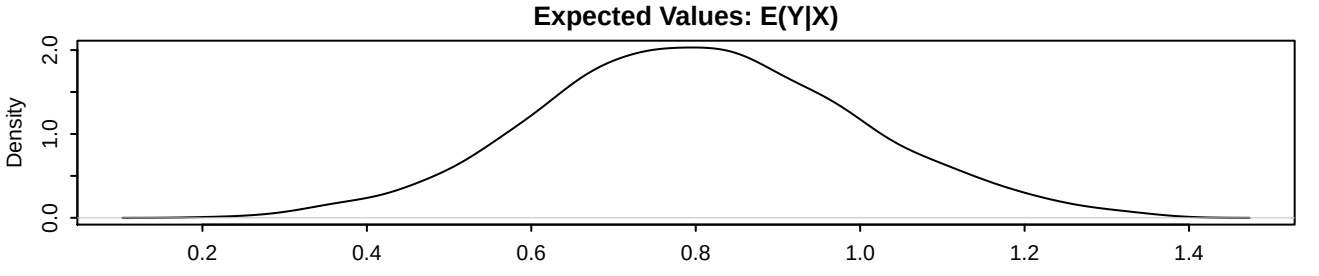

Predicted Values: Y|X
Y = 1
Y = 0
0
20
40
60
80
100
Percentage of Simulations

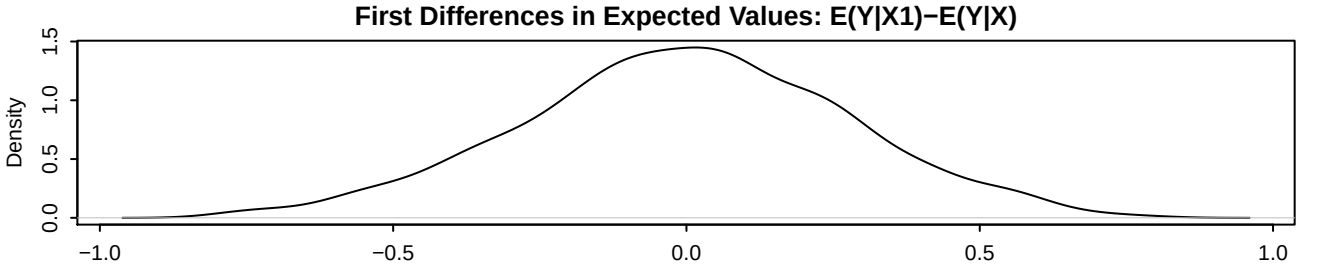

Expected Values: E(Y|X)
Density
0.0
1.0
2.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4

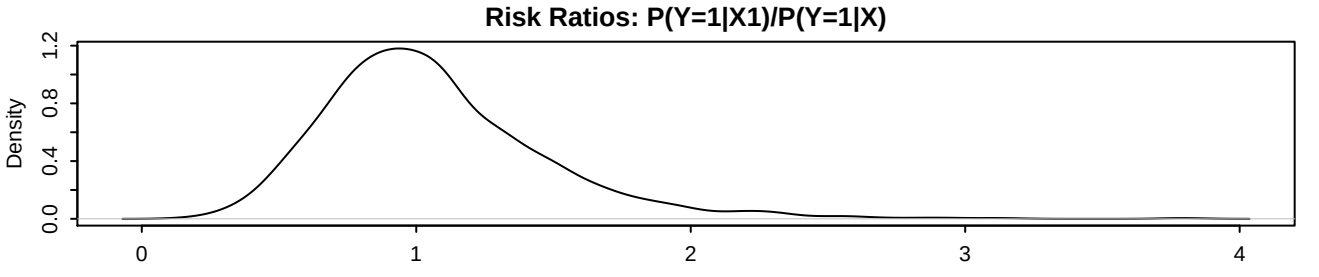

First Differences in Expected Values: E(Y|X1)−E(Y|X)
Density
0.0
0.5
1.0
1.5
−1.0
−0.5
0.0
0.5
1.0

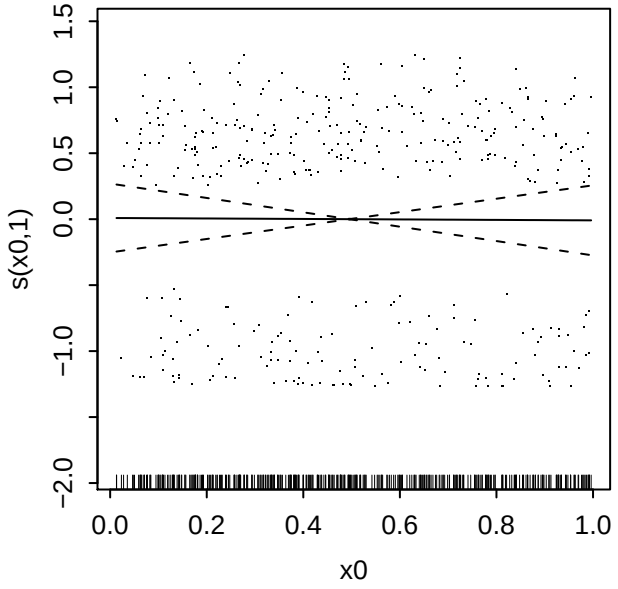

Risk Ratios: P(Y=1|X1)/P(Y=1|X)
Density
0.0
0.4
0.8
1.2
0
1
2
3
4

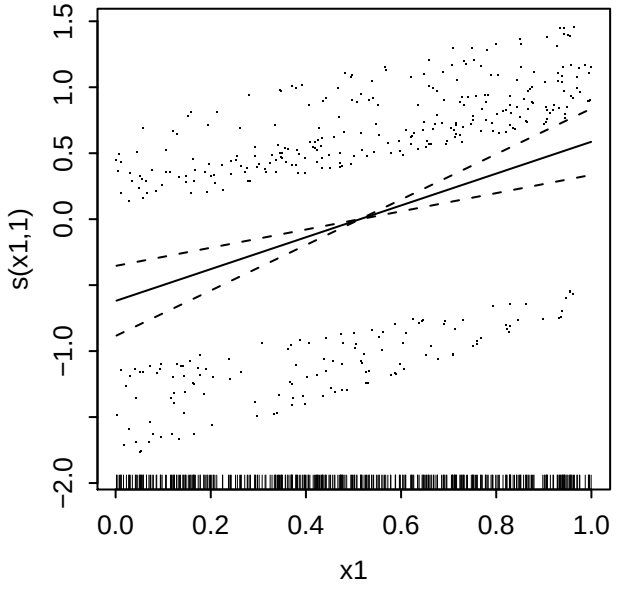

Predicted Values: Y|X
Y = 1
Y = 0
0
20
40
60
80
100
Percentage of Simulations

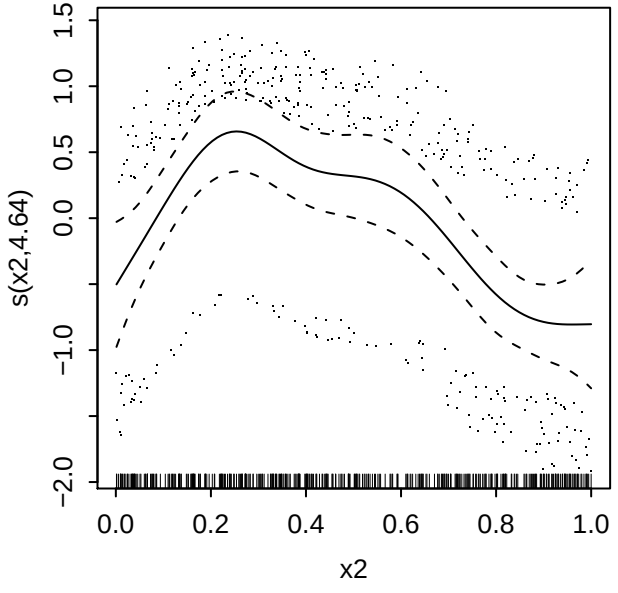

Expected Values: E(Y|X)
Density
0.0
1.0
2.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4

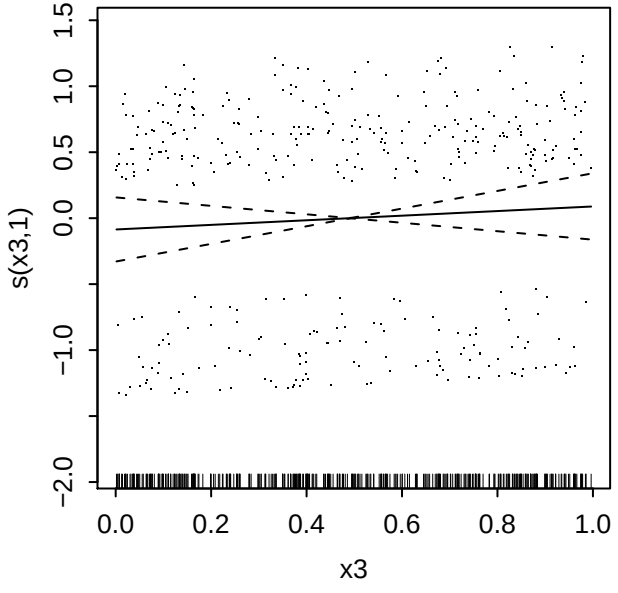

First Differences in Expected Values: E(Y|X1)−E(Y|X)
Density
0.0
0.5
1.0
1.5
−1.0
−0.5
0.0
0.5
1.0

