GEOG 432/832: Programming, Scripting, and Automation for GIS

Unit 12.02: Investigating spatial autocorrelation

Dr. Bitterman

Today's schedule

- Open discussion

- Slides, discussion, and exercises

- For next class

Open discussion

Building spatial weights matrices

Today's prep:

```
%matplotlib inline

import seaborn as sns
import pandas as pd
from libpysal import weights
from libpysal.io import open as psopen
import geopandas as gpd
import numpy as np
import matplotlib.pyplot as plt
# new ones below
import esda
from splot.esda import moran_scatterplot, lisa_cluster, plot_local_autocorrelation
```

Verify all packages are in your environment

...and that you're in the correct environment

Today is a(nother) guided exercise

calculating spatial autocorrelation

For next class

- Lab 7 due April 15th

- Lab 8 starts Friday - LAST ONE!

- Readings are linked/posted on Canvas...