

# Math 664 Project: NYC Hate Crime Analysis

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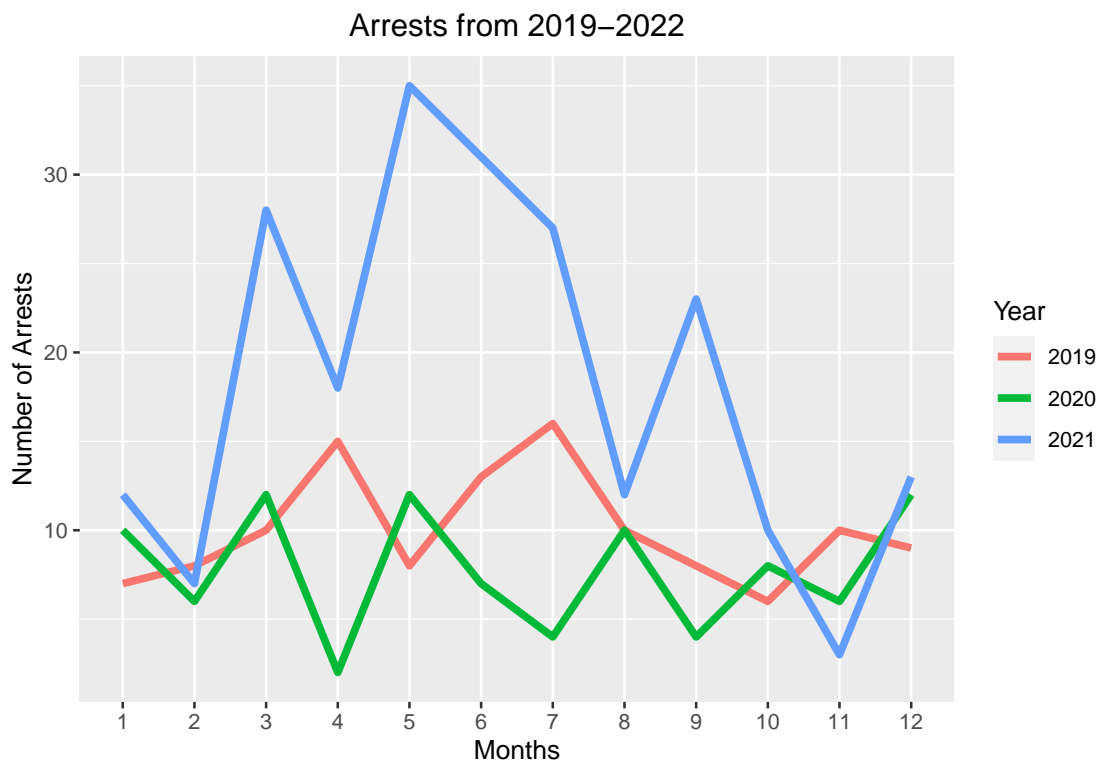
## 1. Plots:

