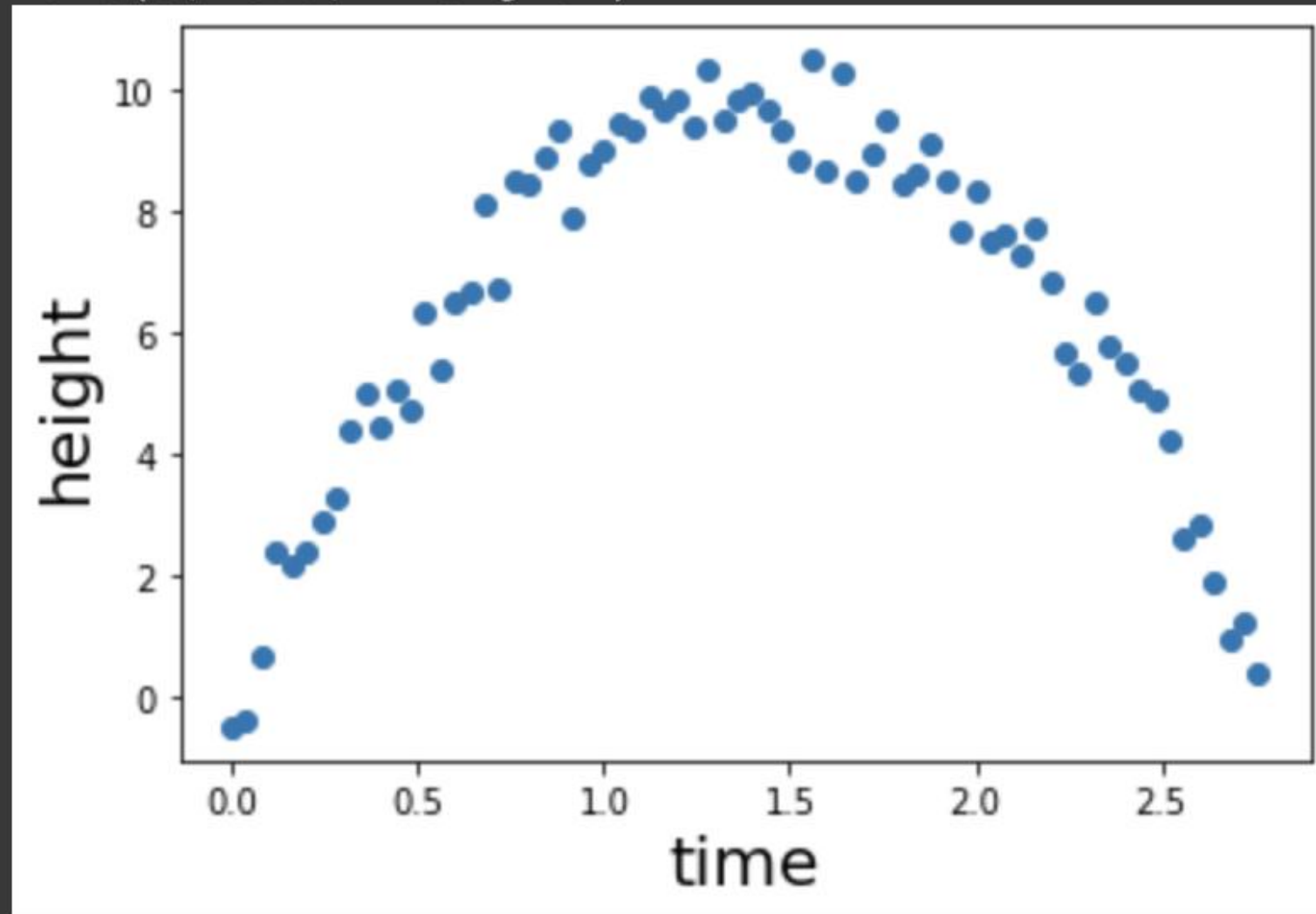
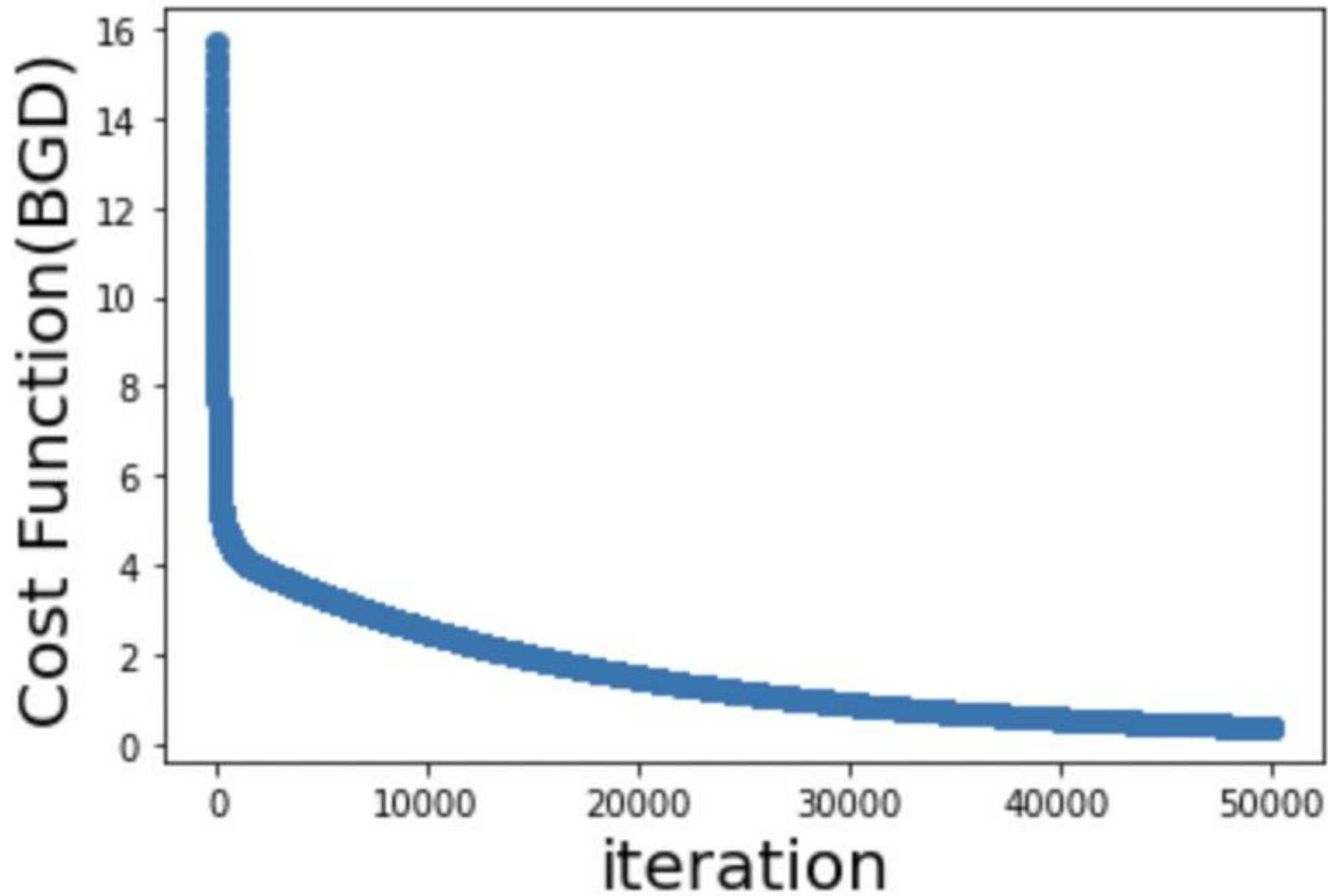
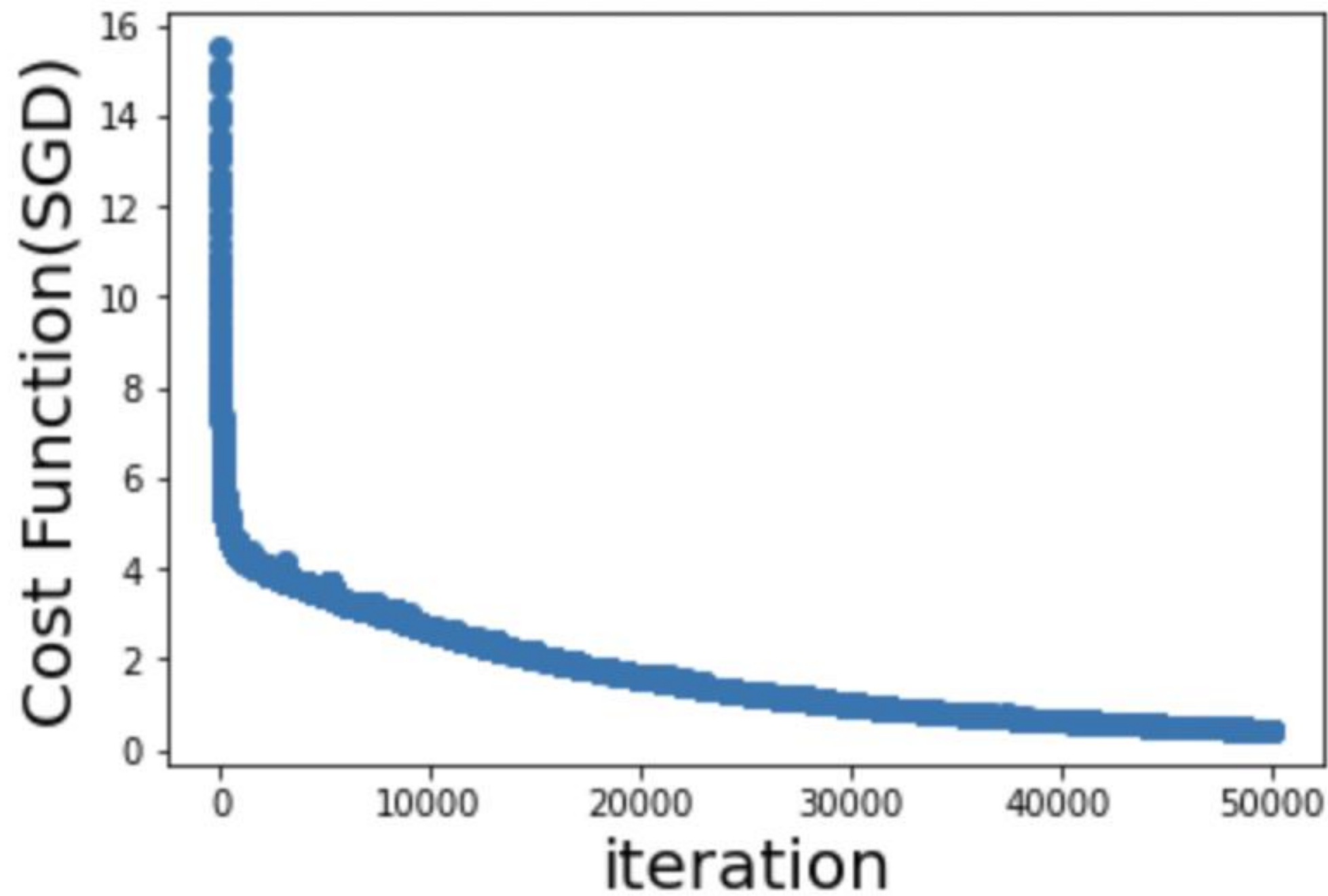


```