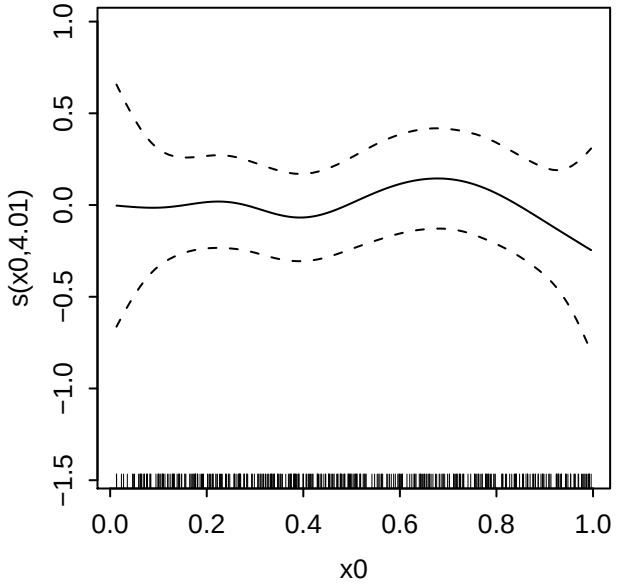

Risk Ratios: P(Y=1|X1)/P(Y=1|X)
Density
0.0
0.4
0.8
1.2
0
1
2
3
4

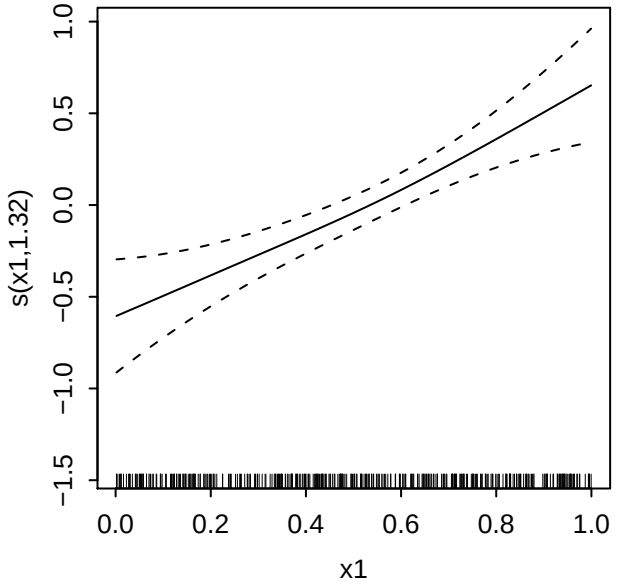

s(x0,1)
1.5
1.0
0.5
0.0
−1.0
−2.0
0.0
0.2
0.4
0.6
0.8
1.0
x0

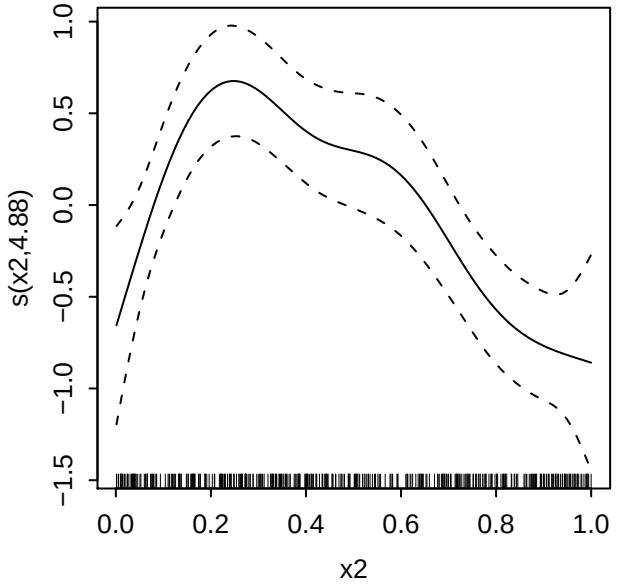

s(x1,1)
1.5
1.0
0.5
0.0
−1.0
−2.0
0.0
0.2
0.4
0.6
0.8
1.0
x1

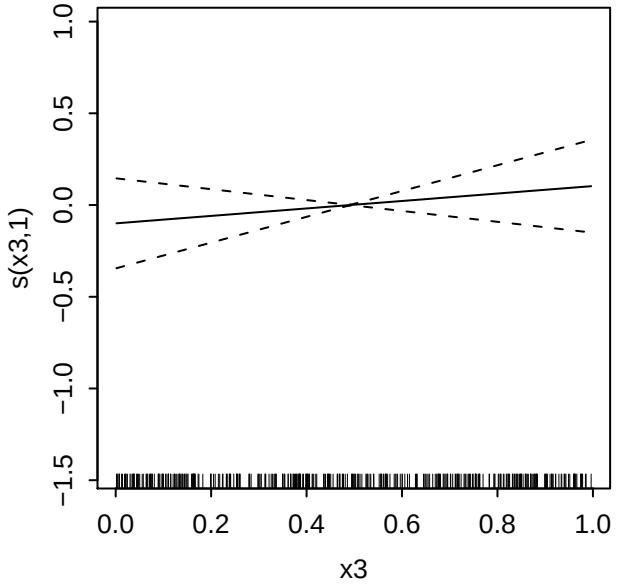

s(x2,4.64)
1.5
1.0
0.5
0.0
−1.0
−2.0
0.0
0.2
0.4
0.6
0.8
1.0
x2

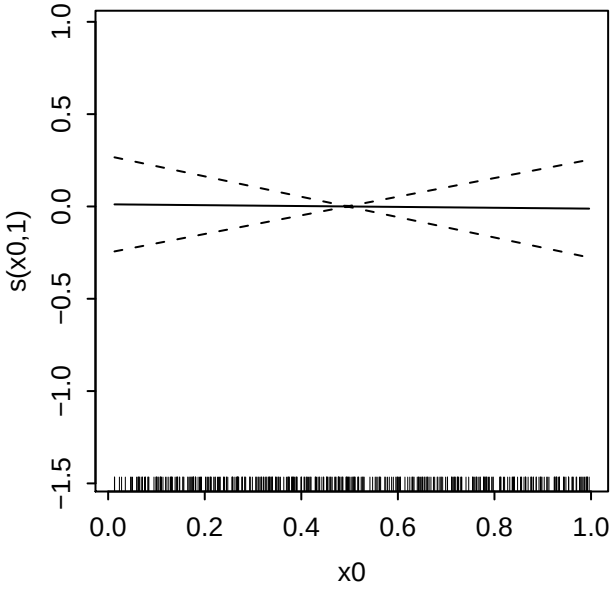

s(x3,1)
1.5
1.0
0.5
0.0
−1.0
−2.0
0.0
0.2
0.4
0.6
0.8
1.0
x3

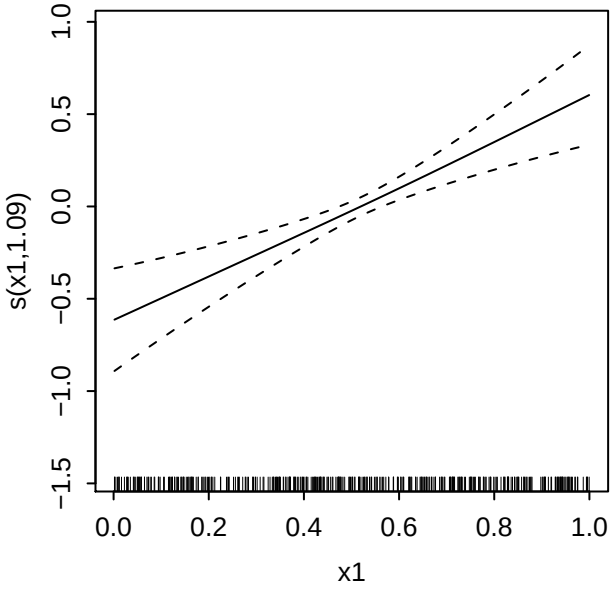

s(x0,4.01)
1.0
0.5
0.0
−0.5
−1.0
−1.5
0.0
0.2
0.4
0.6
0.8
1.0
x0

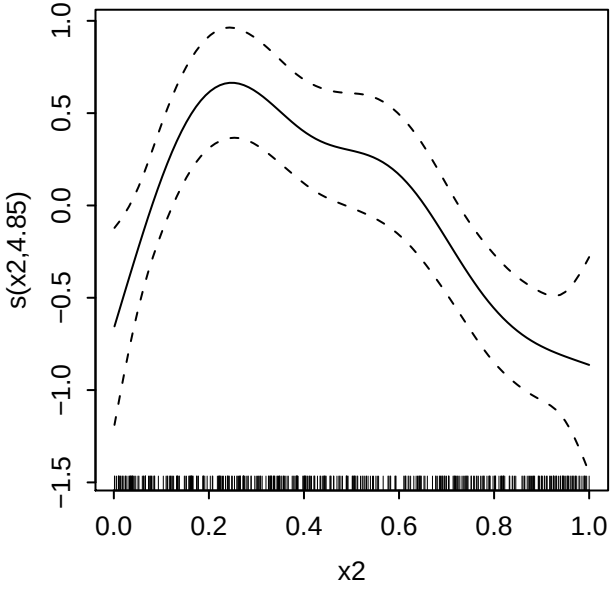

s(x1,1.32)
1.0
0.5
0.0
−0.5
−1.0
−1.5
0.0
0.2
0.4
0.6
0.8
1.0
x1

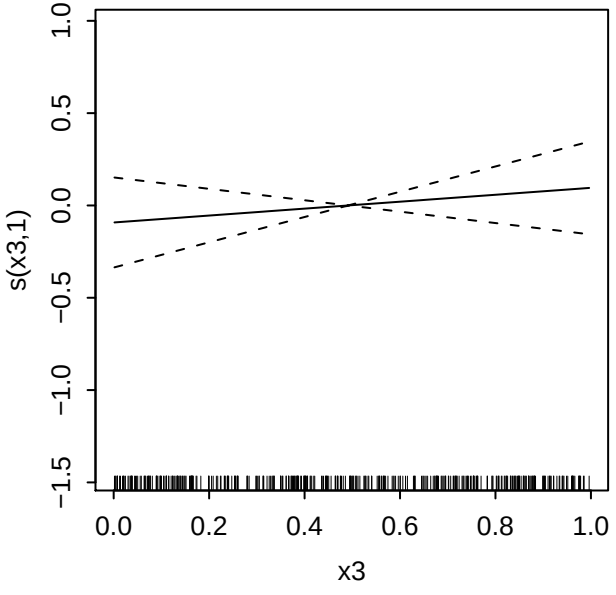

s(x2,4.88)
1.0
0.5
0.0
−0.5
−1.0
−1.5
0.0
0.2
0.4
0.6
0.8
1.0
x2

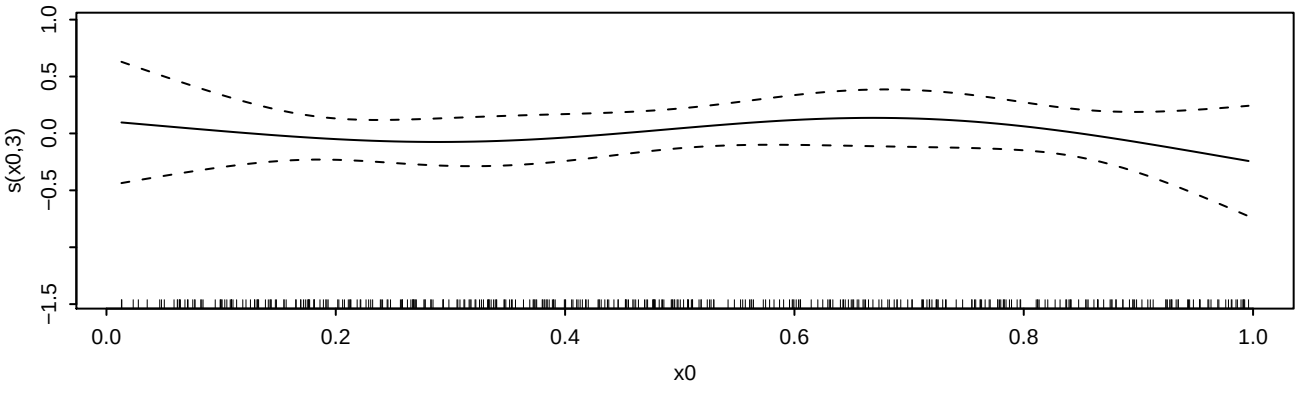

s(x3,1)
1.0
0.5
0.0
−0.5
−1.0
−1.5
0.0
0.2
0.4
0.6
0.8
1.0
x3

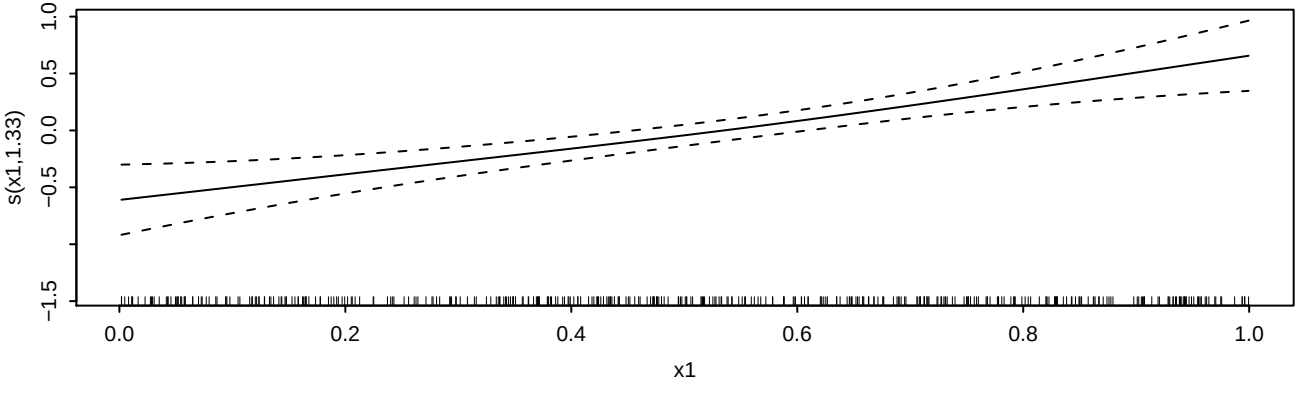

s(x0,1)
1.0
0.5
0.0
−0.5
−1.0
−1.5
0.0
0.2
0.4
0.6
0.8
1.0
x0

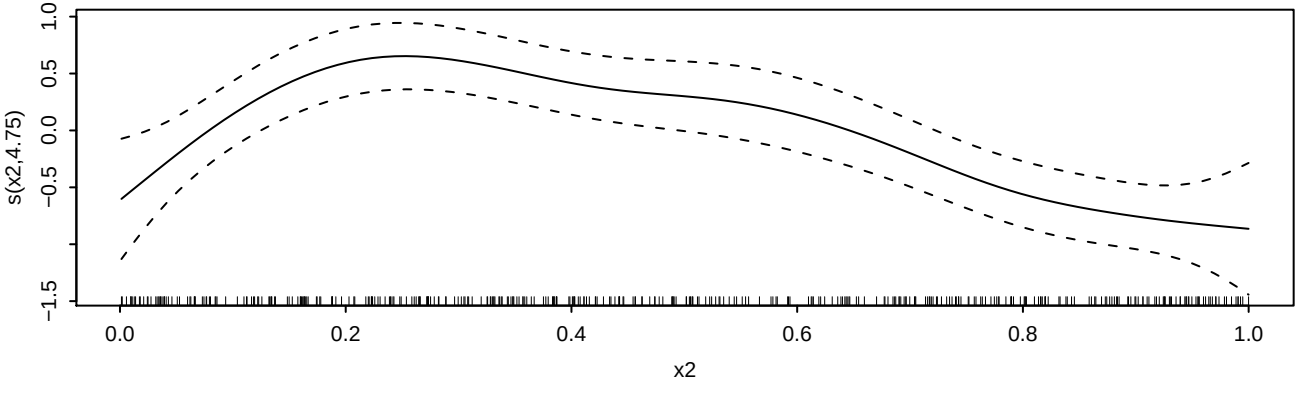

