

# Sta 325 Final Project

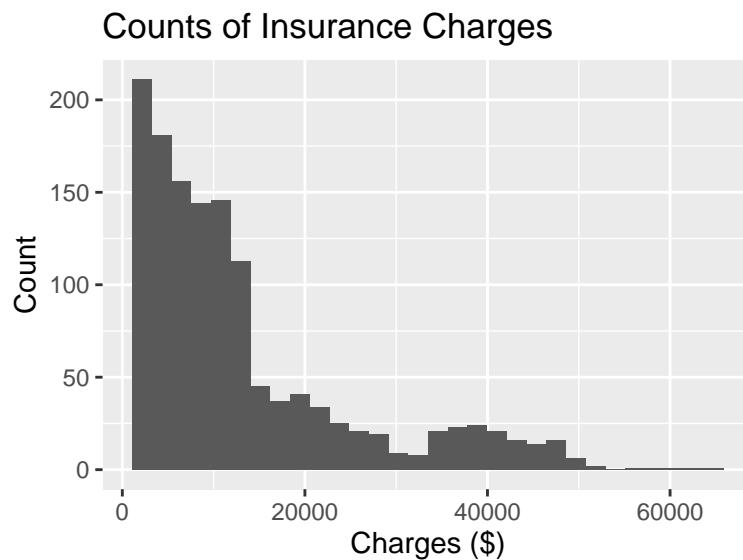
Will Frauen and Jack Miller

## Introduction

Our project aims to build a model that best predicts insurance costs given predictors such as age, sex, BMI, number of children, and more. These predictor variables will hopefully help us understand the motivating factors behind insurance costs. We will aim to draw inference using our findings from both our exploratory data analysis as well as our model building.

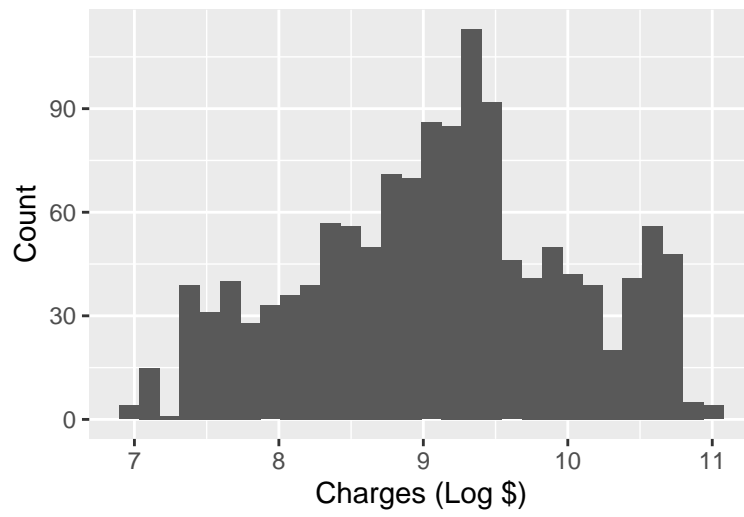
## Exploratory Data Analysis

```
## 'stat_bin()' using 'bins = 30'. Pick better value with 'binwidth'.
```

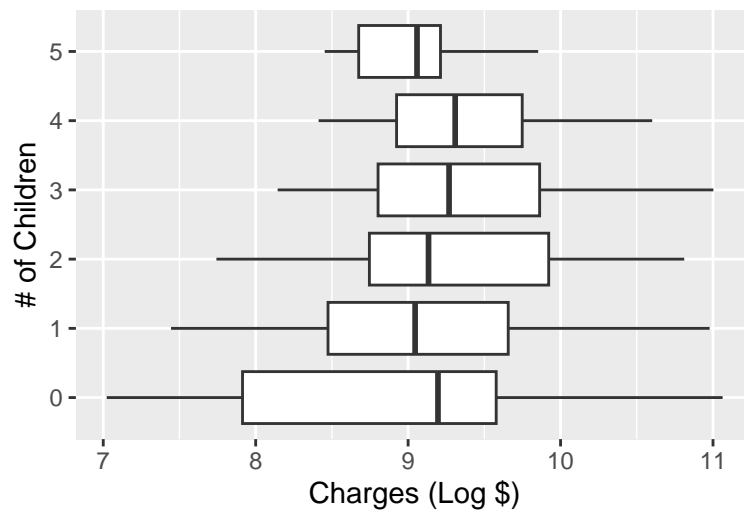


```
## 'stat_bin()' using 'bins = 30'. Pick better value with 'binwidth'.
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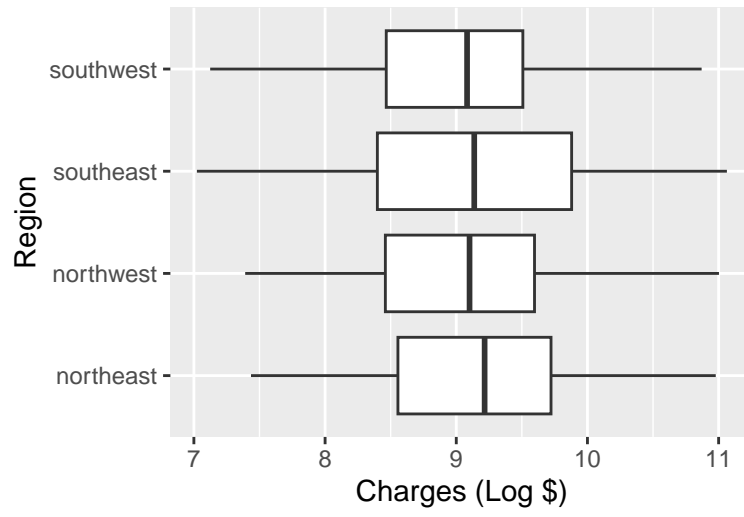
Counts of Log Insurance Charges



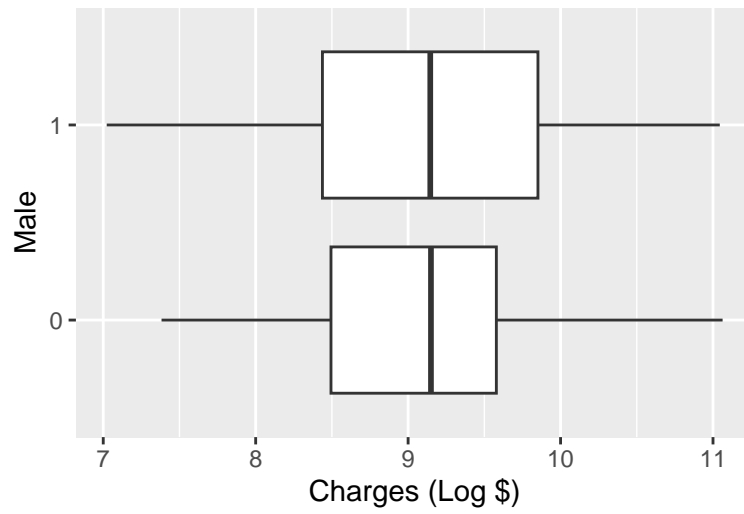
Log Insurance Charges vs. Number of Children



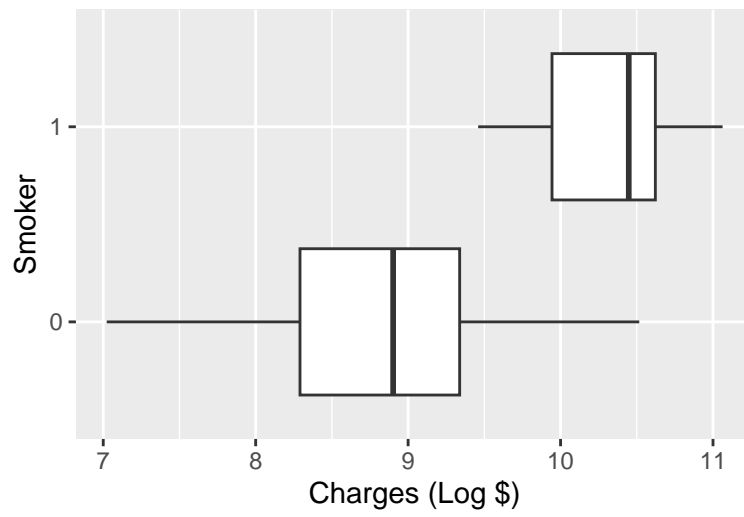
Log Insurance Charges vs. Region



Log Insurance Charges vs. Male



Log Insurance Charges vs. Smoker



Log Insurance Charges vs. BMI  
Colored by Smoker