plt.figure()  
plt.plot(x,y,'o', label="true")  
plt.xlabel("time", fontsize= 20)  
plt.ylabel("height", fontsize= 20)
```

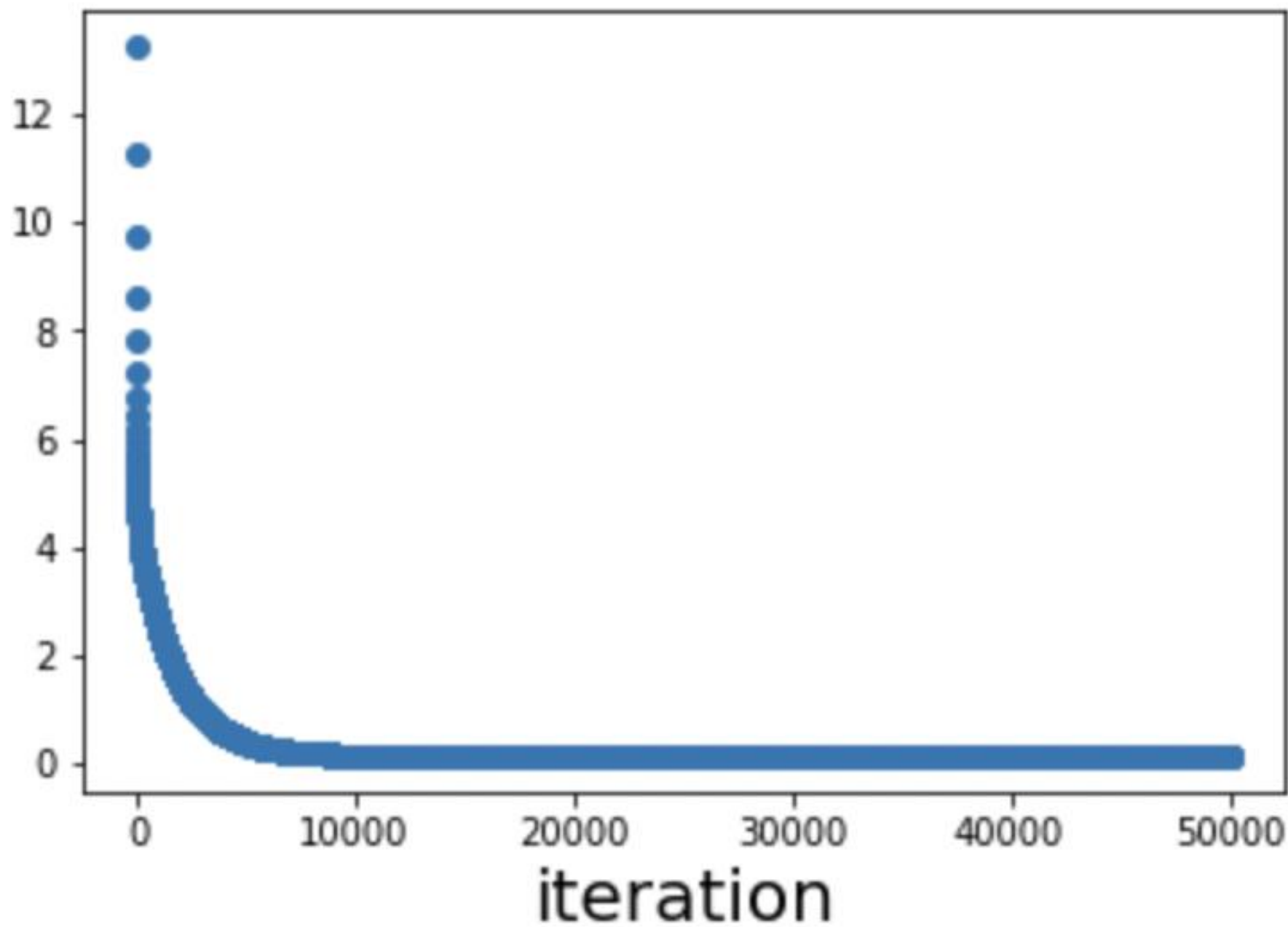
```
Text(0, 0.5, 'height')
```



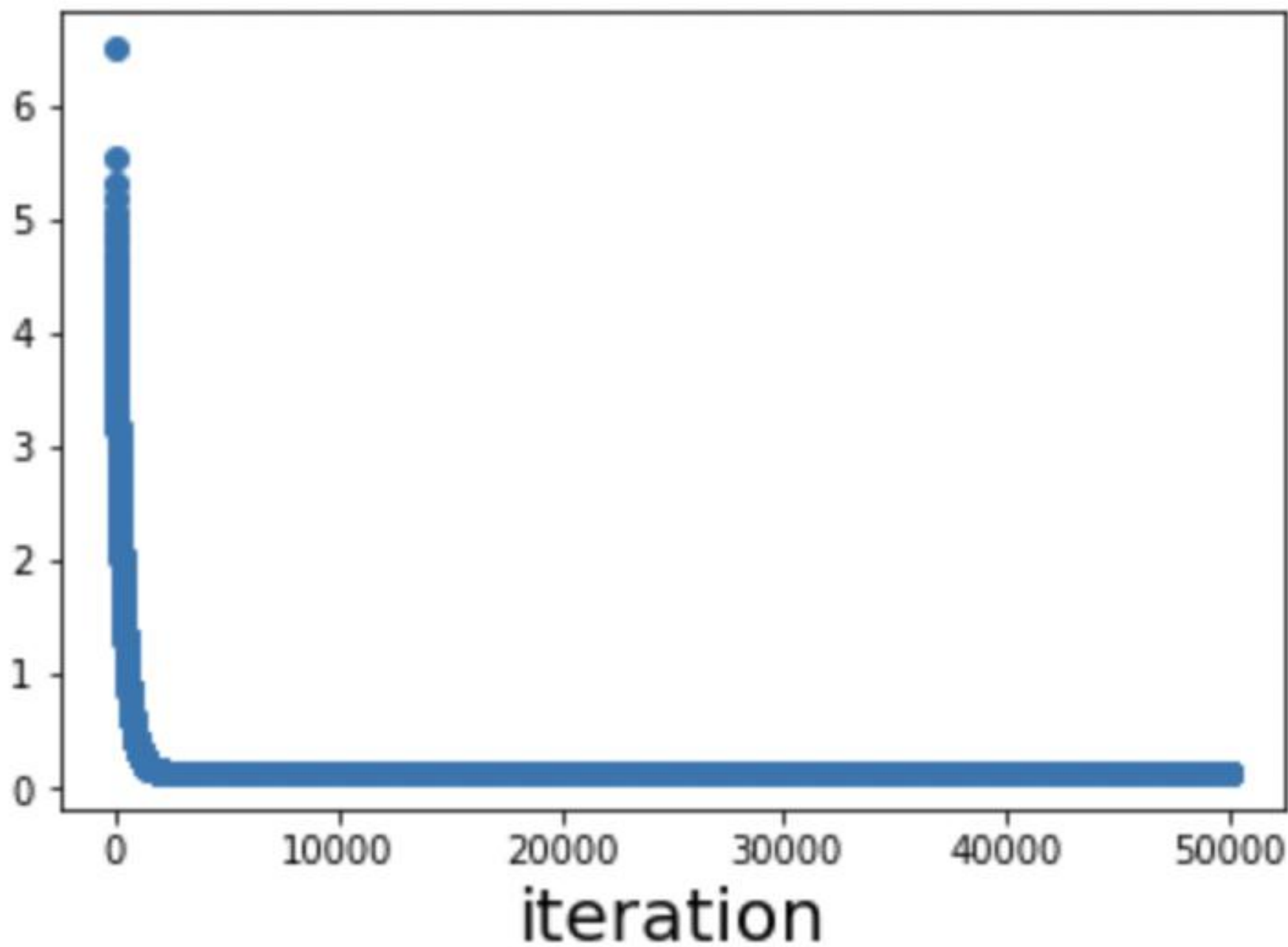




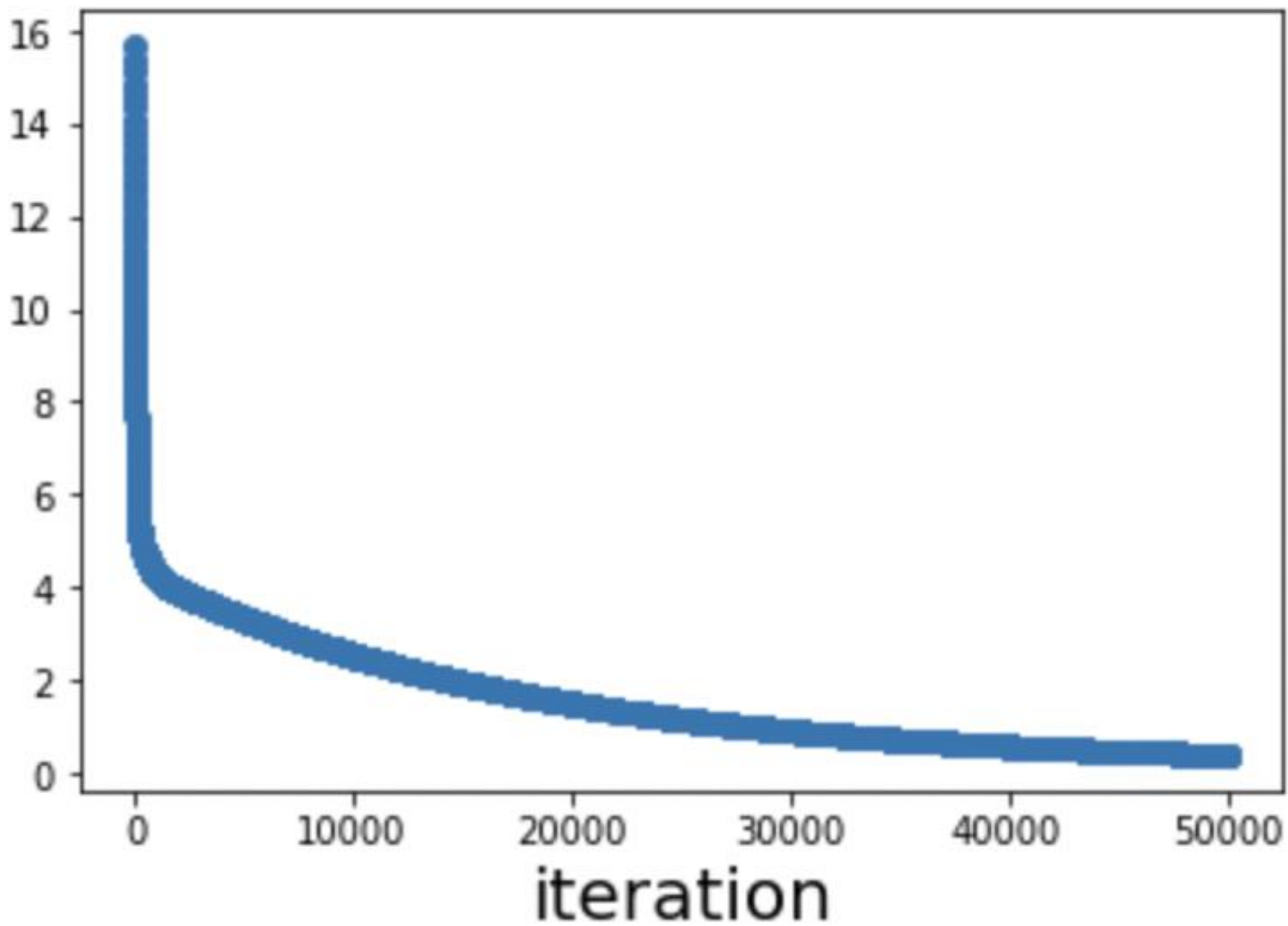
