

Let's Talk
About Sex

Team

POWER:

Max Bartlett,
Jenny Chin,
Liam Pulsifer

Overview

Shiny App

Findings

Conclusion

Let's Talk About Sex

Team POWER: Max Bartlett, Jenny Chin, Liam Pulsifer

May 5, 2018

Let's Talk
About Sex

Team

POWER:

Max Bartlett,
Jenny Chin,
Liam Pulsifer

Overview

Shiny App

Findings

Conclusion

Overview

Our data

Let's Talk About Sex

Team

POWER:

Max Bartlett,
Jenny Chin,
Liam Pulsifer

Overview

Shiny App

Findings

Conclusion

- 14 questions, short Qualtrics survey
- Surveyed ~400 people
- Cleaned data
- Our motivating question

Let's Talk
About Sex

Team

POWER:

Max Bartlett,
Jenny Chin,
Liam Pulsifer

Overview

Shiny App

Findings

Conclusion

Shiny App

Let's Talk
About Sex

Team

POWER:

Max Bartlett,
Jenny Chin,
Liam Pulsifer

Overview

Shiny App

Findings

Conclusion

Findings

Findings - Summary Statistics

Let's Talk
About Sex

Team

POWER:

Max Bartlett,
Jenny Chin,
Liam Pulsifer

Overview

Shiny App

Findings

Conclusion

```
## # A tibble: 1 x 8
##   max    min mean median    sd    q1    q3  num
##   <dbl> <dbl> <dbl> <int> <dbl> <dbl> <dbl> <int>
## 1  36.    0.  4.41     2  5.81    1.  5.50  319

## # A tibble: 1 x 8
##   max    min mean median    sd    q1    q3  num
##   <dbl> <dbl> <dbl> <int> <dbl> <dbl> <dbl> <int>
## 1  25.    0.  3.22     2  4.53    1.    4.  317
```

Figure 1: Summary Statistics of Sexual Partners (total and in college)

Findings - Abstinence

Let's Talk
About Sex

Team

POWER:

Max Bartlett,
Jenny Chin,
Liam Pulsifer

Overview

Shiny App

Findings

Conclusion

```
## # A tibble: 3 x 2
##   partner_group          n
##   <chr>                <int>
## 1 Not sexually active in high school and college    59
## 2 Sexually active in high school and college       239
## 3 Sexually active in high school and not sexually active in college    19
```

Figure 2: Sexual Activity Groupings

Findings - Religion and Abstinence

Let's Talk
About Sex

Team

POWER:

Max Bartlett,
Jenny Chin,
Liam Pulsifer

Overview

Shiny App

Findings

Conclusion

```
## # A tibble: 2 x 2
##   religious      n
##   <chr>      <int>
## 1 No          36
## 2 Yes         22
```

Figure 3: Sexual Activity Groupings

Findings - Major

Let's Talk
About Sex

Team
POWER:
Max Bartlett,
Jenny Chin,
Liam Pulsifer

Overview

Shiny App

Findings

Conclusion

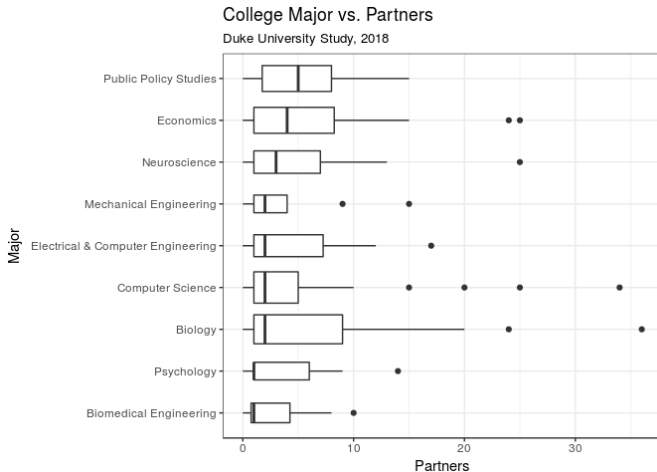


Figure 4: Sexual Activity By Major

Findings – Trinity vs. Pratt Summary Statistics

Let's Talk
About Sex

Team

POWER:

Max Bartlett,
Jenny Chin,
Liam Pulsifer

Overview

Shiny App

Findings

Conclusion

```
## # A tibble: 2 x 9
##   school    max    min  mean median    sd    q1    q3   num
##   <chr> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <int>
## 1 Pratt    17.     0.  3.55     2.  4.05     1.  4.50     55
## 2 Trinity  36.     0.  4.82     2.  6.27     1.  6.00    244
```