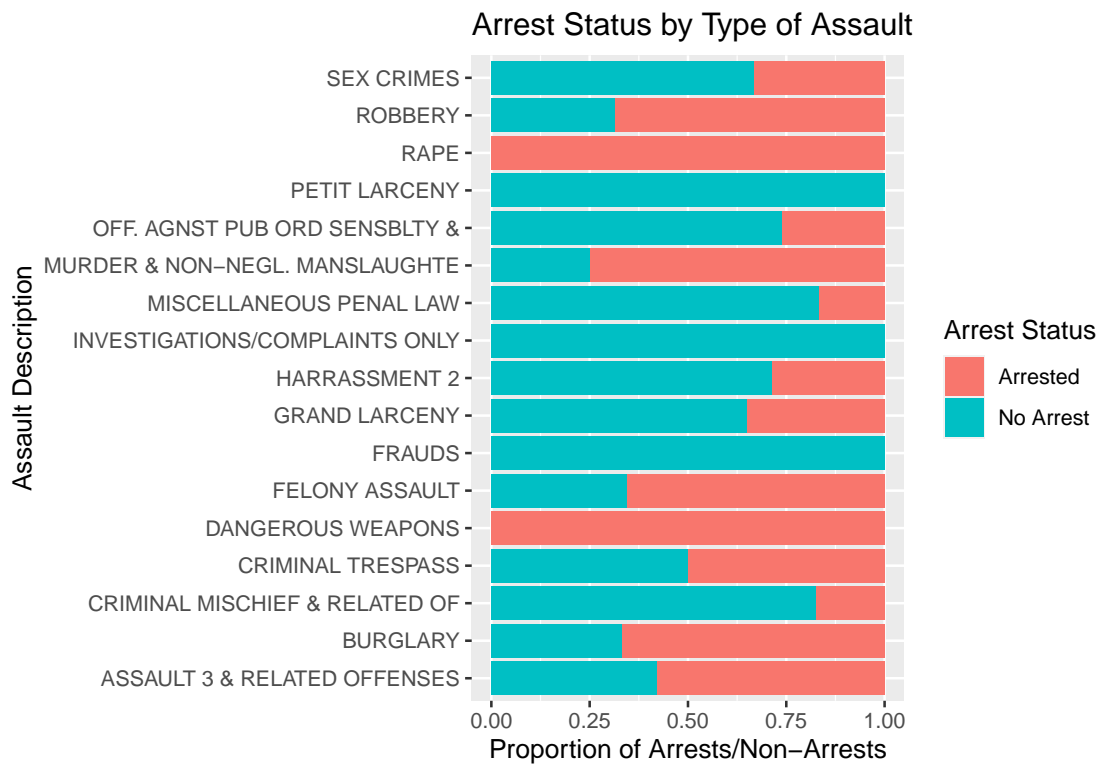
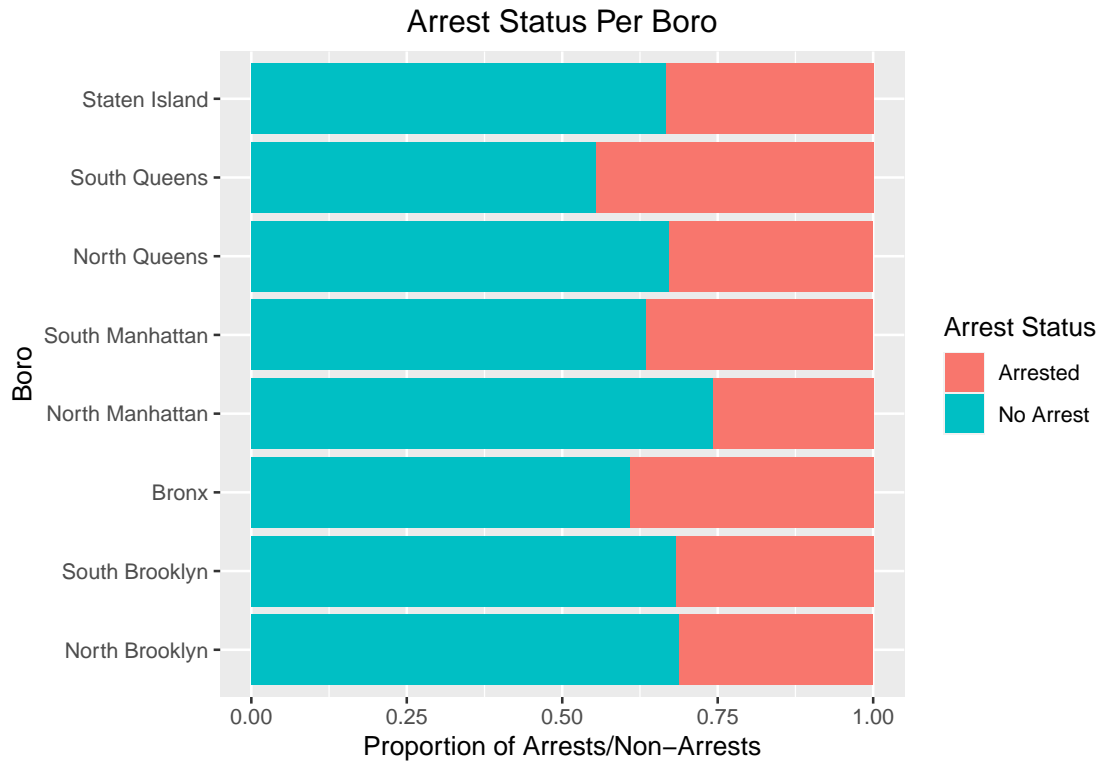
##		Var1	Freq
## 13		ANTI-JEWISH	592
## 3		ANTI-ASIAN	178
## 15		ANTI-MALE HOMOSEXUAL (GAY)	158
## 4		ANTI-BLACK	114
## 23		ANTI-WHITE	56
## 22		ANTI-TRANSGENDER	35
## 17		ANTI-MUSLIM	31
## 6		ANTI-CATHOLIC	24
## 18		ANTI-OTHER ETHNICITY	22
## 11		ANTI-HISPANIC	19
## 8		ANTI-FEMALE HOMOSEXUAL (LESBIAN)	15
## 7		ANTI-FEMALE	14
## 14		ANTI-LGBT (MIXED GROUP)	11
## 2		ANTI-ARAB	7
## 9		ANTI-GENDER NON-CONFORMING	6
## 16		ANTI-MULTI-RACIAL GROUPS	3
## 5		ANTI-BUDDHIST	2
## 10		ANTI-HINDU	2
## 19		ANTI-OTHER RELIGION	2
## 21		ANTI-RELIGIOUS PRACTICE GENERALLY	2
## 1		60 YRS AND OLDER	1
## 12		ANTI-JEHOVAHS WITNESS	1
## 20		ANTI-PHYSICAL DISABILITY	1

