Geography 385 Spatial Data Analysis

Fall 2023

Lectures

- Week 01
  - 08-21 Course Introduction
  - 08-23 Jupyter Introduction (ipynb)
- Week 02
  - 08-28 Python Introduction (ipynb)
  - 08-30 Functions and Scripts (ipynb) (temp_converter.py)
- Week 03
  - 09-06 Python Introduction to Data Analysis (ipynb)
- Week 04
  - 09-11 Spatial Data
  - 09-13 GeoPandas (ipynb)
- Week 05
  - 09-18 GeoPandas Spatial Queries (ipynb)
  - 09-20 Geovisualization (ipynb)
- Week 06
  - 09-25 Spatial Weights (ipynb)
  - 09-27 Spatial Dependence
- Week 07
  - 10-02 Join Counts (ipynb)
  - 10-04 Moran's I (ipynb)

- Week 08
  - 10-09 Studio (Exercise 2 collaboration)
  - 10-11 Local Autocorrelation (ipynb)
- Week 09
  - 10-16 Local Analysis of Educational Achievment
  - 10-18 Point Patterns
- Week 10
  - 10-23 Centrography
  - 10-25 Point Processes
- Week 11
  - 10-30 Quadrat Statistics
  - 11-01 Nearest Neighbor Statistics
- Week 12
  - 11-06 Distance Based Statistics
  - 11-08 Geostatistics
- Week 13
  - 11-13 Spatial Interpolation: Deterministic Methods
  - 11-15 PySAL@NARSC
- Week 14
  - 11-20 Spatial Interpolation: Kriging
  - 11-22 Thanksgiving Holiday Observed (No class)
- Week 15
  - 11-27 Spatial Disparities Studio: Overview
  - 11-29 Spatial Disparities Studio: Measuring Spatial Inequality
- Week 16
  - 12-04 Spatial Disparities Studio: Geoprocessing for Spatial Inequality Anaysis
  - 12-06 Spatial Disparities Studio: Integration Geoprocessing and Statistical Analysis of Disparities
- Week 17
  - 12-11 Final Review