

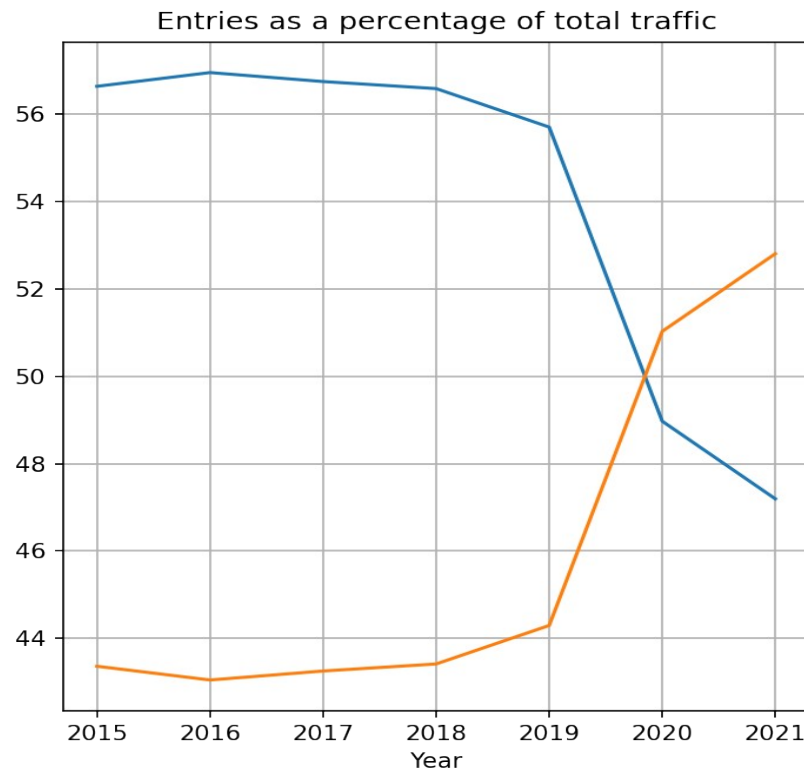
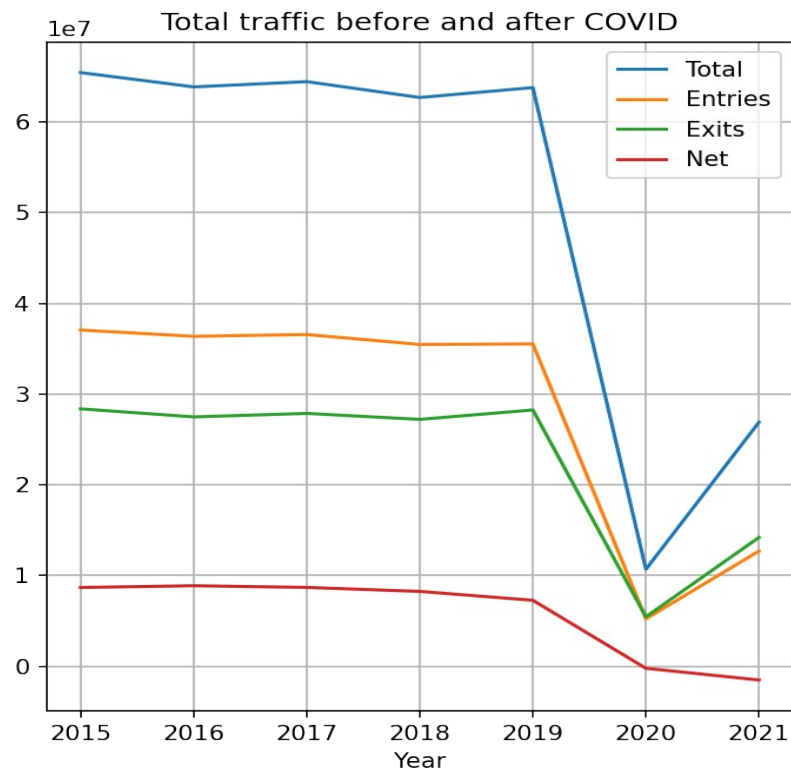
# MTA Traffic Analysis

- Total Traffic change Pre and Post COVID
- Pattern change in Net Traffic
- Most Impacted Stations

