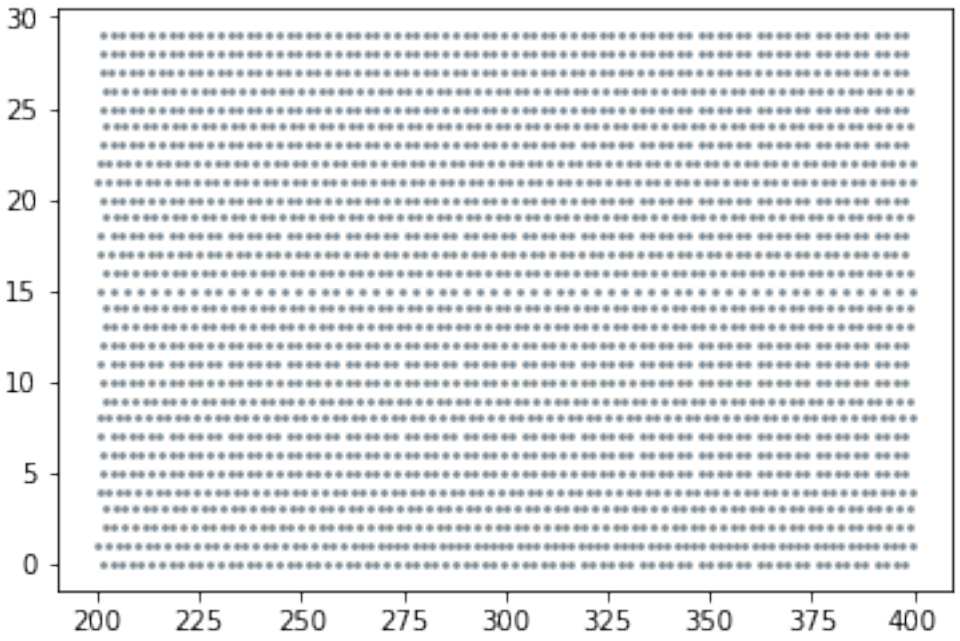
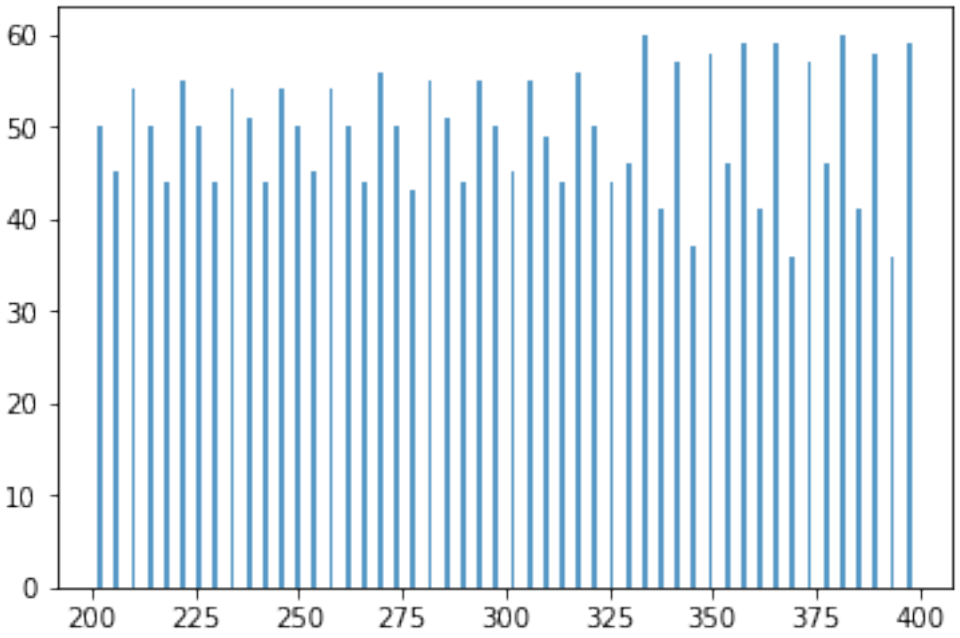
The 4 Brunel plots