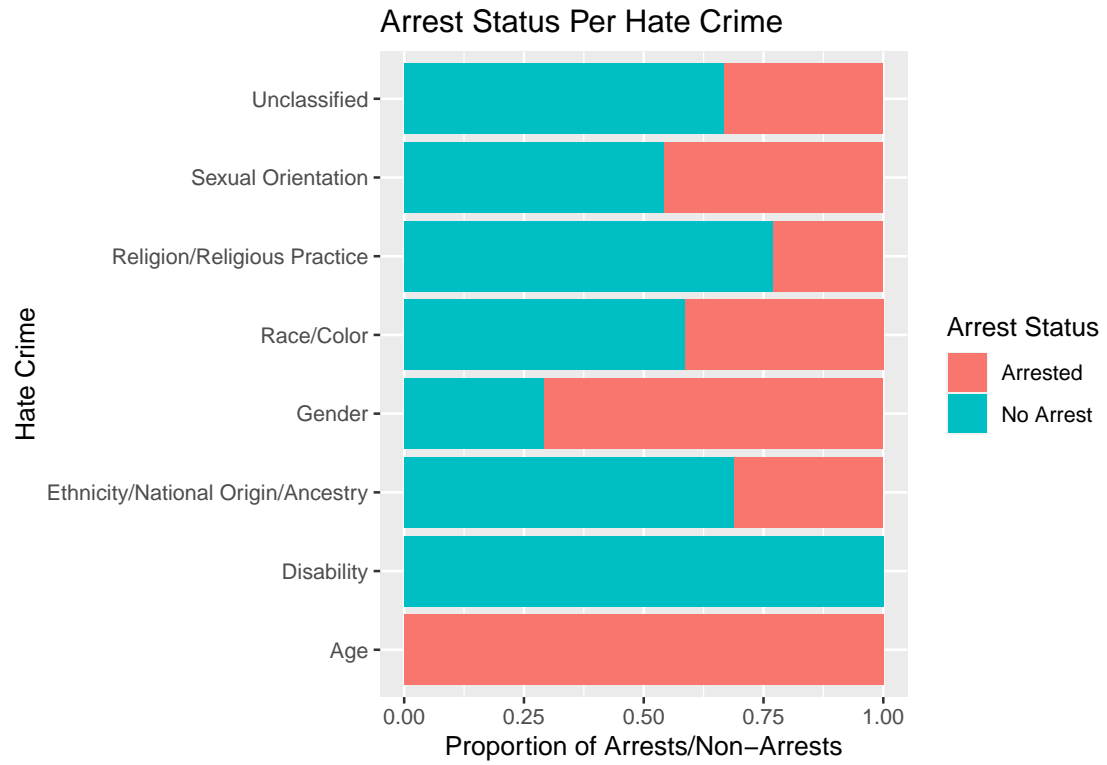
##		Var1	Freq
## 3		CRIMINAL MISCHIEF & RELATED OF	331
## 11		MISCELLANEOUS PENAL LAW	327
## 1		ASSAULT 3 & RELATED OFFENSES	232
## 13		OFF. AGNST PUB ORD SENSBLTY &	164
## 6		FELONY ASSAULT	148
## 16		ROBBERY	38
## 8		GRAND LARCENY	20
## 9		HARRASSMENT 2	14
## 2		BURGLARY	6
## 12		MURDER & NON-NEGL. MANSLAUGHTER	4
## 17		SEX CRIMES	3
## 4		CRIMINAL TRESPASS	2
## 5		DANGEROUS WEAPONS	2
## 14		PETIT LARCENY	2