s(x1,1.09)
1.0
0.5
0.0
−0.5
−1.0
−1.5
0.0
0.2
0.4
0.6
0.8
1.0
x1

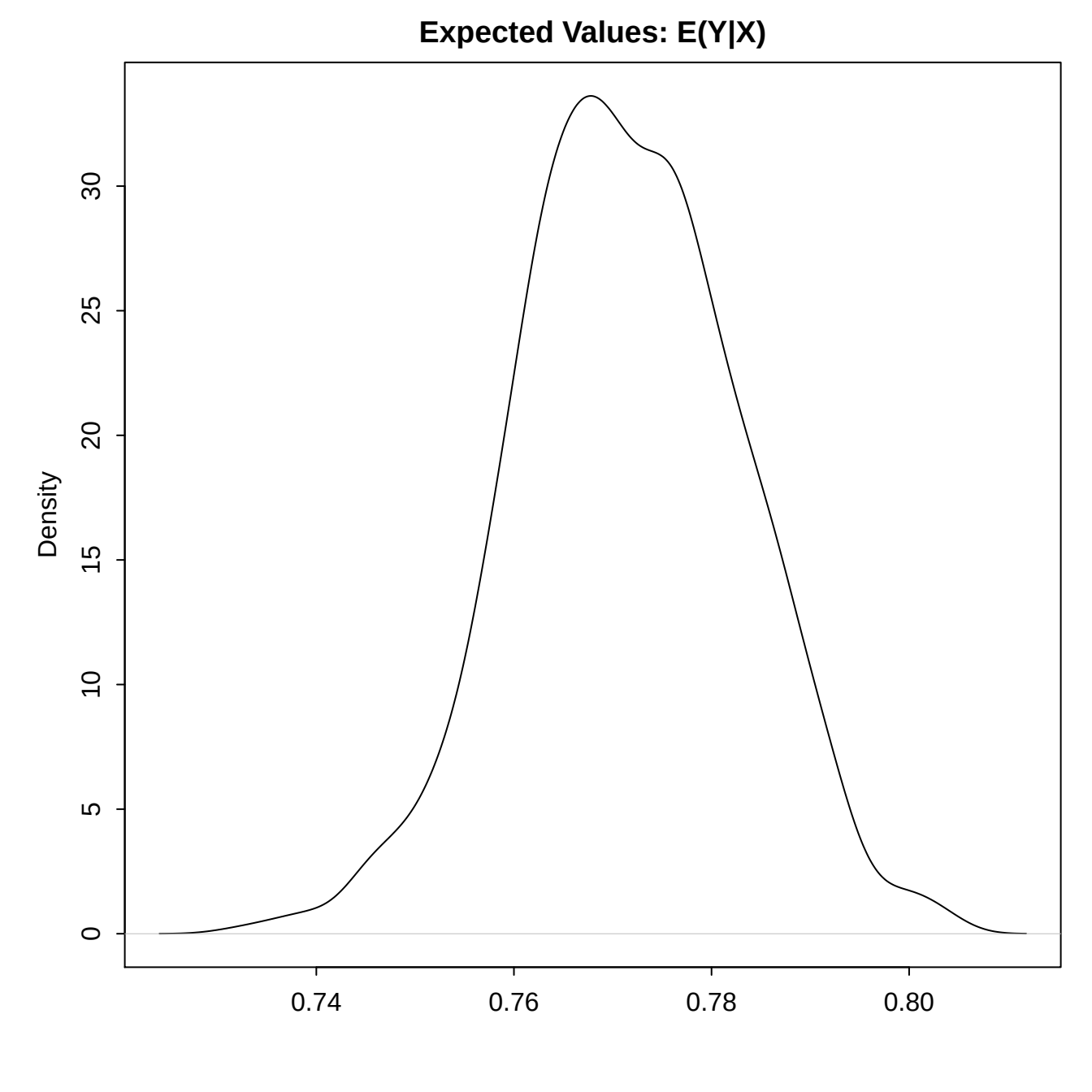

s(x2,4.85)
1.0
0.5
0.0
−0.5
−1.0
−1.5
0.0
0.2
0.4
0.6
0.8
1.0
x2

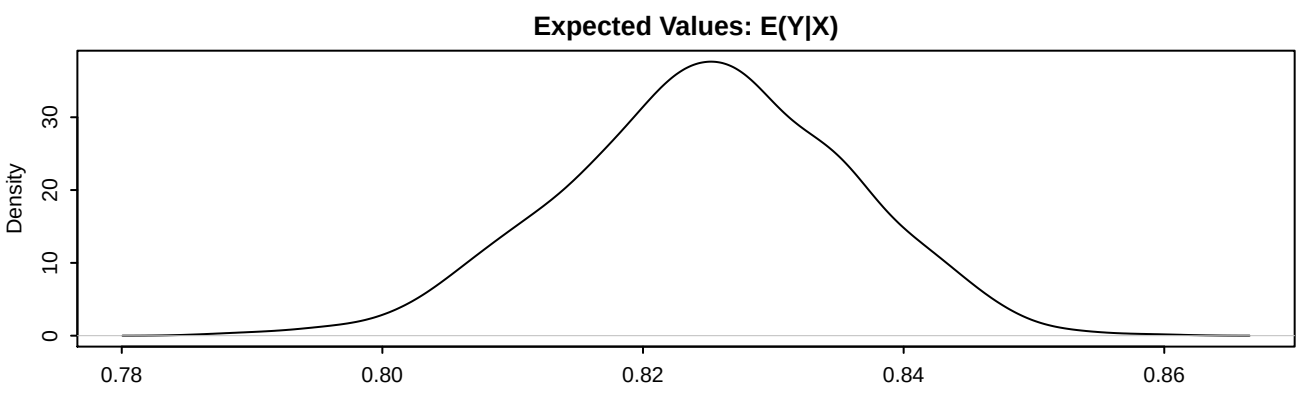

s(x3,1)
1.0
0.5
0.0
−0.5
−1.0
−1.5
0.0
0.2
0.4
0.6
0.8
1.0
x3

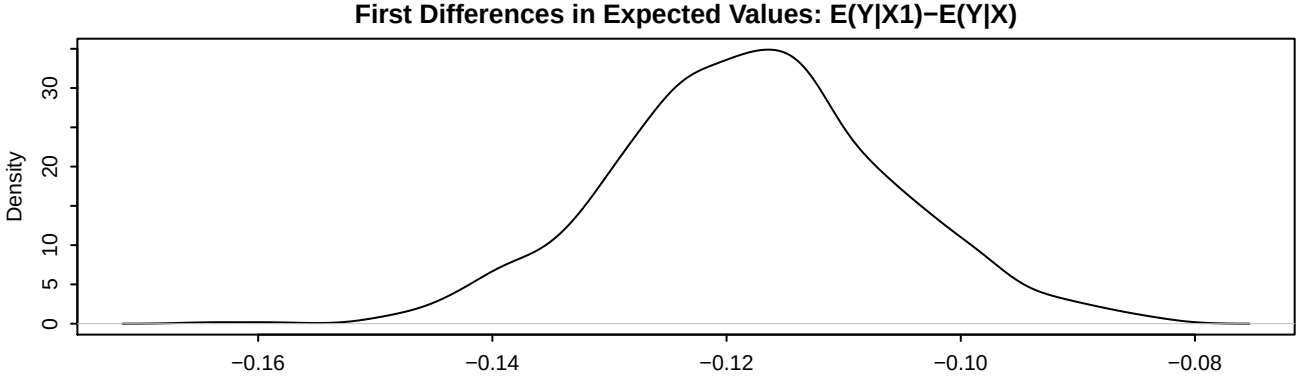

s(x0,3)
1.0
0.5
0.0
−0.5
−1.5
0.0
0.2
0.4
0.6
0.8
1.0
x0

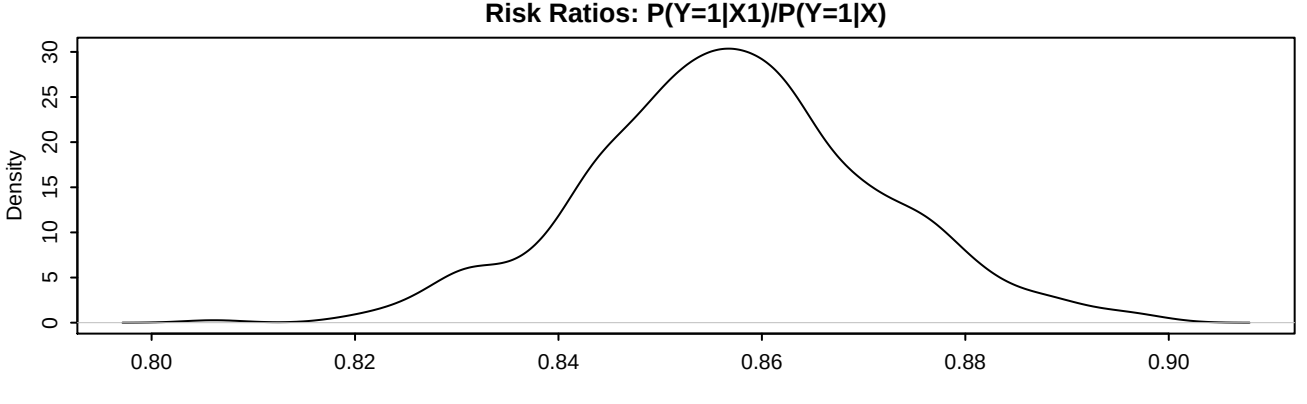

s(x1,1.33)
1.0
0.5
0.0
−0.5
−1.5
0.0
0.2
0.4
0.6
0.8
1.0
x1

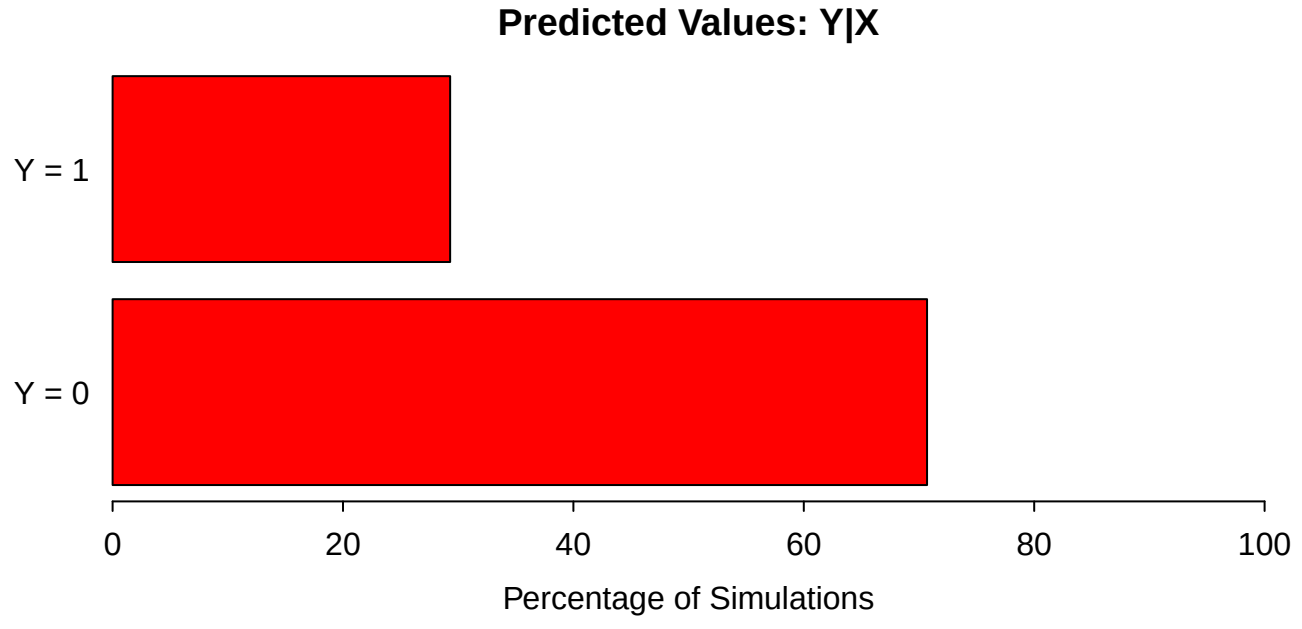

s(x2,4.75)
1.0
0.5
0.0
−0.5
−1.5
0.0
0.2
0.4
0.6
0.8
1.0
x2

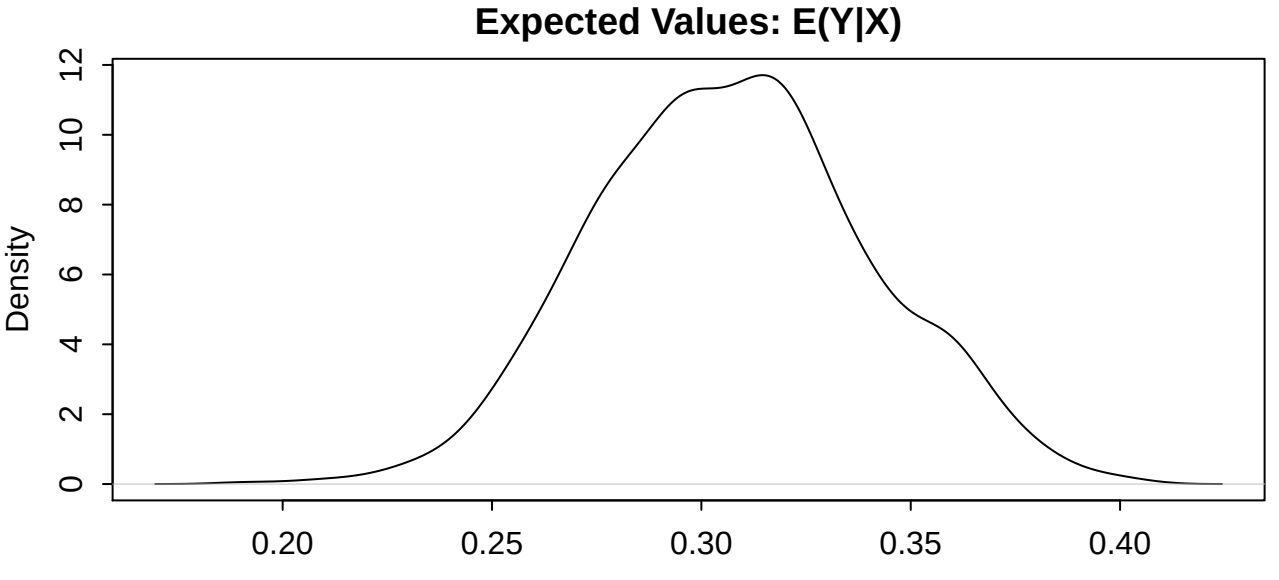

Expected Values: E(Y|X)
Density
0
5
10
15
20
25
30
0.74
0.76
0.78
0.80

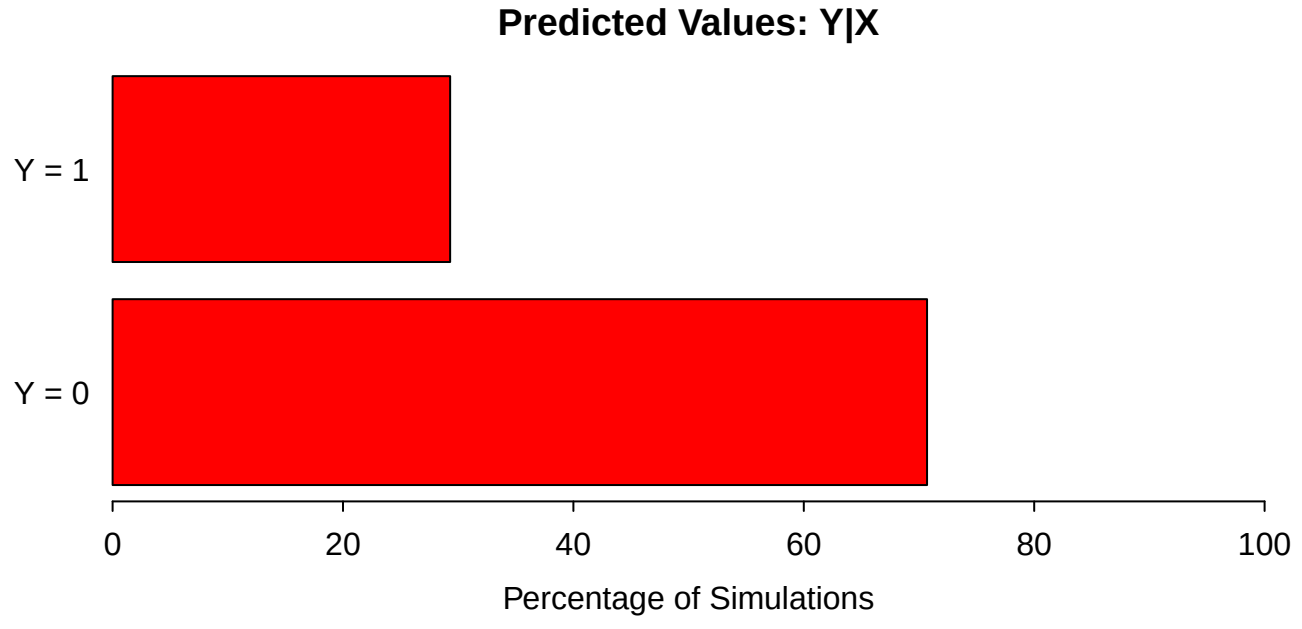

Expected Values: E(Y|X)
Density
0
10
20
30
0.78
0.80
0.82
0.84
0.86

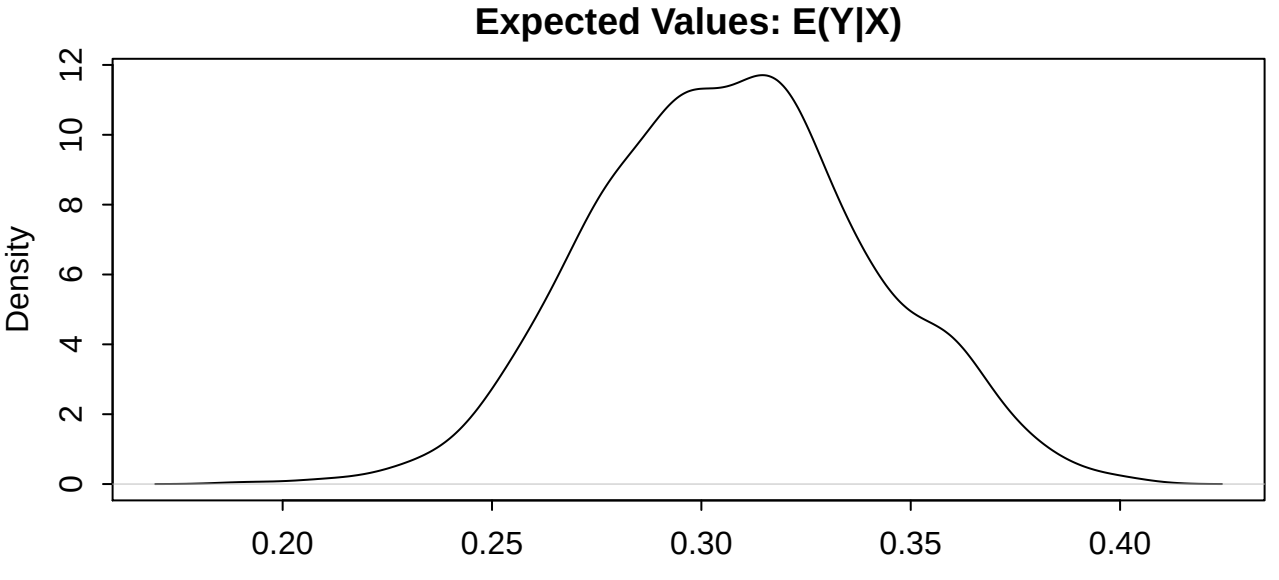

First Differences in Expected Values: E(Y|X1)−E(Y|X)
Density
0
5
10
20
30
−0.16
−0.14
−0.12
−0.10
−0.08

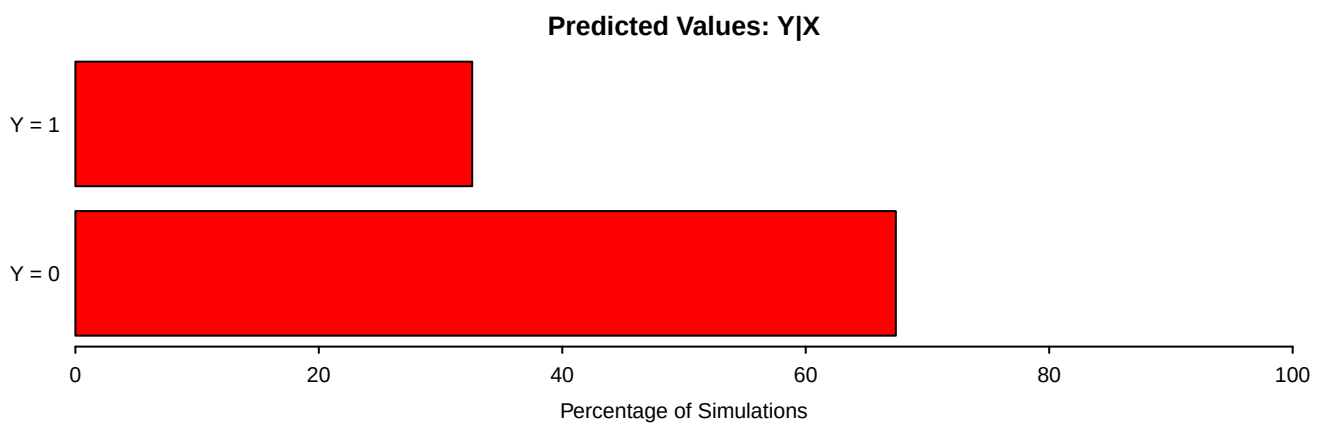

Risk Ratios: P(Y=1|X1)/P(Y=1|X)
Density
0
5
10
15
20
25
30
0.80
0.82
0.84
0.86
0.88
0.90

