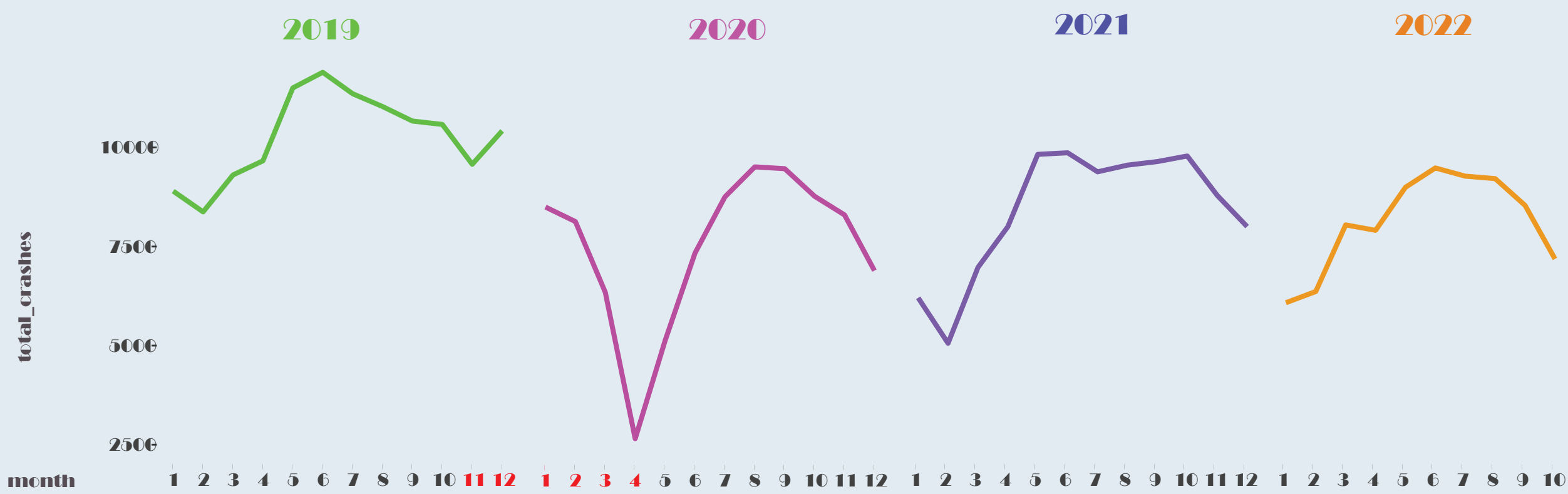# 2019-2022 Motor Vehicle Collisions in NYC

IST719.M001.Final Project
Huiyu Li

- The Dataset records collisions in different locations of New York City between 2019 and 2022 and people affected by crashes in injured and killed.
- The main story of the poster is to figure out:
  - how vehicle collisions varied by month, location, and time of day in NYC,
  - how collisions impacted drivers and other types of people,
  - what factors contribute to the number of vehicles involved in collisions and people injured
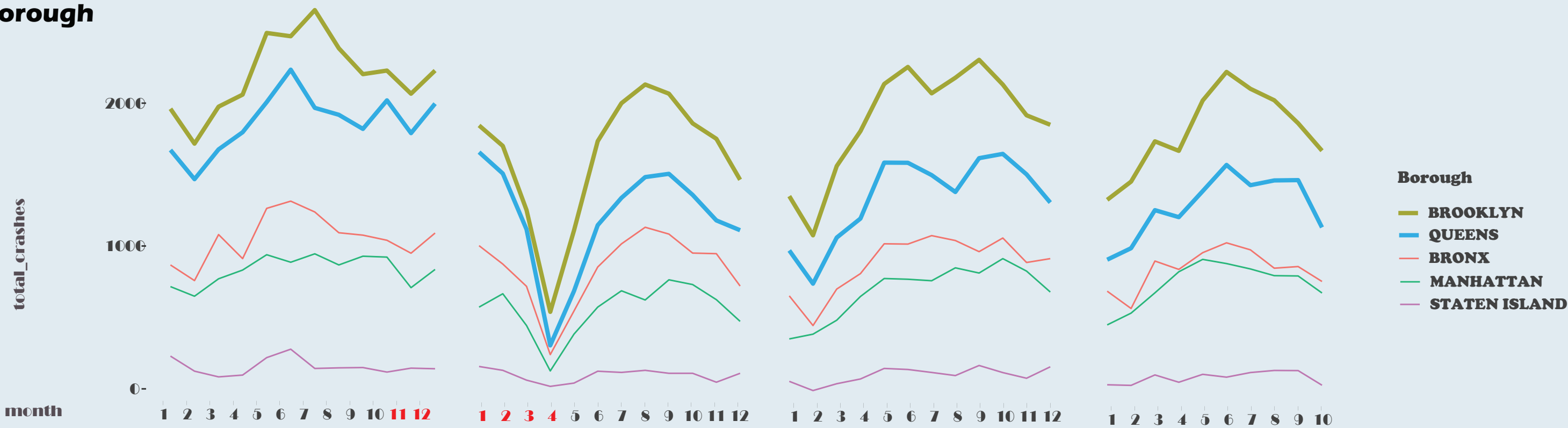
Monthly Motor Vehicle Collisions Trend in NYC

