## **Work-From-Home Trends in NYC**

Or: How I learned to Stop Worrying And Love Histograms



Metis EDA Module Presentation
Andrei Levin • 6/25/21

#### **Our Client**

- Necessary Supplies For Work-From-Home Inc. (NSFW)
- Would like to know which NYC neighborhoods have had the largest employment transition to work-from-home as a result of the pandemic.



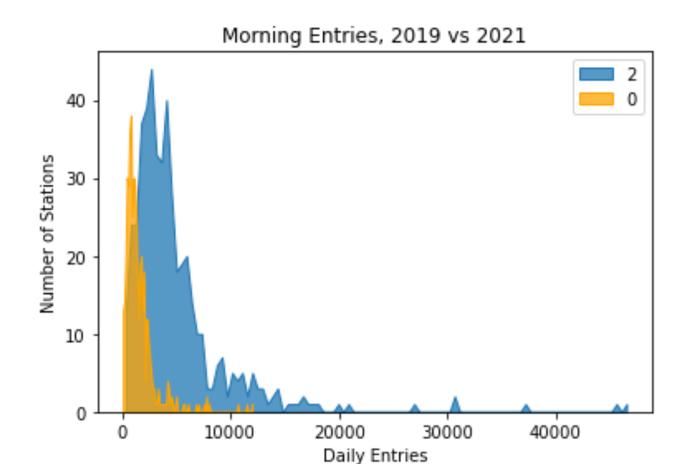


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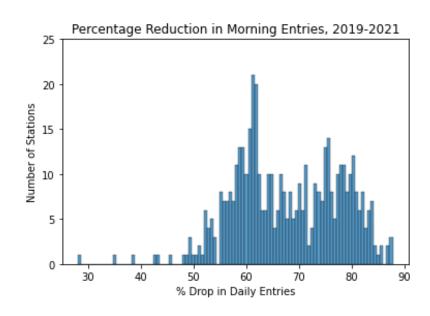


#### **70% Total Decline from 2019 to 2021**

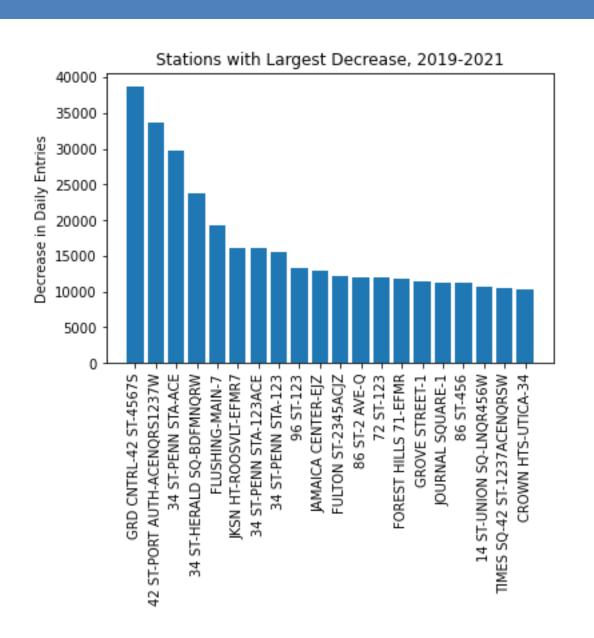
#### **Number Decrease**

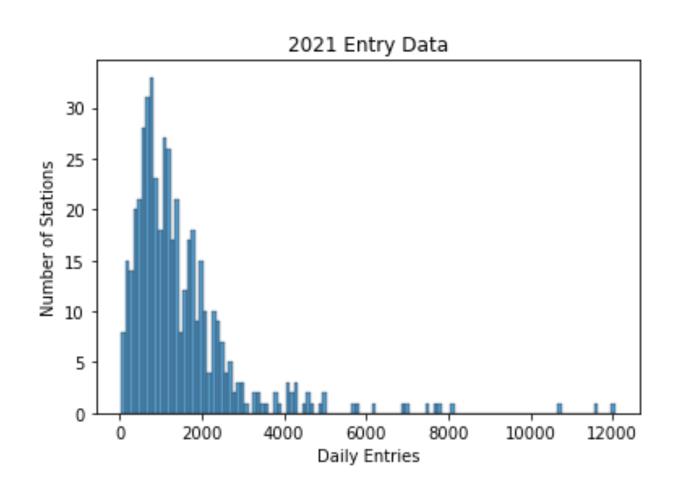
# Net Reduction in Morning Entries, 2019-2021 50 40 10 5000 10000 15000 20000 25000 30000 35000 40000 Decrease in Daily Entries

