Project 7: Prediction

TOTAL: 30pts

GOAL

Build a tactical crime series bulletin that includes a future event prediction across behavior, space, and time, and a proposed intervention strategy.

Step 0: PREPARATION

- This is a continuation of tactical crime analysis. But what is tactical crime analysis?

Step 1: DATA

1. Use your ***active crime series*** data from Project 6.
    a. This is the dataset with the last known event removed from all analysis
    b. If you want to augment what you find here with additional details from open source research, go for it
        i. If you use additional sources, please make sure to cite as necessary (provide a URL for the source in the notes of the applicable slide(s))

Step 2: METHODS

Let's make this relatively easy: use this template (feel free to customize as much or as little as you like)

Conduct analysis that addresses the points on the slides. You've learned how to do this. In particular, these projects come to mind:

- Project 4: analyzing behavior
- Project 5: analyzing time
- Project 6: analyzing space

Use the skills you've learned to address the behavior, space, and time of the crime series you're working.

- Behavior - the **WHO** (suspect *and* victim), **WHAT**, and **HOW**, including:
    - Modus operandi (M.O.), signature, suspect description, suspect actions, and victim information, etc.

- Space - the **WHERE**, including:
    - Macro (general) and micro (specific) patterns
- Time - the **WHEN**, including:
    - Year, season, month, week, day, and time patterns, etc.

Step 3: ANALYSIS

Fully and comprehensively analyze the chosen crime series. Make sure to address the **behavior**, **space**, and **time** aspects of the series based on the project instructions, the template slides, the lecture notes, and the class discussion. Notice that the METHODS section asks you to examine the **WHO**, **WHAT**, **WHERE**, **WHEN**, and **HOW**. It does NOT ask about the **WHY**. Good tactical crime analysis does not get into the why. There is no need for inferences, guesses, or explanations for why an offender is committing these crimes. It's largely irrelevant. What IS relevant is the exploitable characteristics. Your analysis should identify the unique, distinct decision-making processes that make these events an actual series. Also, write your analysis in 'real-time,' assuming that the crime series is still active/on-going. Basically, treat the bulletin as if it were the day after the most recent attack.

Your behavioral analysis should include a description of the **'archetype'** case in the pattern. Also, analyze events over time to observe changes in behavior, and develop a prediction for a future event based on the archetype and these changes (or lack thereof).

Your temporal analysis should involve analyzing the **interval** and any other relevant time measures (day of week, time of day, year, month, etc.). Use the patterns you identify to develop a reasonable, usable prediction for the next event. Consider the *macro* and *micro* components of the series, and be as precise as possible.

Your spatial analysis should include **analytic symbology**, **hunting grounds** and any other relevant analytics (ellipses, centroids, sequencing). Use the movement patterns you identify to develop a reasonable, usable prediction for the next event. Consider the *macro* and *micro* components of the series, and be as precise as possible.

Your intervention strategy should be an analytic plan to address this series. This plan should be feasible, and based on the most predictable and exploitable elements unique to this series. Focus on at least one of these: **deterrence**, **denial**, **investigation**, or **interception** (slide 10 here).

Keep this in mind: your analysis should inform law enforcement on how to disrupt/deter/investigate this crime series. When writing your analysis, think in terms of providing actionable opportunities for law enforcement to do something about it. There is going to be unique, exploitable, identifying characteristics about that pattern that creates actionable opportunities for law enforcement to do something about it. When writing up your analysis, consider this perspective, and focus on the details that are most relevant.

Finally, ***write your analysis in 'real-time,' assuming that the crime pattern is still active/on-going***. Treat this bulletin as if it were the day after the most recent attack in the ***active crime series*** data.

SUBMISSION

Once your analysis is complete, please submit your project via Canvas. The preferred format for this project is a set of slides - either PowerPoint, Google Slides, or maybe Keynote. A document (Word, Google Doc, PDF, etc) is fine, but not optimal. Include citations and links to sources, data, and maps as necessary.

GRADES

- **Executive Summary (1pt)**
  - Provide a brief series overview
- **Area Orientation (1pt)**
  - Provide an overview map of the series extent
- **Behavior (6pts)**
  - Provide series details, including
    - Details on the *WHAT*, *WHO*, and *HOW*
      - WHAT, the crime activity (1pt)
      - WHO, the suspect and victims (1pt)
      - HOW, the Modus Operandi (1pt)
  - Describe the 'archetype' case in the series (1pt)
  - Predict the behavior of the next event (1pt)
  - Include at least 1 visual (1pt)
- **Space (6pts)**
  - Provide at least three spatial details, including (3pts)
    - Hunting Ground analysis
    - Ellipse/centroid/sequencing analysis
    - Any other noteworthy patterns in the data
  - Predict the location of the next event (2pts)
  - Include at least 1 visual (1pt)
- **Time (6pts)**
  - Provide at three temporal details, including (3pts)
    - Interval analysis
    - Day of Week analysis
    - Any other noteworthy patterns in the data
  - Predict the date/time of the next event (2pts)
  - Include at least 1 visual (1pt)
- **Intervention Strategy (8pts)**
  - Provide a detailed analytic plan using specific strategies to address this series (6pts)
  - Include at least 1 new visual (2pt)
- **Conclusion (1pt)**
  - Provide a brief series overview
- **Data (1pt)**
  - Provide an Excel Workbook/Google Sheets document of your series with all calculations
  - Provide a URL for any/all maps
  - Provide citations for any sources used to supplement the Project 4 data

Please email me with any questions.