

### Introduction

Many of us will be graduating this school year. Knowing this information could help you:

- Decide on a career choice
- Negotiate salary
- Set realistic expectations

#### Scientific Research Questions

- 1. What are the most significant predictors of salary for new college graduates?
- **2.** How does the field of study affect salary outcomes for new college graduates?



### Data Set



National Survey of College Graduates

106,279 original data points

#### Variables used:

- Salary
- Race/ethnicity (Asian, White, Multiple Race, Hispanic, Black, Native)
- Private/public institution (Private, Public)
- Year of start date (2021)
- Major (Engineering, Comp/Math Sciences, Physical Sciences, Social Sciences, Agriculture/Environmental Sciences, S&E-Related, Non-S&E Related)
- Grad year (2021)
- Gender (M/F)

## Here is what we found...

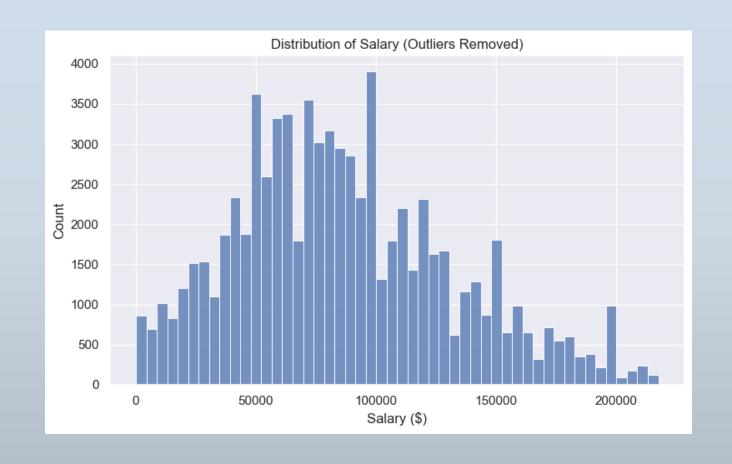
This graph shows the distribution salary among recent graduates of 2021. Most students earn between \$50,000 – \$100,000.

In this graph 63,512 data points were used.

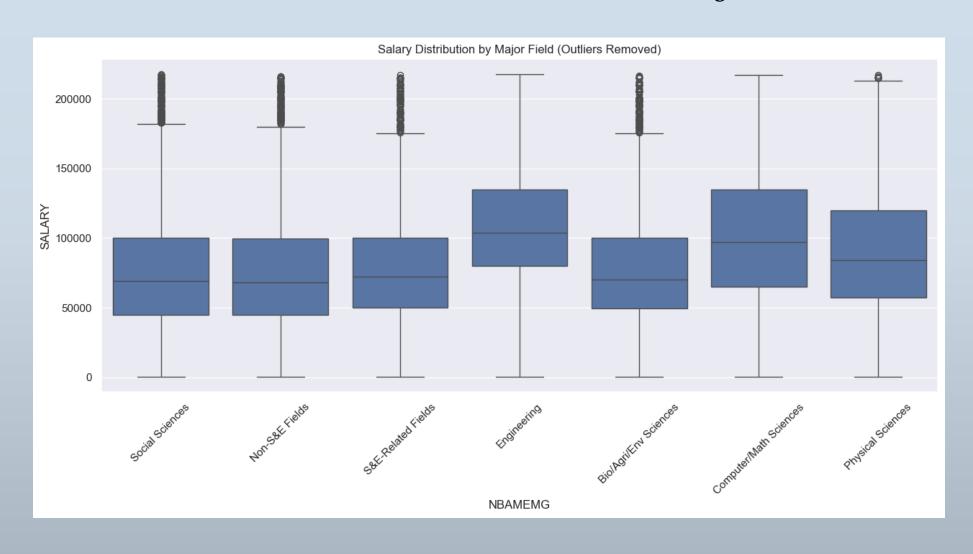
To filter our data, we found the IQR and removed points that fell outside of our range

