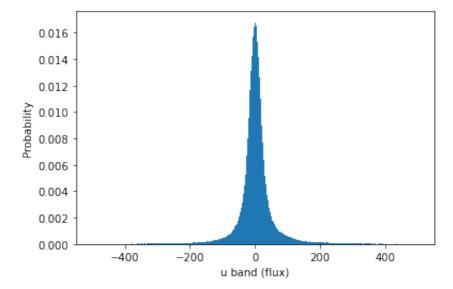
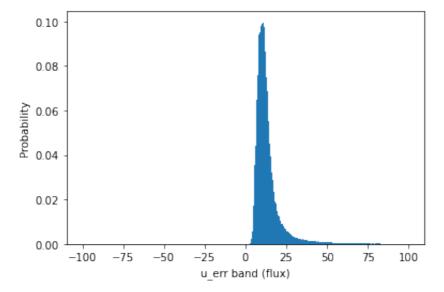
```
In [1]: import numpy as np
import pandas as pd
import csv
import matplotlib.pyplot as plt
from matplotlib.pylab import *
from scipy.stats import norm
import matplotlib.mlab as mlab
```

```
In [2]: data1 = pd.read_csv('preprocessed_data/batch2_converted_AGN.csv')
 data2 = pd.read_csv('preprocessed_data/batch3_converted_AGN.csv')
 data3 = pd.read_csv('preprocessed_data/batch4_converted_AGN.csv')
 data4 = pd.read_csv('preprocessed_data/batch5_converted_AGN.csv')
 data5 = pd.read_csv('preprocessed_data/batch6_converted_AGN.csv')
 data6 = pd.read_csv('preprocessed_data/batch7_converted_AGN.csv')
 data7 = pd.read_csv('preprocessed_data/batch8_converted_AGN.csv')
 data8 = pd.read_csv('preprocessed_data/batch9_converted_AGN.csv')
 data9 = pd.read_csv('preprocessed_data/batch10_converted_AGN.csv')
 data10 = pd.read_csv('preprocessed_data/batch11_converted_AGN.csv')
 data11 = pd.read_csv('preprocessed_data/training_converted_AGN.csv')
 data11 = pd.read_csv('preprocessed_data/training_converted_AGN.csv')
 data11 = pd.read_csv('preprocessed_data/training_converted_AGN.csv')
 data11 = pd.read_csv('preprocessed_data/training_converted_AGN.csv')
 data11 = pd.read_csv('preprocessed_data/training_converted_AGN.csv')
```

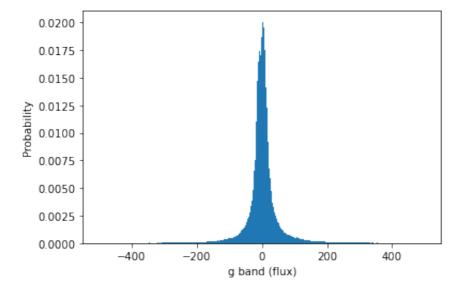
```
In [58]: u_list = data['u'].dropna()
 n, bins, patches = plt.hist(u_list,bins=1000, range=(-500,500), den
 sity=1)
 plt.ylabel('Probability')
 plt.xlabel('u band (flux)')
 plt.show()
```



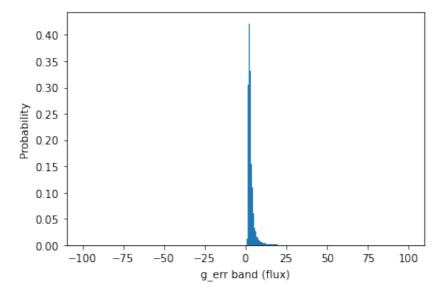
```
In [61]: ue_list = data['u_err'].dropna()
 plt.hist(ue_list,bins=500, range=(-100,100), density=1)
 plt.xlabel('u_err band (flux)')
 plt.ylabel('Probability')
 plt.show()
```



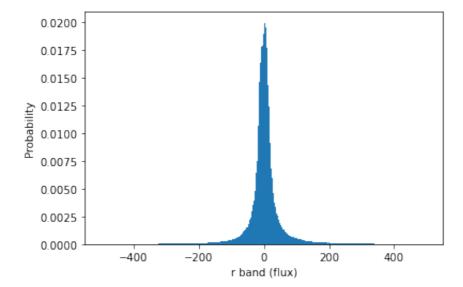
```
In [62]: g_list = data['g'].dropna()
 plt.hist(g_list,bins=500,range=(-500,500),density=1)
 plt.xlabel('g band (flux)')
 plt.ylabel('Probability')
 plt.show()
```



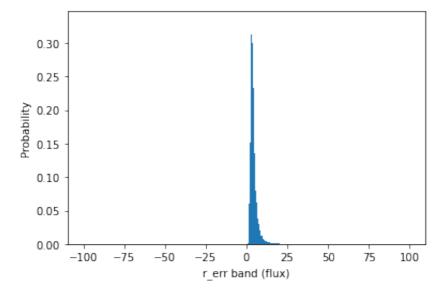
```
In [63]: ge_list = data['g_err'].dropna()
 plt.hist(ge_list,bins=500, range=(-100,100), density=1)
 plt.xlabel('g_err band (flux)')
 plt.ylabel('Probability')
 plt.show()
```



