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

Week 13.02: 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
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

Lab 07 intro

Today is a(nother) guided exercise

calculating spatial autocorrelation

1. Download week13_inclass.ipynb from GitHub
2. Download week13data.zip from GitHub
3. Setup your environment/data
4. Wait

For next class

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