## Geographical plot - Leonardo Vazquez

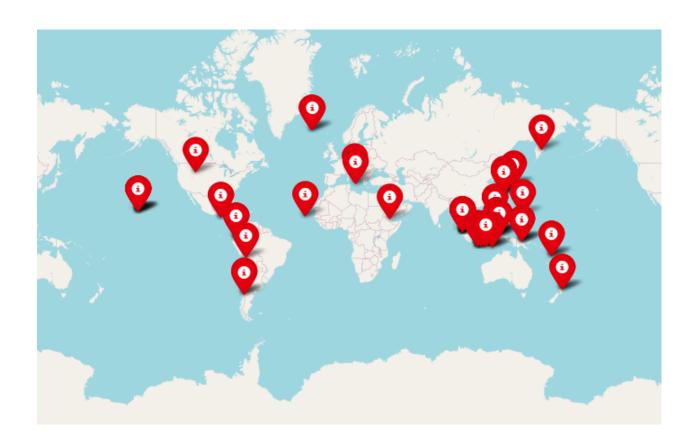
February 24, 2022

## 1 GEOGRAPHICAL PLOT

```
[1]: import numpy as np
import pandas as pd
import folium as fo
%matplotlib inline
```

## 1.1 VOLCANOS PLOT

[5]: <folium.folium.Map at 0x7f4af87b1250>



## 1.2 POPULATION PLOT

```
[6]: map2 = fo.Map()
 [7]: popu = pd.read_csv("241.us+cities+pop.csv")
 [8]: popu = popu.head(n=50)
 [9]: lat_pop = list(popu['lat'])
      lon_pop = list(popu['lon'])
      name_pop = list(popu['name'])
      pop_pop = list(popu['pop'])
      populations = fo.FeatureGroup(name="Populations")
[10]: def mar(popu):
          if popu>1000000:
              return "red"
          elif popu>800000 and popu<=1000000:
              return "blue"
          else:
              return "green"
[11]: for lat, lon, name, pop in zip(lat_pop, lon_pop, name_pop,pop_pop):
```

populations.add\_child(fo.Marker(location = [lat,lon], popup = [pop,name], u

icon = fo.Icon(mar(pop))))

[12]: map2.add\_child(populations)

[12]: <folium.folium.Map at 0x7f4ac5f65310>

