

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 Achievement](#)
 - [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: Geoprocessing for Measuring Spatial Disparities Research
- Week 16
 - 12-04 Spatial Disparities Studio: Areal Interpolation for Spatial Disparities Research
 - 12-06 Spatial Disparities Studio: Integration Geoprocessing and Statistical Analysis of Disparities

- Week 17
 - 12-11 Final Review