In Different Borough

Borough
- BROOKLYN
- QUEENS
- BRONX
- MANHATTAN
- STATEN ISLAND

2019 to 2022, the highest number of collisions happened in 2019. There was an abnormality from January to April 2020 becuase of the pandemic.
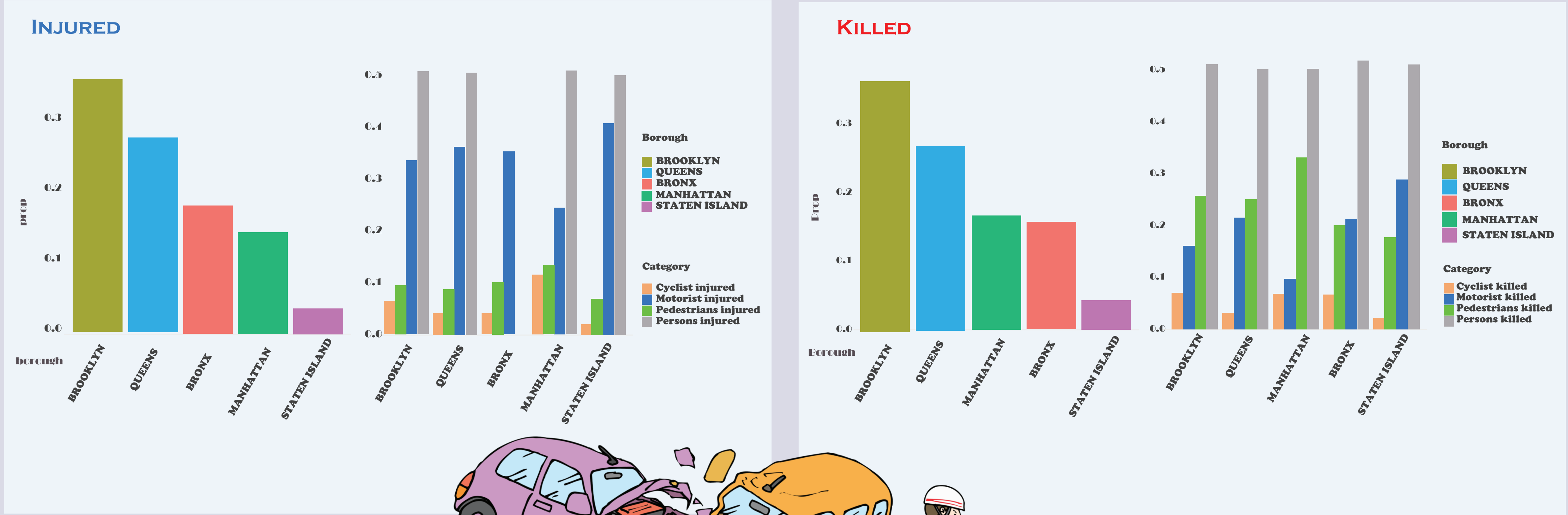
After the pandemic, it shows a seasonal curve demonstrating the lowest number of vehicle collisions from each October to next February.
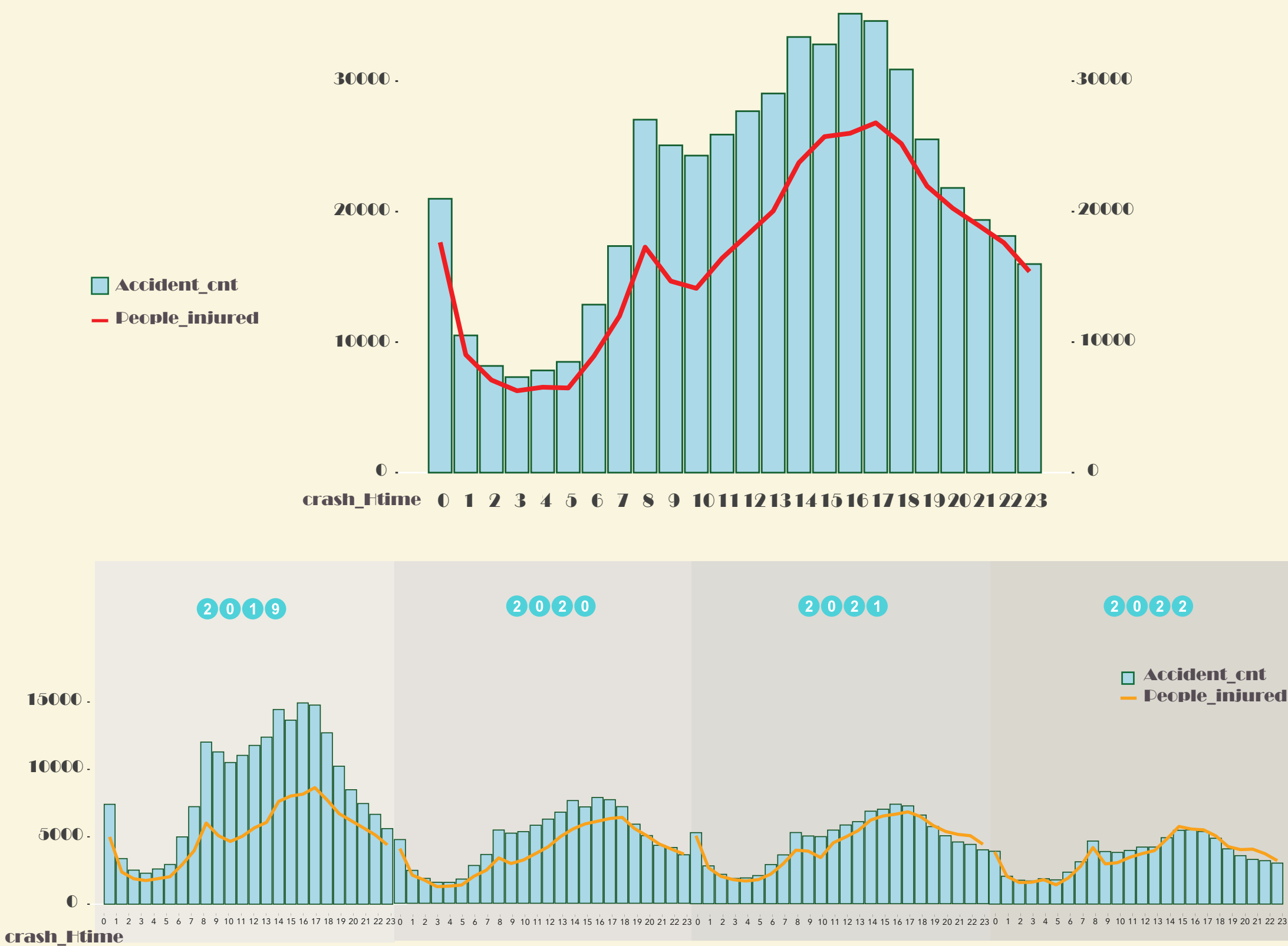
In different boroughs, Brooklyn had the most crashes happen.
In contrast, Staten Island had the least crashes happen.

Injured / Killed Proportion of Types of People in Vehicle Collisions by Borough in NYC

INJURED

Borough
- BROOKLYN
- QUEENS
- BRONX
- MANHATTAN
- STATEN ISLAND

Category
- Cyclist injured
- Motorist injured
- Pedestrians injured
- Persons injured

KILLED

Borough
- BROOKLYN
- QUEENS
- BRONX
- MANHATTAN
- STATEN ISLAND

Category
- Cyclist killed
- Motorist killed
- Pedestrians killed
- Persons killed

Relationship Between Number of Vehicle Accidents and People Injured by Time of Day

Top5 Factors by Borough Contributed to Vehicles in Collisions and Average of People Injured

Factors:
- Unsafe Speed
- Traffic Control Disregarded
- Reaction to Uninvolved Vehicle
- Pavement Slippery
- Passing or Lane Usage Improper
- Other Vehicular
- Following Too Closely
- Failure to Yield Right-of-Way
- Driver Inattention/Distraction

Vehicles_involved

Sources: DATA: https://catalog.data.gov/dataset/motor-vehicle-collisions-crashes