# 2019 Crime Survey for the West Midlands

## TEAM MEMBERS

Shannon Watts

Nathaniel

Maxwell Acha

Gary Whitney

## PROJECT DESCRIPTION/OUTLINE

## Multiple datasets have been combined to test the following hypothesis.

## Within the West Midlands during 2019 did the Index of Multiple Deprivation (IMD) Score of an area influence the exposure to crime in that area.

## 

## RESEARCH QUESTIONS

1. Q1
2. Q2
3. Q3
4. Q4
5. Q5

## DATASETS

1. West Midlands Crime Data 2019 by month
2. Local Income Deprivation Data
3. Lower Layer Super Output Areas December 2011 Boundaries
4. D4
5. D5

## BREAKDOWN OF TASKS

1. Identify and obtain data as csv or excel files
2. Studied/discussed
3. Exploring and cleaning of data
4. Lists questions / choose questions that will be used
5. Plan visualizations
6. Allocate tasks to group members
7. Coding
8. Create charts
9. Summarization/conclusion
10. Preparing the presentation

**Notes**

1. IMD – indicators
2. Scatter plot crime rate vs IMD
   1. Coding
   2. Outliers
3. Bar charts – district level overview
   1. Potentially independent mean?
4. Plot heatmap
   1. Coding
   2. Groupby
   3. Further analysis where we find interesting things – e.g. bike theft Warwick
      1. Go deeper and let readers know exactly where not to leave your bike!