project_pt2

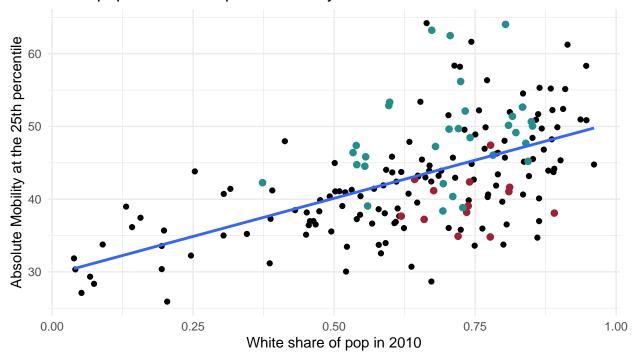
2023-04-13

```
#Initial data wrangling
#Subsetting for Wake County
wake_co <- atlas %>% subset(state == "37" & county == "183")
view(wake_co)
#How many census tracts in Wake County?
length(unique(wake_co$tract))
## [1] 186
#Subsetting for my neighborhood (Fuguay-Varina, Holly Springs, and Willow Spring)
fuquay <- wake_co |> subset(str_detect(tract_name, "Fuquay Varina") | str_detect(tract_name, "Holly Spr
view(fuguay)
#Subsetting for upper-middle class neighborhood (Cary)
cary <- wake co |> subset(str detect(tract name, "Cary"))
view(cary)
#Upward mobility in Wake County, Fuguay-Varina, and Cary
wake_upmobility <- mean(wake_co$kfr_pooled_pooled_p25, na.rm = TRUE)</pre>
fuquay_upmobility <- mean(fuquay$kfr_pooled_pooled_p25, na.rm = TRUE)</pre>
cary_upmobility <- mean(cary$kfr_pooled_pooled_p25, na.rm = TRUE)</pre>
abscomp <- data.frame(c("Wake County", "Fuquay-Varina Tracts", "Cary Tracts"),</pre>
                        c(wake_upmobility, fuquay_upmobility, cary_upmobility))
names(abscomp)[1] <- "Level"</pre>
names(abscomp)[2] <- "Absolute Mobility at the 25th Percentile"</pre>
abscomp
##
                     Level Absolute Mobility at the 25th Percentile
## 1
              Wake County
                                                             43.10832
## 2 Fuguay-Varina Tracts
                                                             39.71029
## 3
              Cary Tracts
                                                             48.77694
#College Degree attainment in Wake County, Fuquay, and Cary
wake_college <- mean(wake_co$frac_coll_plus2010, na.rm = TRUE)</pre>
fuquay_college <- mean(fuquay$frac_coll_plus2010, na.rm = TRUE)</pre>
cary_college <- mean(cary$frac_coll_plus2010, na.rm = TRUE)</pre>
#Median household income in Wake County, Fuquay, and Cary
wake_medinc <- mean(wake_co$med_hhinc2016, na.rm = TRUE)</pre>
fuquay_medinc <- mean(fuquay$med_hhinc2016, na.rm = TRUE)</pre>
cary_medinc <- mean(cary$med_hhinc2016, na.rm = TRUE)</pre>
#Poverty rate in Wake County, Fuquay, and Cary
wake poor <- mean(wake co$poor share2010, na.rm = TRUE)</pre>
fuquay_poor <- mean(fuquay$poor_share2010, na.rm = TRUE)</pre>
```

```
cary_poor <- mean(cary$poor_share2010, na.rm = TRUE)</pre>
indicators <- data.frame(c("Wake County", "Fuquay-Varina Tracts", "Cary Tracts"),</pre>
                          c(wake_college, fuquay_college, cary_college),
                          c(wake_medinc, fuquay_medinc, cary_medinc),
                          c(wake_poor, fuquay_poor, cary_poor))
names(indicators)[1] <- "Region"</pre>
names(indicators)[2] <- "2010 College Degree Attainment Rate"</pre>
names(indicators)[3] <- "2016 Median Household Income"</pre>
names(indicators)[4] <- "2006-2010 Poverty Rate"</pre>
indicators
##
                    Region 2010 College Degree Attainment Rate
## 1
              Wake County
                                                       0.4871529
## 2 Fuquay-Varina Tracts
                                                       0.4073116
              Cary Tracts
                                                       0.6235936
##
   2016 Median Household Income 2006-2010 Poverty Rate
## 1
                          77560.94
                                                0.10126243
## 2
                          78324.08
                                                 0.05733536
## 3
                          98308.97
                                                 0.05075697
#White population share in Wake County, Fuquay, and Cary
wake_white <- mean(wake_co$share_white2010, na.rm = TRUE)</pre>
fuquay_white <- mean(fuquay$share_white2010, na.rm = TRUE)</pre>
cary_white <- mean(cary$share_white2010, na.rm = TRUE)</pre>
#Black population share in Wake County, Fuquay, and Cary
wake_black <- mean(wake_co$share_black2010, na.rm = TRUE)</pre>
fuquay_black <- mean(fuquay$share_black2010, na.rm = TRUE)</pre>
cary_black <- mean(cary$share_black2010, na.rm = TRUE)</pre>
#Hispanic population share in Wake County, Fuquay, and Cary
wake_hispanic <- mean(wake_co$share_hisp2010, na.rm = TRUE)</pre>
fuquay_hispanic <- mean(fuquay$share_hisp2010, na.rm = TRUE)</pre>
cary_hispanic <- mean(cary$share_hisp2010, na.rm = TRUE)</pre>
demos <- data.frame(c("Wake County", "Fuquay-Varina Tracts", "Cary Tracts"),</pre>
                          c(wake_white, fuquay_white, cary_white),
                          c(wake black, fuguay black, cary black),
                          c(wake_hispanic, fuquay_hispanic, cary_hispanic))
names(demos)[1] <- "Region"</pre>
names(demos)[2] <- "2010 White Population Share"
names(demos)[3] <- "2010 Black Population Share"</pre>
names(demos)[4] <- "2010 Hispanic Population Share"</pre>
demos
##
                    Region 2010 White Population Share 2010 Black Population Share
## 1
              Wake County
                                              0.6445501
                                                                           0.19562181
## 2 Fuquay-Varina Tracts
                                              0.7381529
                                                                           0.15185540
## 3
              Cary Tracts
                                              0.7044272
                                                                           0.08447644
## 2010 Hispanic Population Share
```

```
0.09075263
## 1
## 2
                         0.07848141
## 3
                         0.07485468
#Descriptive relationships between present-day statistics and upward mobility in Wake County
#Creating custom columns for graphs
fuquay <- fuquay %>% mutate(neighborhood = "A")
cary <- cary %>% mutate(neighborhood = "B")
#Combine the datasets
combined_data <- rbind(fuquay, cary)</pre>
view(combined_data)
#White share of population
white <- wake_co |>
        ggplot(aes(x = share_white2010, y = kfr_pooled_pooled_p25)) +
           geom_point(aes(x = share_white2010, y = kfr_pooled_pooled_p25)) +
           geom_point(data = combined_data,
             aes(color = neighborhood)) +
          geom_point(data = fuquay, aes(x = share_white2010, y = kfr_pooled_pooled_p25),
                      color = "#A31F34", size = 2) +
           geom point(data = cary, aes(x = share white2010, y = kfr pooled pooled p25),
                      color = "#21908CFF", size = 2) +
          scale_color_manual(name = "Neighborhood",
                     values = c("A" = "#A31F34", "B" = "#21908CFF"),
                     labels = c("Fuquay-Varina", "Cary")) +
           geom_smooth(method = "lm", se = F) +
           labs(x = "White share of pop in 2010",
                y = "Absolute Mobility at the 25th percentile",
                title = "White population and upward mobility") +
          theme_minimal() +
          theme(legend.position = "bottom")
white
## `geom_smooth()` using formula = 'y ~ x'
## Warning: Removed 2 rows containing non-finite values (`stat smooth()`).
## Warning: Removed 2 rows containing missing values (`geom_point()`).
## Warning: Removed 1 rows containing missing values (`geom_point()`).
## Removed 1 rows containing missing values (`geom_point()`).
```

White population and upward mobility



```
ggsave("currentwhite.png")
```

```
## Saving 6.5 x 4.5 in image
## `geom_smooth()` using formula = 'y ~ x'
## Warning: Removed 2 rows containing non-finite values (`stat_smooth()`).
## Warning: Removed 2 rows containing missing values (`geom_point()`).
## Warning: Removed 1 rows containing missing values (`geom_point()`).
## Removed 1 rows containing missing values (`geom_point()`).
#Black share of population
black <- wake_co |>
       ggplot(aes(x = share_black2010, y = kfr_pooled_pooled_p25)) +
           geom_point(aes(x = share_black2010, y = kfr_pooled_pooled_p25)) +
    geom_point(data = combined_data,
             aes(color = neighborhood)) +
          geom_point(data = fuquay, aes(x = share_black2010, y = kfr_pooled_pooled_p25),
                      color = "#A31F34", size = 2) +
           geom_point(data = cary, aes(x = share_black2010, y = kfr_pooled_pooled_p25),
                      color = "#21908CFF", size = 2) +
          scale_color_manual(name = "Neighborhood",
                     values = c("A" = "#A31F34", "B" = "#21908CFF"),
                     labels = c("Fuquay-Varina", "Cary")) +
           geom_smooth(method = "lm", se = F) +
           labs(x = "Black share of pop in 2010",
                y = "Absolute Mobility at the 25th percentile",
                title = "Black population and upward mobility") +
          theme_minimal() +
```

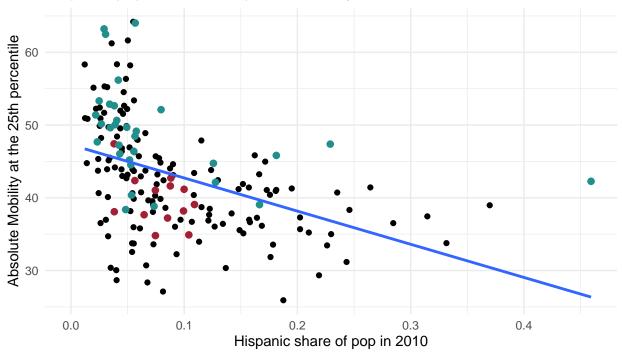
```
theme(legend.position = "bottom")
black
## `geom_smooth()` using formula = 'y ~ x'
## Warning: Removed 2 rows containing non-finite values (`stat_smooth()`).
## Warning: Removed 2 rows containing missing values (`geom_point()`).
## Warning: Removed 1 rows containing missing values (`geom_point()`).
## Removed 1 rows containing missing values (`geom_point()`).
      Black population and upward mobility
Absolute Mobility at the 25th percentile
  60
       0.00
                              0.25
                                                     0.50
                                                                            0.75
                                   Black share of pop in 2010
                            Neighborhood • Fuquay–Varina
ggsave("currentblack.png")
## Saving 6.5 x 4.5 in image
## `geom_smooth()` using formula = 'y ~ x'
## Warning: Removed 2 rows containing non-finite values (`stat_smooth()`).
## Warning: Removed 2 rows containing missing values (`geom_point()`).
## Warning: Removed 1 rows containing missing values (`geom point()`).
## Removed 1 rows containing missing values (`geom_point()`).
#Hispanic share of population
hisp <- wake_co |>
        ggplot(aes(x = share_hisp2010, y = kfr_pooled_pooled_p25)) +
           geom_point(aes(x = share_hisp2010, y = kfr_pooled_pooled_p25)) +
          geom_point(data = combined_data,
             aes(color = neighborhood)) +
          geom_point(data = fuquay, aes(x = share_hisp2010, y = kfr_pooled_pooled_p25),
```

color = "#A31F34", size = 2) +

```
## `geom_smooth()` using formula = 'y ~ x'
```

- ## Warning: Removed 2 rows containing non-finite values (`stat_smooth()`).
- ## Warning: Removed 2 rows containing missing values (`geom_point()`).
- ## Warning: Removed 1 rows containing missing values (`geom_point()`).
- ## Removed 1 rows containing missing values (`geom_point()`).