Cost Function($\alpha=0.1$)



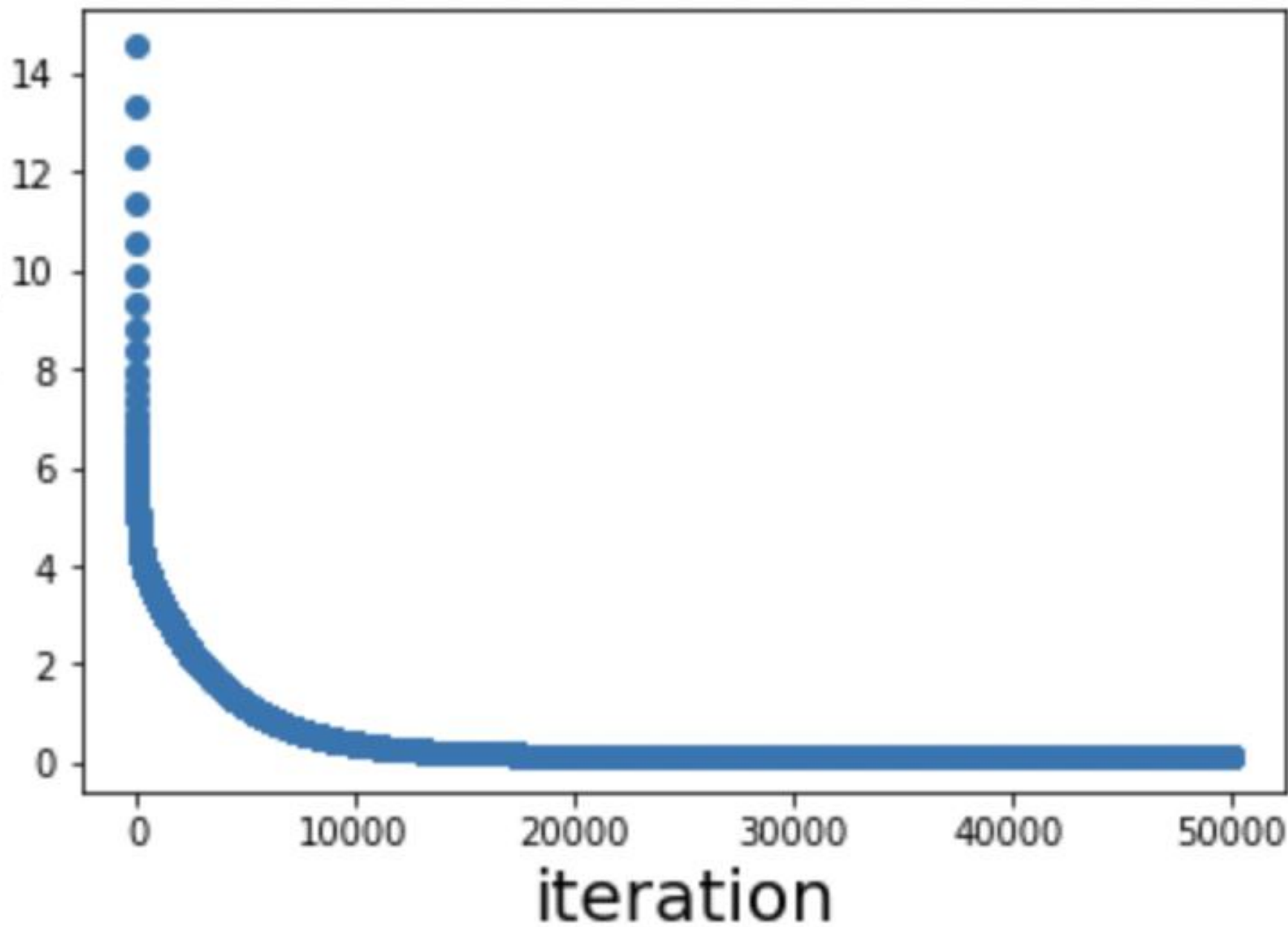
Cost Function($\alpha=0.5$)