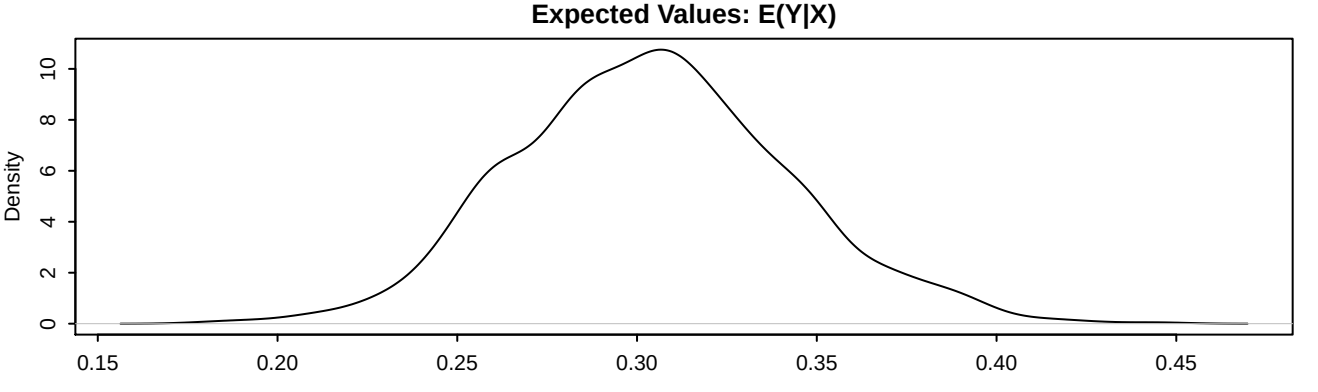

Predicted Values: Y|X
Y = 1
Y = 0
0
20
40
60
80
100
Percentage of Simulations

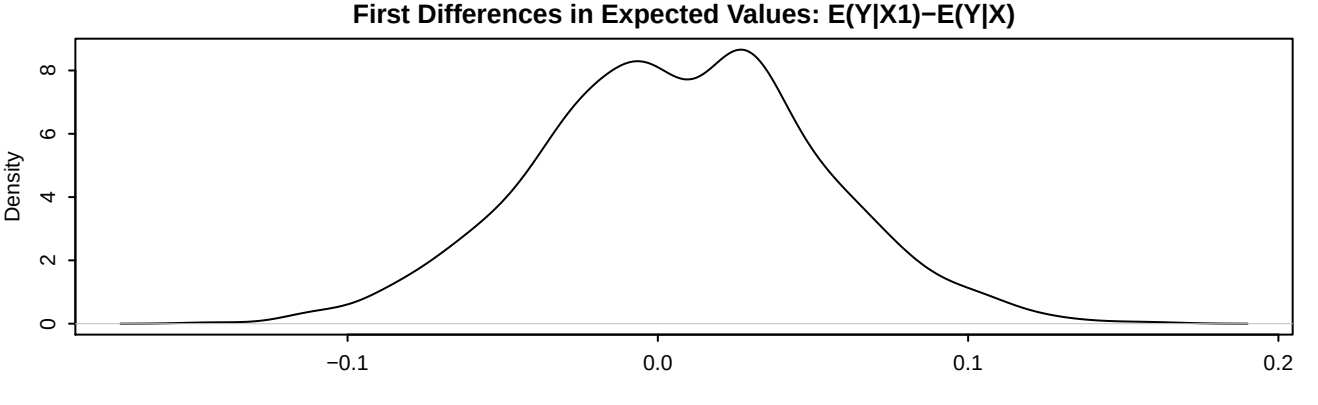

Expected Values: E(Y|X)
Density
0
2
4
6
8
10
12
0.20
0.25
0.30
0.35
0.40

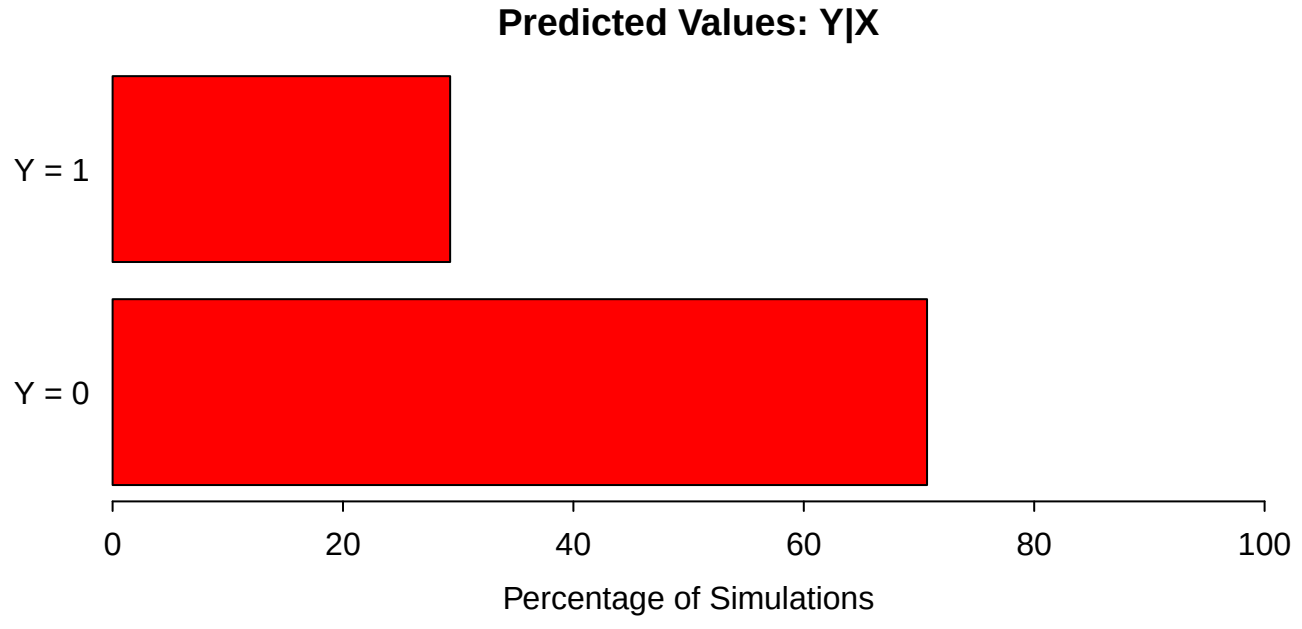

Predicted Values: Y|X
Y = 1
Y = 0
0
20
40
60
80
100
Percentage of Simulations

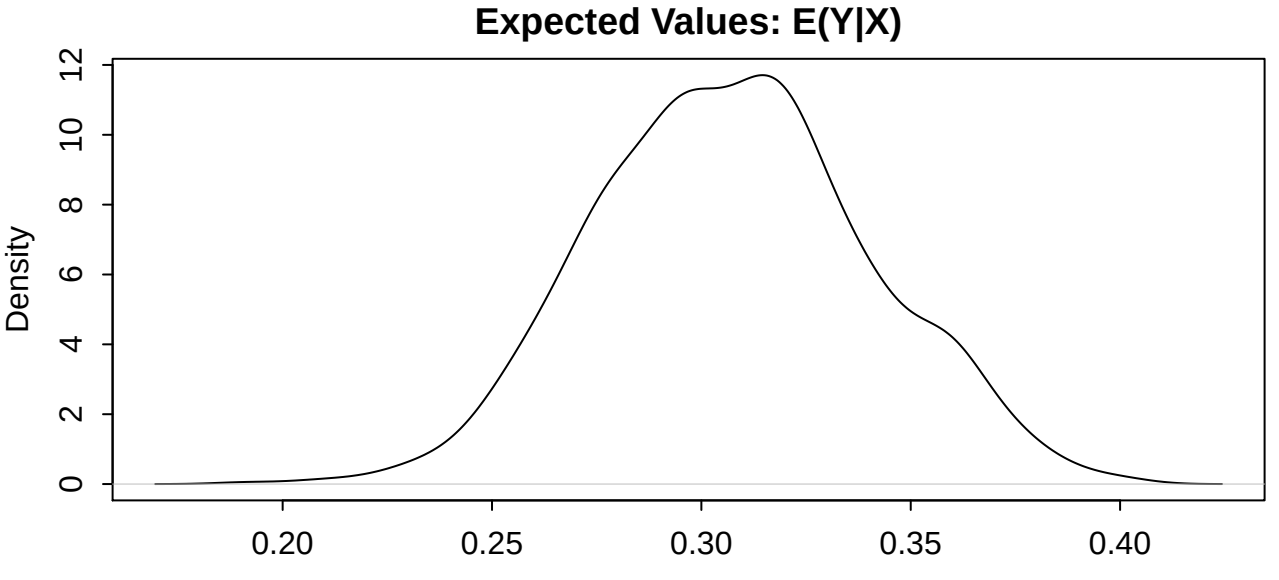

Expected Values: E(Y|X)
Density
0
2
4
6
8
10
12
0.20
0.25
0.30
0.35
0.40

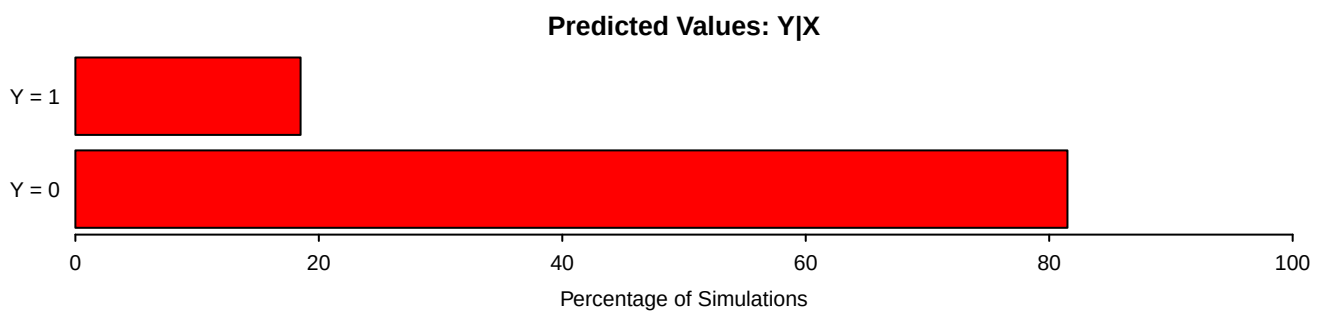

Predicted Values: Y|X
Y = 1
Y = 0
0
20
40
60
80
100
Percentage of Simulations

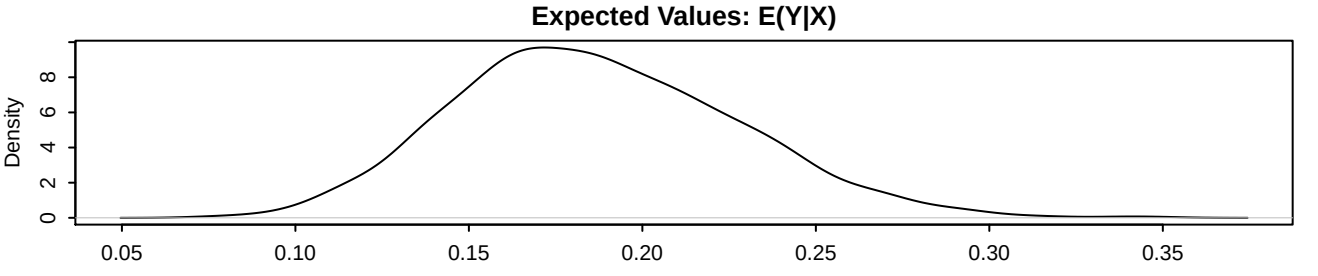

Expected Values: E(Y|X)
Density
0
2
4
6
8
10
0.15
0.20
0.25
0.30
0.35
0.40
0.45

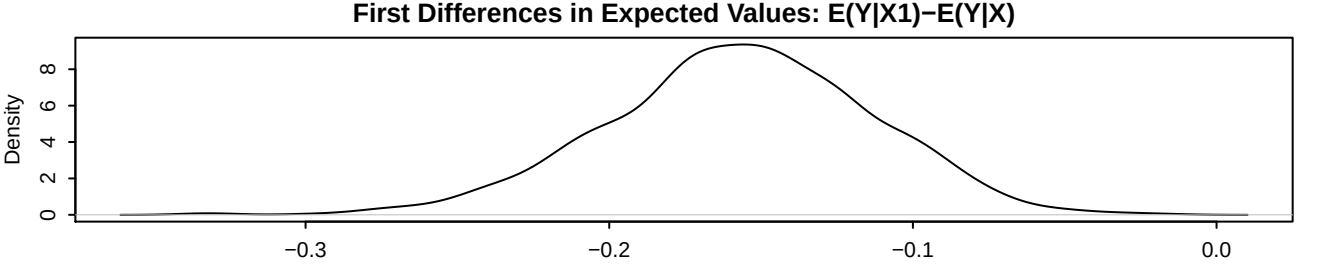

First Differences in Expected Values: E(Y|X1)−E(Y|X)
Density
0
2
4
6
8
−0.1
0.0
0.1
0.2

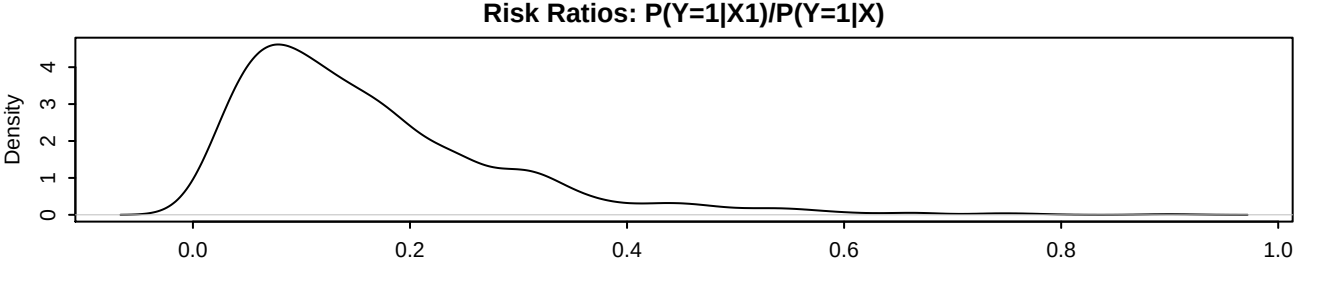

Predicted Values: Y|X
Y = 1
Y = 0
0
20
40
60
80
100
Percentage of Simulations

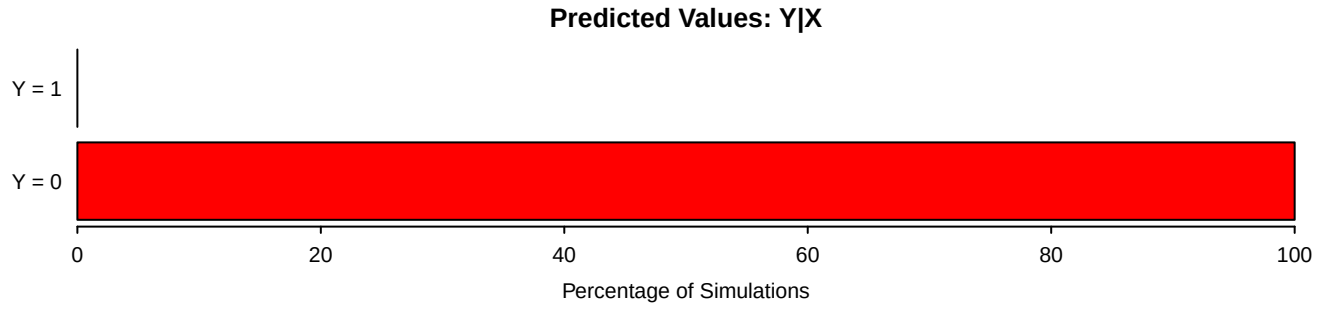

Expected Values: E(Y|X)
Density
0
2
4
6
8
10
12
0.20
0.25
0.30
0.35
0.40

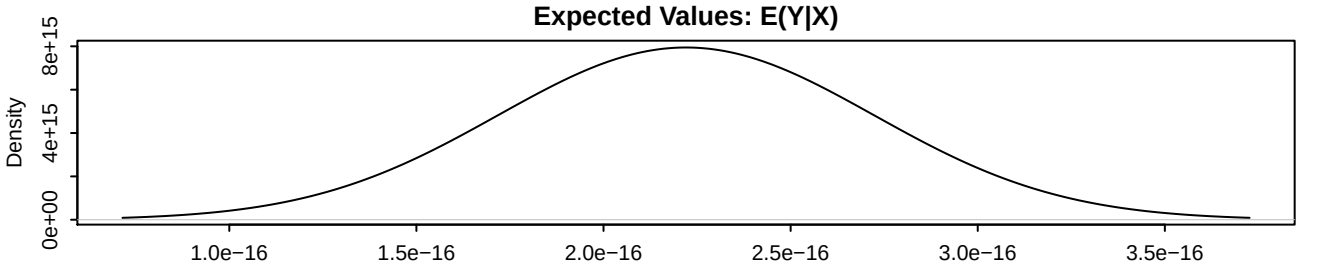

Predicted Values: Y|X
Y = 1
Y = 0
0
20
40
60
80
100
Percentage of Simulations

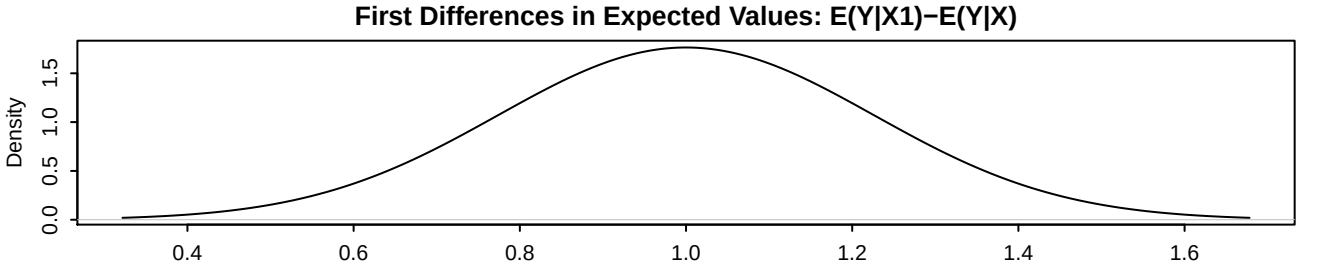

Expected Values: E(Y|X)
Density
0
2
4
6
8
0.05
0.10
0.15
0.20
0.25
0.30
0.35

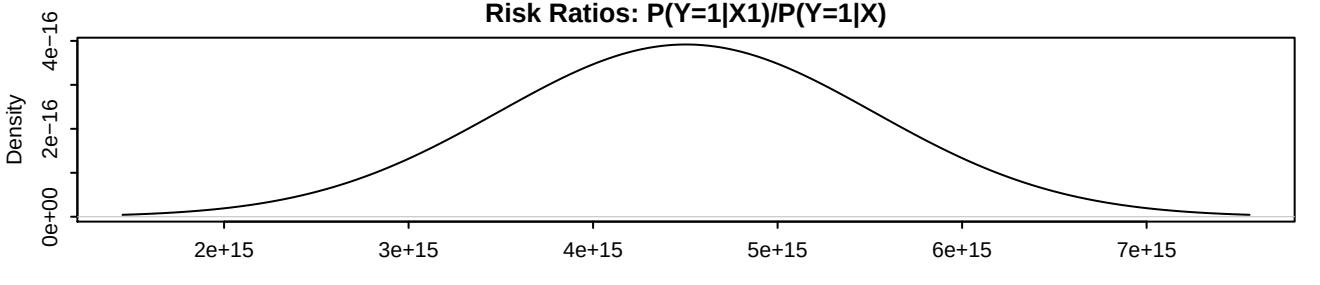

First Differences in Expected Values: E(Y|X1)−E(Y|X)
Density
0
2
4
6
8
−0.3
−0.2
−0.1
0.0

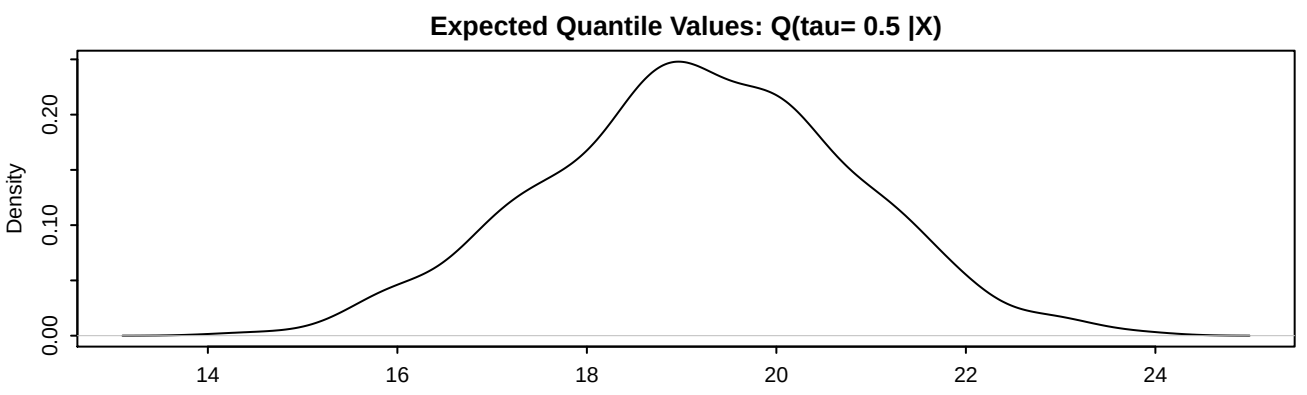

Risk Ratios: P(Y=1|X1)/P(Y=1|X)
Density
0
1
2
3
4
0.0
0.2
0.4
0.6
0.8
1.0

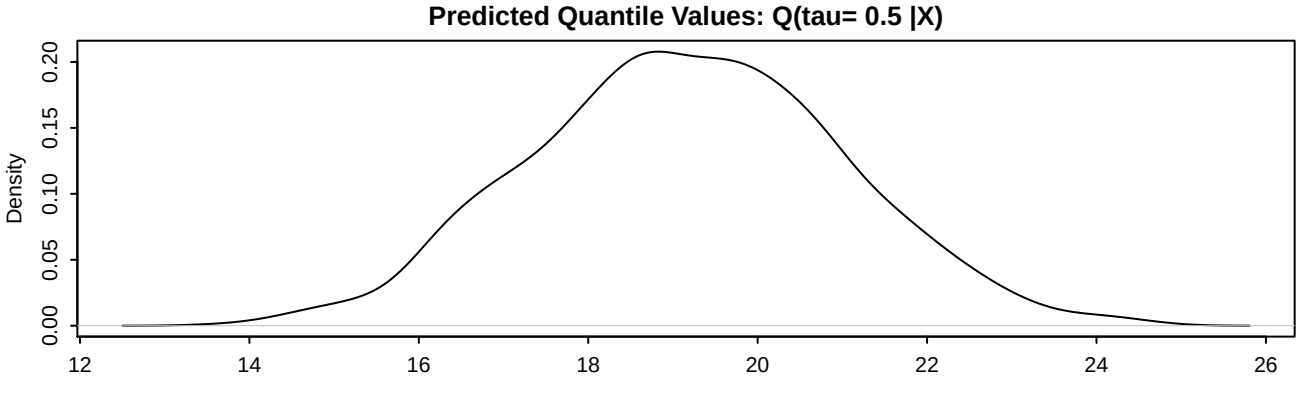

Predicted Values: Y|X
Y = 1
Y = 0
0
20
40
60
80
100
Percentage of Simulations

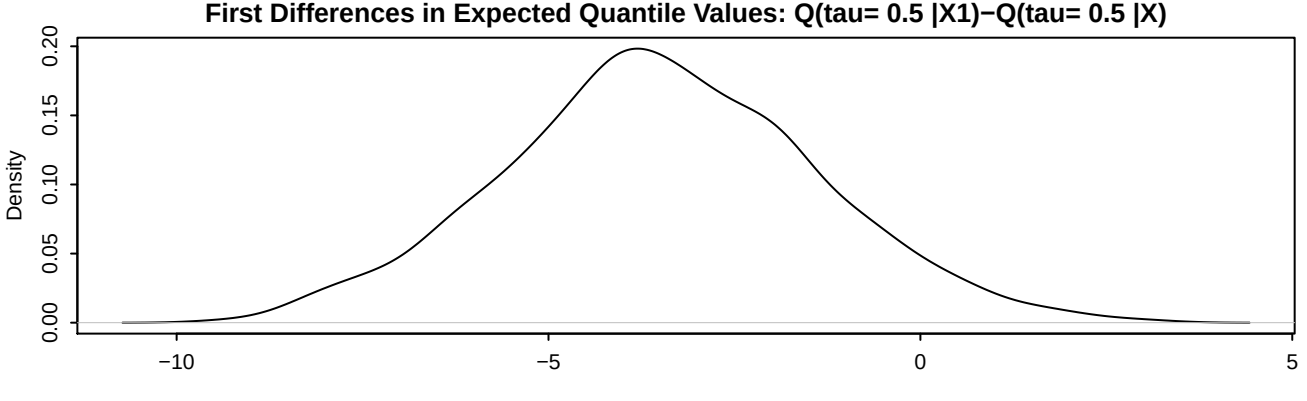

Expected Values: E(Y|X)
Density
0e+00
4e+15
8e+15
1.0e−16
1.5e−16
2.0e−16
2.5e−16
3.0e−16
3.5e−16

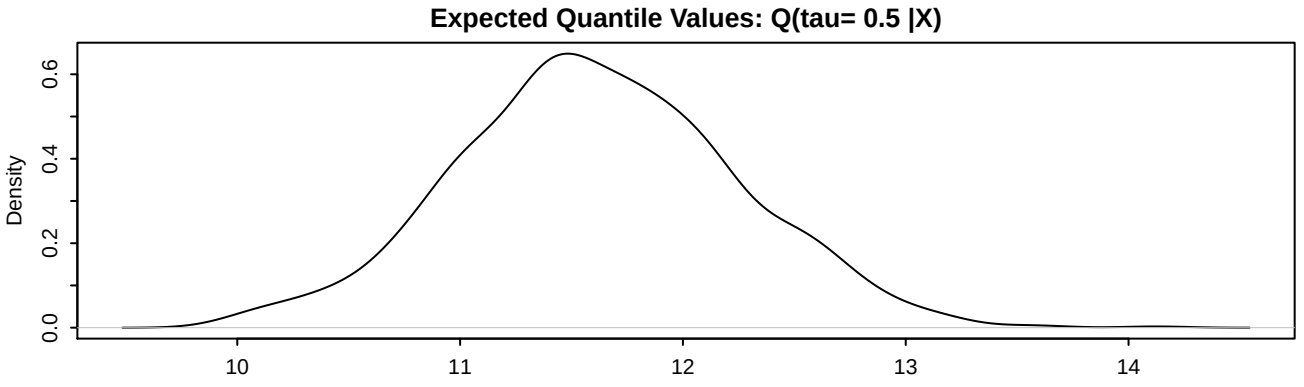

First Differences in Expected Values: E(Y|X1)−E(Y|X)
Density
0.0
0.5
1.0
1.5
0.4
0.6
0.8
1.0
1.2
1.4
1.6

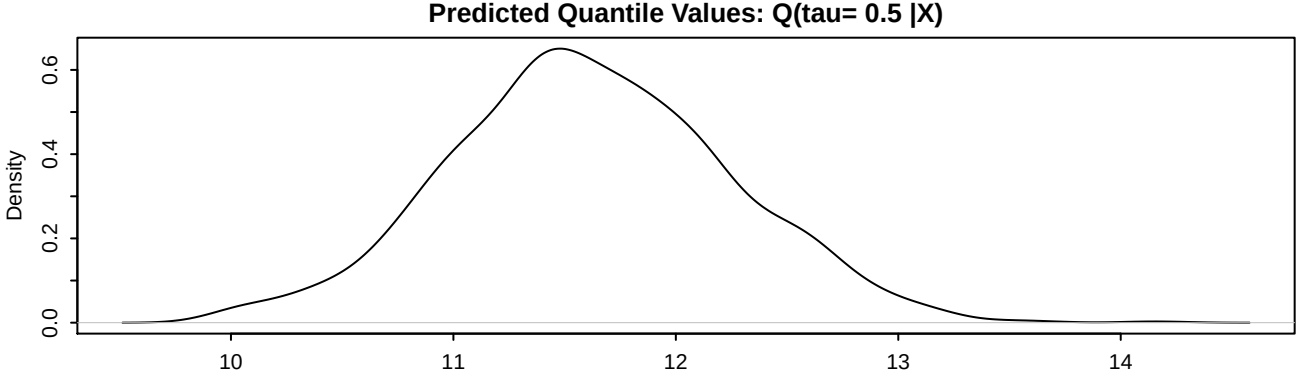

Risk Ratios: P(Y=1|X1)/P(Y=1|X)
Density
0e+00
2e−16
4e−16
2e+15
3e+15
4e+15
5e+15
6e+15
7e+15

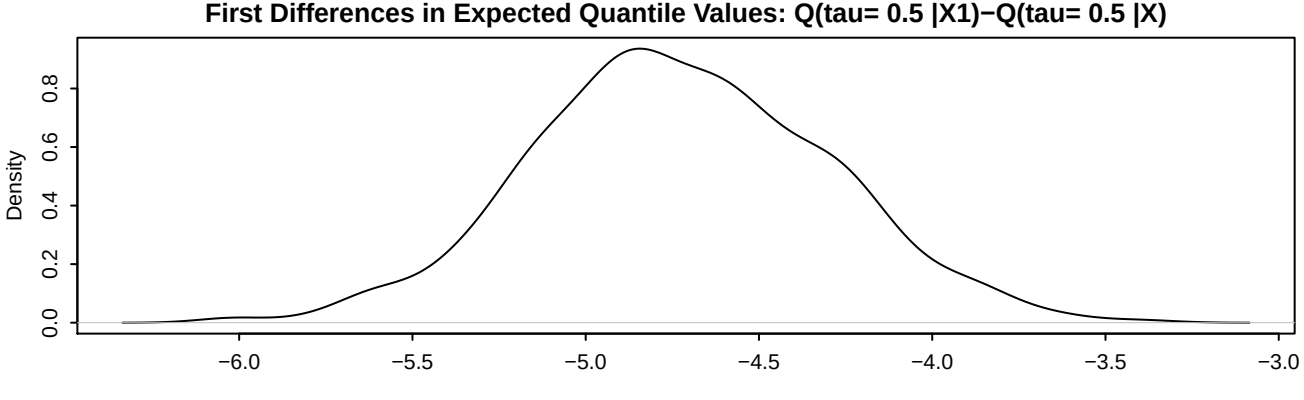

Expected Quantile Values: Q(tau= 0.5 |X)
Density
0.00
0.10
0.20
14
16
18
20
22
24

