

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 repository contains a file named 'Clark,Rashon.pdf' which is a PDF document. The file is 2.02 MB and was last committed 2 days ago by user 'jtannen'. The PDF content is visible, showing a table of contents with sections: 1 Introduction, 2 Methodology, and 3 Conclusion: Problems and Future Possibilities. The title of the document is 'An Analysis of the Spatial Qualities of Food Safety Violations in Philadelphia' by Rashon Clark. The introduction text is partially visible, starting with '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'.

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

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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.

- 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”)

A survey

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.