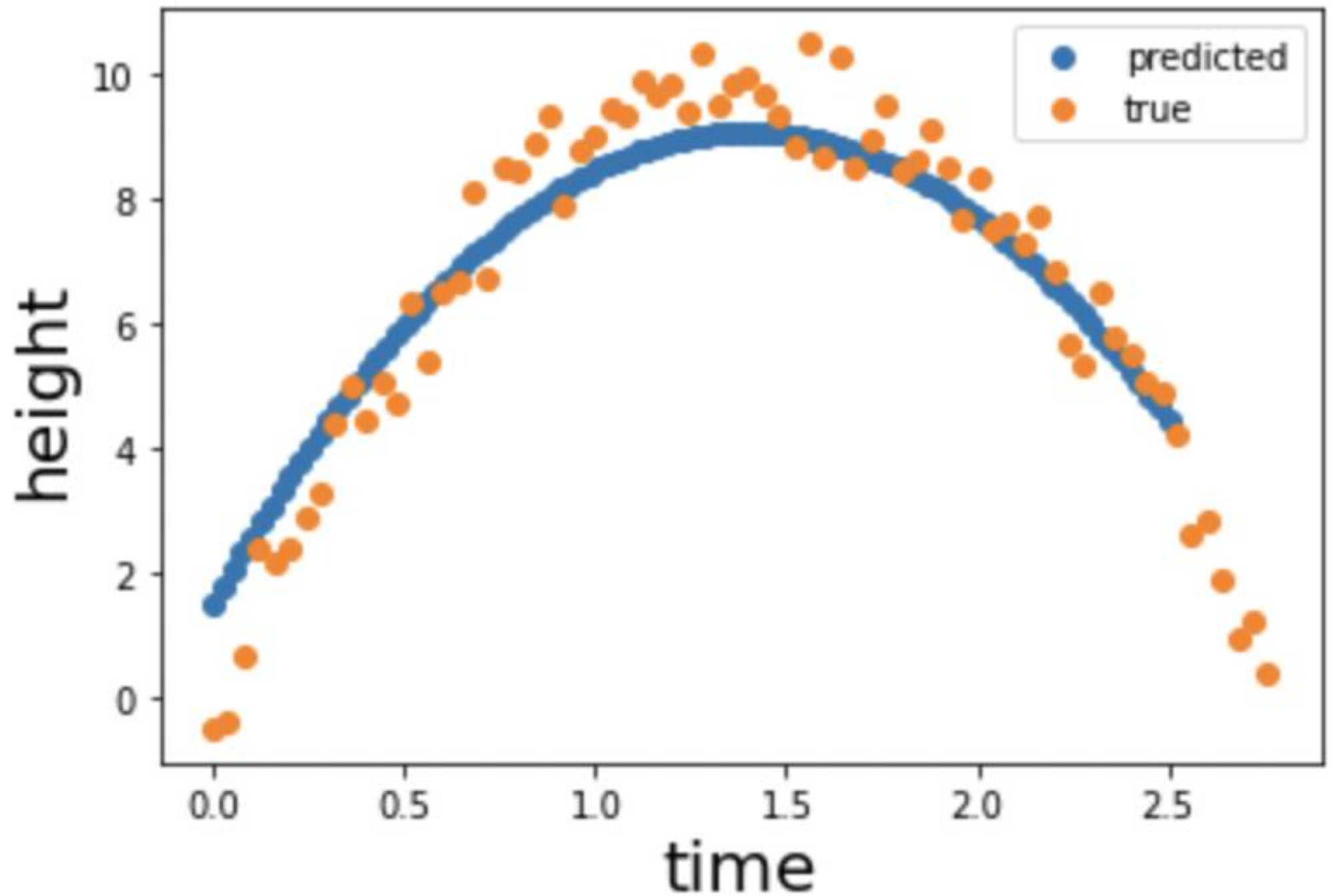
Cost Function($\alpha=0.01$)



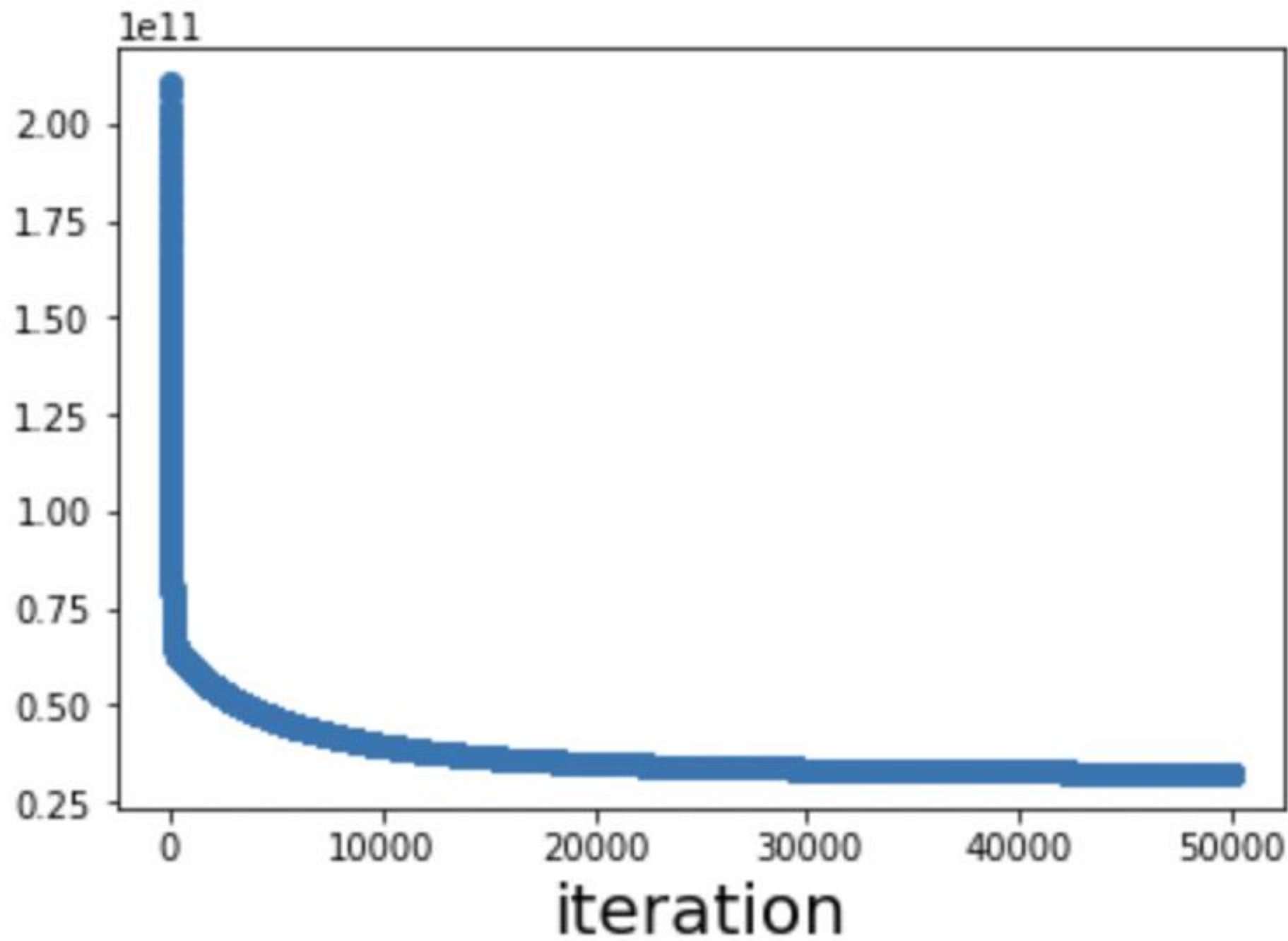
Cost Function($\alpha=0.05$)