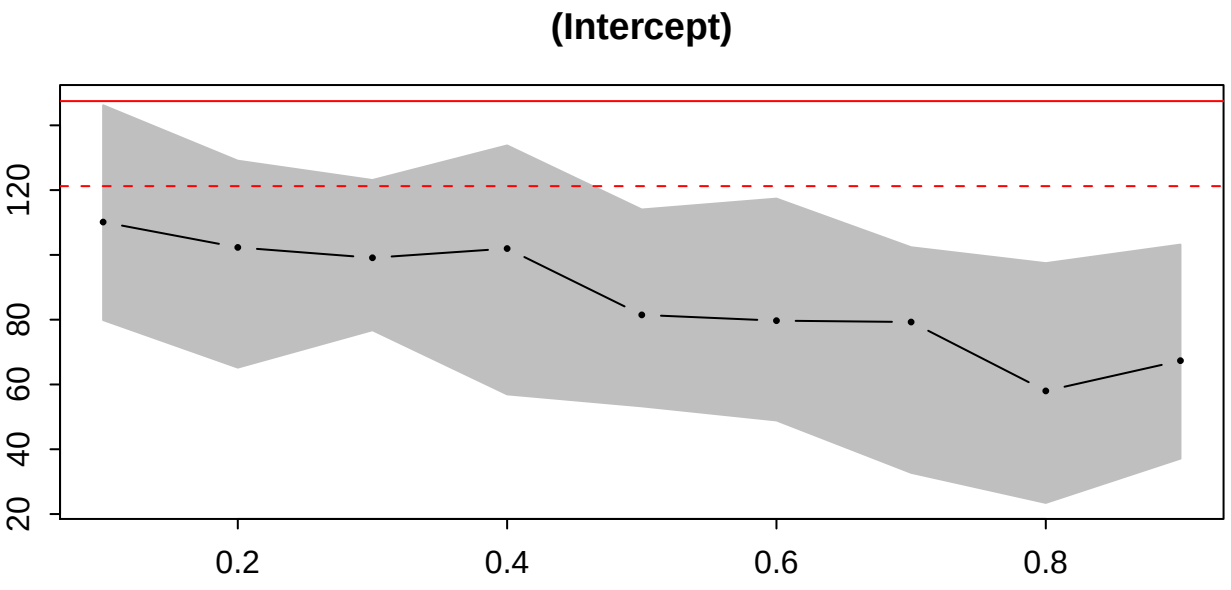

Predicted Quantile Values: Q(tau= 0.5 |X)
Density
0.00
0.05
0.10
0.15
0.20
12
14
16
18
20
22
24
26

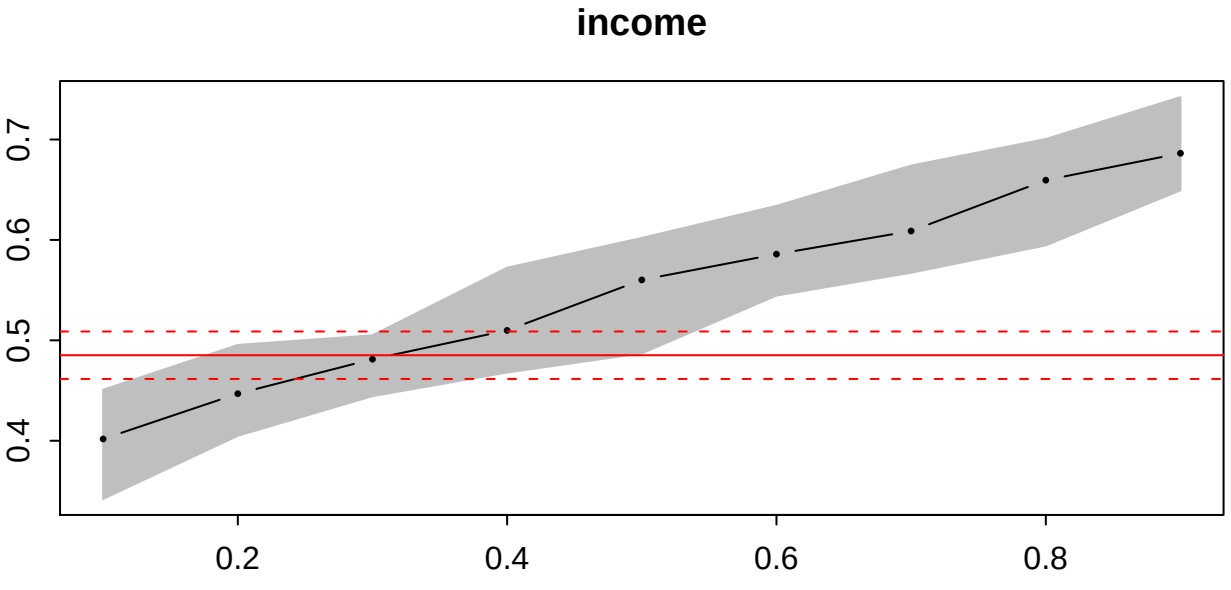

First Differences in Expected Quantile Values: Q(tau= 0.5 |X1)−Q(tau= 0.5 |X)
Density
0.00
0.05
0.10
0.15
0.20
−10
−5
0
5

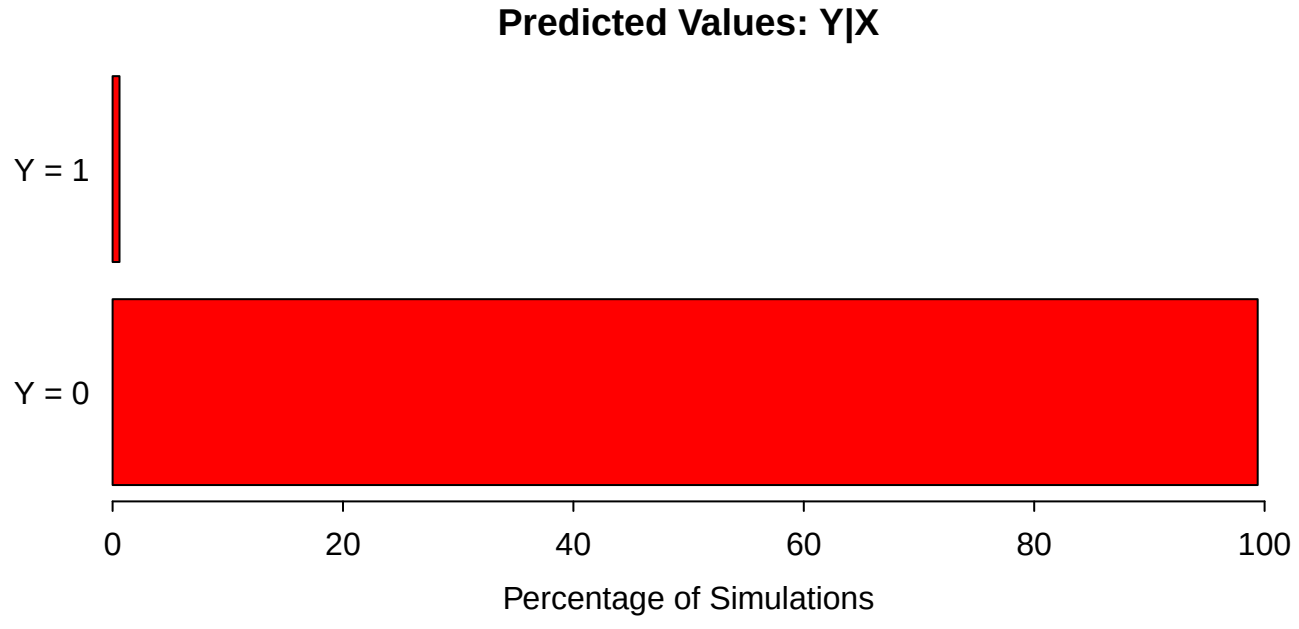

Expected Quantile Values: Q(tau= 0.5 |X)
Density
0.0
0.2
0.4
0.6
10
11
12
13
14

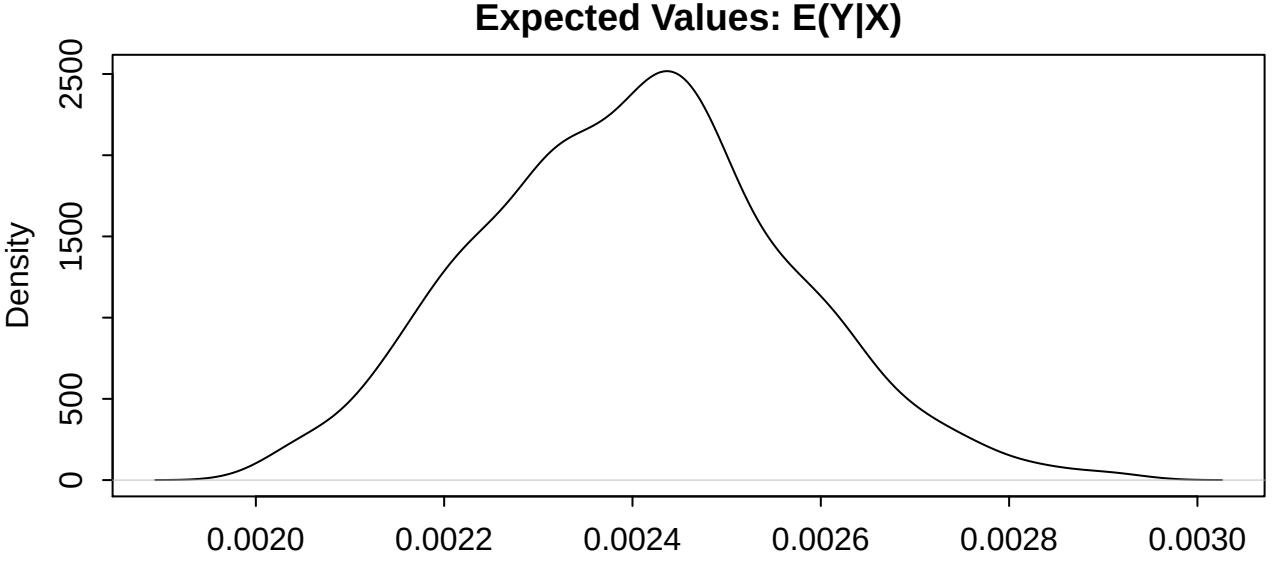

Predicted Quantile Values: Q(tau= 0.5 |X)
Density
0.0
0.2
0.4
0.6
10
11
12
13
14

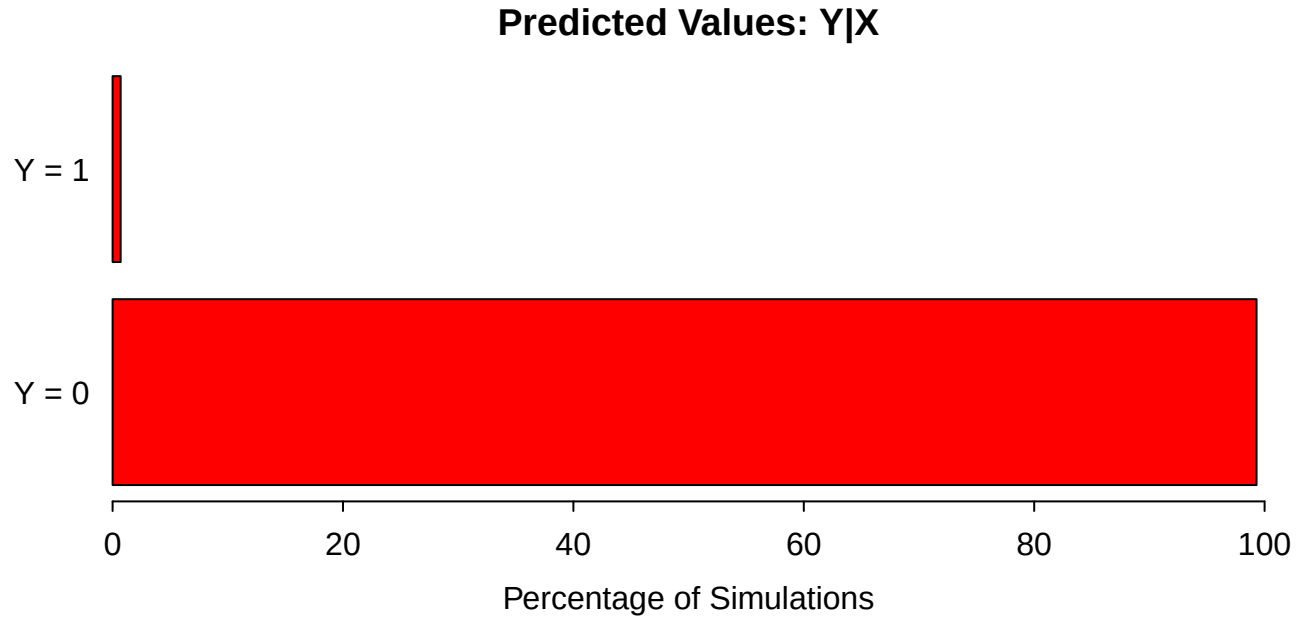

First Differences in Expected Quantile Values: Q(tau= 0.5 |X1)−Q(tau= 0.5 |X)
Density
0.0
0.2
0.4
0.6
0.8
−6.0
−5.5
−5.0
−4.5
−4.0
−3.5
−3.0