Hispanic population and upward mobility

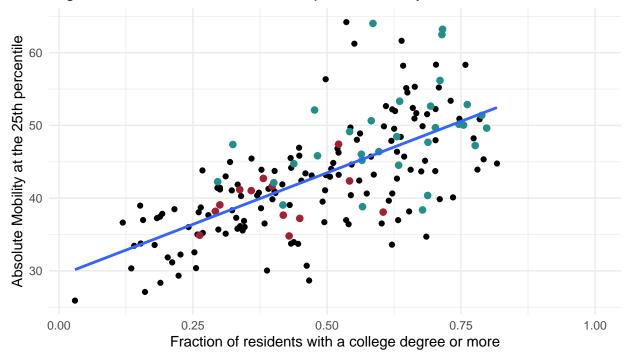


```
ggsave("currenthisp.png")
```

```
## Saving 6.5 x 4.5 in image
## `geom_smooth()` using formula = 'y ~ x'
## Warning: Removed 2 rows containing non-finite values (`stat_smooth()`).
## Warning: Removed 2 rows containing missing values (`geom_point()`).
```

```
## Warning: Removed 1 rows containing missing values (`geom_point()`).
## Removed 1 rows containing missing values (`geom_point()`).
#College attainment
college <- wake_co |>
        ggplot(aes(x = frac_coll_plus2010, y = kfr_pooled_pooled_p25)) +
           geom_point(aes(x = frac_coll_plus2010, y = kfr_pooled_pooled_p25)) +
   geom_point(data = combined_data,
            aes(color = neighborhood)) +
          geom_point(data = fuquay, aes(x = frac_coll_plus2010, y = kfr_pooled_pooled_p25),
                      color = "#A31F34", size = 2) +
           geom_point(data = cary, aes(x = frac_coll_plus2010, y = kfr_pooled_pooled_p25),
                      color = "#21908CFF", size = 2) +
          scale_color_manual(name = "Neighborhood",
                     values = c("A" = "#A31F34", "B" = "#21908CFF"),
                     labels = c("Fuquay-Varina", "Cary")) +
           geom_smooth(method = "lm", se = F) +
           labs(x = "Fraction of residents with a college degree or more",
                y = "Absolute Mobility at the 25th percentile",
                title = "Higher education attainment and upward mobility") +
          theme_minimal() +
          theme(legend.position = "bottom")
college
## `geom_smooth()` using formula = 'y ~ x'
## Warning: Removed 2 rows containing non-finite values (`stat_smooth()`).
## Warning: Removed 2 rows containing missing values (`geom_point()`).
## Warning: Removed 1 rows containing missing values (`geom_point()`).
## Removed 1 rows containing missing values (`geom_point()`).
```

Higher education attainment and upward mobility



```
ggsave("currentcol.png")
```

```
## Saving 6.5 x 4.5 in image
## `geom_smooth()` using formula = 'y ~ x'
## Warning: Removed 2 rows containing non-finite values (`stat_smooth()`).
## Warning: Removed 2 rows containing missing values (`geom_point()`).
## Warning: Removed 1 rows containing missing values (`geom_point()`).
## Removed 1 rows containing missing values (`geom_point()`).
#Median household income
medincome <- wake_co |>
        ggplot(aes(x = med_hhinc2016, y = kfr_pooled_pooled_p25)) +
           geom_point(aes(x = med_hhinc2016, y = kfr_pooled_pooled_p25)) +
           geom_point(data = combined_data,
             aes(color = neighborhood)) +
          geom_point(data = fuquay, aes(x = med_hhinc2016, y = kfr_pooled_pooled_p25),
                      color = "#A31F34", size = 2) +
           geom_point(data = cary, aes(x = med_hhinc2016, y = kfr_pooled_pooled_p25),
                      color = "#21908CFF", size = 2) +
          scale_color_manual(name = "Neighborhood",
                     values = c("A" = "#A31F34", "B" = "#21908CFF"),
                     labels = c("Fuquay-Varina", "Cary")) +
           geom_smooth(method = "lm", se = F) +
           labs(x = "Median household income in 2016",
                y = "Absolute Mobility at the 25th percentile",
                title = "Median household income and upward mobility") +
          scale_x_continuous(labels = scales::dollar_format()) +
```

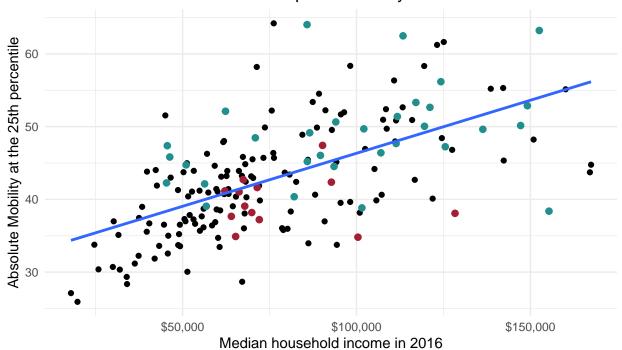
```
theme_minimal() +
    theme(legend.position = "bottom")
medincome

## `geom_smooth()` using formula = 'y ~ x'

## Warning: Removed 2 rows containing non-finite values (`stat_smooth()`).
```

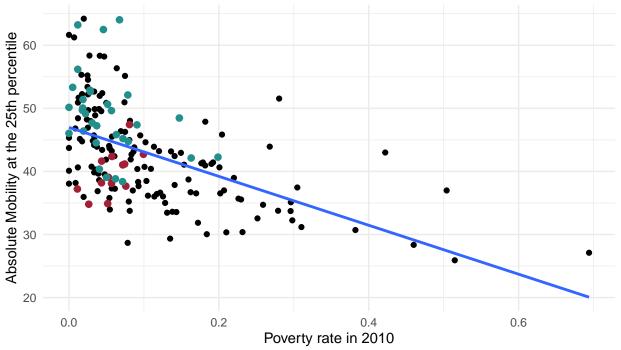
Removed 1 rows containing missing values (`geom_point()`). Median household income and upward mobility

Warning: Removed 2 rows containing missing values (`geom_point()`).
Warning: Removed 1 rows containing missing values (`geom_point()`).



```
ggsave("currentmedinc.png")
```

```
color = "#A31F34", size = 2) +
          geom_point(data = cary, aes(x = poor_share2010, y = kfr_pooled_pooled_p25),
                      color = "#21908CFF", size = 2) +
          scale_color_manual(name = "Neighborhood",
                     values = c("A" = "#A31F34", "B" = "#21908CFF"),
                     labels = c("Fuquay-Varina", "Cary")) +
          geom_smooth(method = "lm", se = F) +
          labs(x = "Poverty rate in 2010",
                y = "Absolute Mobility at the 25th percentile",
                title = "Poverty rate and upward mobility") +
          theme_minimal() +
          theme(legend.position = "bottom")
poverty
## `geom_smooth()` using formula = 'y ~ x'
## Warning: Removed 2 rows containing non-finite values (`stat_smooth()`).
## Warning: Removed 2 rows containing missing values (`geom_point()`).
## Warning: Removed 1 rows containing missing values (`geom_point()`).
## Removed 1 rows containing missing values (`geom_point()`).
     Poverty rate and upward mobility
```

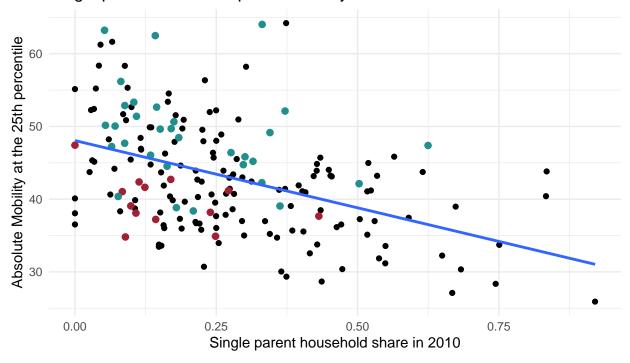


```
ggsave("currentpoverty.png")
```

```
## Saving 6.5 x 4.5 in image
## `geom_smooth()` using formula = 'y ~ x'
## Warning: Removed 2 rows containing non-finite values (`stat_smooth()`).
```

```
## Warning: Removed 2 rows containing missing values (`geom_point()`).
## Warning: Removed 1 rows containing missing values (`geom_point()`).
## Removed 1 rows containing missing values (`geom_point()`).
#Single parent share
singleparent <- wake_co |>
       ggplot(aes(x = singleparent_share2010, y = kfr_pooled_pooled_p25)) +
           geom_point(aes(x = singleparent_share2010, y = kfr_pooled_pooled_p25)) +
           geom point(data = combined data,
             aes(color = neighborhood)) +
          geom_point(data = fuquay, aes(x = singleparent_share2010, y = kfr_pooled_pooled_p25),
                      color = "#A31F34", size = 2) +
           geom_point(data = cary, aes(x = singleparent_share2010, y = kfr_pooled_pooled_p25),
                      color = "#21908CFF", size = 2) +
          scale_color_manual(name = "Neighborhood",
                     values = c("A" = "#A31F34", "B" = "#21908CFF"),
                     labels = c("Fuquay-Varina", "Cary")) +
           geom_smooth(method = "lm", se = F) +
           labs(x = "Single parent household share in 2010",
                y = "Absolute Mobility at the 25th percentile",
                title = "Single parenthood and upward mobility") +
          theme minimal() +
          theme(legend.position = "bottom")
singleparent
## `geom_smooth()` using formula = 'y ~ x'
## Warning: Removed 2 rows containing non-finite values (`stat_smooth()`).
## Warning: Removed 2 rows containing missing values (`geom_point()`).
## Warning: Removed 1 rows containing missing values (`geom_point()`).
## Removed 1 rows containing missing values (`geom_point()`).
```

