Sophia Barrett

Variables:

Salary

Gender

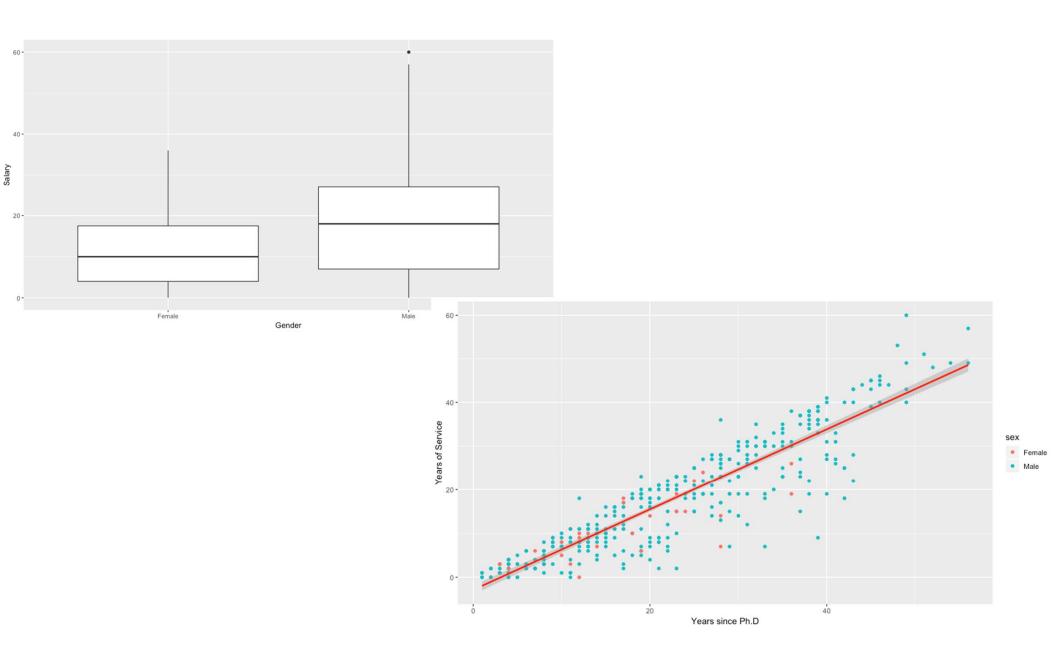
Years since Ph.D.

Years of Service

Rank (Assoc Prof, Asst Prof, Prof)

Discipline (Applied, Theoretical)

N = 397 cases



```
summary(salarieslm)
Call:
lm(formula = salary ~ yrs.since.phd + yrs.service, data = salaries)
Residuals:
   Min
          10 Median
                         30
                               Max
-79735 -19823 -2617 15149 106149
Coefficients:
              Estimate Std. Error t value Pr(>|t|)
(Intercept)
               89912.2
                           2843.6
                                   31.620 < 2e-16
yrs.since.phd
               1562.9
                                   6.086 2.75e-09
                           256.8
yrs.service
                -629.1
                            254.5 -2.472
                                           0.0138 *
               0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
Signif. codes:
Residual standard error: 27360 on 394 degrees of freedom
Multiple R-squared: 0.1883,
                               Adjusted R-squared: 0.1842
F-statistic: 45.71 on 2 and 394 DF, p-value: < 2.2e-16
```

A person with 1 year of service and 1 year since the Ph.D. has a predicted salary of \$90,846

A person with 10 year of service and 10 year since the Ph.D. has a predicted salary of \$99,250.20

Salary = 89912.20 + 1562.90 * Years Since Ph.D. – 629.10 * Years of Service