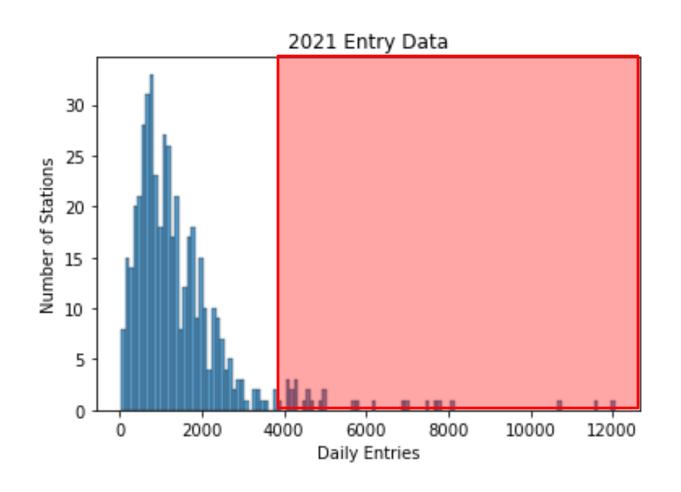
#### **Percentage Decrease**

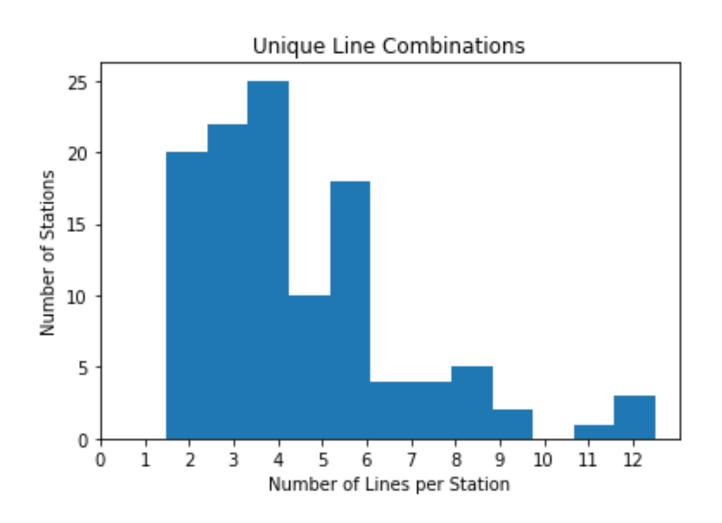


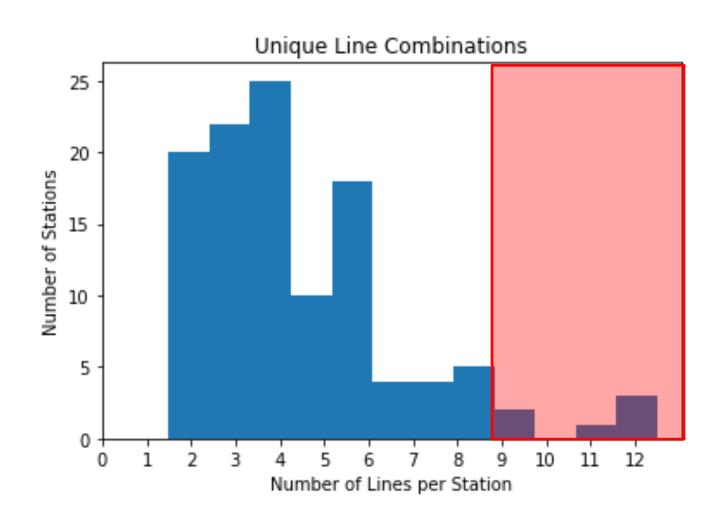
#### **Stations with Largest Number Decrease**