Single parenthood and upward mobility



```
ggsave("currentsingle.png")
```

```
## Saving 6.5 x 4.5 in image
## `geom_smooth()` using formula = 'y ~ x'
## Warning: Removed 2 rows containing non-finite values (`stat_smooth()`).
## Warning: Removed 2 rows containing missing values (`geom_point()`).
## Warning: Removed 1 rows containing missing values (`geom_point()`).
## Removed 1 rows containing missing values (`geom_point()`).
#Incarceration Rate for low-income children
jailall <- wake_co |>
       ggplot(aes(x = jail_pooled_pooled_p25, y = kfr_pooled_pooled_p25)) +
           geom_point(aes(x = jail_pooled_pooled_p25, y = kfr_pooled_pooled_p25)) +
           geom_point(data = combined_data,
             aes(color = neighborhood)) +
          geom_point(data = fuquay, aes(x = jail_pooled_pooled_p25, y = kfr_pooled_pooled_p25),
                      color = "#A31F34", size = 2) +
           geom_point(data = cary, aes(x = jail_pooled_pooled_p25, y = kfr_pooled_pooled_p25),
                      color = "#21908CFF", size = 2) +
          scale_color_manual(name = "Neighborhood",
                     values = c("A" = "#A31F34", "B" = "#21908CFF"),
                     labels = c("Fuquay-Varina", "Cary")) +
           geom_smooth(method = "lm", se = F) +
           labs(x = "Share of low-income children incarcerated in 2010",
                y = "Absolute Mobility at the 25th percentile",
                title = "Incarceration rate and upward mobility") +
          theme_minimal() +
```

```
theme(legend.position = "bottom")
jailall
## `geom_smooth()` using formula = 'y ~ x'
## Warning: Removed 2 rows containing non-finite values (`stat_smooth()`).
## Warning: Removed 2 rows containing missing values (`geom_point()`).
## Warning: Removed 1 rows containing missing values (`geom point()`).
## Removed 1 rows containing missing values (`geom_point()`).
      Incarceration rate and upward mobility
Absolute Mobility at the 25th percentile
   60
   50
              0.0
                                       0.1
                                                                 0.2
                                                                                          0.3
                        Share of low-income children incarcerated in 2010
                            Neighborhood •
                                               Fuquay-Varina
                                                                 Cary
ggsave("currentjail.png")
## Saving 6.5 x 4.5 in image
## `geom_smooth()` using formula = 'y ~ x'
## Warning: Removed 2 rows containing non-finite values (`stat smooth()`).
## Warning: Removed 2 rows containing missing values (`geom_point()`).
## Warning: Removed 1 rows containing missing values (`geom_point()`).
## Removed 1 rows containing missing values (`geom_point()`).
#Correlation coefficient table between present-day statistics and upward mobility
#Derive correlation coefficients
white_wake <- cor(wake_co$kfr_pooled_pooled_p25, wake_co$share_white2010, use = "complete.obs")
white_fuquay <- cor(fuquay$kfr_pooled_pooled_p25, fuquay$share_white2010, use = "complete.obs")
white_cary <- cor(cary$kfr_pooled_pooled_p25, cary$share_white2010, use = "complete.obs")</pre>
```

```
black_wake <- cor(wake_co$kfr_pooled_pooled_p25, wake_co$share_black2010, use = "complete.obs")</pre>
black_fuquay <- cor(fuquay$kfr_pooled_pooled_p25, fuquay$share_black2010, use = "complete.obs")
black_cary <- cor(cary$kfr_pooled_pooled_p25, cary$share_black2010, use = "complete.obs")</pre>
hisp_wake <- cor(wake_co$kfr_pooled_pooled_p25, wake_co$share_hisp2010, use = "complete.obs")
hisp_fuquay <- cor(fuquay$kfr_pooled_pooled_p25, fuquay$share_hisp2010, use = "complete.obs")
hisp_cary <- cor(cary$kfr_pooled_pooled_p25, cary$share_hisp2010, use = "complete.obs")
col_wake <- cor(wake_co$kfr_pooled_pooled_p25, wake_co$frac_coll_plus2010, use = "complete.obs")</pre>
col_fuquay <- cor(fuquay$kfr_pooled_pooled_p25, fuquay$frac_coll_plus2010, use = "complete.obs")</pre>
col_cary <- cor(cary$kfr_pooled_pooled_p25, cary$frac_coll_plus2010, use = "complete.obs")</pre>
medinc_wake <- cor(wake_co$kfr_pooled_pooled_p25, wake_co$med_hhinc2016, use = "complete.obs")</pre>
medinc_fuquay <- cor(fuquay$kfr_pooled_pooled_p25, fuquay$med_hhinc2016, use = "complete.obs")</pre>
medinc_cary <- cor(cary$kfr_pooled_pooled_p25, cary$med_hhinc2016, use = "complete.obs")</pre>
poor_wake <- cor(wake_co$kfr_pooled_pooled_p25, wake_co$poor_share2010, use = "complete.obs")</pre>
poor_fuquay <- cor(fuquay$kfr_pooled_pooled_p25, fuquay$poor_share2010, use = "complete.obs")</pre>
poor_cary <- cor(cary$kfr_pooled_pooled_p25, cary$poor_share2010, use = "complete.obs")</pre>
single_wake <- cor(wake_co$kfr_pooled_pooled_p25, wake_co$singleparent_share2010, use = "complete.obs")
single_fuquay <- cor(fuquay$kfr_pooled_pooled_p25, fuquay$singleparent_share2010, use = "complete.obs")
single_cary <- cor(cary$kfr_pooled_pooled_p25, cary$singleparent_share2010, use = "complete.obs")</pre>
jail_wake <- cor(wake_co$kfr_pooled_pooled_p25, wake_co$jail_pooled_pooled_p25, use = "complete.obs")</pre>
jail_fuquay <- cor(fuquay$kfr_pooled_pooled_p25, fuquay$jail_pooled_pooled_p25, use = "complete.obs")</pre>
jail_cary <- cor(cary$kfr_pooled_pooled_p25, cary$jail_pooled_pooled_p25, use = "complete.obs")</pre>
#Create correlation coefficient dataframe
coefcomp <- data.frame(c("White Population Share", "White Population Share", "White Population Share",</pre>
                          "Black Population Share", "Black Population Share", "Black Population Share",
                          "Hispanic Population Share", "Hispanic Population Share", "Hispanic Population
                          "College Educated Population", "College Educated Population", "College Educate
                          "Median Household Income", "Median Household Income", "Median Household Income"
                          "Poverty Rate", "Poverty Rate", "Poverty Rate",
                          "Single Parent Share", "Single Parent Share", "Single Parent Share",
                          "Low-Income Child Incarceration Rate", "Low-Income Child Incarceration Rate",
                       c("Wake County", "Fuquay-Varina", "Cary",
                          "Wake County", "Fuguay-Varina", "Cary",
                          "Wake County", "Fuquay-Varina", "Cary",
                          "Wake County", "Fuquay-Varina", "Cary"),
                       c(white_wake , white_fuquay, white_cary,
                         black_wake, black_fuquay, black_cary,
                         hisp_wake, hisp_fuquay, hisp_cary,
                         col_wake, col_fuquay, col_cary,
                         medinc_wake, medinc_fuquay, medinc_cary,
                         poor_wake, poor_fuquay, poor_cary,
                         single_wake, single_fuquay, single_cary,
                          jail_wake, jail_fuquay, jail_cary))
```

```
#Name columns
names(coefcomp)[1] <- "Covariate"
names(coefcomp)[2] <- "Region"
names(coefcomp)[3] <- "Correlation Coefficient"

#check
coefcomp</pre>
```

Wake County

Wake County

Cary

Region Correlation Coefficient

0.57118658

0.08165056

0.28912931

-0.64482230

Covariate

White Population Share Fuquay-Varina

White Population Share

White Population Share

Black Population Share

```
## 5
                   Black Population Share Fuguay-Varina
                                                                      -0.07358894
## 6
                   Black Population Share
                                                     Cary
                                                                      -0.57115137
## 7
                Hispanic Population Share
                                             Wake County
                                                                      -0.43211550
## 8
                Hispanic Population Share Fuquay-Varina
                                                                      -0.38032489
## 9
                Hispanic Population Share
                                                                      -0.36720634
                                                     Cary
## 10
              College Educated Population
                                             Wake County
                                                                       0.66764405
## 11
              College Educated Population Fuquay-Varina
                                                                       0.31632545
              College Educated Population
## 12
                                                     Cary
                                                                       0.39585855
                  Median Household Income
## 13
                                             Wake County
                                                                       0.60792816
## 14
                  Median Household Income Fuguay-Varina
                                                                      -0.02183167
## 15
                  Median Household Income
                                                                       0.36477098
                                                     Cary
## 16
                              Poverty Rate
                                             Wake County
                                                                      -0.53150295
## 17
                             Poverty Rate Fuquay-Varina
                                                                       0.61358028
## 18
                             Poverty Rate
                                                     Cary
                                                                      -0.33944326
                                                                      -0.44495672
## 19
                      Single Parent Share
                                             Wake County
## 20
                      Single Parent Share Fuquay-Varina
                                                                      -0.41541650
## 21
                      Single Parent Share
                                                     Cary
                                                                      -0.27249873
## 22 Low-Income Child Incarceration Rate
                                             Wake County
                                                                      -0.22661839
## 23 Low-Income Child Incarceration Rate Fuquay-Varina
                                                                       0.01674997
## 24 Low-Income Child Incarceration Rate
                                                                       0.01304451
                                                     Cary
#create table
table presentday <- coefcomp |>
                    kable("html",
                           caption = "Correlations Between Present Day Demographic Variables and Upward
                           align = "lcr",
```

col.names = c("Covariate", "Region", "Correlation Coefficient")) |>
kable_styling("striped", # Table style: "striped", "bordered", "hover", "condensed")

Correlations Between Present Day Demographic Variables and Upward Mobility

full_width = FALSE)