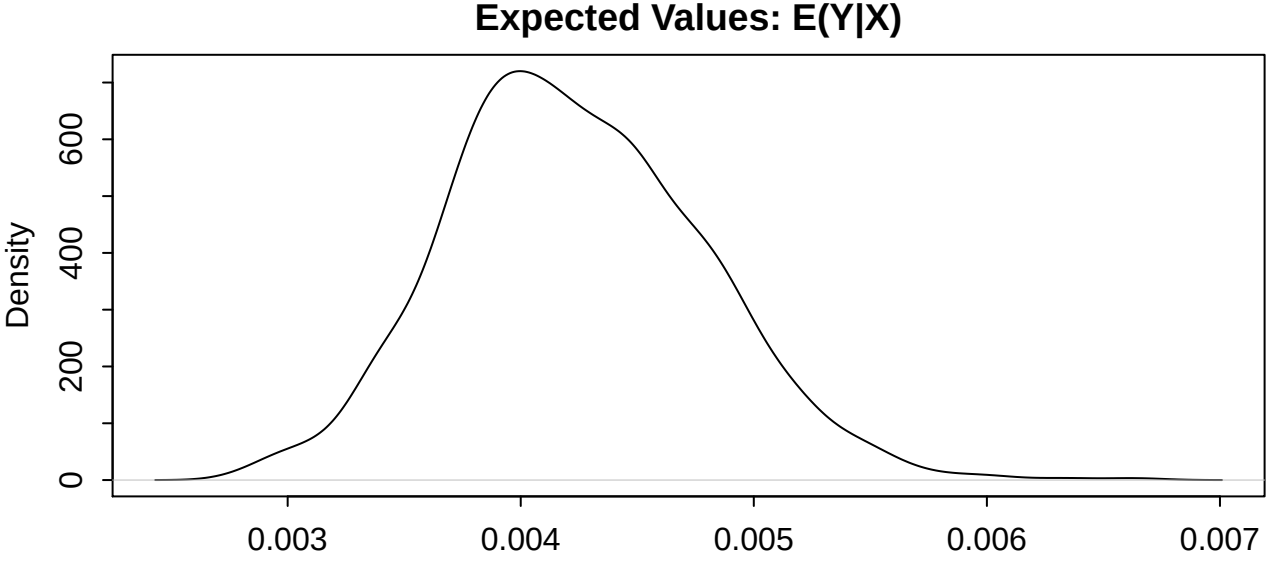

(Intercept)
120
80
60
40
20
0.2
0.4
0.6
0.8

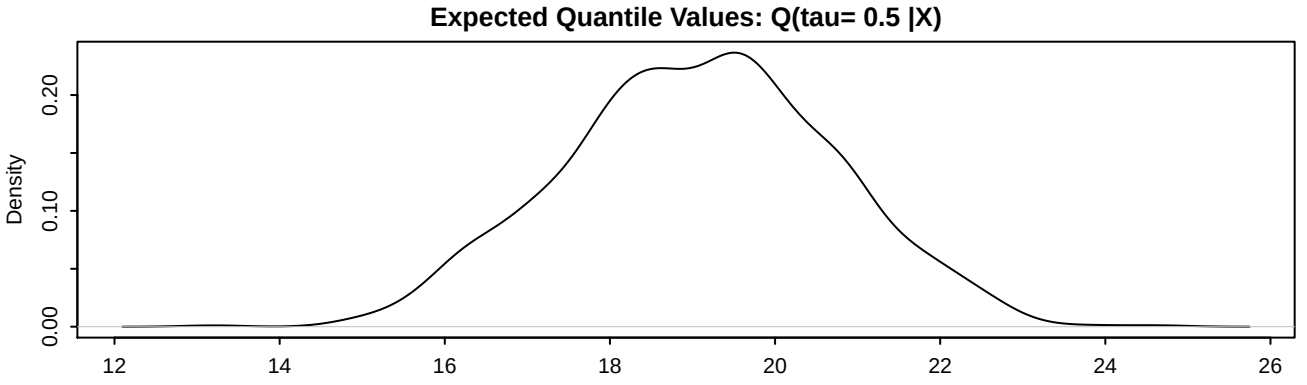

income
0.7
0.6
0.5
0.4
0.2
0.4
0.6
0.8

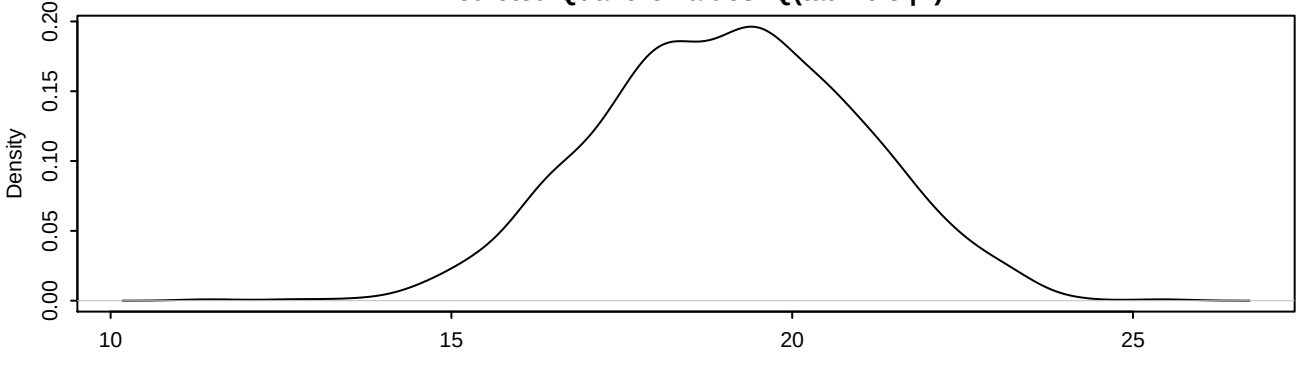

Predicted Values: Y|X
Y = 1
Y = 0
0
20
40
60
80
100
Percentage of Simulations

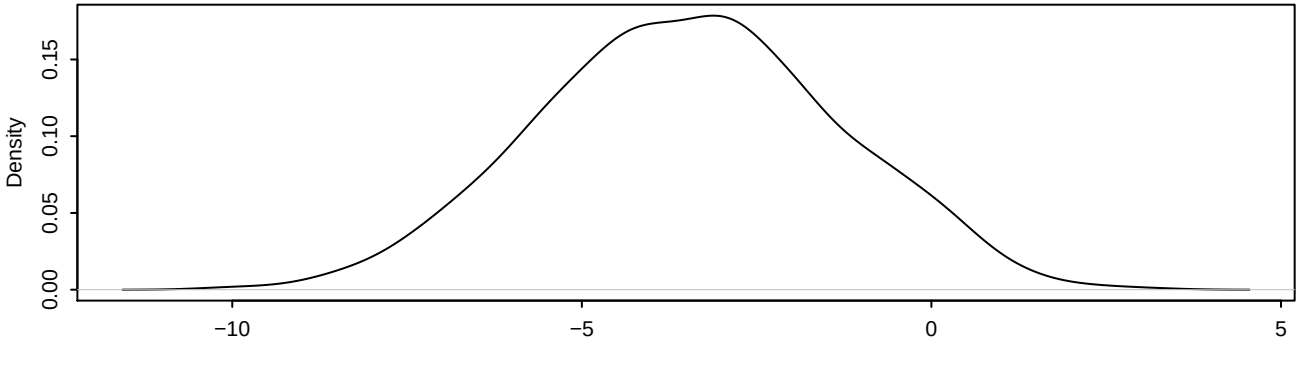

Expected Values: E(Y|X)
Density
0
500
1500
2500
0.0020
0.0022
0.0024
0.0026
0.0028
0.0030

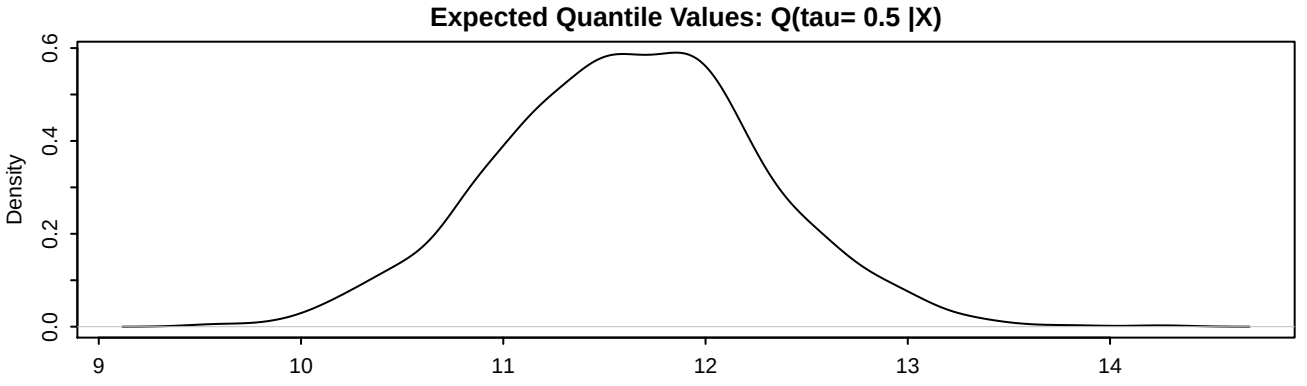

Predicted Values: Y|X
Y = 1
Y = 0
0
20
40
60
80
100
Percentage of Simulations

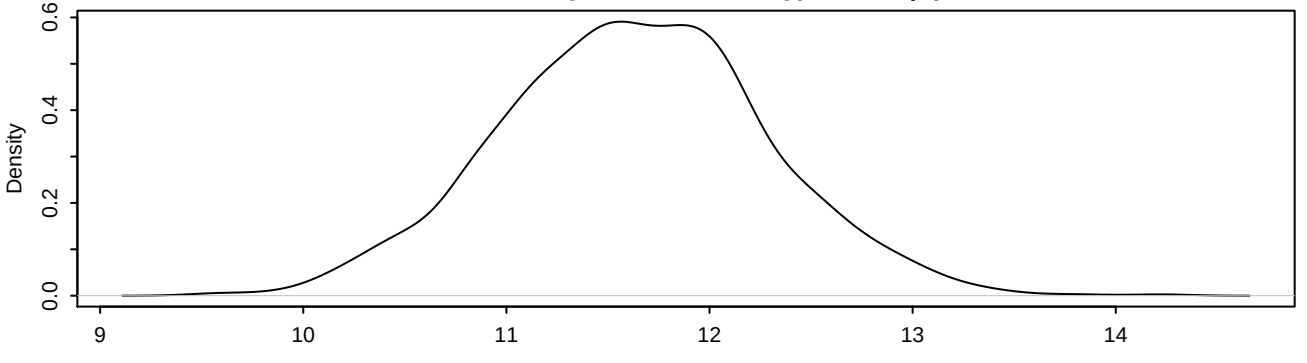

Expected Values: E(Y|X)
Density
0
200
400
600
0.003
0.004
0.005
0.006
0.007

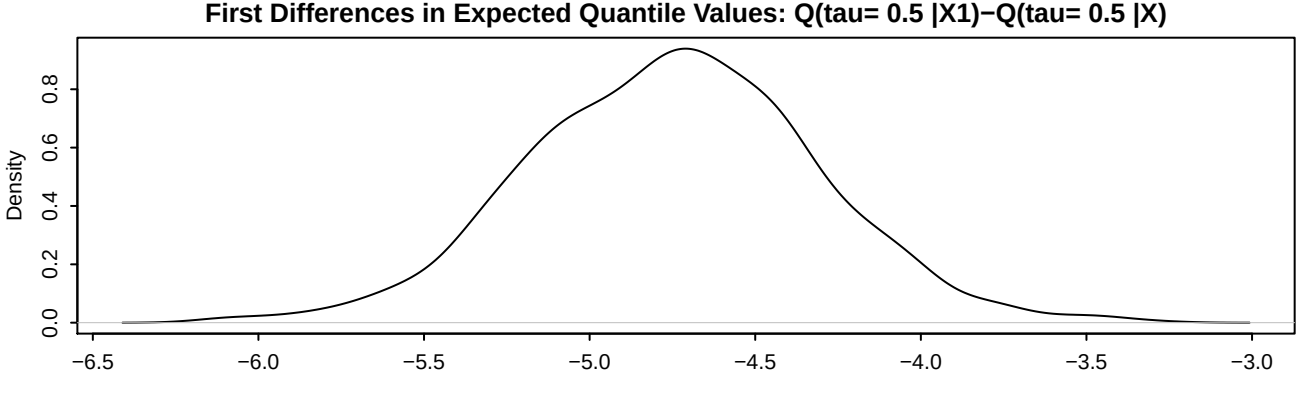

Expected Quantile Values: Q(tau= 0.5 |X)
Density
0.00
0.10
0.20
12
14
16
18
20
22
24
26

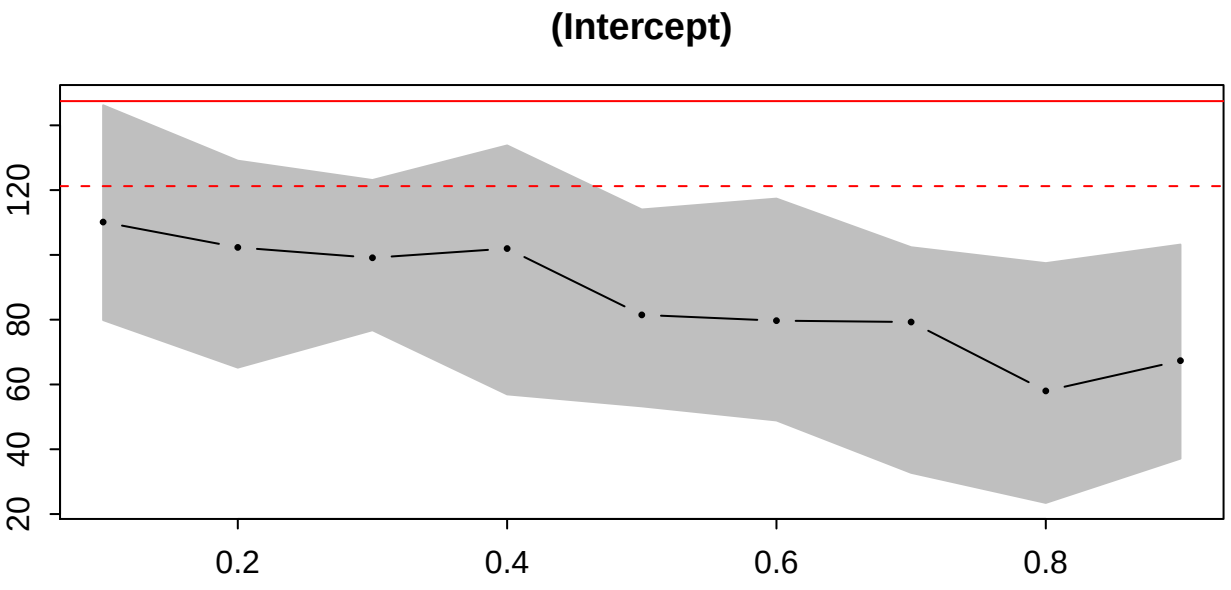

Predicted Quantile Values: Q(tau= 0.5 |X)
Density
0.00
0.05
0.10
0.15
0.20
10
15
20
25

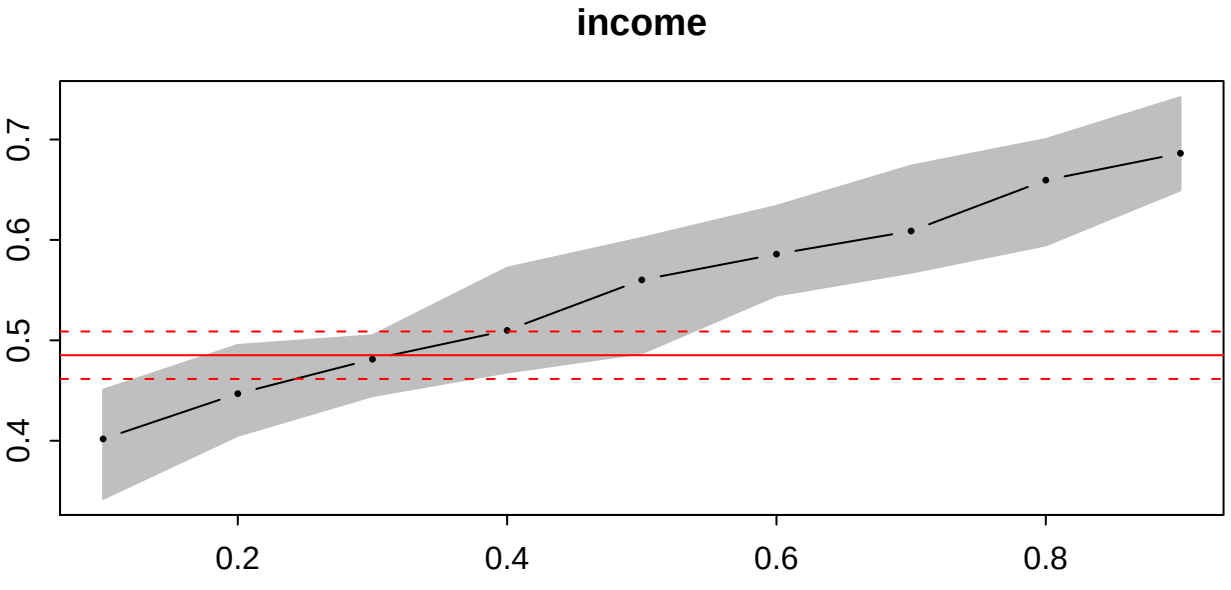

First Differences in Expected Quantile Values: Q(tau= 0.5 |X1)−Q(tau= 0.5 |X)
Density
0.00
0.05
0.10
0.15
−10
−5
0
5

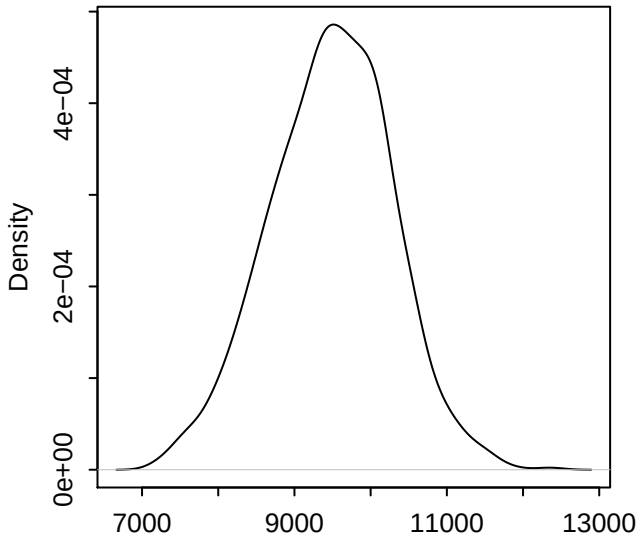

Expected Quantile Values: Q(tau= 0.5 |X)
Density
0.0
0.2
0.4
0.6
9
10
11
12
13
14

