# Final Report

due November 16, 2021 by 11:59 PM

Ashley Bae, Gi Chun, Jay Nolt

November 2021

# Load Packages

```
library(tidyverse)
library(readxl)
library(dbplyr)
```

#### Load Data

```
load(file = "~/sta198/Jackie-Fan-Club/data/ICPSR_34363/DS0001/34363-0001-Data.rda")
#rename file
data <- da34363.0001</pre>
```

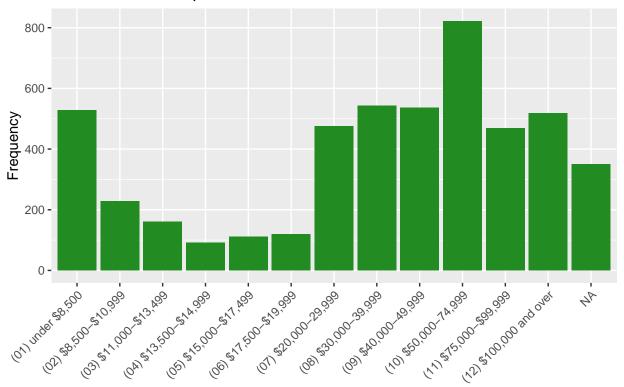
Data Citation: Battle, Juan, Pastrana, Antonio Jay, and Daniels, Jessie. Social Justice Sexuality Project: 2010 National Survey, including Puerto Rico. Ann Arbor, MI: Inter-university Consortium for Political and Social Research [distributor], 2013-08-09. https://doi.org/10.3886/ICPSR34363.v1

```
data_filtered <- data %>%
  select(Q15B,
         Q15C,
         Q17A,
         Q17B,
         Q18A1:Q18A5,
         Q18C,
         Q18G,
         Q19A1:Q19A7,
         Q22A,
         Q22B,
         Q25)
# remove descriptions and other attributes
data_filtered2 <- lapply(data, function(x) {attributes(x) <- NULL; x}) %>%
  as.data.frame() %>%
  select(Q15B,
         Q15C,
         Q17A,
         Q17B,
         Q18A1:Q18A5,
         Q18C,
         Q18G,
```

```
Q19A1:Q19A7,
         Q22A,
         Q22B,
         Q25)
data <- data_filtered %>%
   select(Q17A,
         Q17B,
         Q18A1:Q18A5,
         Q18C,
         Q18G,
         Q19A1:Q19A7,
         Q22A,
         Q22B,
         Q25) %>%
  rename(healthInsureAcc = Q17A) %>%
  rename(healthProvideAcc = Q17B) %>%
  rename(male = Q18A1) %>%
  rename(female = Q18A2) %>%
  rename(m2f = Q18A3) %>%
  rename(f2m = Q18A4) %>%
  rename(genderOther = Q18A5) %>%
  rename(sexuality = Q18C) %>%
  mutate(age = 2021 - Q18G) %>%
 rename(black = Q19A1) %>%
 rename(hispanic = Q19A2) %>%
 rename(asian = Q19A3) %>%
  rename(native = Q19A4) %>%
  rename(white = Q19A5) %>%
  rename(multi = Q19A6) %>%
  rename(raceOther = Q19A7) %>%
  rename(edu = Q22A) %>%
  rename(income = Q22B) %>%
  rename(assessHealth = Q25)
data <- data %>%
 mutate(male = case_when(
  male == "(1) Yes" ~ "male",
  is.na(male) ~ "",
 TRUE ~ ""),
 female = case_when(
  female == "(1) Yes" ~ "female",
  is.na(female) ~ "",
 TRUE ~ ""),
 m2f = case_when(
 m2f == "(1) Yes" \sim "m2f",
 is.na(m2f) ~ "",
 TRUE ~ ""),
 f2m = case_when(
 f2m == "(1) Yes" ~ "f2m",
 is.na(f2m) ~ "",
  TRUE ~ ""),
  genderOther = case_when(
  genderOther == "(1) Yes" ~ "Other",
```