Covariate

#check

Region

##

1

2

3

4

Correlation Coefficient

table_presentday

White Population Share

Wake County

0.5711866

White Population Share

Fuquay-Varina

0.0816506

White Population Share

Cary

0.2891293

Black Population Share

Wake County

-0.6448223

Black Population Share

Fuquay-Varina

-0.0735889

Black Population Share

Cary

-0.5711514

Hispanic Population Share

Wake County

-0.4321155

Hispanic Population Share

Fuquay-Varina

-0.3803249

Hispanic Population Share

Cary

-0.3672063

College Educated Population

Wake County

0.6676441

College Educated Population

Fuquay-Varina

0.3163254

College Educated Population

Cary

0.3958586

Median Household Income

Wake County 0.6079282Median Household Income Fuquay-Varina -0.0218317 Median Household Income Cary 0.3647710Poverty Rate Wake County -0.5315029Poverty Rate Fuquay-Varina 0.6135803Poverty Rate Cary -0.3394433 Single Parent Share Wake County -0.4449567 Single Parent Share Fuquay-Varina -0.4154165Single Parent Share Cary -0.2724987 Low-Income Child Incarceration Rate Wake County -0.2266184 Low-Income Child Incarceration Rate Fuquay-Varina 0.0167500Low-Income Child Incarceration Rate Cary 0.0130445

```
sink("table_presentday.html")
cat(table_presentday)
## <table class="table table-striped" style="width: auto !important; margin-left: auto; margin-right: a
## <caption>Correlations Between Present Day Demographic Variables and Upward Mobility</caption>
## <thead>
##
   Covariate 
##
##
   Region 
##
   Correlation Coefficient 
##
  ## </thead>
## 
##
  ##
   White Population Share 
##
   Wake County 
##
   0.5711866 
##
  ##
  ##
   White Population Share 
##
   Fuquay-Varina 
##
   0.0816506 
##
  ##
  ##
   White Population Share 
##
   Cary 
##
   0.2891293 
##
  ##
  ##
   Black Population Share 
##
   Wake County 
   -0.6448223 
##
##
  ##
   Black Population Share 
##
   Fuquay-Varina 
##
   -0.0735889 
##
##
  ##
##
   Black Population Share 
   Cary 
##
##
   -0.5711514 
##
  ##
  ##
   Hispanic Population Share 
##
   Wake County 
##
   -0.4321155 
##
  ##
  ##
   Hispanic Population Share 
##
   Fuquay-Varina 
   -0.3803249 
##
##
```

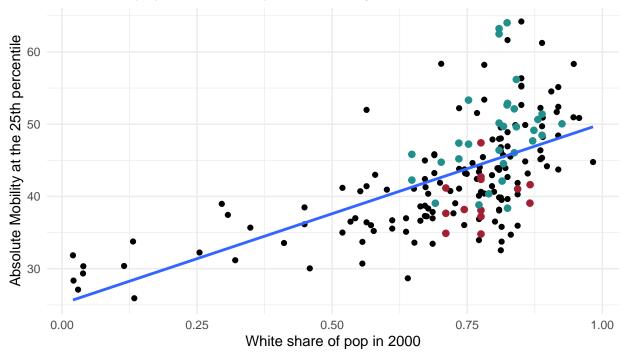
##

```
##
   Hispanic Population Share 
##
   Cary 
   -0.3672063 
##
##
 ##
##
   College Educated Population 
##
   Wake County 
##
   0.6676441 
##
 ##
 ##
   College Educated Population 
##
   Fuquay-Varina 
   0.3163254 
##
##
 ##
 ##
   College Educated Population 
##
   Cary 
##
   0.3958586 
##
 ##
 ##
   Median Household Income 
##
   Wake County 
##
   0.6079282 
##
 ##
 ##
   Median Household Income 
##
   Fuquay-Varina 
   -0.0218317 
##
##
 ##
 ##
   Median Household Income 
##
   Cary 
   0.3647710 
##
##
 ##
 ##
   Poverty Rate 
##
   Wake County 
##
   -0.5315029 
##
 ##
 ##
   Poverty Rate 
##
   Fuquay-Varina 
   0.6135803 
##
##
 ##
 ##
   Poverty Rate 
   Cary 
##
##
   -0.3394433 
##
 ##
 ##
   Single Parent Share 
   Wake County 
##
##
   -0.4449567 
##
```

```
##
   ##
     Single Parent Share 
     Fuguay-Varina 
##
     -0.4154165 
##
##
   ##
    Single Parent Share 
##
     Cary 
##
##
     -0.2724987 
##
   ##
   ##
     Low-Income Child Incarceration Rate 
##
     Wake County 
##
     -0.2266184 
##
   ##
   ##
     Low-Income Child Incarceration Rate 
##
     Fuquay-Varina 
##
     0.0167500 
##
   ##
   ##
     Low-Income Child Incarceration Rate 
##
     Cary 
     0.0130445 
##
##
   ## 
## 
sink()
#Historical covariates and their causal relationship to upward mobility
#White share of population
white2000 <- wake_co |>
     ggplot(aes(x = share_white2000, y = kfr_pooled_pooled_p25)) +
       geom_point(aes(x = share_white2000, y = kfr_pooled_pooled_p25)) +
       geom_point(data = combined_data,
         aes(color = neighborhood)) +
       geom_point(data = fuquay, aes(x = share_white2000, y = kfr_pooled_pooled_p25),
               color = "#A31F34", size = 2) +
       geom_point(data = cary, aes(x = share_white2000, y = kfr_pooled_pooled_p25),
               color = "#21908CFF", size = 2) +
       scale color manual(name = "Neighborhood",
              values = c("A" = "#A31F34", "B" = "#21908CFF"),
              labels = c("Fuquay-Varina", "Cary")) +
       geom_smooth(method = "lm", se = F) +
       labs(x = "White share of pop in 2000",
           y = "Absolute Mobility at the 25th percentile",
           title = "Past White population and upward mobility") +
       theme minimal() +
       theme(legend.position = "bottom")
white2000
## `geom_smooth()` using formula = 'y ~ x'
## Warning: Removed 2 rows containing non-finite values (`stat_smooth()`).
```

```
## Warning: Removed 2 rows containing missing values (`geom_point()`).
## Warning: Removed 1 rows containing missing values (`geom_point()`).
## Removed 1 rows containing missing values (`geom_point()`).
```

Past White population and upward mobility



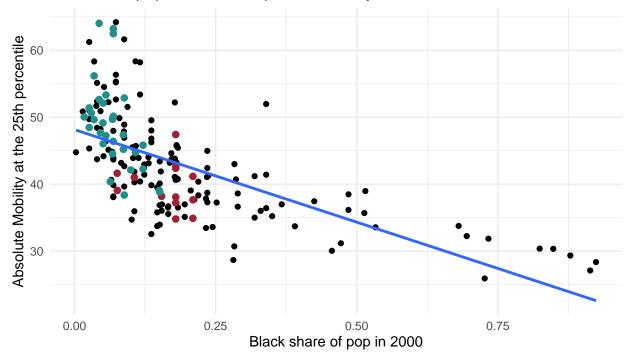
Neighborhood • Fuquay-Varina • Cary

ggsave("2000white.png")

Saving 6.5 x 4.5 in image

```
## `geom_smooth()` using formula = 'y ~ x'
## Warning: Removed 2 rows containing non-finite values (`stat_smooth()`).
## Warning: Removed 2 rows containing missing values (`geom_point()`).
## Warning: Removed 1 rows containing missing values (`geom_point()`).
## Removed 1 rows containing missing values (`geom point()`).
#Black share of population
black2000 <- wake co |>
        ggplot(aes(x = share_black2000, y = kfr_pooled_pooled_p25)) +
           geom_point(aes(x = share_black2000, y = kfr_pooled_pooled_p25)) +
    geom_point(data = combined_data,
             aes(color = neighborhood)) +
          geom_point(data = fuquay, aes(x = share_black2000, y = kfr_pooled_pooled_p25),
                      color = "#A31F34", size = 2) +
           geom_point(data = cary, aes(x = share_black2000, y = kfr_pooled_pooled_p25),
                      color = "#21908CFF", size = 2) +
          scale_color_manual(name = "Neighborhood",
                     values = c("A" = "#A31F34", "B" = "#21908CFF"),
                     labels = c("Fuquay-Varina", "Cary")) +
           geom_smooth(method = "lm", se = F) +
```

Past Black population and upward mobility

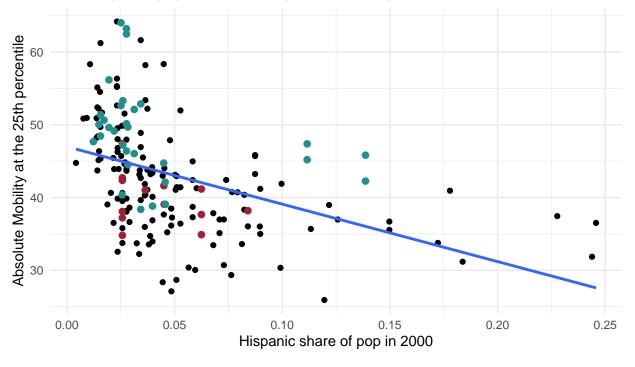


```
ggsave("2000black.png")
```

```
geom_point(data = combined_data,
             aes(color = neighborhood)) +
          geom_point(data = fuquay, aes(x = share_hisp2000, y = kfr_pooled_pooled_p25),
                      color = "#A31F34", size = 2) +
           geom_point(data = cary, aes(x = share_hisp2000, y = kfr_pooled_pooled_p25),
                      color = "#21908CFF", size = 2) +
          scale_color_manual(name = "Neighborhood",
                     values = c("A" = "#A31F34", "B" = "#21908CFF"),
                     labels = c("Fuquay-Varina", "Cary")) +
           geom_smooth(method = "lm", se = F) +
           labs(x = "Hispanic share of pop in 2000",
                y = "Absolute Mobility at the 25th percentile",
                title = "Past hispanic population and upward mobility") +
          theme_minimal() +
          theme(legend.position = "bottom")
hisp2000
```

```
## `geom_smooth()` using formula = 'y ~ x'
## Warning: Removed 2 rows containing non-finite values (`stat_smooth()`).
## Warning: Removed 2 rows containing missing values (`geom_point()`).
## Warning: Removed 1 rows containing missing values (`geom_point()`).
## Removed 1 rows containing missing values (`geom_point()`).
```

Past hispanic population and upward mobility



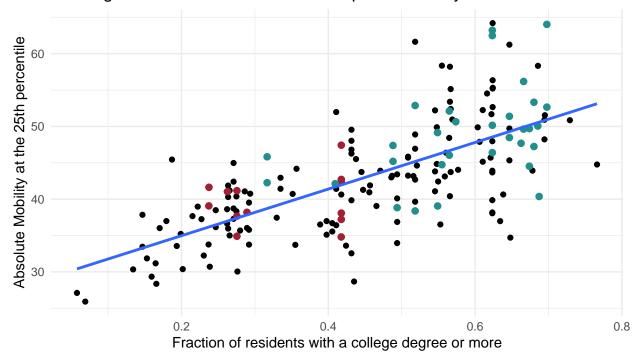
Neighborhood • Fuquay-Varina • Cary

ggsave("2000hisp.png")