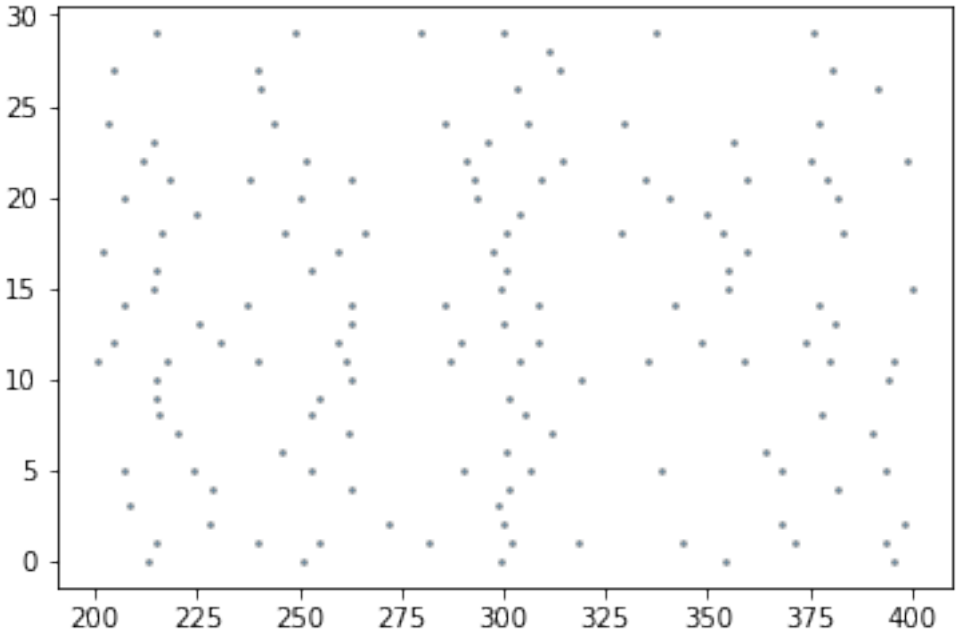
November 5, 2017

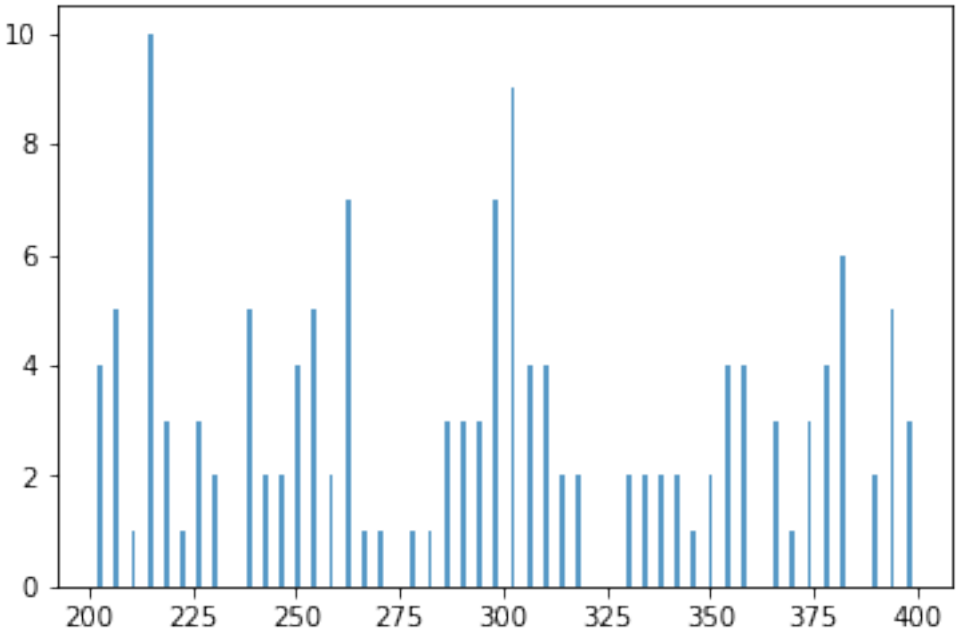
In [1]:
```
# This plot is the A figure (page 197) in Brunel's paper

import numpy as np
import matplotlib.pyplot as pl

data = np.genfromtxt("NeuronGraph1.txt")

select= np.array([d for d in data if d[1] < 30])
data1= select.transpose()
pl.scatter(0.1*data1[0],data1[1], s=3, alpha=0.8, edgecolors="grey");
pl.show();

n, bins, patches = pl.hist(0.1*data1[0], 50, rwidth=0.3, normed=0, alpha=0.75)
pl.show();
```