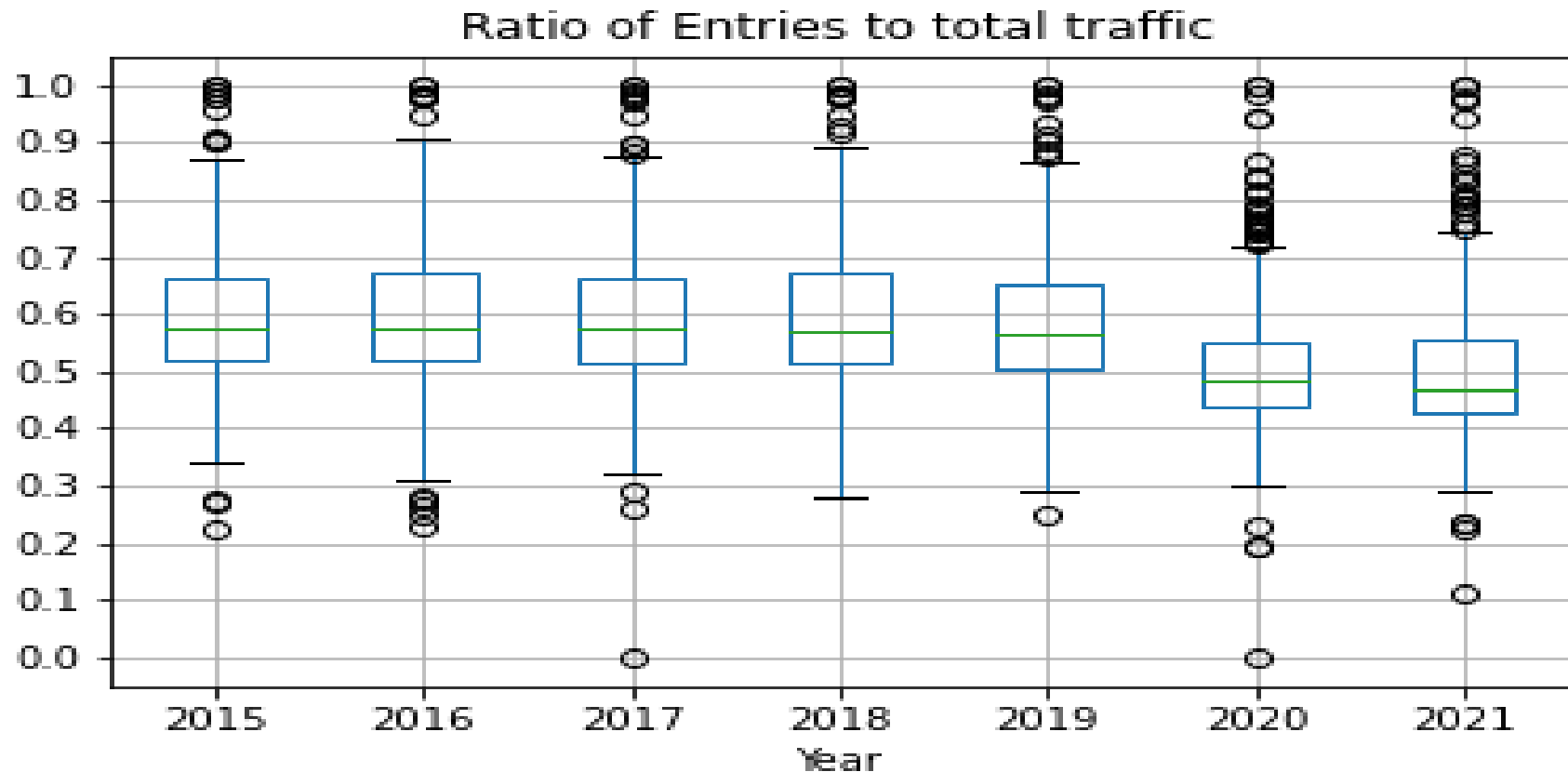
# Methodology

- Convert Counter to Inflow/outflow traffic
- Data Cleaning
- Station Name inconsistent
- Aggregate over week, station, whole system
- Sanity values