Saving 6.5×4.5 in image

```
## `geom_smooth()` using formula = 'y ~ x'
## Warning: Removed 2 rows containing non-finite values (`stat_smooth()`).
## Warning: Removed 2 rows containing missing values (`geom_point()`).
## Warning: Removed 1 rows containing missing values (`geom_point()`).
## Removed 1 rows containing missing values (`geom point()`).
#College attainment
college2000 <- wake co |>
        ggplot(aes(x = frac_coll_plus2000, y = kfr_pooled_pooled_p25)) +
           geom_point(aes(x = frac_coll_plus2000, y = kfr_pooled_pooled_p25)) +
    geom_point(data = combined_data,
            aes(color = neighborhood)) +
          geom_point(data = fuquay, aes(x = frac_coll_plus2000, y = kfr_pooled_pooled_p25),
                      color = "#A31F34", size = 2) +
           geom_point(data = cary, aes(x = frac_coll_plus2000, y = kfr_pooled_pooled_p25),
                      color = "#21908CFF", size = 2) +
          scale_color_manual(name = "Neighborhood",
                     values = c("A" = "#A31F34", "B" = "#21908CFF"),
                     labels = c("Fuquay-Varina", "Cary")) +
           geom_smooth(method = "lm", se = F) +
           labs(x = "Fraction of residents with a college degree or more",
                y = "Absolute Mobility at the 25th percentile",
                title = "Past higher education attainment and upward mobility") +
          theme_minimal() +
          theme(legend.position = "bottom")
college2000
## `geom_smooth()` using formula = 'y ~ x'
## Warning: Removed 2 rows containing non-finite values (`stat_smooth()`).
## Warning: Removed 2 rows containing missing values (`geom_point()`).
## Warning: Removed 1 rows containing missing values (`geom_point()`).
## Removed 1 rows containing missing values (`geom_point()`).
```

Past higher education attainment and upward mobility



Neighborhood • Fuquay-Varina • Cary

ggsave("2000col.png")

```
## Saving 6.5 x 4.5 in image
## `geom_smooth()` using formula = 'y ~ x'
## Warning: Removed 2 rows containing non-finite values (`stat_smooth()`).
## Warning: Removed 2 rows containing missing values (`geom_point()`).
## Warning: Removed 1 rows containing missing values (`geom_point()`).
## Removed 1 rows containing missing values (`geom_point()`).
#Median household income
med1990 <- wake_co |>
        ggplot(aes(x = med_hhinc1990, y = kfr_pooled_pooled_p25)) +
           geom_point(aes(x = med_hhinc1990, y = kfr_pooled_pooled_p25)) +
           geom_point(data = combined_data,
             aes(color = neighborhood)) +
          geom_point(data = fuquay, aes(x = med_hhinc1990, y = kfr_pooled_pooled_p25),
                      color = "#A31F34", size = 2) +
           geom_point(data = cary, aes(x = med_hhinc1990, y = kfr_pooled_pooled_p25),
                      color = "#21908CFF", size = 2) +
          scale_color_manual(name = "Neighborhood",
                     values = c("A" = "#A31F34", "B" = "#21908CFF"),
                     labels = c("Fuquay-Varina", "Cary")) +
           geom_smooth(method = "lm", se = F) +
           labs(x = "Median household income in 1990",
                y = "Absolute Mobility at the 25th percentile",
```

scale_x_continuous(labels = scales::dollar_format()) +

title = "Past median household income and upward mobility") +

```
theme_minimal() +
    theme(legend.position = "bottom")
med1990

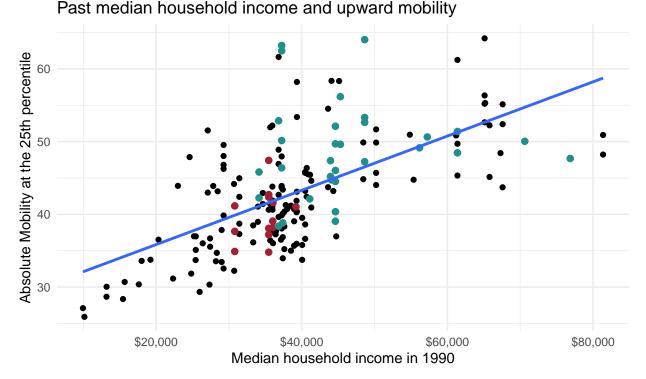
## `geom_smooth()` using formula = 'y ~ x'

## Warning: Removed 2 rows containing non-finite values (`stat_smooth()`).

## Warning: Removed 2 rows containing missing values (`geom_point()`).
```

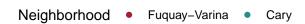
Removed 1 rows containing missing values (`geom_point()`).

Warning: Removed 1 rows containing missing values (`geom_point()`).



```
ggsave("1990medinc.png")
```

```
color = "#A31F34", size = 2) +
           geom_point(data = cary, aes(x = poor_share1990, y = kfr_pooled_pooled_p25),
                       color = "#21908CFF", size = 2) +
           scale_color_manual(name = "Neighborhood",
                      values = c("A" = "#A31F34", "B" = "#21908CFF"),
                      labels = c("Fuquay-Varina", "Cary")) +
           geom_smooth(method = "lm", se = F) +
           labs(x = "Poverty rate in 1990",
                 y = "Absolute Mobility at the 25th percentile",
                 title = "Past poverty rate and upward mobility") +
           theme_minimal() +
          theme(legend.position = "bottom")
poverty1990
## `geom_smooth()` using formula = 'y ~ x'
## Warning: Removed 2 rows containing non-finite values (`stat_smooth()`).
## Warning: Removed 2 rows containing missing values (`geom_point()`).
## Warning: Removed 1 rows containing missing values (`geom_point()`).
## Removed 1 rows containing missing values (`geom_point()`).
      Past poverty rate and upward mobility
Absolute Mobility at the 25th percentile
```



Poverty rate in 1990

0.4

```
ggsave("1990poverty.png")
```

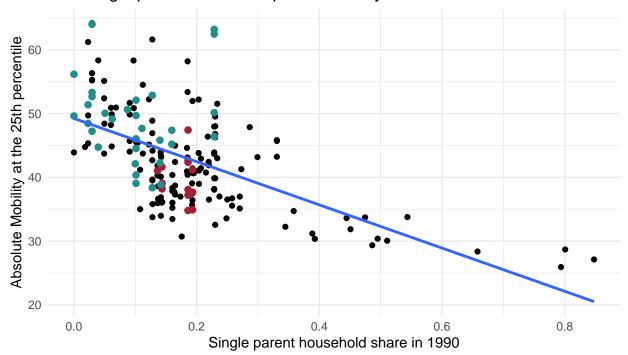
20

0.0

```
## Saving 6.5 x 4.5 in image
## `geom_smooth()` using formula = 'y ~ x'
## Warning: Removed 2 rows containing non-finite values (`stat_smooth()`).
```

```
## Warning: Removed 2 rows containing missing values (`geom_point()`).
## Warning: Removed 1 rows containing missing values (`geom_point()`).
## Removed 1 rows containing missing values (`geom_point()`).
#Single parent share
singleparent1990 <- wake_co |>
       ggplot(aes(x = singleparent_share1990, y = kfr_pooled_pooled_p25)) +
           geom_point(aes(x = singleparent_share1990, y = kfr_pooled_pooled_p25)) +
           geom point(data = combined data,
             aes(color = neighborhood)) +
          geom_point(data = fuquay, aes(x = singleparent_share1990, y = kfr_pooled_pooled_p25),
                      color = "#A31F34", size = 2) +
           geom_point(data = cary, aes(x = singleparent_share1990, y = kfr_pooled_pooled_p25),
                      color = "#21908CFF", size = 2) +
          scale_color_manual(name = "Neighborhood",
                     values = c("A" = "#A31F34", "B" = "#21908CFF"),
                     labels = c("Fuquay-Varina", "Cary")) +
           geom_smooth(method = "lm", se = F) +
           labs(x = "Single parent household share in 1990",
                y = "Absolute Mobility at the 25th percentile",
                title = "Past single parenthood and upward mobility") +
          theme minimal() +
          theme(legend.position = "bottom")
singleparent1990
## `geom_smooth()` using formula = 'y ~ x'
## Warning: Removed 2 rows containing non-finite values (`stat_smooth()`).
## Warning: Removed 2 rows containing missing values (`geom_point()`).
## Warning: Removed 1 rows containing missing values (`geom_point()`).
## Removed 1 rows containing missing values (`geom_point()`).
```

Past single parenthood and upward mobility



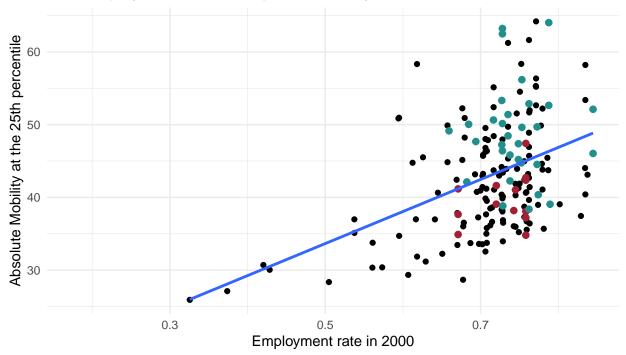
```
ggsave("1990single.png")
```

```
## Saving 6.5 x 4.5 in image
## `geom_smooth()` using formula = 'y ~ x'
## Warning: Removed 2 rows containing non-finite values (`stat_smooth()`).
## Warning: Removed 2 rows containing missing values (`geom_point()`).
## Warning: Removed 1 rows containing missing values (`geom_point()`).
## Removed 1 rows containing missing values (`geom_point()`).
#Employment rate
employ2000 <- wake_co |>
        ggplot(aes(x = emp2000, y = kfr_pooled_pooled_p25)) +
           geom_point(aes(x = emp2000, y = kfr_pooled_pooled_p25)) +
           geom_point(data = combined_data,
             aes(color = neighborhood)) +
          geom_point(data = fuquay, aes(x = emp2000, y = kfr_pooled_pooled_p25),
                      color = "#A31F34", size = 2) +
           geom_point(data = cary, aes(x = emp2000, y = kfr_pooled_pooled_p25),
                      color = "#21908CFF", size = 2) +
          scale_color_manual(name = "Neighborhood",
                     values = c("A" = "#A31F34", "B" = "#21908CFF"),
                     labels = c("Fuquay-Varina", "Cary")) +
           geom_smooth(method = "lm", se = F) +
           labs(x = "Employment rate in 2000",
                y = "Absolute Mobility at the 25th percentile",
                title = "Past employment rate and upward mobility") +
          theme_minimal() +
```

```
theme(legend.position = "bottom")
employ2000
```

```
## `geom_smooth()` using formula = 'y ~ x'
## Warning: Removed 2 rows containing non-finite values (`stat_smooth()`).
## Warning: Removed 2 rows containing missing values (`geom_point()`).
## Warning: Removed 1 rows containing missing values (`geom_point()`).
## Removed 1 rows containing missing values (`geom_point()`).
```