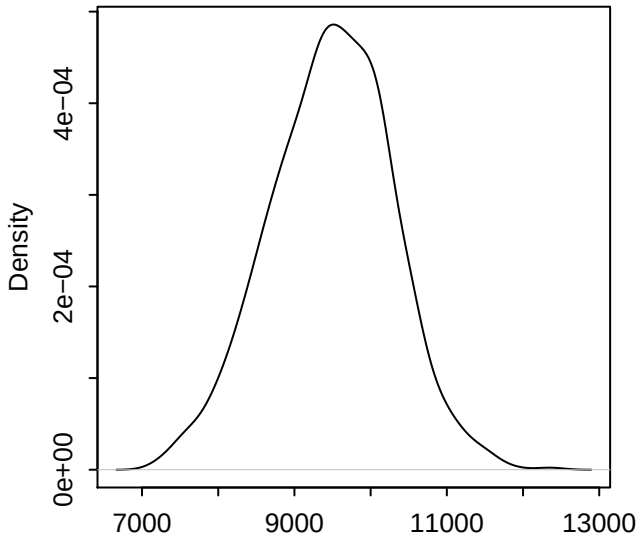

Predicted Quantile Values: Q(tau= 0.5 |X)
Density
0.0
0.2
0.4
0.6
9
10
11
12
13
14

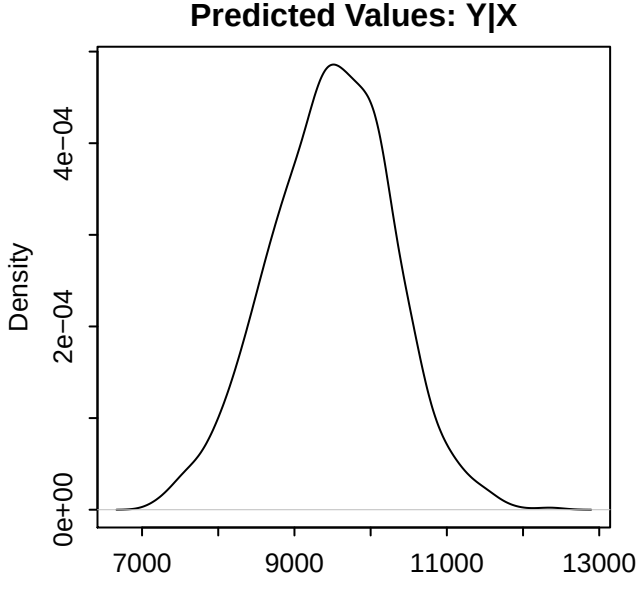

First Differences in Expected Quantile Values: Q(tau= 0.5 |X1)−Q(tau= 0.5 |X)
Density
0.0
0.2
0.4
0.6
0.8
−6.5
−6.0
−5.5
−5.0
−4.5
−4.0
−3.5
−3.0

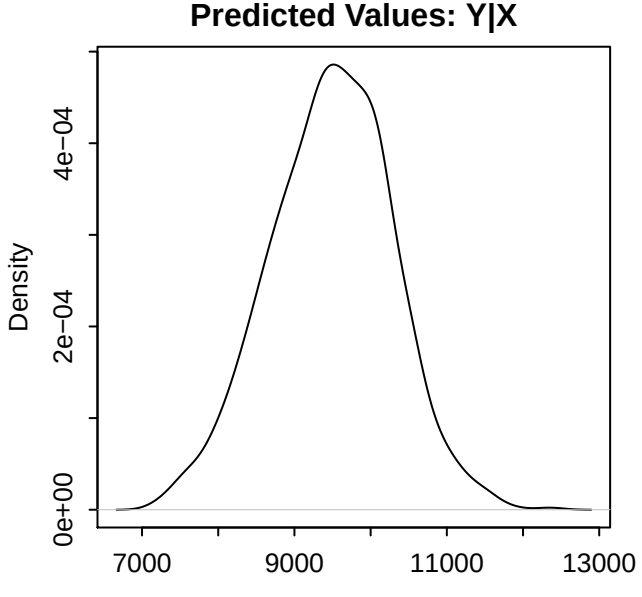

(Intercept)
120
80
60
40
20
0.2
0.4
0.6
0.8

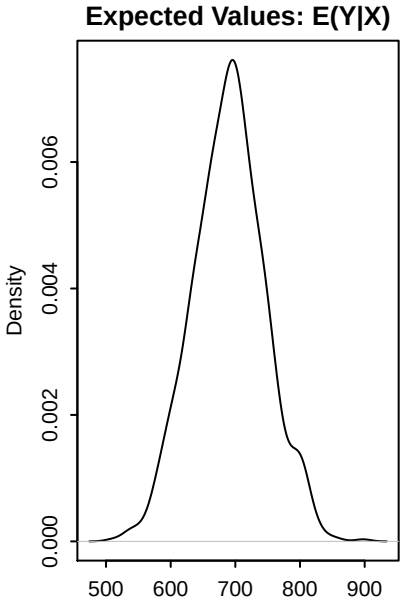

income
0.7
0.6
0.5
0.4
0.2
0.4
0.6
0.8

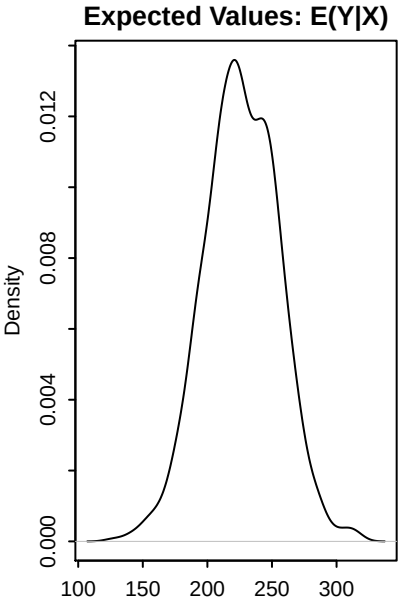

Expected Values: E(Y|X)
Density
0e+00
2e−04
4e−04
7000
9000
11000
13000

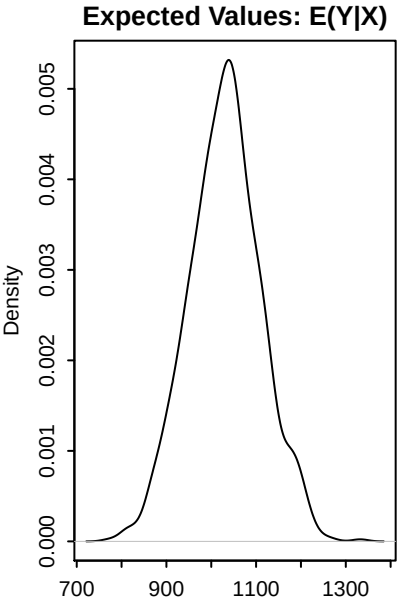

Expected Values: E(Y|X)
Density
0e+00
2e−04
4e−04
7000
9000
11000
13000

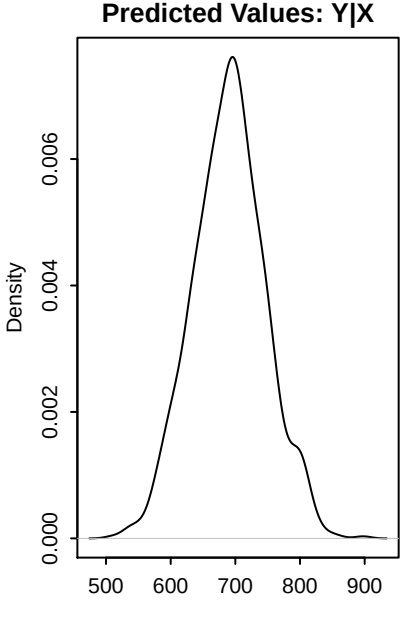

Predicted Values: Y|X
Density
0e+00
2e−04
4e−04
7000
9000
11000
13000

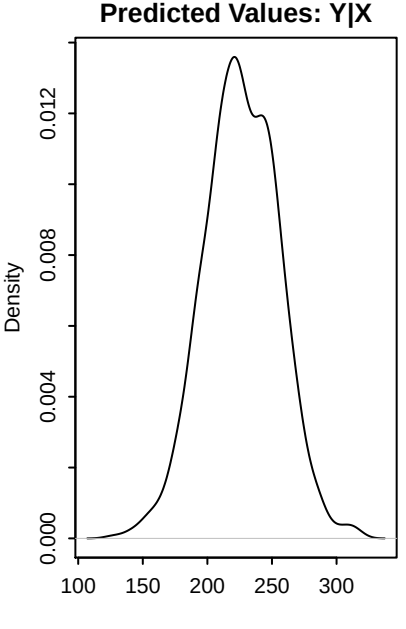

Predicted Values: Y|X
Density
0e+00
2e−04
4e−04
7000
9000
11000
13000

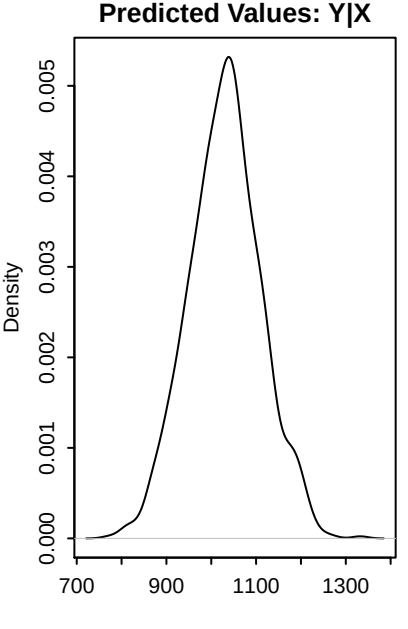

Expected Values: E(Y|X)
Density
0.000
0.002
0.004
0.006
500
600
700
800
900

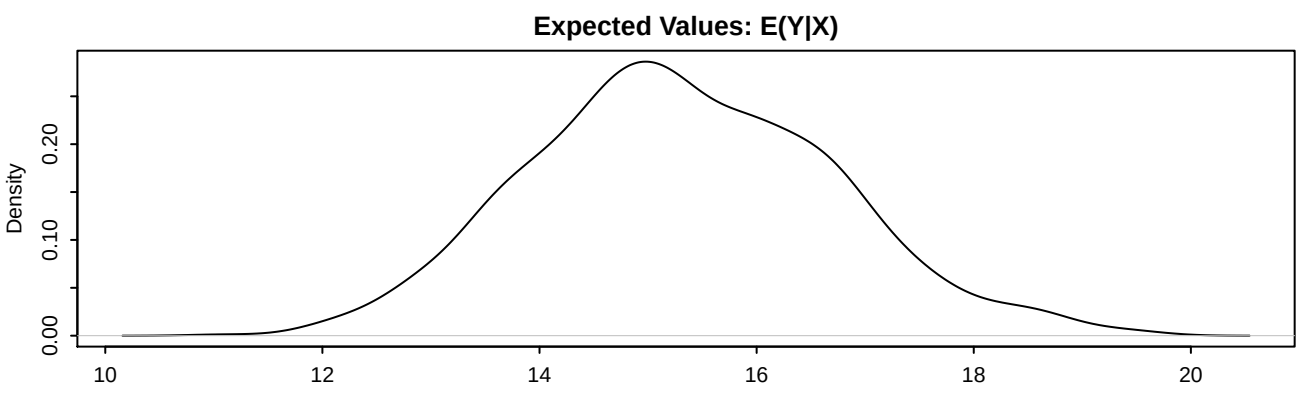

Expected Values: E(Y|X)
Density
0.000
0.004
0.008
0.012
100
150
200
250
300

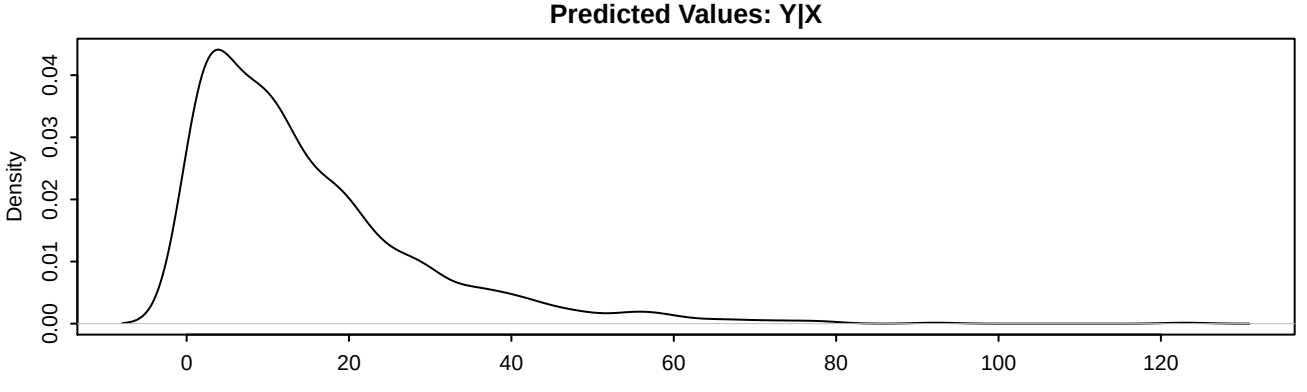

Expected Values: E(Y|X)
Density
0.000
0.001
0.002
0.003
0.004
0.005
700
900
1100
1300

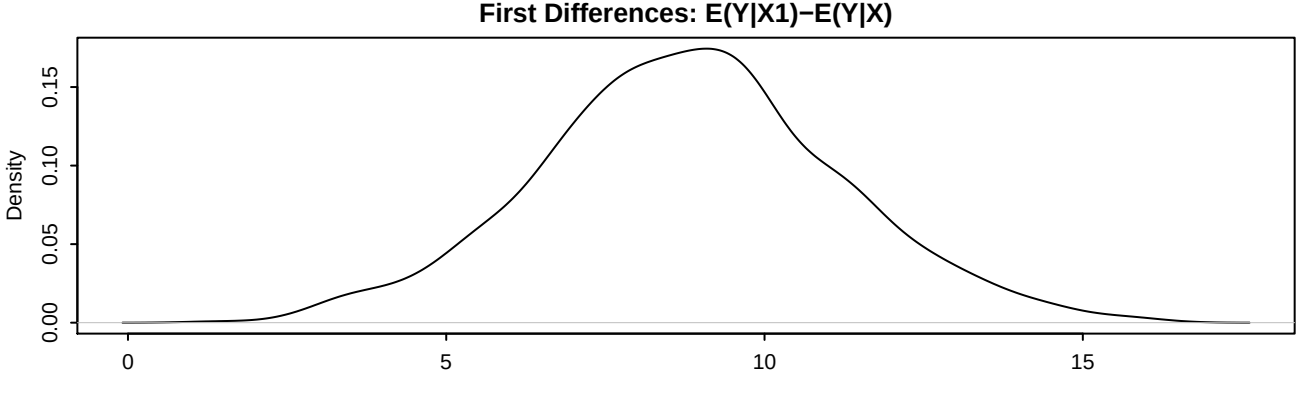

Predicted Values: Y|X
Density
0.000
0.002
0.004
0.006
500
600
700
800
900


Predicted Values: Y|X
Density
0.000
0.004
0.008
0.012
100
150
200
250
300


Predicted Values: Y|X
Density
0.000
0.001
0.002
0.003
0.004
0.005
700
900
1100
1300


Expected Values: E(Y|X)
Density
0.00
0.10
0.20
10
12
14
16
18
20


Predicted Values: Y|X
Density
0.00
0.01
0.02
0.03
0.04
0
20
40
60
80
100
120


First Differences: E(Y|X1)−E(Y|X)
Density
0.00
0.05
0.10
0.15
0
5
10
15