## 7	FRAUDS	1
## 10	INVESTIGATIONS/COMPLAINTS ONLY	1
## 15	RAPE	1

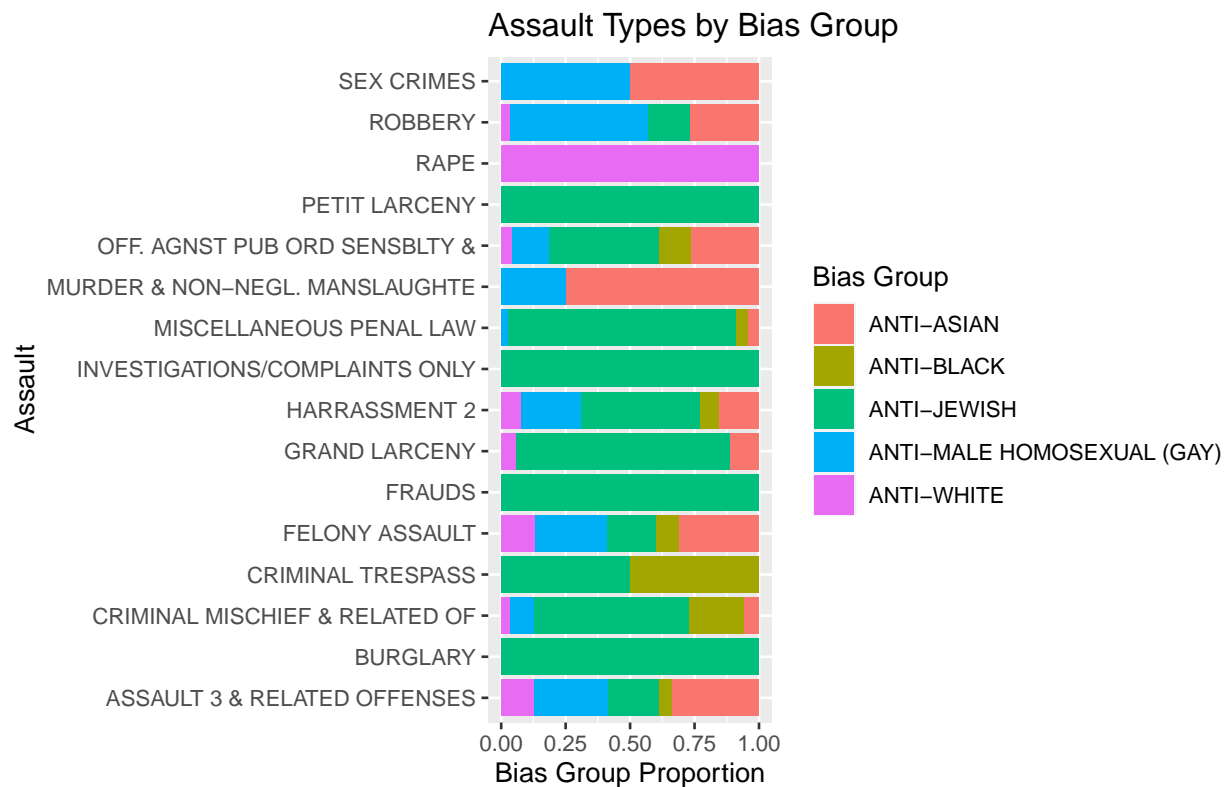
##	Var1	Freq
## 6	Religion/Religious Practice	654
## 5	Race/Color	348
## 7	Sexual Orientation	183
## 4	Gender	55
## 3	Ethnicity/National Origin/Ancstry	48
## 8	Unclassified	6
## 1	Age	1
## 2	Disability	1







```
## # A tibble: 47 x 3
## # Groups:   Offense.Description, Bias.Motive.Description [47]
##   Offense.Description      Bias.Motive.Description      n
##   <chr>                  <chr>                  <int>
## 1 ASSAULT 3 & RELATED OFFENSES  ANTI-ASIAN              60
## 2 ASSAULT 3 & RELATED OFFENSES  ANTI-BLACK               9
## 3 ASSAULT 3 & RELATED OFFENSES  ANTI-JEWISH             35
## 4 ASSAULT 3 & RELATED OFFENSES  ANTI-MALE HOMOSEXUAL (GAY) 51
## 5 ASSAULT 3 & RELATED OFFENSES  ANTI-WHITE              22
## 6 BURGLARY                  ANTI-JEWISH              5
## 7 CRIMINAL MISCHIEF & RELATED OF ANTI-ASIAN              16
## 8 CRIMINAL MISCHIEF & RELATED OF ANTI-BLACK              60
## 9 CRIMINAL MISCHIEF & RELATED OF ANTI-JEWISH             166
## 10 CRIMINAL MISCHIEF & RELATED OF ANTI-MALE HOMOSEXUAL (GAY) 26
## # ... with 37 more rows
```

