IDS 702: Module 6.8

THE MINIMUM WAGE ANALYSIS

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THE MINIMUM WAGE ANALYSIS

- Let's see how causal inference with propensity scores works using the minimum wage data.
- The data is in the file MinimumWageData.csv on Sakai.

Variables	Description
NJ.PA	indicator for which state the restaurant is in (1 if NJ, 0 if PA)
EmploymentPre	measures employment for each restaurant before the minimum wage raise in NJ
EmploymentPost	measures employment for each restaurant after the minimum wage raise in NJ
WagePre	measures the hourly wage for each restaurant before the minimum wage raise
BurgerKing	indicator for Burger King
KFC	indicator for KFC
Roys	indicator for Roys
Wendys	indicator for Wendys



THE MINIMUM WAGE ANALYSIS

```
MinWage <- read.csv("data/MinimumWageData.csv",header=T,</pre>
                    colClasses=c("factor","numeric","numeric","numeric",
                                 "factor", "factor", "factor"))
str(MinWage)
## 'data.frame':
                  372 obs. of 8 variables:
## $ NJ.PA
                   : Factor w/ 2 levels "0","1": 1 1 1 1 1 1 1 1 1 ...
## $ EmploymentPost: num 18 29.5 24 30.5 9 6.5 13.5 25 26.5 23 ...
## $ EmploymentPre : num 30 19 67.5 18.5 6 7 12.5 55 21.5 25.5 ...
## $ WagePre
                  : num 5 5.5 5 5 5.25 5 5 5 5 5.5 ...
## $ BurgerKing : Factor w/ 2 levels "0","1": 1 1 2 2 1 1 1 2 2 2 ...
## $ KFC
                  : Factor w/ 2 levels "0","1": 1 1 1 1 2 2 1 1 1 1 ...
                 : Factor w/ 2 levels "0","1": 1 1 1 1 1 1 2 1 1 1 ...
## $ Rovs
## $ Wendys
                  : Factor w/ 2 levels "0","1": 2 2 1 1 1 1 1 1 1 1 ...
head(MinWage)
    NJ.PA EmploymentPost EmploymentPre WagePre BurgerKing KFC Roys Wendys
##
## 1
                    18.0
                                  30.0
                                         5.00
## 2
                    29.5
                                 19.0
                                         5.50
                                                                      1
## 3
                    24.0
                                 67.5 5.00
## 4
                    30.5
                                 18.5 5.00
                                                                      0
## 5
                                 6.0 5.25
                                                                      0
                    9.0
                    6.5
                                  7.0
                                         5.00
## 6
```

In-class analysis: move to the R script here



WHAT'S NEXT?

MOVE ON TO THE READINGS FOR THE NEXT MODULE!

