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

Week 13.02: Investigating spatial autocorrelation

Dr. Bitterman

Today's schedule

- Open discussion
- Update presentations
- 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

- Download week13_inclass.ipynb from GitHub
- Download week13data.zip from GitHub

For next class

- Lab 7 due next week
- Readings are linked/posted on Canvas...