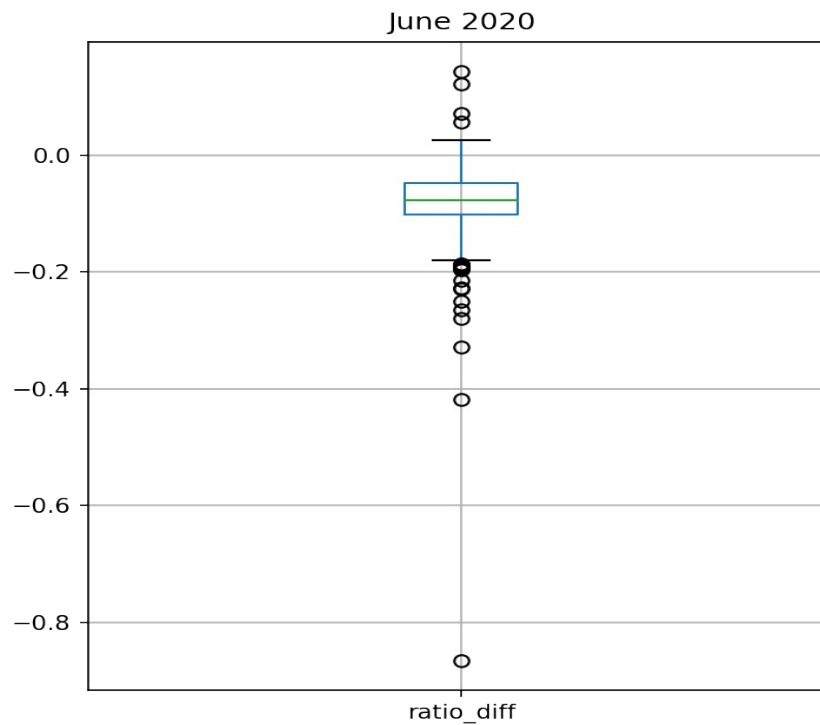
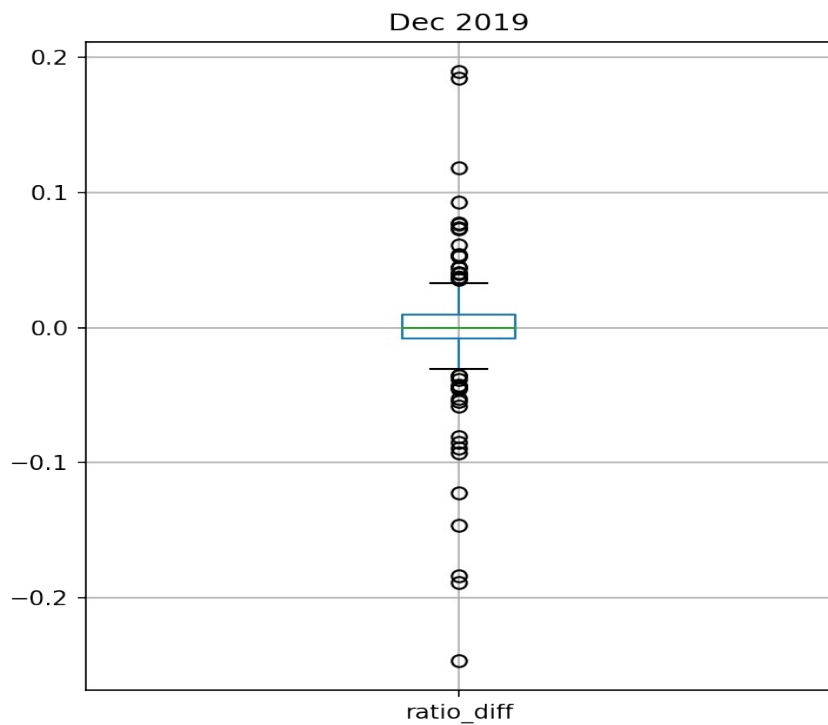
# Total Traffic Pre and Post COVID



# Ration change over the years



# Per Station Changes



# Top Station in Net Traffic Change

- 42 St Time Square – ACENQRS1237
- 34 St Penn Station – ACE
- 42 ST PA Bus Terminal--ACENQRS1237
- Fulton St – ACJZ2345
- 34 St Herald Square – BDFMNOR

# Conclusion

- Large gap in capturing Exits Counts (obvious before 2019)
- Some gap in capturing Entries Counts (obvious in 2021)
- Likely the cap to fully capture data exists at all times.
- External reasons needed from local experts.
- Trend can be tracked and compared.

# Future Work

- Examine outlier to verify reality is reflected.
- Some turnstile has 0 exits count, some has 0 entries count.
- Verify if trend is traffic dependent or policy dependent.