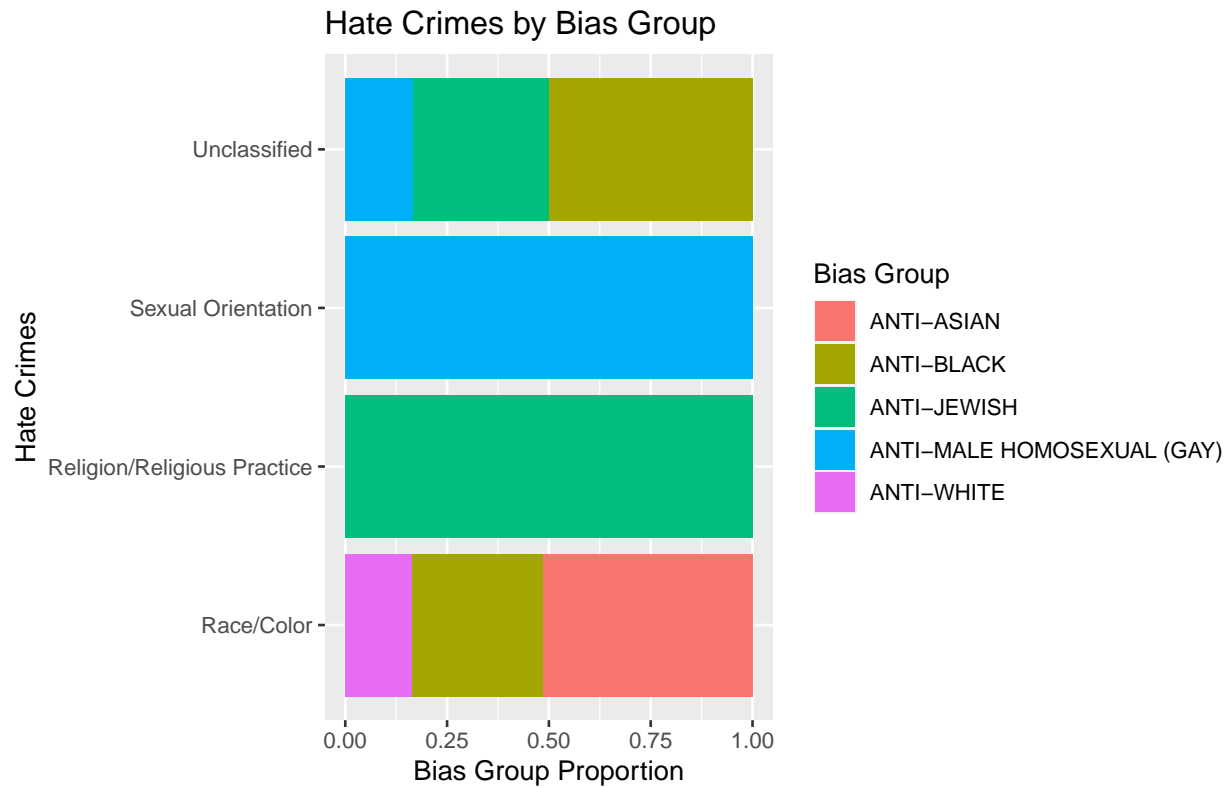


```
## # A tibble: 8 x 3
## # Groups:   Offense.Category, Bias.Motive.Description [8]
##   Offense.Category      Bias.Motive.Description      n
##   <chr>                  <chr>                  <int>
## 1 Race/Color            ANTI-ASIAN             178
## 2 Race/Color            ANTI-BLACK             111
## 3 Race/Color            ANTI-WHITE              56
## 4 Religion/Religious Practice ANTI-JEWISH            590
## 5 Sexual Orientation    ANTI-MALE HOMOSEXUAL (GAY) 157
## 6 Unclassified          ANTI-BLACK               3
## 7 Unclassified          ANTI-JEWISH               2
```