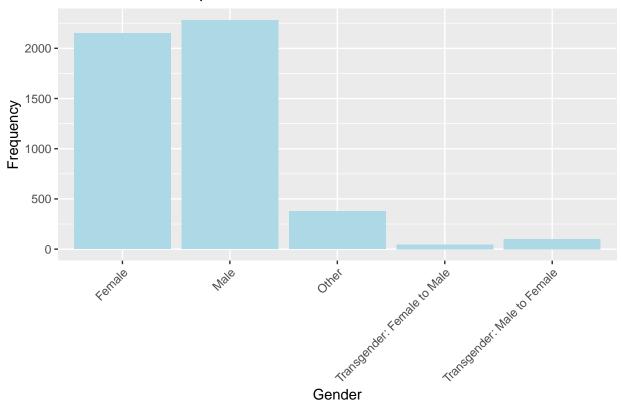
```
is.na(genderOther) ~ "",
 TRUE ~ ""),
  gender = ""
data$gender <- paste(data$male, data$female)</pre>
data$gender <- paste(data$gender, data$m2f)</pre>
data$gender <- paste(data$gender, data$f2m)</pre>
data$gender <- paste(data$gender, data$genderOther)</pre>
data$gender <- trimws(data$gender)</pre>
data <- data %>%
mutate(gender = case_when(
  gender == "male" ~ "Male",
  gender == "female" ~ "Female",
  gender == "m2f" ~ "Transgender: Male to Female",
  gender == "f2m" ~ "Transgender: Female to Male",
  TRUE ~ "Other")
ggplot(data, aes(x = income)) +
  geom_bar(fill = "#228b22") +
  labs (x = "Reported Income Level",
        y = "Frequency",
        title = "Distribution of Respondant Income Levels",) +
  theme(axis.text.x = element_text(angle = 45,
                                    hjust = 1))
```

## Distribution of Respondant Income Levels



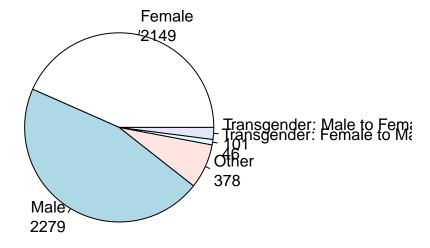
### Reported Income Level

# Distribution of Respondant Gender

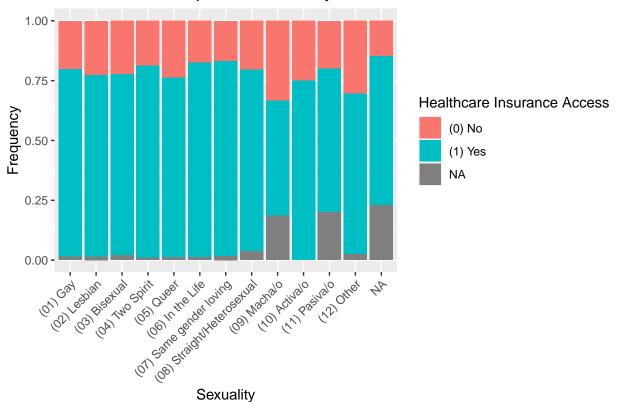


```
# Pie Chart with Percentages
gendertable <- table(data$gender)
lbls <- paste(names(gendertable), "\n", gendertable, sep="")
pie(gendertable, labels = lbls,
    main="Pie Chart of Gender Distribution of Respondents")</pre>
```

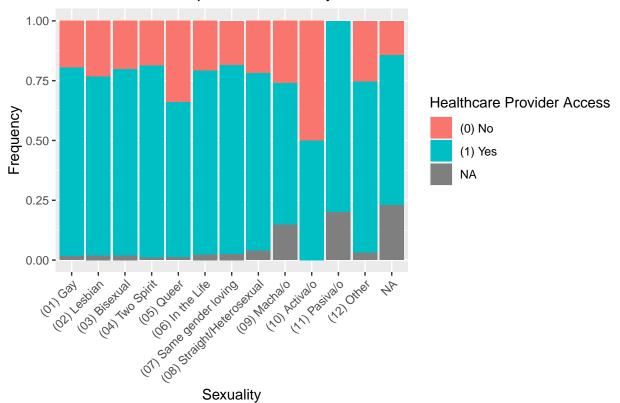
# **Pie Chart of Gender Distribution of Respondents**



## Distribution of Respondant Sexuality and Healthcare Access



## Distribution of Respondant Sexuality and Healthcare Access



# Distribution of Respondant Gender and Healthcare Access