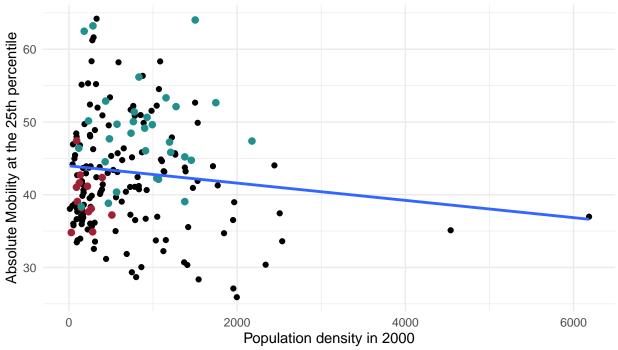
Past employment rate and upward mobility



Neighborhood • Fuquay-Varina • Cary

ggsave("employ2000.png")

```
color = "#A31F34", size = 2) +
          geom_point(data = cary, aes(x = popdensity2000, y = kfr_pooled_pooled_p25),
                      color = "#21908CFF", size = 2) +
          scale_color_manual(name = "Neighborhood",
                     values = c("A" = "#A31F34", "B" = "#21908CFF"),
                     labels = c("Fuquay-Varina", "Cary")) +
          geom_smooth(method = "lm", se = F) +
          labs(x = "Population density in 2000",
                y = "Absolute Mobility at the 25th percentile",
                title = "Past population density and upward mobility") +
          theme_minimal() +
          theme(legend.position = "bottom")
popden2000
## `geom_smooth()` using formula = 'y ~ x'
## Warning: Removed 2 rows containing non-finite values (`stat_smooth()`).
## Warning: Removed 2 rows containing missing values (`geom_point()`).
## Warning: Removed 1 rows containing missing values (`geom_point()`).
## Removed 1 rows containing missing values (`geom_point()`).
     Past population density and upward mobility
```



```
ggsave("popden2000.png")
```

```
## Saving 6.5 x 4.5 in image
## `geom_smooth()` using formula = 'y ~ x'
## Warning: Removed 2 rows containing non-finite values (`stat_smooth()`).
```

```
## Warning: Removed 2 rows containing missing values (`geom_point()`).
## Warning: Removed 1 rows containing missing values (`geom_point()`).
## Removed 1 rows containing missing values (`geom_point()`).
#Correlation coefficient table between historical covariates and upward mobility
#Derive correlation coefficients
white_wake2000 <- cor(wake_co$kfr_pooled_pooled_p25, wake_co$share_white2000, use = "complete.obs")</pre>
white_fuquay2000 <- cor(fuquay$kfr_pooled_pooled_p25, fuquay$share_white2000, use = "complete.obs")</pre>
white_cary2000 <- cor(cary$kfr_pooled_pooled_p25, cary$share_white2000, use = "complete.obs")
black_wake2000 <- cor(wake_co$kfr_pooled_pooled_p25, wake_co$share_black2000, use = "complete.obs")
black_fuquay2000 <- cor(fuquay$kfr_pooled_pooled_p25, fuquay$share_black2000, use = "complete.obs")
black_cary2000 <- cor(cary$kfr_pooled_pooled_p25, cary$share_black2000, use = "complete.obs")</pre>
hisp_wake2000 <- cor(wake_co$kfr_pooled_pooled_p25, wake_co$share_hisp2000, use = "complete.obs")
hisp_fuquay2000 <- cor(fuquay$kfr_pooled_pooled_p25, fuquay$share_hisp2000, use = "complete.obs")</pre>
hisp_cary2000 <- cor(cary$kfr_pooled_pooled_p25, cary$share_hisp2000, use = "complete.obs")
col_wake2000 <- cor(wake_co$kfr_pooled_pooled_p25, wake_co$frac_coll_plus2000, use = "complete.obs")</pre>
col_fuquay2000 <- cor(fuquay$kfr_pooled_pooled_p25, fuquay$frac_coll_plus2000, use = "complete.obs")</pre>
col_cary2000 <- cor(cary$kfr_pooled_pooled_p25, cary$frac_coll_plus2000, use = "complete.obs")</pre>
medinc_wake1990 <- cor(wake_co$kfr_pooled_pooled_p25, wake_co$med_hhinc1990, use = "complete.obs")</pre>
medinc_fuquay1990 <- cor(fuquay$kfr_pooled_pooled_p25, fuquay$med_hhinc1990, use = "complete.obs")</pre>
medinc_cary1990 <- cor(cary$kfr_pooled_pooled_p25, cary$med_hhinc1990, use = "complete.obs")</pre>
poor_wake1990 <- cor(wake_co$kfr_pooled_pooled_p25, wake_co$poor_share1990, use = "complete.obs")
poor_fuquay1990 <- cor(fuquay$kfr_pooled_pooled_p25, fuquay$poor_share1990, use = "complete.obs")
poor_cary1990 <- cor(cary$kfr_pooled_pooled_p25, cary$poor_share1990, use = "complete.obs")
single_wake1990 <- cor(wake_co$kfr_pooled_pooled_p25, wake_co$singleparent_share1990, use = "complete.o"
single_fuquay1990 <- cor(fuquay$kfr_pooled_pooled_p25, fuquay$singleparent_share1990, use = "complete.o"
single_cary1990 <- cor(cary$kfr_pooled_pooled_p25, cary$singleparent_share1990, use = "complete.obs")</pre>
emp_wake <- cor(wake_co$kfr_pooled_pooled_p25, wake_co$emp2000, use = "complete.obs")</pre>
emp_fuquay <- cor(fuquay$kfr_pooled_pooled_p25, fuquay$emp2000, use = "complete.obs")</pre>
emp cary <- cor(cary$kfr pooled pooled p25, cary$emp2000, use = "complete.obs")</pre>
popden_wake <- cor(wake_co$kfr_pooled_pooled_p25, wake_co$popdensity2000, use = "complete.obs")</pre>
popden_fuquay <- cor(fuquay$kfr_pooled_pooled_p25, fuquay$popdensity2000, use = "complete.obs")</pre>
popden_cary <- cor(cary$kfr_pooled_pooled_p25, cary$popdensity2000, use = "complete.obs")</pre>
#Create correlation coefficient dataframe
coefcomp_historic <- data.frame(c("2000 White Population Share", "2000 White Population Share", "2000 W
                         "2000 Black Population Share", "2000 Black Population Share", "2000 Black Popu
                         "2000 Hispanic Population Share", "2000 Hispanic Population Share", "2000 Hisp
                         "2000 College Educated Population", "2000 College Educated Population", "2000
                         "1990 Median Household Income", "1990 Median Household Income", "1990 Median H
                         "1990 Poverty Rate", "1990 Poverty Rate", "1990 Poverty Rate",
                         "1990 Single Parent Share", "1990 Single Parent Share", "1990 Single Parent Sh
                         "2000 Employment Rate", "2000 Employment Rate", "2000 Employment Rate",
                         "2000 Pop. Density", "2000 Pop. Density", "2000 Pop. Density"),
```

c("Wake County", "Fuquay-Varina", "Cary",

```
"Wake County", "Fuquay-Varina", "Cary",
                          "Wake County", "Fuquay-Varina", "Cary"),
                        c(white wake2000, white fuguay2000, white cary2000,
                          black_wake2000, black_fuquay2000, black_cary2000,
                          hisp_wake2000, hisp_fuquay2000, hisp_cary2000,
                          col_wake2000, col_fuquay2000, col_cary2000,
                          medinc_wake1990, medinc_fuquay1990, medinc_cary1990,
                          poor_wake1990, poor_fuquay1990, poor_cary1990,
                          single_wake1990, single_fuquay1990, single_cary1990,
                          emp_wake, emp_fuquay, emp_cary,
                          popden_wake, popden_fuquay, popden_cary))
#Name columns
names(coefcomp_historic)[1] <- "Covariate"</pre>
names(coefcomp historic)[2] <- "Region"</pre>
names(coefcomp_historic)[3] <- "Correlation Coefficient"</pre>
#check
coefcomp_historic
```

```
##
                              Covariate
                                                Region Correlation Coefficient
## 1
           2000 White Population Share
                                          Wake County
                                                                   0.620324316
## 2
           2000 White Population Share Fuquay-Varina
                                                                   0.268415468
## 3
           2000 White Population Share
                                                  Cary
                                                                   0.346345912
## 4
           2000 Black Population Share
                                          Wake County
                                                                  -0.642523474
## 5
           2000 Black Population Share Fuquay-Varina
                                                                  -0.179968811
## 6
           2000 Black Population Share
                                                  Carv
                                                                  -0.535303036
## 7
        2000 Hispanic Population Share
                                          Wake County
                                                                  -0.427331697
## 8
        2000 Hispanic Population Share Fuquay-Varina
                                                                  -0.301371936
        2000 Hispanic Population Share
                                                                  -0.313481381
                                                  Cary
## 10 2000 College Educated Population
                                          Wake County
                                                                   0.693882710
## 11 2000 College Educated Population Fuquay-Varina
                                                                   0.156721242
## 12 2000 College Educated Population
                                                                   0.442685547
## 13
          1990 Median Household Income
                                                                   0.626811630
                                          Wake County
## 14
          1990 Median Household Income Fuguay-Varina
                                                                   0.287674950
## 15
          1990 Median Household Income
                                                                   0.102431202
                                                  Cary
## 16
                     1990 Poverty Rate
                                          Wake County
                                                                  -0.508409431
## 17
                     1990 Poverty Rate Fuquay-Varina
                                                                  -0.071432044
## 18
                     1990 Poverty Rate
                                                                   0.067460892
                                                  Carv
## 19
              1990 Single Parent Share
                                          Wake County
                                                                  -0.593419864
## 20
              1990 Single Parent Share Fuquay-Varina
                                                                  -0.100160966
## 21
              1990 Single Parent Share
                                                                  -0.017097962
                                                  Cary
## 22
                  2000 Employment Rate
                                          Wake County
                                                                   0.436586051
## 23
                  2000 Employment Rate Fuquay-Varina
                                                                   0.282339723
## 24
                  2000 Employment Rate
                                                  Cary
                                                                   0.003285609
## 25
                     2000 Pop. Density
                                          Wake County
                                                                  -0.116940431
## 26
                     2000 Pop. Density Fuquay-Varina
                                                                  -0.197430259
## 27
                     2000 Pop. Density
                                                 Cary
                                                                  -0.023841395
```