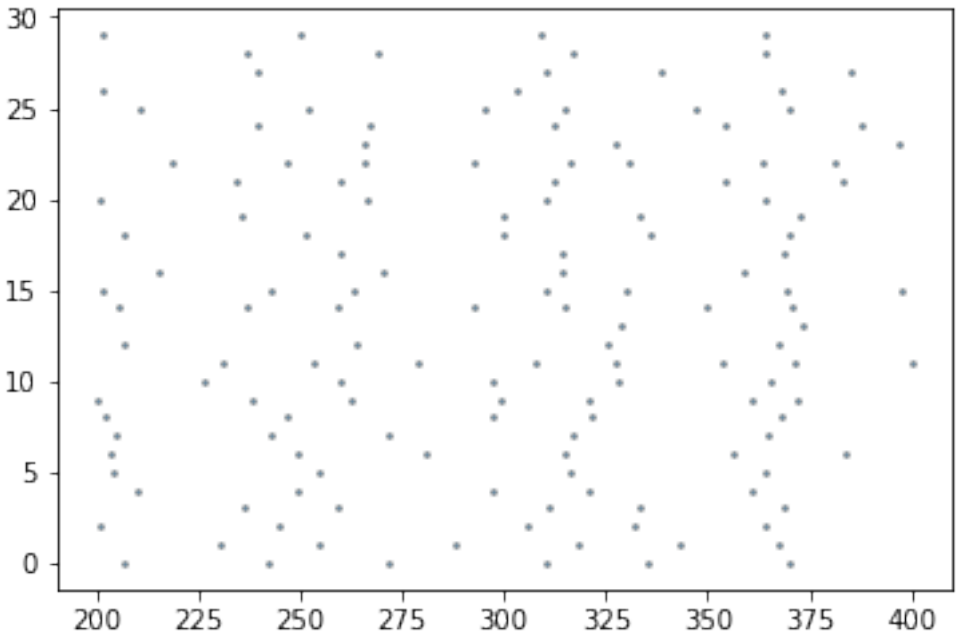
In [2]:
```
# This plot is the B figure (page 197) in Brunel's paper

import numpy as np
import matplotlib.pyplot as pl

data = np.genfromtxt("NeuronGraph2.txt")

select= np.array([d for d in data if d[1] < 30])
data1= select.transpose()
pl.scatter(0.1*data1[0],data1[1], s=3, alpha=0.8, edgecolors="grey");
pl.show();

n, bins, patches = pl.hist(0.1*data1[0], 50, rwidth=0.3, normed=0, alpha=0.75)
pl.show();
```

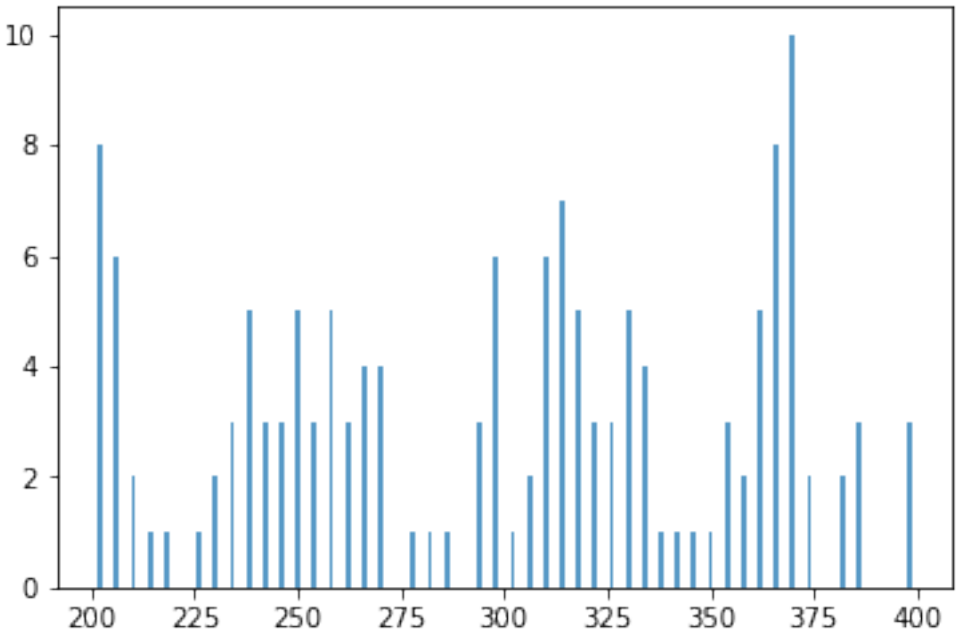




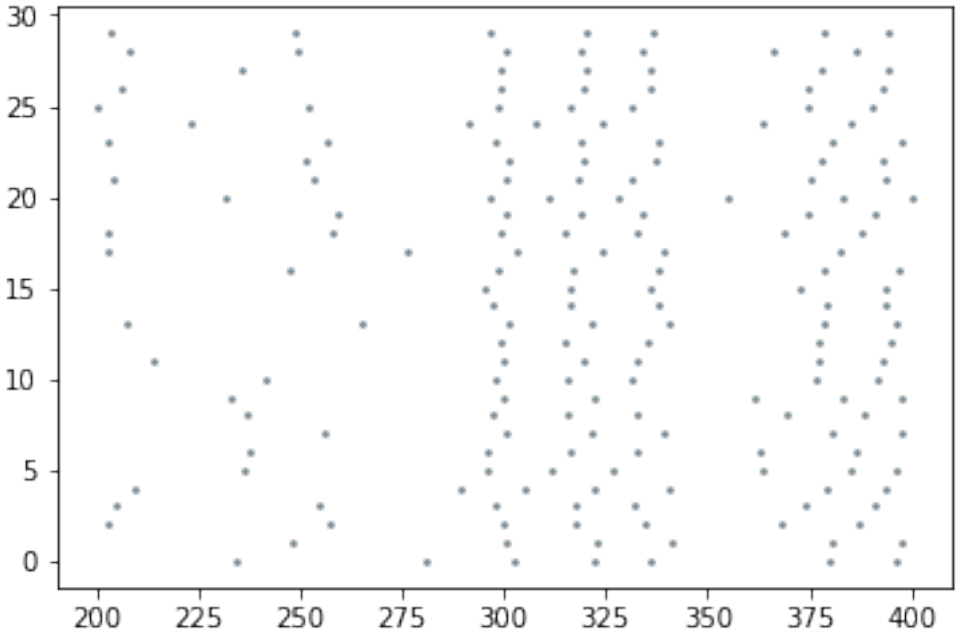
In [3]:
```
# This plot is the C figure (page 197) in Brunel's paper

import numpy as np
```

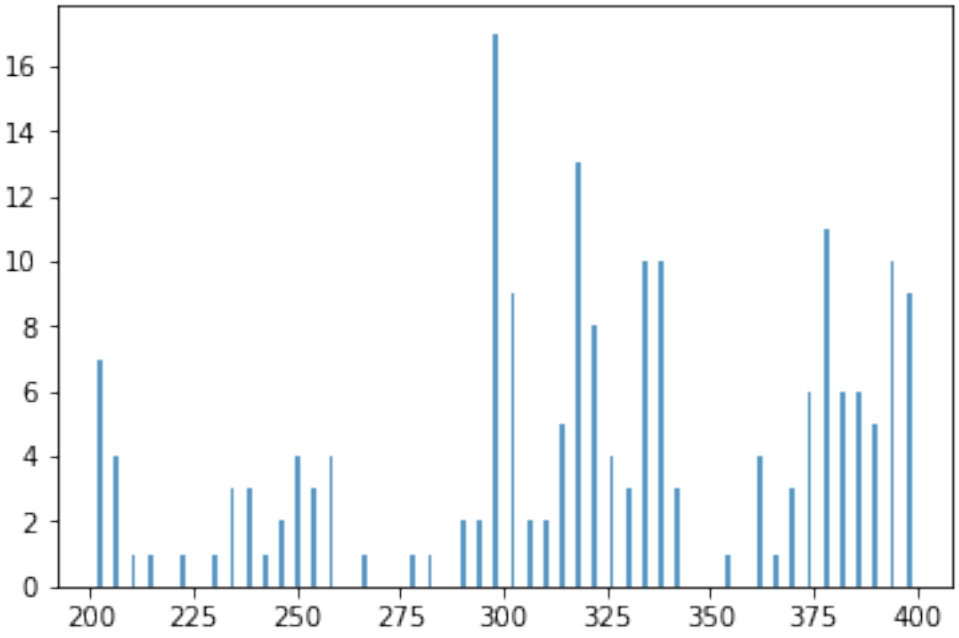
```
import matplotlib.pyplot as pl

data = np.genfromtxt("NeuronGraph3.txt")

select= np.array([d for d in data if d[1] < 30])
data1= select.transpose()
pl.scatter(0.1*data1[0],data1[1], s=3, alpha=0.8, edgecolors="grey");
pl.show();

n, bins, patches = pl.hist(0.1*data1[0], 50, rwidth=0.3, normed=0, alpha=0.75)
pl.show();
```





In [4]:
```
# This plot is the D figure (page 197) in Brunel's paper

import numpy as np
import matplotlib.pyplot as pl

data = np.genfromtxt("NeuronGraph4.txt")

select= np.array([d for d in data if d[1] < 30])
data1= select.transpose()
pl.scatter(0.1*data1[0],data1[1], s=3, alpha=0.8, edgecolors="grey");
pl.show();

n, bins, patches = pl.hist(0.1*data1[0], 50, rwidth=0.3, normed=0, alpha=0.75)
pl.show();
```


30
25
20
15
10
5
0
200
225
250
275
300
325
350
375
400


16
14
12
10
8
6
4
2
0
200
225
250
275
300
325
350
375
400