

Appendix I - Geocoding and Descriptive Statistics

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Libraries

```
library(tidyverse)
library(dplyr)
library(tigris)
library(stargazer)
```

Geocoding ICE Detention Centers

```
#Load CSV with Lat/Long of ICE Detention Centers
geolatlon <- read.csv("geolatlon.csv")

#Use Lat/Long to find Census Codes
geolatlon$census_code <- NA

for(i in 1:nrow(geolatlon)){
  geolatlon$census_code[i] <- call_geolocator_latlon(geolatlon$lat[i], geolatlon$long[i]) }

#Update Geolatlon CSV File
write.csv(geolatlon, '/Users/Iszy/Documents/Harris School of Public Policy/Year 2/
Fall 2019/GIS I/Final Project/QGIS Mapping Data/NHGIS Data - Final/ANOVA Data/geolatlon_2.csv',
row.names = FALSE)

# I then used this geocoded data for the latitude/longitude and identified census
# tracts with ICE detention centers
```

Load Data for Analysis

```
#Load Census Tract Data
tract_data <- read.csv("tract_data.csv")

#Confirm that 1 or 0 Identifier for All Census Tracts
tract_data <- tract_data %>%
  mutate(ICE_center = if_else(tract_data$Contains_ICE ==1, 1, 0))

tract_data$ICE_center <- as.factor(tract_data$ICE_center)
```

Descriptive Statistics: All Census Tracts

```
#Create New Dataframes for Tracts with and without ICE facilities
tract_data_ICE <- tract_data %>%
  filter(ICE_center == 1)

tract_data_no <-tract_data %>%
  filter(ICE_center ==0)

#Calculate Descriptive Statistics
stargazer(subset(tract_data_ICE[c("Percent_Foreign_Born", "Percent_Speak_Spanish",
  "Percent_Latino")]),type = "latex", median = TRUE, title =
  "Descriptive Statistics: Census Tracts with ICE Detention Facilities",
  style = "aer", covariate.labels =
    c("Percent Foreign Born", "Percent Spanish Speaker",
      "Percent Hispanic/Latino"))
```

% Table created by stargazer v.5.2.2 by Marek Hlavac, Harvard University. E-mail: hlavac at fas.harvard.edu
% Date and time: Tue, Dec 08, 2020 - 12:56:58

Table 1: Descriptive Statistics: Census Tracts with ICE Detention Facilities

Statistic	N	Mean	St. Dev.	Min	Pctl(25)	Median	Pctl(75)	Max
Percent Foreign Born	296	0.147	0.149	0.000	0.033	0.093	0.213	0.785
Percent Spanish Speaker	296	0.186	0.228	0.000	0.018	0.078	0.275	0.871
Percent Hispanic/Latino	296	0.267	0.286	0.000	0.045	0.140	0.416	0.985

```
stargazer(subset(tract_data_no[c("Percent_Foreign_Born", "Percent_Speak_Spanish",
  "Percent_Latino")]), type = "latex", median = TRUE, title =
  "Descriptive Statistics: Census Tracts without ICE Detention Facilities",
  style = "aer", covariate.labels = c("Percent Foreign Born",
  "Percent Spanish Speaker", "Percent Hispanic/Latino"))
```

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% Date and time: Tue, Dec 08, 2020 - 12:56:58

Table 2: Descriptive Statistics: Census Tracts without ICE Detention Facilities

Statistic	N	Mean	St. Dev.	Min	Pctl(25)	Median	Pctl(75)	Max
Percent Foreign Born	72,122	0.125	0.136	0.000	0.026	0.073	0.178	1.000
Percent Spanish Speaker	72,122	0.106	0.167	0.000	0.008	0.034	0.121	1.000
Percent Hispanic/Latino	72,122	0.162	0.213	0.000	0.026	0.072	0.202	1.000

Descriptive Statistics: Illinois Census Tracts

```
tract_data_IL <- tract_data %>%
  filter(STATEA == 17)

tract_data_IL_ICE <- tract_data_IL %>%
  filter(ICE_center == 1)

tract_data_IL_no <-tract_data_IL %>%
  filter(ICE_center ==0)

stargazer(subset(tract_data_IL_ICE[c("Percent_Foreign_Born", "Percent_Speak_Spanish",
  "Percent_Latino")]),type = "latex", median = TRUE, title =
  "Descriptive Statistics: Illinois Census Tracts with ICE Detention Facilities",
  style = "aer", covariate.labels =
    c("Percent Foreign Born", "Percent Spanish Speaker",
      "Percent Hispanic/Latino"))
```

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 % Date and time: Tue, Dec 08, 2020 - 12:56:59

Table 3: Descriptive Statistics: Illinois Census Tracts with ICE Detention Facilities

Statistic	N	Mean	St. Dev.	Min	Pctl(25)	Median	Pctl(75)	Max
Percent Foreign Born	6	0.130	0.123	0.012	0.028	0.122	0.179	0.330
Percent Spanish Speaker	6	0.143	0.186	0.005	0.017	0.063	0.199	0.480
Percent Hispanic/Latino	6	0.185	0.234	0.010	0.028	0.087	0.253	0.609

```
stargazer(subset(tract_data_IL_no[c("Percent_Foreign_Born", "Percent_Speak_Spanish",
  "Percent_Latino")]), type = "latex", median = TRUE, title =
  "Descriptive Statistics: Illinois Census Tracts without ICE Detention Facilities",
  style = "aer", covariate.labels = c("Percent Foreign Born",
  "Percent Spanish Speaker", "Percent Hispanic/Latino"))
```

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 % Date and time: Tue, Dec 08, 2020 - 12:56:59

Table 4: Descriptive Statistics: Illinois Census Tracts without ICE Detention Facilities

Statistic	N	Mean	St. Dev.	Min	Pctl(25)	Median	Pctl(75)	Max
Percent Foreign Born	3,110	0.129	0.131	0.000	0.022	0.081	0.201	0.688
Percent Spanish Speaker	3,110	0.112	0.177	0	0.0	0.0	0.1	1
Percent Hispanic/Latino	3,110	0.159	0.215	0.000	0.025	0.070	0.185	0.996