Correlations Between Historical Covariates and Upward Mobility

Covariate

Region

Correlation Coefficient

2000 White Population Share

Wake County

0.6203243

2000 White Population Share

Fuquay-Varina

0.2684155

2000 White Population Share

Cary

0.3463459

2000 Black Population Share

Wake County

-0.6425235

2000 Black Population Share

Fuquay-Varina

-0.1799688

2000 Black Population Share

Cary

-0.5353030

2000 Hispanic Population Share

Wake County

-0.4273317

2000 Hispanic Population Share

Fuquay-Varina

-0.3013719

2000 Hispanic Population Share

Cary

-0.3134814

2000 College Educated Population

Wake County

0.6938827

2000 College Educated Population

Fuquay-Varina

0.1567212

2000 College Educated Population

Cary

0.4426855

1990 Median Household Income

Wake County

0.6268116

1990 Median Household Income

Fuquay-Varina

0.2876749

1990 Median Household Income

Cary

0.1024312

1990 Poverty Rate

Wake County

-0.5084094

1990 Poverty Rate

Fuquay-Varina

-0.0714320

1990 Poverty Rate

Cary

0.0674609

1990 Single Parent Share

Wake County

-0.5934199

1990 Single Parent Share

Fuquay-Varina

-0.1001610

1990 Single Parent Share

```
Cary
-0.0170980
2000 Employment Rate
Wake County
0.4365861
2000 Employment Rate
Fuquay-Varina
0.2823397
2000 Employment Rate
Cary
0.0032856
2000 Pop. Density
Wake County
-0.1169404
2000 Pop. Density
Fuguay-Varina
-0.1974303
2000 Pop. Density
Cary
-0.0238414
sink("table historic.html")
cat(table_historic)
## <table class="table table-striped" style="width: auto !important; margin-left: auto; margin-right: a
## <caption>Correlations Between Historical Covariates and Upward Mobility</caption>
## <thead>
##
    Covariate 
##
     Region 
##
     Correlation Coefficient 
##
   ##
## </thead>
## 
##
    2000 White Population Share 
##
##
     Wake County 
##
     0.6203243 
##
   ##
##
     2000 White Population Share 
     Fuquay-Varina 
     0.2684155 
##
##
   ##
```

```
##
   2000 White Population Share 
##
   Cary 
   0.3463459 
##
##
 ##
##
   2000 Black Population Share 
##
   Wake County 
##
   -0.6425235 
##
 ##
 ##
   2000 Black Population Share 
##
   Fuquay-Varina 
   -0.1799688 
##
##
 ##
 ##
   2000 Black Population Share 
##
   Cary 
##
   -0.5353030 
##
 ##
 ##
   2000 Hispanic Population Share 
##
   Wake County 
##
   -0.4273317 
##
 ##
 ##
   2000 Hispanic Population Share 
##
   Fuquay-Varina 
   -0.3013719 
##
##
 ##
 ##
   2000 Hispanic Population Share 
##
   Cary 
   -0.3134814 
##
##
 ##
 ##
   2000 College Educated Population 
##
   Wake County 
##
   0.6938827 
 ##
##
 ##
   2000 College Educated Population 
##
   Fuquay-Varina 
   0.1567212 
##
##
 ##
  2000 College Educated Population 
##
   Cary 
##
##
   0.4426855 
##
 ##
 ##
   1990 Median Household Income 
   Wake County 
##
##
   0.6268116 
##
```

```
##
 ##
   1990 Median Household Income 
##
   Fuguay-Varina 
   0.2876749 
##
##
##
 ##
   1990 Median Household Income 
   Cary 
##
##
   0.1024312 
##
 ##
 ##
   1990 Poverty Rate 
   Wake County 
##
##
   -0.5084094 
##
 ##
 ##
   1990 Poverty Rate 
##
   Fuguay-Varina 
##
   -0.0714320 
##
 ##
 ##
   1990 Poverty Rate 
##
   Cary 
   0.0674609 
##
##
 ##
 ##
   1990 Single Parent Share 
   Wake County 
##
   -0.5934199 
##
 ##
##
 ##
   1990 Single Parent Share 
##
   Fuquay-Varina 
##
   -0.1001610 
##
 ##
 ##
   1990 Single Parent Share 
##
   Cary 
##
   -0.0170980 
##
 ##
 ##
   2000 Employment Rate 
   Wake County 
##
##
   0.4365861 
##
 ##
  2000 Employment Rate 
##
##
   Fuquay-Varina 
##
   0.2823397 
##
 ##
  2000 Employment Rate 
##
##
   Cary 
##
   0.0032856
```

```
##
    ##
    <t.r>
     2000 Pop. Density 
##
     Wake County 
##
##
     -0.1169404 
##
    ##
    <t.r>
##
      2000 Pop. Density 
##
      Fuquay-Varina 
     -0.1974303 
##
##
    ##
     2000 Pop. Density 
##
     Cary 
##
##
     -0.0238414 
##
    ## 
## 
sink()
#Multivariate regression of historical covariates and upward mobility
#Wake County model 1 w race
wakereg1 <- lm(kfr_pooled_pooled_p25 ~ share_white2000 + share_black2000 + share_hisp2000 +</pre>
                                    frac coll plus2000 + med hhinc1990 + poor share1990 +
                                    singleparent_share1990 + emp2000 + popdensity2000,
                                   data = wake_co, na.action = na.omit)
summary(wakereg1)
##
## Call:
## lm(formula = kfr_pooled_pooled_p25 ~ share_white2000 + share_black2000 +
     share_hisp2000 + frac_coll_plus2000 + med_hhinc1990 + poor_share1990 +
##
     singleparent_share1990 + emp2000 + popdensity2000, data = wake_co,
##
     na.action = na.omit)
##
## Residuals:
      Min
              1Q
                 Median
                             3Q
                                   Max
## -10.3641 -3.1826 -0.3067
                          2.9183 16.3136
##
## Coefficients:
##
                      Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                     4.438e+01 1.680e+01 2.642 0.00899 **
                     -2.087e+01 1.513e+01 -1.380 0.16948
## share white2000
## share_black2000
                     -2.372e+01 1.609e+01 -1.474 0.14227
## share hisp2000
                     -3.398e+01 2.029e+01 -1.675 0.09579 .
                     1.565e+01 4.596e+00 3.405 0.00082 ***
## frac_coll_plus2000
                     1.367e-04 5.184e-05
## med hhinc1990
                                       2.637 0.00913 **
## poor_share1990
                     6.069e+00 9.767e+00
                                       0.621 0.53514
## singleparent_share1990 -8.217e+00 6.370e+00 -1.290 0.19883
## emp2000
                     1.193e+01 7.301e+00
                                        1.635 0.10394
                     -3.452e-04 5.868e-04 -0.588 0.55709
## popdensity2000
##
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

```
##
## Residual standard error: 5.004 on 174 degrees of freedom
     (2 observations deleted due to missingness)
## Multiple R-squared: 0.5977, Adjusted R-squared: 0.5769
## F-statistic: 28.73 on 9 and 174 DF, p-value: < 2.2e-16
#Wake County model 2 w/o race
wakereg2 <- lm(kfr_pooled_pooled_p25 ~</pre>
                                             frac coll plus2000 + med hhinc1990 + poor share1990 +
                                             singleparent_share1990 + emp2000 + popdensity2000,
                                            data = wake co, na.action = na.omit)
summary(wakereg2)
##
## Call:
## lm(formula = kfr_pooled_pooled_p25 ~ frac_coll_plus2000 + med_hhinc1990 +
       poor_share1990 + singleparent_share1990 + emp2000 + popdensity2000,
       data = wake_co, na.action = na.omit)
##
##
## Residuals:
      Min
                10 Median
                                3Q
                                       Max
## -10.513 -3.082 -0.380
                             2.760 17.103
## Coefficients:
                           Estimate Std. Error t value Pr(>|t|)
                           2.204e+01 6.381e+00 3.454 0.000691 ***
## (Intercept)
                                                 7.080 3.26e-11 ***
## frac coll plus2000
                          2.131e+01 3.010e+00
## med hhinc1990
                           1.159e-04 4.979e-05
                                                2.328 0.021049 *
## poor_share1990
                                                 0.955 0.341063
                          9.148e+00 9.583e+00
## singleparent share1990 -1.330e+01 5.183e+00 -2.566 0.011118 *
## emp2000
                          1.236e+01 7.174e+00
                                                  1.723 0.086633 .
## popdensity2000
                         -4.538e-04 5.405e-04 -0.840 0.402276
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 5.006 on 177 degrees of freedom
     (2 observations deleted due to missingness)
## Multiple R-squared: 0.5904, Adjusted R-squared: 0.5765
## F-statistic: 42.52 on 6 and 177 DF, p-value: < 2.2e-16
#Model 3
wakereg3 <- lm(kfr pooled pooled p25 ~
                                             frac_coll_plus2000,
                                            data = wake co, na.action = na.omit)
summary(wakereg3)
##
## Call:
## lm(formula = kfr_pooled_pooled_p25 ~ frac_coll_plus2000, data = wake_co,
      na.action = na.omit)
##
##
## Residuals:
##
       Min
                  1Q
                      Median
                                    3Q
                                            Max
## -14.6271 -3.4402 -0.2977
                                3.2998 16.4623
```

##

```
## Coefficients:
##
                      Estimate Std. Error t value Pr(>|t|)
                                           23.98
## (Intercept)
                        28.565
                                    1.191
## frac_coll_plus2000 32.045
                                    2.465
                                            13.00
                                                    <2e-16 ***
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 5.554 on 182 degrees of freedom
     (2 observations deleted due to missingness)
## Multiple R-squared: 0.4815, Adjusted R-squared: 0.4786
## F-statistic:
                 169 on 1 and 182 DF, p-value: < 2.2e-16
#Model 4
wakereg4 <- lm(kfr_pooled_pooled_p25 ~</pre>
                                            med_hhinc1990,
                                            data = wake_co, na.action = na.omit)
summary(wakereg4)
##
## Call:
## lm(formula = kfr_pooled_pooled_p25 ~ med_hhinc1990, data = wake_co,
##
      na.action = na.omit)
##
## Residuals:
      Min
                1Q Median
                                3Q
## -10.513 -4.227 -1.171
                             2.555 20.942
## Coefficients:
                  Estimate Std. Error t value Pr(>|t|)
                2.839e+01 1.427e+00
                                        19.90
## (Intercept)
                                                <2e-16 ***
## med_hhinc1990 3.729e-04 3.436e-05
                                        10.85
                                                <2e-16 ***
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 6.01 on 182 degrees of freedom
     (2 observations deleted due to missingness)
## Multiple R-squared: 0.3929, Adjusted R-squared: 0.3896
## F-statistic: 117.8 on 1 and 182 DF, p-value: < 2.2e-16
#Model 5
wakereg5 <- lm(kfr_pooled_pooled_p25 ~</pre>
                                            poor_share1990,
                                            data = wake_co, na.action = na.omit)
summary(wakereg5)
##
## lm(formula = kfr_pooled_pooled_p25 ~ poor_share1990, data = wake_co,
##
      na.action = na.omit)
##
## Residuals:
       Min
                 1Q Median
                                    3Q
## -11.1950 -4.8826 -0.8003
                              3.9303 19.6886
##
## Coefficients:
                  Estimate Std. Error t value Pr(>|t|)
##
```