## 8 Unclassified

ANTI-MALE HOMOSEXUAL (GAY)

1



```
##
##              Race/Color Religion/Religious Practice
## ANTI-ASIAN              178                0
## ANTI-BLACK              111                0
## ANTI-JEWISH              0                590
## ANTI-MALE HOMOSEXUAL (GAY) 0                0
## ANTI-WHITE              56                0
```

```
##
##              Sexual Orientation Unclassified
## ANTI-ASIAN              0                0
## ANTI-BLACK              0                3
## ANTI-JEWISH              0                2
## ANTI-MALE HOMOSEXUAL (GAY) 157            1
## ANTI-WHITE              0                0
```

```
##
## Pearson's Chi-squared test with simulated p-value (based on 2000
## replicates)
##
## data:  ct_hatecrime.bias
## X-squared = 2192.9, df = NA, p-value = 0.0004998
```

```
##
##              Disability Ethnicity/National Origin/Ancestry
```

##	ASSAULT 3 & RELATED OFFENSES	0	10
##	CRIMINAL MISCHIEF & RELATED OF	0	17
##	FELONY ASSAULT	0	8
##	MISCELLANEOUS PENAL LAW	1	6
##	OFF. AGNST PUB ORD SENSBLTY &	0	6

	Gender	Race/Color	Religion/Religious Practice
##	ASSAULT 3 & RELATED OFFENSES	32	92
##	CRIMINAL MISCHIEF & RELATED OF	2	86
##	FELONY ASSAULT	12	61
##	MISCELLANEOUS PENAL LAW	1	28
##	OFF. AGNST PUB ORD SENSBLTY &	3	59

	Sexual Orientation	Unclassified
##	ASSAULT 3 & RELATED OFFENSES	56
##	CRIMINAL MISCHIEF & RELATED OF	30
##	FELONY ASSAULT	39
##	MISCELLANEOUS PENAL LAW	12
##	OFF. AGNST PUB ORD SENSBLTY &	24

##

## Pearson's Chi-squared test with simulated p-value (based on 2000 replicates)

##

## data: ct\_hatecrime.assault

## X-squared = 389.3, df = NA, p-value = 0.0004998