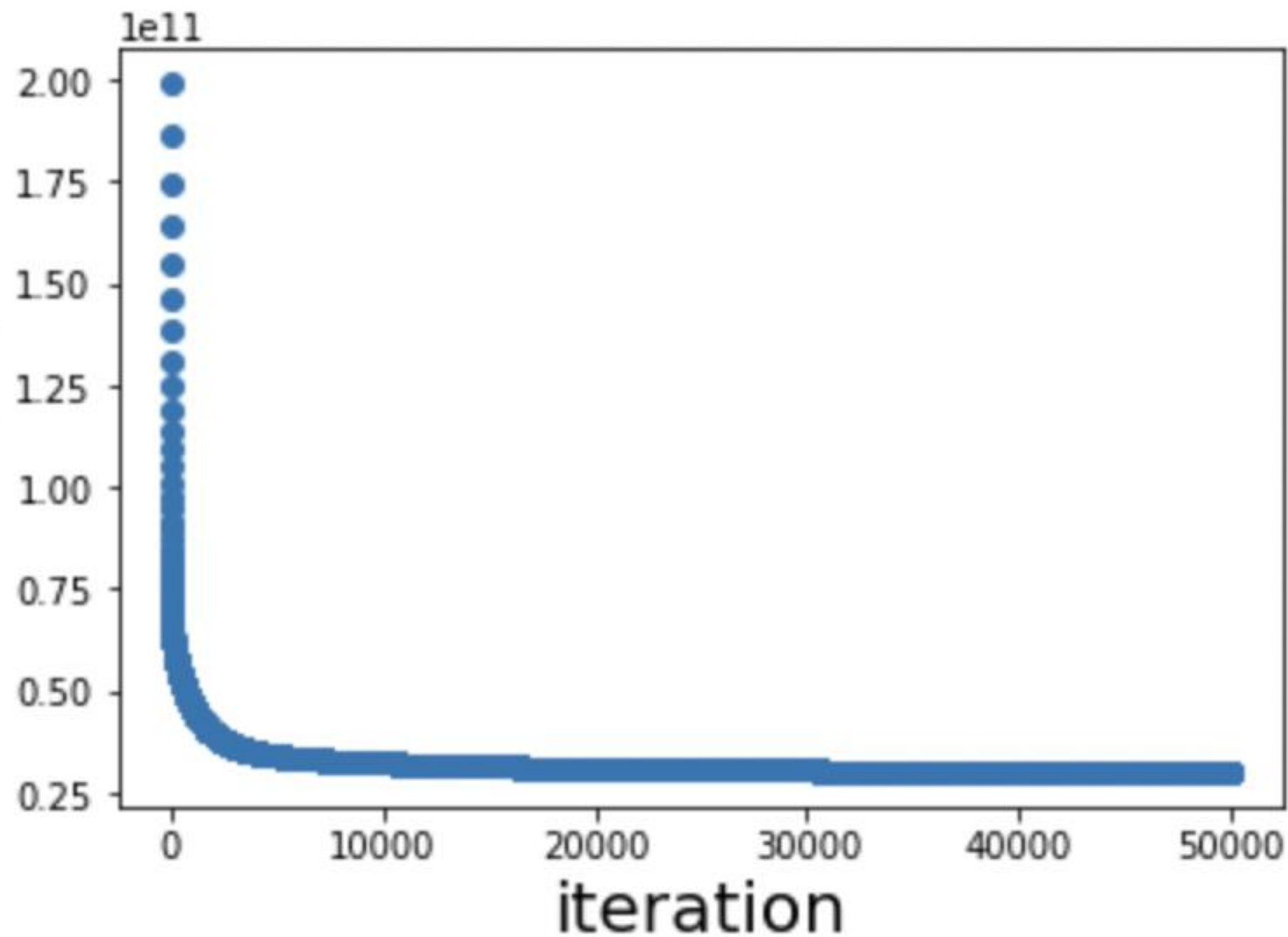
As we increase alpha the dip in the curve increases i.e. it reaches toward min faster.



