# Homework 4

*Randy Xun*

*November 8, 2018*

## Reading in the Homicide Data

This is homicide data used by the Washington Post article available at
https://www.washingtonpost.com/graphics/2018/investigations/where-murders-go-unsolved/ The dataset is
available at my Github Page https://github.com/randyxun/HW_4.

## The proportion of unsolved homicides in Baltimore, MD

Baltimore is so famous for murders that they created an HBO television series about it.

```
##
##  1-sample proportions test with continuity correction
##
## data:  baltimore$total_unsolved out of baltimore$total_homicides, null probability 0.5
## X-squared = 239.01, df = 1, p-value < 2.2e-16
## alternative hypothesis: true p is not equal to 0.5
## 95 percent confidence interval:
##  0.6275625 0.6631599
## sample estimates:
##         p
## 0.6455607
```

# The distribution of unsolved homicides in the United States

## Unsolved homicides by city
Bars show 95% confidence interval



Percent of homicides that are unsolved