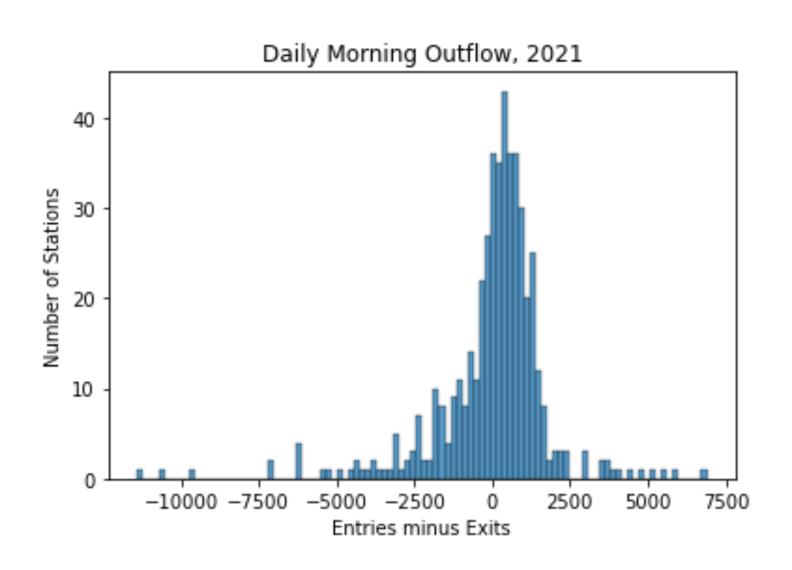


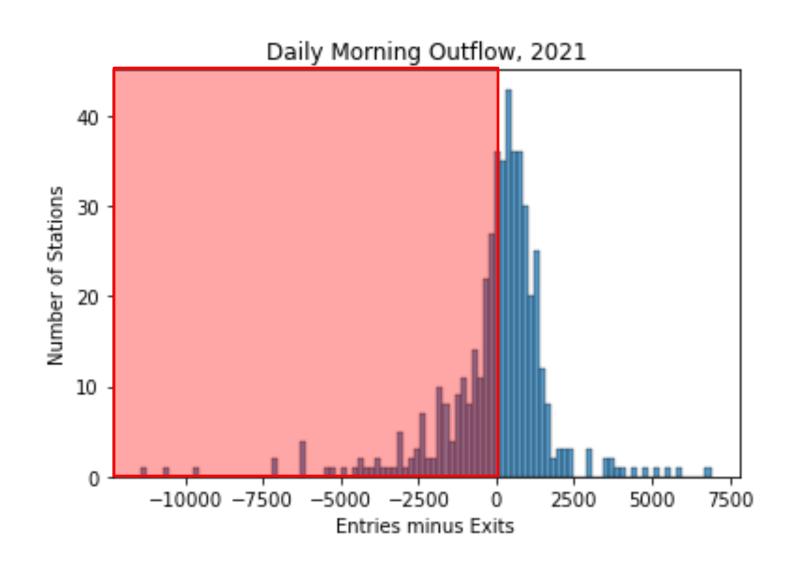






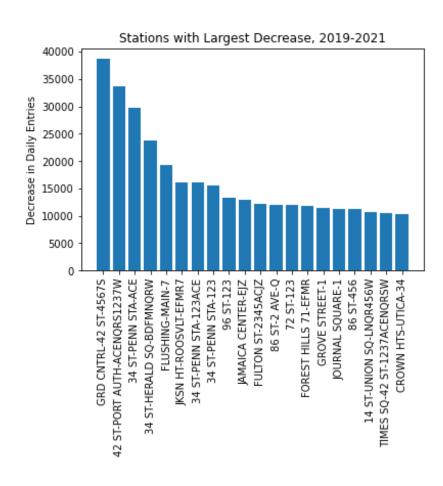






## **Stations with Largest Number Decrease**

#### Without Masks

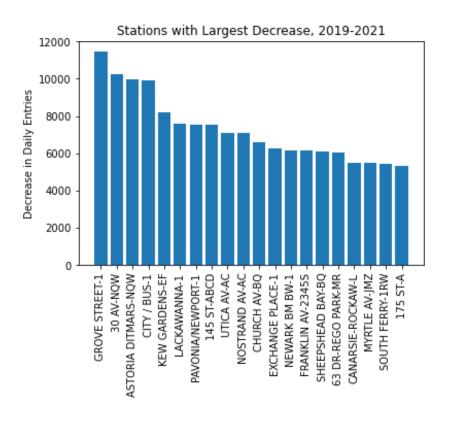


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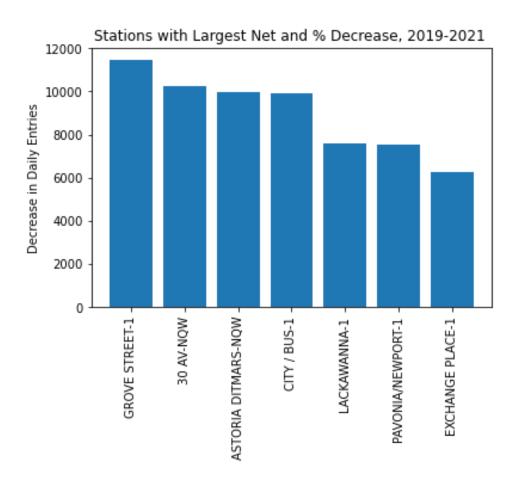
#### Stations with Largest Decrease, 2019-2021 35000 Decrease in Daily Entries 30000 25000 20000 15000 10000 5000 TIMES SQ-42 ST-1237ACENQRSW GRD CNTRL-42 ST-4567S 42 ST-PORT AUTH-ACENQRS1237W 34 ST-PENN STA-ACE 34 ST-HERALD SQ-BDFMNQRW KSN HT-ROOSVLT-EFMR7 34 ST-PENN STA-123ACE 86 ST-2 AVE-Q FOREST HILLS 71-EFMR 14 ST-UNION SQ-LNQR456W CROWN HTS-UTICA-34 34 ST-PENN STA-123 96 ST-123 AMAICA CENTER-EJZ FULTON ST-2345ACJZ 72 ST-123 OURNAL SQUARE-1 FLUSHING-MAIN-7 GROVE STREET-1

#### With Masks



# **Top Candidate Stations**

- Top 20 in both Number Decrease AND Percentage Decrease
- All seven are in Astoria or Jersey City



#### **Pitfalls**

# Separating work-from-home from other confounding factors:

- Unemployment
- Changes in commute modalities (eg walking)
- Changes in MTA lines and services and lines
- Changes in local population density

# **Thank You!**