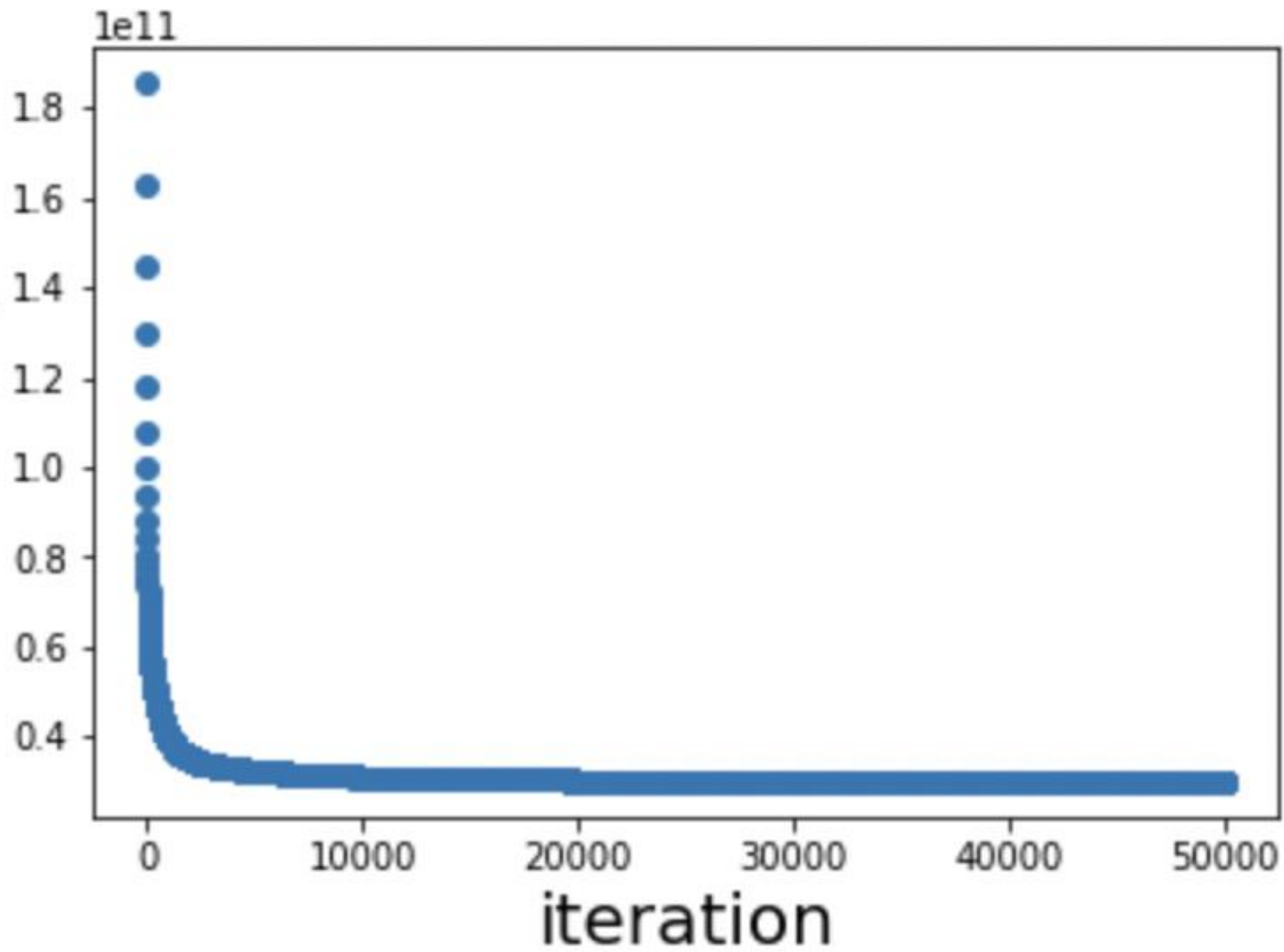
Cost Function($\alpha=0.01$)

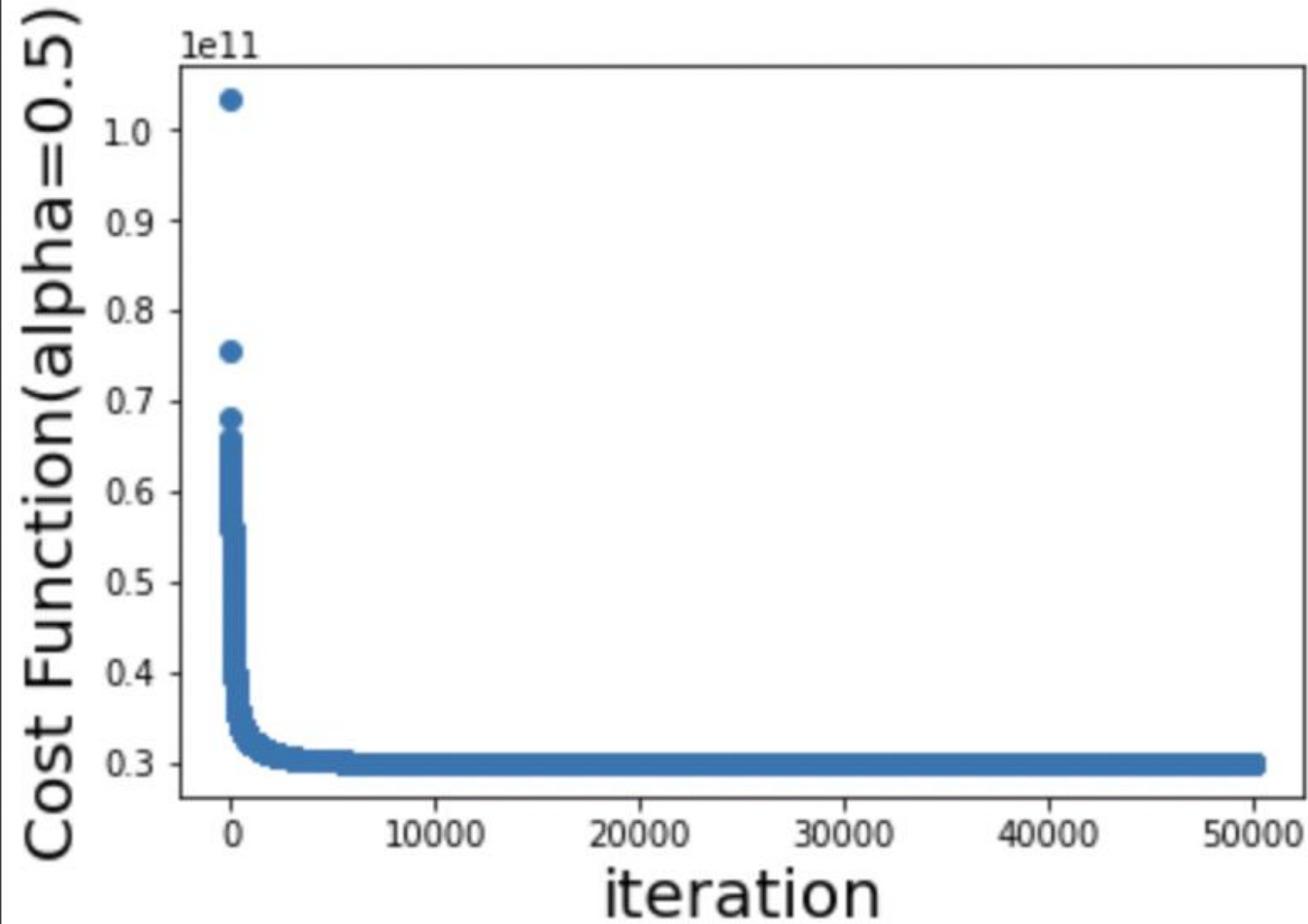


Cost Function($\alpha=0.05$)



Cost Function($\alpha=0.1$)





As we increase alpha the dip in the curve increases i.e. it reaches toward min faster.