

MUSA Capstone Introduction

Jonathan Tannen

Welcome!

- Intro
- Syllabus (30 min)
- *10 minute break*
- Breakouts (45 min)
- *10 minute break*
- Presentation: The Turnout Tracker (60 min)

The Capstone Project

The final project is an . . .

- independent study
- on a substantive question
- using GIS data

I'm here to help, but ultimately you are responsible for driving and executing your project.

Possible project deliverables

- Research paper on a topical question
- Research paper on GIS methodology
- Dashboard*
- GIS tool

Examples from past years

- Spatial analysis of food safety violations in Philadelphia
- Spatial methods for heritage preservation
- Latitudinal shifts of grass plant functional types
- Evaluating two-seat rides for SEPTA

The screenshot shows a GitHub repository page for 'CPLN-680-Spring-2022 / Class-Resources'. The repository is public and has 1 pull request, 0 issues, 0 forks, and 1 star. The main branch is 'main'. The file 'Clark,Rashon.pdf' is selected, showing its commit history and contributors. The file is 2.02 MB and was last committed 2 days ago by 'jtannen'. The file content is a PDF document titled 'An Analysis of the Spatial Qualities of Food Safety Violations in Philadelphia' by Rashon Clark. The document has a table of contents with three sections: 1 Introduction, 2 Methodology, and 3 Conclusion: Problems and Future Possibilities. The introduction section is currently selected and displayed.

Search or jump to... Pull requests Issues Marketplace Explore

CPLN-680-Spring-2022 / Class-Resources Public

Unwatch 1 Fork 0 Star 1

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

main Class-Resources / resources / examples / Clark,Rashon.pdf Go to file

jtannen Added examples Latest commit 2 days ago History

1 contributor

2.02 MB Download

1 Introduction
2 Methodology
3 Conclusion: Problems and Future Possibilities

An Analysis of the Spatial Qualities of Food Safety Violations in Philadelphia

Rashon Clark

1 Introduction

Although once mundane and bureaucratic, food safety inspections have now entered the mainstream American psyche, becoming a part of reality television, newspaper headlines, and restaurant rating systems. In a similar fashion, data on food safety has become

Project components

- Final deliverable.
- Presentation to the class.
- Complete GitHub repository* with raw data, processed data, outputs.

This course will use GitHub as its primary site.

- <https://github.com/CPLN-680-Spring-2022/Class-Resources>
- Final project submitted as a GitHub Repo.

This is my first time using GitHub to teach, so will be flexible.

- Working groups on projects
- Student presentations
- External speakers, “Anatomy of a project”
- Lectures on Spatial Methods, Better Engineering for Researchers

A note on technical requirements

My approach to programming is practical.

- You only ever need “good enough,” and there will always be someone more expert.
- You will see enormous gains (errors, iteration speed) by improving your engineering 20%.
- Push yourself in reasonable directions for final project.

A note on the calendar

This is the first time I'm teaching this course, so what follows may be tweaked based on how things go. I promise one week's notice before any changes.

A survey

Do you plan on using. . .

- ESRI
- R
- Python
- Something else

What is your familiarity with. . .

- Git & GitHub
- Command line
- Spatial Econometric methodologies (e.g. “autoregression”)

How confident are you in your idea for project?

1 - Not confident at all.

5 - I know exactly what I want to do.

Calendar

Date	Assignment Due (Tentative)
Jan 14	Initial Topic Brainstorm
Jan 21	Project Proposal 0
Jan 28	GitHub Repo
Feb 4	Data Summary Analysis, Presentations A
Feb 11	Project Proposal 1, Presentations B
Feb 25	Mid-point Work In Progress Report, Presentations A
March 4	Feedback for 2 peer projects. Presentations B
March 11	<i>Spring Break</i>
March 25	Peer Code Review
April 15	Final Presentation (1)
April 22	Final Presentation (2)
April 29	<i>No Class</i> , Final Projects due

Office Hours: Wednesday 6-8pm, by appointment Sign up on
Calendly: <https://calendly.com/jtannen/office-hours>

- Final Project 50%
- Final Presentation 25%
- Assignments & Participation 25%

Next Week

- Due: Project Proposal 0
- In class: GitHub

Questions?

In groups of three. . .

- 15 min: Overview your project
- In 15 min, come back to this room.