Upper bound: Q3 + 1.5 \* IQR

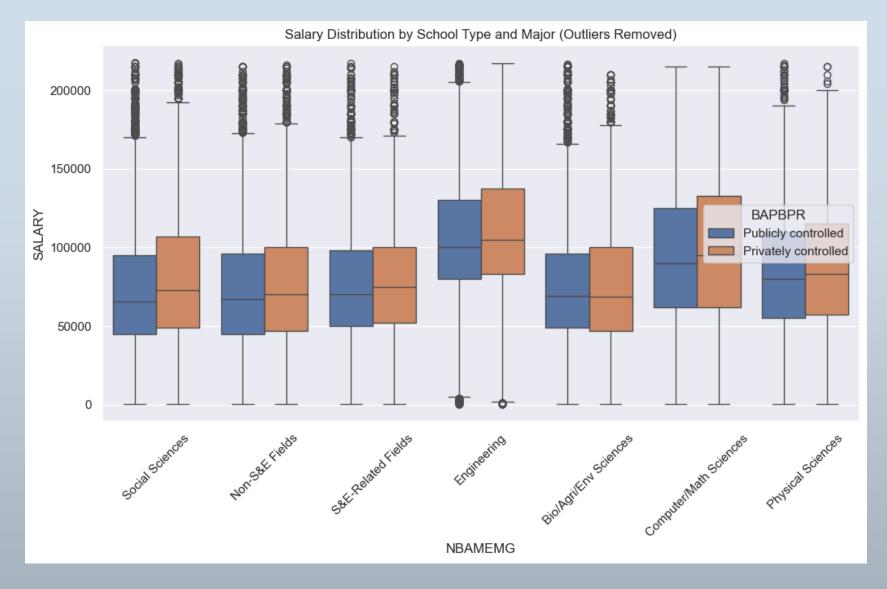
Lower bound: Q1 - 1.5 \* IQR



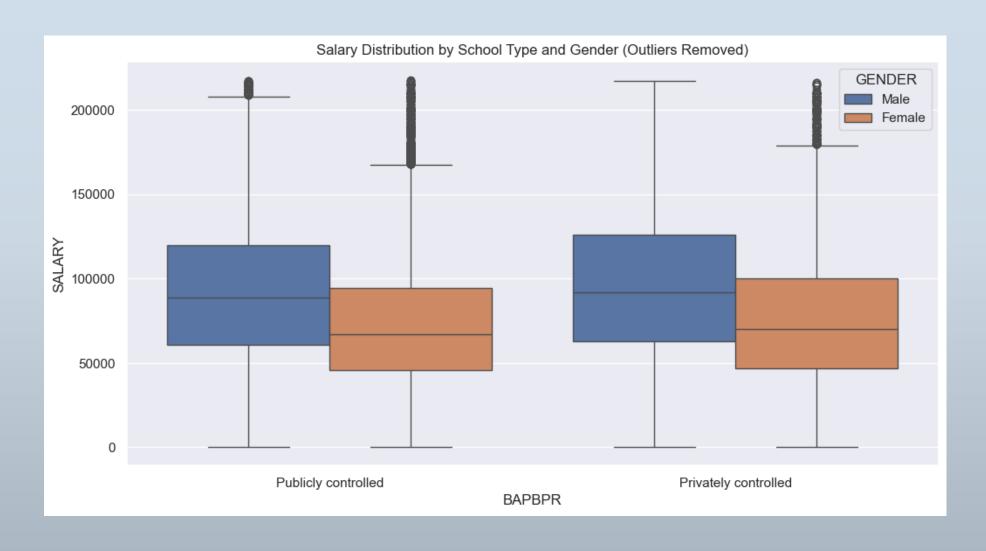
## Distribution Across Different Majors



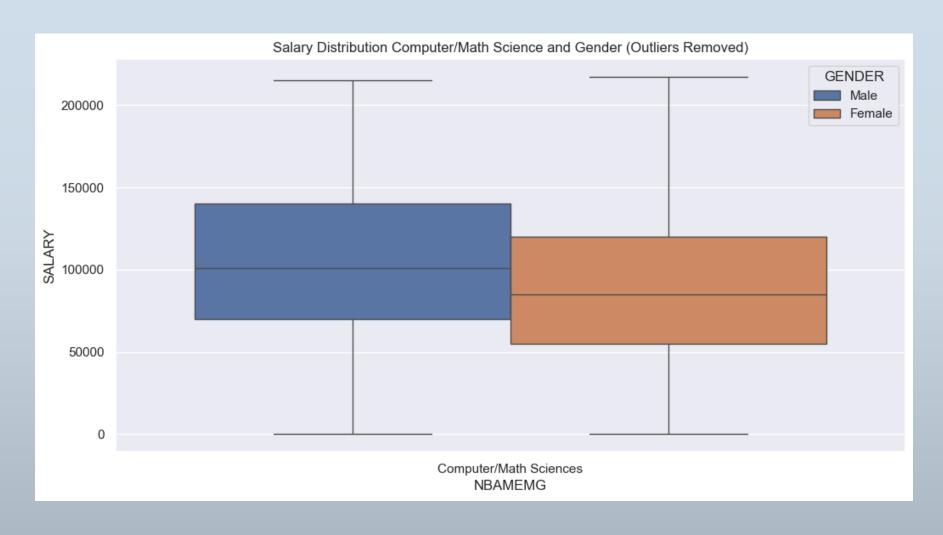
## Private vs Public School / Major Field



## Private vs Public School / Male vs Female



## Computer&Math Sciences / Male vs Female



# Findings Cont...

#### Median Salary by Major:

#### Major\_Field

Engineering	101000.0
Computer/Math Sciences	91000.0
Physical Sciences	80000.0
S&E-Related Fields	71623.0
Bio/Agri/Env Sciences	69000.0
Non-S&E Fields	69000.0
Social Sciences	69000.0

#### Median Salary by Gender:

#### Gender (All Majors)

Male 90000.0

Female 68000.0

### Median Salary by Gender:

#### Gender (Computer/Math Sciences)

Male 101000.0

Female 85000.0

# Findings Cont...

Median Salary by School Type:

School\_Type (All Majors)

Privately controlled 80000.0

Publicly controlled 79000.0

Median Salary by School Type:

School\_Type (Computer/Math Sciences)

Privately controlled 95000.0

Publicly controlled 90000.0

# Findings Cont...

### Median Salary by Race/Ethnicity:

#### Race\_Ethnicity (All Majors)

Asian, non-Hispanic	90000.0
White, non-Hispanic	80962.5
Native Hawaiian/Pacific Islander,	
non-Hispanic	80000.0
Multiple Race, non-Hispanic	75000.0
Hispanic, any race	70000.0
Black, non-Hispanic	65000.0
Native American / Alaska Native,	
non-Hispanic	60500.0

#### Median Salary by Race/Ethnicity:

#### Race\_Ethnicity (Computer/Math Sciences)

Asian, non-Hispanic	108000.0
White, non-Hispanic	98262.0
Multiple Race, non-Hispanic	88500.0
Hispanic, any race	85000.0
Native Hawaiian/Pacific Islander, no	n-
Hispanic	85000.0

Native Indian/Alaska Native, non-Hispanic

Black, non-Hispanic

82500.0

75000.0

### Conclusion

According to our study, the median salary for a computer science student is \$91,000.

We also found that women typically earn  $\sim 17\%$  less than their male counterparts.

We found gender and major to be the best predictors of salary. In our study we did not take into account geographical location of the students who participated in the survey.

