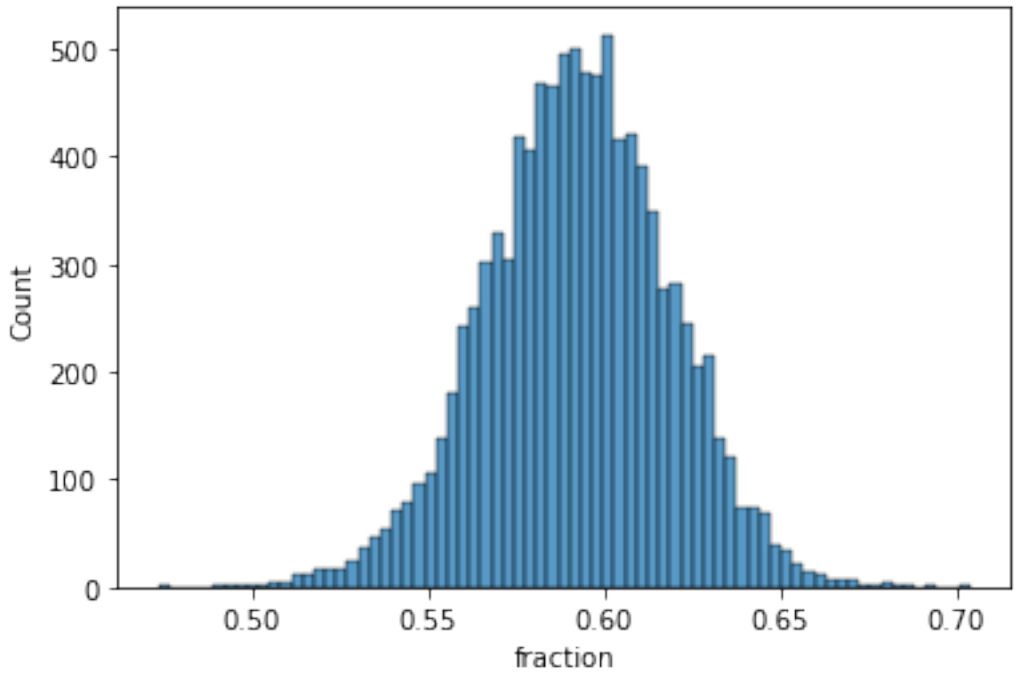
analysis

January 30, 2021

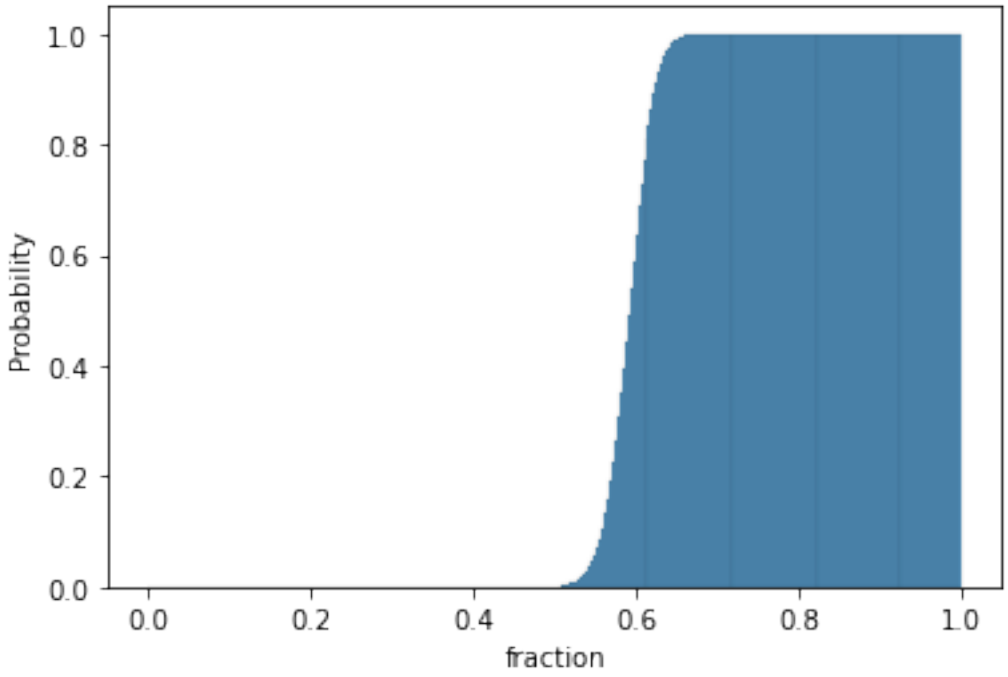
[1]:
```
import pandas as pd
import matplotlib.pyplot as plt
import numpy as np
import seaborn as sns

data = pd.read_csv("data.csv")
data["fraction"] = data["unblocked_sites"] / data["total_sites"]
data = data.drop(columns=["edge_size","unblocked_sites","total_sites"])
```

[2]:
```
sns.histplot(data=data["fraction"],stat="count",element="bars")
plt.show()
```



[3]:
```
sns.
 ↪histplot(data=data["fraction"],stat="probability",binrange=[0,1],cumulative=True)
plt.show()
```



[4]:
```
x = data["fraction"]
Averages = {"minimum":np.amin(x),"maximum":np.amax(x),"median":np.
 ↪median(x),"mean":np.mean(data["fraction"]),"standard deviation":np.
 ↪std(x),"variance":np.var(x)}
Averages
```

[4]:
```
{'minimum': 0.4732,
 'maximum': 0.704,
 'median': 0.5928,
 'mean': 0.59241956,
 'standard deviation': 0.02612520349023907,
 'variance': 0.0006825262574063998}
```