Figure 5: Sexual Activity By Major

Findings - Trinity vs. Pratt Differences in Means

Let's Talk
About Sex

Team
POWER:
Max Bartlett,
Jenny Chin,
Liam Pulsifer

Overview

Shiny App

Findings

Conclusion

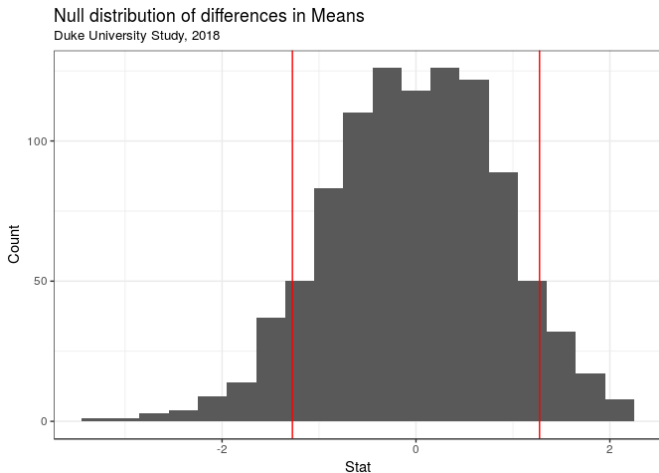


Figure 6: $p\text{-value} = 0.132$

Findings - Greek Life

Let's Talk
About Sex

Team
POWER:
Max Bartlett,
Jenny Chin,
Liam Pulsifer

Overview

Shiny App

Findings

Conclusion

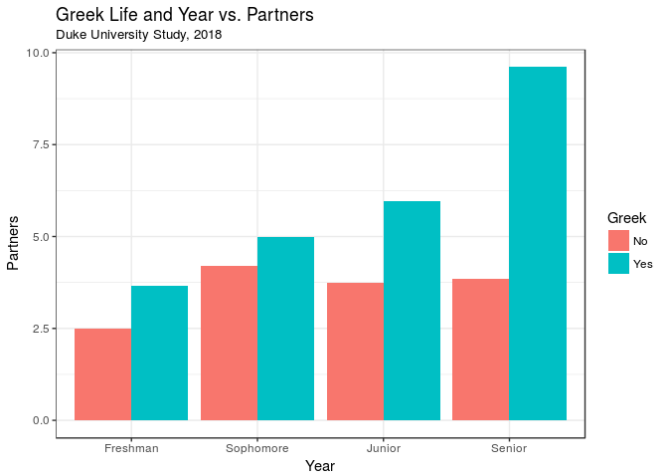


Figure 7: Sexual Activity by Involvement in Greek Life

Findings - Greek Life Difference in Means

Let's Talk
About Sex

Team

POWER:

Max Bartlett,
Jenny Chin,
Liam Pulsifer

Overview

Shiny App

Findings

Conclusion

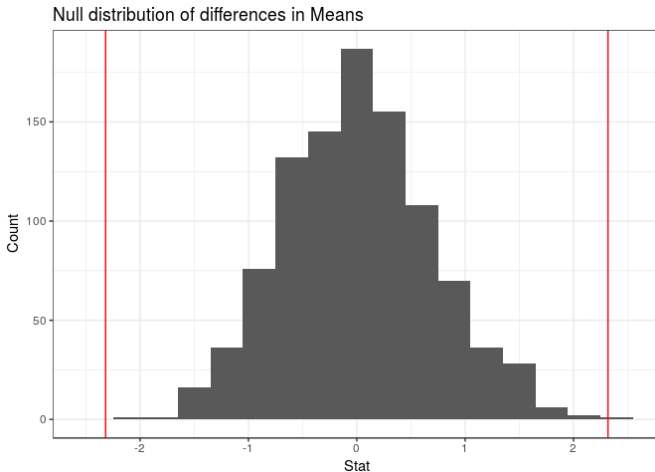


Figure 8: $p\text{-value} = 0$

Findings - Forward Selection Linear Model

Let's Talk
About Sex

Team
POWER:

Max Bartlett,
Jenny Chin,
Liam Pulsifer

Overview

Shiny App

Findings

Conclusion

```
##  
## Call:  
## lm(formula = partners ~ religion + greek + athlete + politics,  
##     data = sex_survey)  
##  
## Coefficients:  
##                (Intercept)  
##                8.3296  
##          religionChristianity  
##                -7.6823  
## religionChristianity and Buddhism  
##                -8.3296  
##          religionHinduism  
##                -9.4628  
##          religionIslam  
##                -5.8311  
##          religionJudaism  
##                -5.4114  
##          religionOther  
##                2.4605  
##          greekYes  
##                3.4255  
##          athleteYes  
##                3.6021  
## politicsNeither,Somewhat Liberal  
##                -0.6473  
## politicsSomewhat Conservative  
##                3.0588  
##          politicsSomewhat Liberal  
##                0.6704  
## politicsSomewhat Liberal,Very Liberal  
##                5.9272  
##          politicsVery Conservative  
##                -1.1225  
##          politicsVery Liberal  
##                1.2099
```

Figure 9: $\text{Adj. } R^2 = 0.2147764$

Let's Talk
About Sex

Team

POWER:

Max Bartlett,
Jenny Chin,
Liam Pulsifer

Overview

Shiny App

Findings

Conclusion

Conclusion

Critiques

Let's Talk About Sex

Team

POWER:

Max Bartlett,
Jenny Chin,
Liam Pulsifer

Overview

Shiny App

Findings

Conclusion

- Voluntary response bias
- Definition of sexual partner
- Privacy