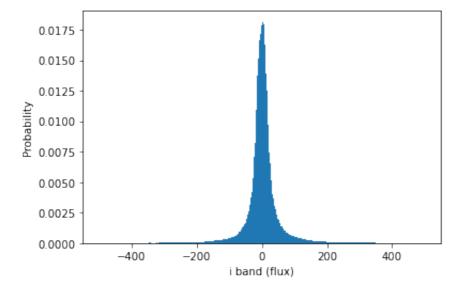
```
In [64]: r_list = data['r'].dropna()
 plt.hist(r_list,bins=500,range=(-500,500), density=1)
 plt.xlabel('r band (flux)')
 plt.ylabel('Probability')
 plt.show()
```



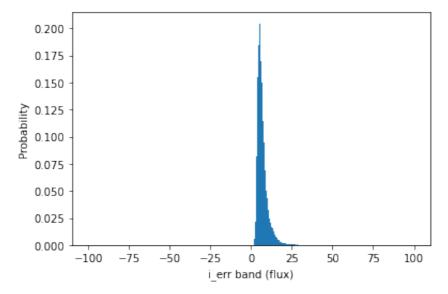
```
In [65]: re_list = data['r_err'].dropna()
 plt.hist(re_list,bins=500, range=(-100,100), density=1)
 plt.xlabel('r_err band (flux)')
 plt.ylabel('Probability')
 plt.show()
```



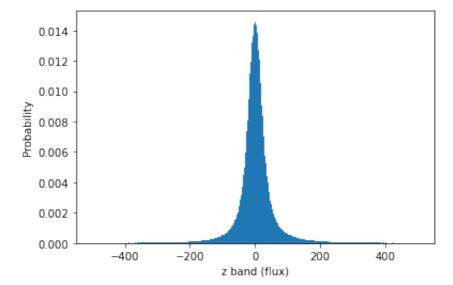
```
In [66]: i_list = data['i'].dropna()
plt.hist(i_list,bins=500,range=(-500,500), density=1)
plt.xlabel('i band (flux)')
plt.ylabel('Probability')
plt.show()
```



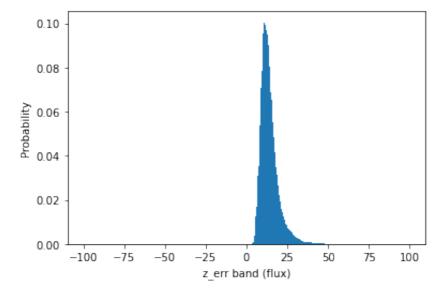
```
In [67]: ie_list = data['i_err'].dropna()
 plt.hist(ie_list,bins=500, range=(-100,100), density=1)
 plt.xlabel('i_err band (flux)')
 plt.ylabel('Probability')
 plt.show()
```



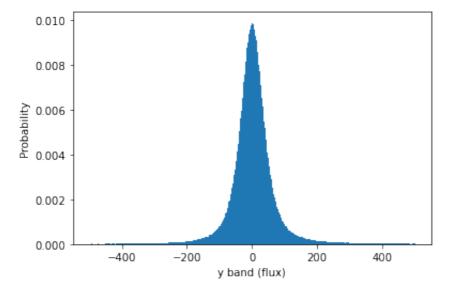
```
In [68]: z_list = data['z'].dropna()
 plt.hist(z_list,bins=500,range=(-500,500), density=1)
 plt.xlabel('z band (flux)')
 plt.ylabel('Probability')
 plt.show()
```



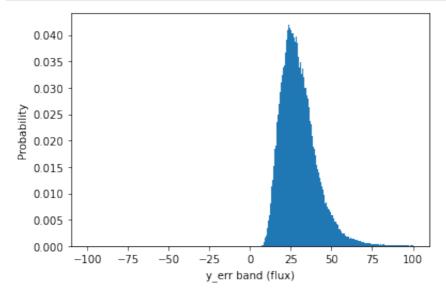
```
In [69]: ze_list = data['z_err'].dropna()
 plt.hist(ze_list,bins=500, range=(-100,100), density=1)
 plt.xlabel('z_err band (flux)')
 plt.ylabel('Probability')
 plt.show()
```



```
In [70]: y_list = data['y'].dropna()
 plt.hist(y_list,bins=500,range=(-500,500), density=1)
 plt.xlabel('y band (flux)')
 plt.ylabel('Probability')
 plt.show()
```



```
In [3]: ye_list = data['y_err'].dropna()
 plt.hist(ye_list,bins=500, range=(-100,100), density=1)
 plt.xlabel('y_err band (flux)')
 plt.ylabel('Probability')
 plt.show()
```





In []: