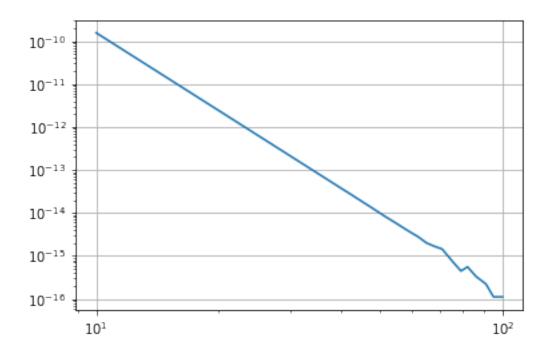
exo_numpy

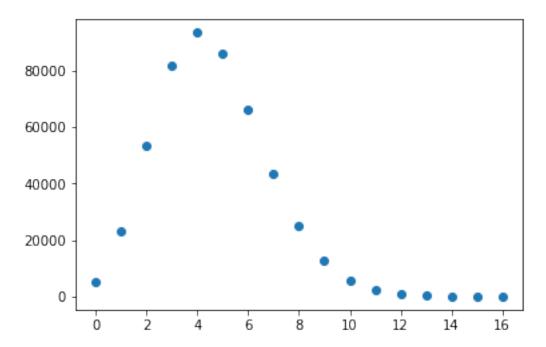
October 24, 2018

1 Formule de Simpson



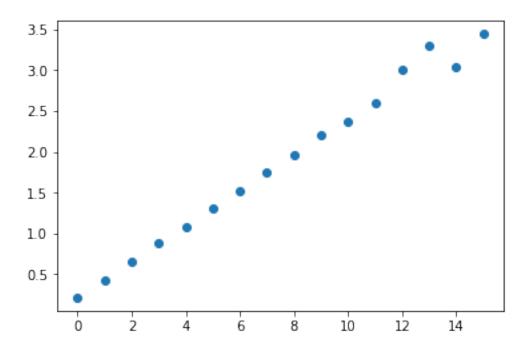
2 Loi de Poisson

Out[7]: [<matplotlib.lines.Line2D at 0x7f8e6b24f128>]

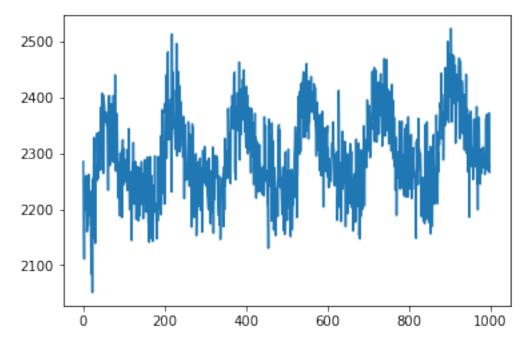


In [8]: plot(occurence[:-1]/occurence[1:], 'o')

Out[8]: [<matplotlib.lines.Line2D at 0x7f8e6b02ca20>]



```
In [9]: N = len(data)
        data_2 = data.reshape((N//2, 2)).sum(axis=1)
In [10]: print(data.mean())
         print(data_2.mean())
4.594558
9.189116
In [11]: print(data.std()**2)
         print (data_2.std() **2)
4.58009478464
9.11176713854
In [12]: def moyenne_par_paquet(data, N):
             len_data = len(data)
             M = len_data//N
             return data[-(M*N):].reshape((M, N)).sum(axis=1)
In [13]: plot(moyenne_par_paquet(data, 500))
Out[13]: [<matplotlib.lines.Line2D at 0x7f8e6afedba8>]
```



In []: