# Pedestrian Fatalities in LA County (2010-2019) and Their Association with Household Median Income and Non-White Population Percentage

By:
Saba Hashem Sharifi

**Research Question:**
Is there any relationship between pedestrian fatality locations and demographic characteristics of those locations, including Median income or Non-White Percentages Across LA County?

I utilized the Fatalities records from 2010 to 2019 in an Excel spreadsheet format, focusing solely on pedestrian fatalities involved in traffic accidents. Additionally, the average median income for each census tract from 2010 to 2019 was calculated using Excel's average formula. The non-white population for each year was determined by summing all races except white. The average non-white population for each census tract was obtained by calculating the average from 2010 to 2019. The percentage of non-white population was calculated in Excel.

## Pedestrian Fatalities in LA County: 2010-2019



Legend
● Pedestrian Fatalities

0 2.5 5   10   15   20 Miles
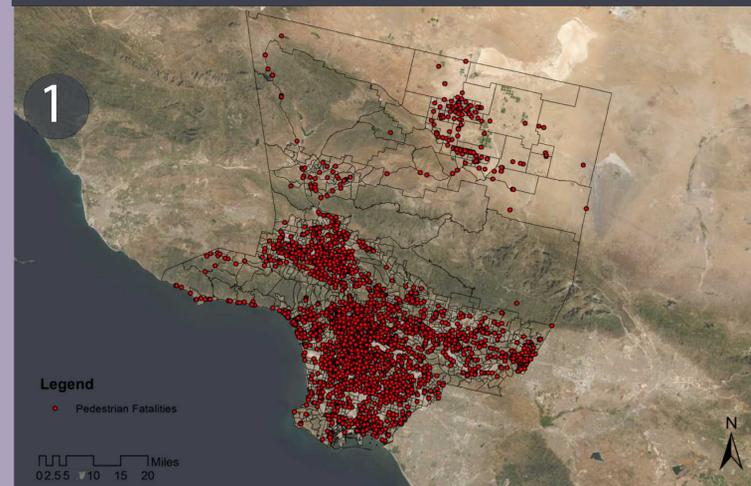
1. I selected Los Angeles County from all US counties layers and created this map using Geocoding. Red points represent pedestrian fatalities.
2. I used a combination of kernel density and Los Angeles County median income for mapping, revealing that pedestrian fatalities are most likely to occur in areas with low median income.
3. I used a combination of kernel density and non-white population percentage for mapping, revealing that pedestrian fatalities are most likely to occur in areas with a high percentage of non-white population

## Number of Pedestrian Fatalities in LA County Per Year



■ Count of number of fatalities
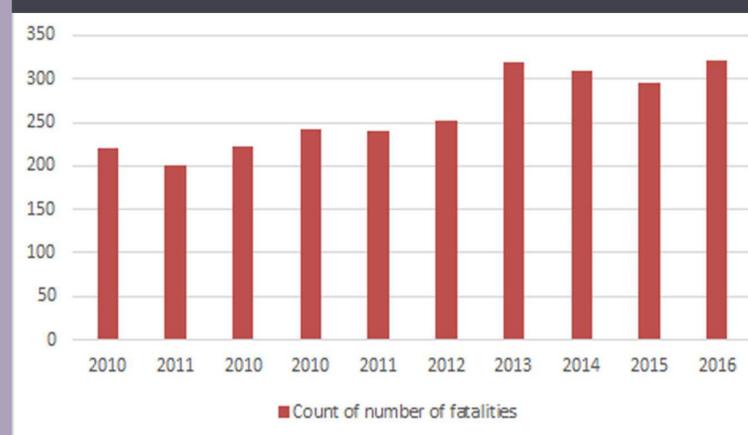
## LA County Median Income and Kernel Density



Median Income
- Very Low
- Low
- Medium
- High
- Very High

Kernel Density
- Low Density
- Medium Density
- High Density
- Very High Density

0 2.5 5   10   15   20 Miles
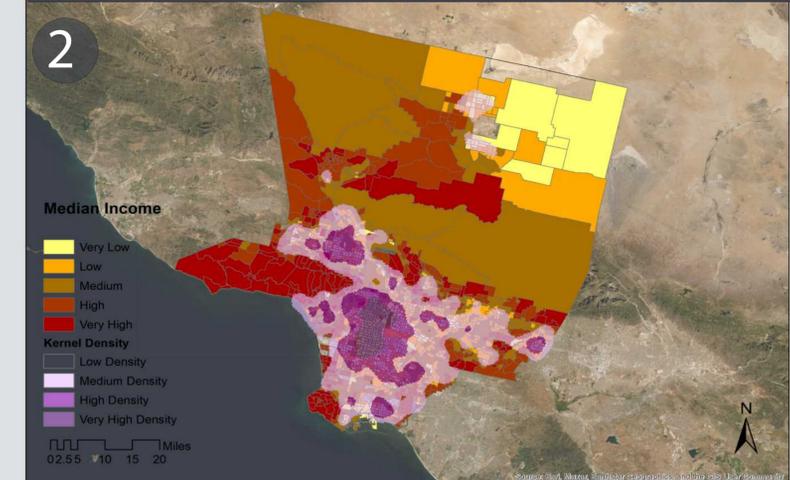
## LA County Non-White Percentage Population and Kernel Density



Kernel Density
- Low Density
- Medium Density
- High Density
- Very High Density

Non White Percentage Population
- Very Low
- Low
- Medium
- High
- Very High

0 2.5 5   10   15   20 Miles
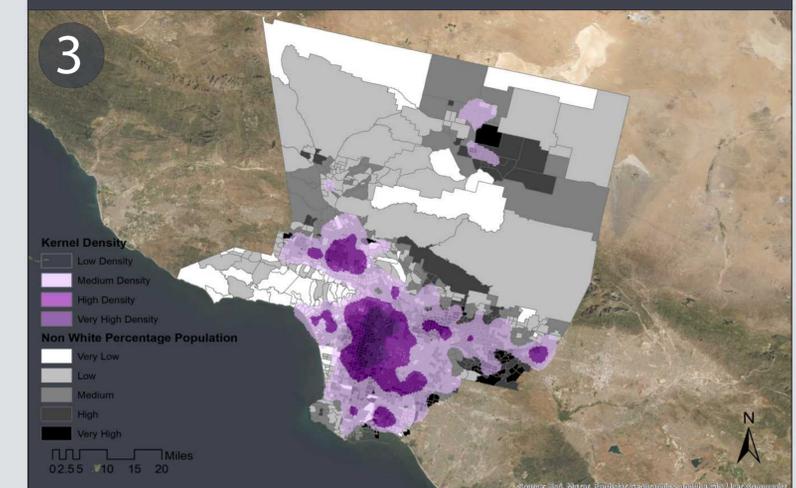
**Conclusion:**
Pedestrian Fatalities are mostly likely happened in areas with low level of median income and areas with high percentage of nonwhite population!