```
## (Intercept)
                  46.9229
                              0.6849 68.507 < 2e-16 ***
                              6.0851 -7.965 1.74e-13 ***
## poor_share1990 -48.4677
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 6.642 on 182 degrees of freedom
    (2 observations deleted due to missingness)
## Multiple R-squared: 0.2585, Adjusted R-squared: 0.2544
## F-statistic: 63.44 on 1 and 182 DF, p-value: 1.737e-13
#Model 6
wakereg6 <- lm(kfr_pooled_pooled_p25 ~</pre>
                                           singleparent_share1990,
                                           data = wake_co, na.action = na.omit)
summary(wakereg6)
##
## Call:
## lm(formula = kfr_pooled_pooled_p25 ~ singleparent_share1990,
##
      data = wake_co, na.action = na.omit)
##
## Residuals:
##
      Min
               1Q Median
                               30
## -12.579 -4.864 -1.114
                            3.992 21.732
## Coefficients:
##
                         Estimate Std. Error t value Pr(>|t|)
                                      0.7679 64.121 <2e-16 ***
## (Intercept)
                          49.2415
## singleparent_share1990 -33.9062
                                      3.4089 -9.946
                                                     <2e-16 ***
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 6.209 on 182 degrees of freedom
    (2 observations deleted due to missingness)
## Multiple R-squared: 0.3521, Adjusted R-squared: 0.3486
## F-statistic: 98.93 on 1 and 182 DF, p-value: < 2.2e-16
#Model 7
wakereg7 <- lm(kfr_pooled_pooled_p25 ~</pre>
                                           emp2000,
                                           data = wake_co, na.action = na.omit)
summary(wakereg7)
##
## lm(formula = kfr_pooled_pooled_p25 ~ emp2000, data = wake_co,
##
      na.action = na.omit)
##
## Residuals:
               1Q Median
                               3Q
##
      Min
                                      Max
## -12.791 -5.375 -1.139
                            4.311 19.521
##
## Coefficients:
##
              Estimate Std. Error t value Pr(>|t|)
                11.616
                        4.838 2.401 0.0173 *
## (Intercept)
                            6.730 6.547 5.81e-10 ***
## emp2000
                44.062
```

```
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 6.94 on 182 degrees of freedom
     (2 observations deleted due to missingness)
## Multiple R-squared: 0.1906, Adjusted R-squared: 0.1862
## F-statistic: 42.86 on 1 and 182 DF, p-value: 5.811e-10
#Model 8
wakereg8 <- lm(kfr_pooled_pooled_p25 ~</pre>
                                            popdensity2000,
                                            data = wake_co, na.action = na.omit)
summary(wakereg8)
##
## Call:
## lm(formula = kfr_pooled_pooled_p25 ~ popdensity2000, data = wake_co,
##
      na.action = na.omit)
##
## Residuals:
       Min
                 1Q Median
                                   3Q
                                            Max
## -15.6903 -5.7073 -0.5784 4.5896 21.8386
##
## Coefficients:
                   Estimate Std. Error t value Pr(>|t|)
                 43.969917
                              0.783028 56.154
                                                <2e-16 ***
## (Intercept)
## popdensity2000 -0.001187
                              0.000747 - 1.589
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 7.661 on 182 degrees of freedom
     (2 observations deleted due to missingness)
## Multiple R-squared: 0.01368,
                                   Adjusted R-squared:
## F-statistic: 2.523 on 1 and 182 DF, p-value: 0.1139
#Fuguay-Varina tracts
fuquayreg <- lm(kfr_pooled_pooled_p25 ~ share_white2000 + share_black2000 + share_hisp2000 +
                                             frac_coll_plus2000 + med_hhinc1990 + poor_share1990 +
                                             singleparent share1990 + emp2000 + popdensity2000,
                                            data = fuquay)
summary(fuquayreg)
##
## Call:
## lm(formula = kfr_pooled_pooled_p25 ~ share_white2000 + share_black2000 +
##
       share_hisp2000 + frac_coll_plus2000 + med_hhinc1990 + poor_share1990 +
       singleparent_share1990 + emp2000 + popdensity2000, data = fuquay)
##
##
## Residuals:
                                  3
                       2
                                             4
## -1.469e-06 -3.153e+00 1.873e+00
                                    1.280e+00 -1.543e-04 1.547e-04
                                                                     4.314e-07
           8
                       9
                                 10
                                                       12
                                            11
## -2.767e+00 2.173e+00 1.362e-01 2.028e+00 -1.571e+00 -1.907e-04
## attr(,"label")
## [1] "Mean pctile rank in the national distribution of household income in 2014-2015"
```

```
## attr(,"format.stata")
## [1] "%9.0g"
##
## Coefficients: (1 not defined because of singularities)
                           Estimate Std. Error t value Pr(>|t|)
                         -4.726e+07 4.315e+07 -1.095
## (Intercept)
                                                          0.335
## share white2000
                          4.739e+07 4.333e+07
                                                1.094
                                                          0.336
## share_black2000
                          4.842e+07 4.428e+07
                                                 1.094
                                                          0.336
## share_hisp2000
                          4.900e+07 4.479e+07
                                                 1.094
                                                          0.335
                                                1.087
## frac_coll_plus2000
                          1.080e+06 9.930e+05
                                                          0.338
## med_hhinc1990
                          6.082e+00 4.833e+00
                                                1.258
                                                          0.277
## poor_share1990
                                                 0.969
                          2.990e+06 3.084e+06
                                                          0.387
## singleparent_share1990 -2.158e+06 2.395e+06 -0.901
                                                          0.419
## emp2000
                                 NA
                                            NA
                                                    NA
                                                             NA
## popdensity2000
                          -2.644e-02 1.100e-02 -2.404
                                                          0.074 .
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 2.918 on 4 degrees of freedom
## Multiple R-squared: 0.7669, Adjusted R-squared: 0.3006
## F-statistic: 1.645 on 8 and 4 DF, p-value: 0.3317
#Cary Tracts
caryreg <- lm(kfr_pooled_pooled_p25 ~ share_white2000 + share_black2000 + share_hisp2000 +</pre>
                                            frac_coll_plus2000 + med_hhinc1990 + poor_share1990 +
                                            singleparent_share1990 + emp2000 + popdensity2000,
                                           data = cary)
summary(caryreg)
##
## Call:
  lm(formula = kfr_pooled_pooled_p25 ~ share_white2000 + share_black2000 +
       share_hisp2000 + frac_coll_plus2000 + med_hhinc1990 + poor_share1990 +
##
       singleparent_share1990 + emp2000 + popdensity2000, data = cary)
##
## Residuals:
     Min
             1Q Median
                           30
## -8.660 -3.277 0.146 2.140 11.514
##
## Coefficients:
##
                           Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                          8.534e+01 5.381e+01
                                                1.586
                                                         0.1277
## share_white2000
                         -1.459e+01 4.534e+01 -0.322
                                                         0.7508
## share_black2000
                         -1.509e+02 7.316e+01 -2.063
                                                         0.0517 .
                          -6.149e+01 9.273e+01
## share_hisp2000
                                                -0.663
                                                         0.5145
## frac_coll_plus2000
                          9.773e+00 2.511e+01
                                                0.389
                                                         0.7010
## med_hhinc1990
                         -2.189e-04 1.843e-04
                                               -1.188
                                                         0.2482
## poor_share1990
                          2.498e+01 3.231e+01
                                                 0.773
                                                         0.4481
## singleparent_share1990 4.143e+01 2.439e+01
                                                 1.698
                                                         0.1042
## emp2000
                          -2.416e+01 3.104e+01
                                                -0.778
                                                         0.4450
## popdensity2000
                          5.860e-03 3.480e-03
                                                1.684
                                                         0.1070
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 5.552 on 21 degrees of freedom
```

```
(1 observation deleted due to missingness)
## Multiple R-squared: 0.5009, Adjusted R-squared: 0.287
## F-statistic: 2.342 on 9 and 21 DF, p-value: 0.05205
# Create a regression table using the stargazer() function
reg_table <- stargazer(wakereg1, wakereg2, wakereg3, wakereg4, wakereg5, wakereg6, type = "html",
         title = "Series of regressions on upward mobility in Wake County",
         align = TRUE,
         column.labels = c("Full Covariate Model", "Model 2", "Model 3", "Model 4", "Model 5", "M
         covariate.labels = c("2000 White pop. share", "2000 Black pop. share", "2000 Hisp. pop. share
                             "2000 College degree plus share", "1990 Median household income", "1990
                             "1990 Single parent share", "2000 Employment rate", "2000 Population den
         dep.var.caption = "Dependent variable: Absolute mobility at the 25th percentile",
         dep.var.labels.include = FALSE,
         digits = 2,
         intercept.bottom = TRUE,
         model.numbers = TRUE,
         no.space = TRUE,
         omit.stat = c("f", "ser"))
##
## <caption><strong>Series of regressions on upward mobility in Wake C
## <td style="text-align:left"
## 
## Full Covariate ModelModel 2Model 2
## (1)(2)(3)(4)(5)<
## <td style="text-align:left"
## 2000 Black pop. share-23.72
## 2000 Hisp. pop. share-33.98<sup>*</sup></d>>
## 2000 College degree plus share15.65<sup>***</sup>2
## (4.60)(3.01)(2.47)<
## 1990 Median household income0.0001<sup>***</sup>0.
## 1990 poverty share6.079.15</
## 1990 Single parent share-8.22-13.30<sup>**</sup></
## Constant44.38<sup>***</sup>22.04<sup>***</sup></td
## <td style="text-align:left"
## R<sup>2</sup>0.600.590.480.48
```

45

sink("stargazer_table.html")

cat(reg_table)

Adjusted R²0.580.580.480.480.580.580.48

<caption>Series of regressions on upward mobility in Wake
sink()