Diversity in PhD Theses

Sharon Velpula

September 13, 2022

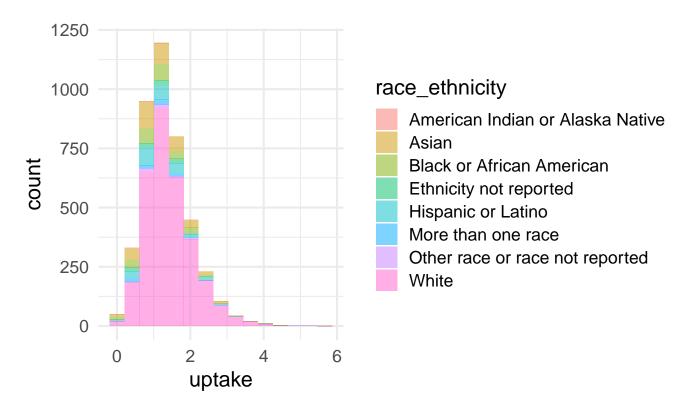
Data

```
## chr (3): field, race_ethnicity, sex
## dbl (5): year, prop_same_race, prop_same_sex, novelty, uptake
##
## i Use `spec()` to retrieve the full column specification for this da
## i Specify the column types or set `show_col_types = FALSE` to quiet
pi
```

```
## # A tibble: 4,195 x 8
##
     year field race_ethnicity sex prop_same_race prop_same_sex no
## <dbl> <chr> <chr>
                     <chr>
                                    <dbl>
                                               <dbl>
## 1 2006 Life ~ White
                       Fema~
                                  0.757
                                               0.516
  2 2001 Mathe~ Asian Fema~ 0.118
##
                                               0.234
##
  3 2011 Mathe~ White Fema~ 0.735
                                               0.249
                                             0.449
##
  4 2016 Life ~ Black or Afri~ Male 0.0586
##
  5 2011 Mathe~ Black or Afri~ Male 0.0318
                                               0.751
##
  6 2001 Human~ White
                         Male 0.806 0.512
  7 2016 Psych~ White
                   Fema~ 0.710
                                               0.587
##
##
  8 2006 Human~ Asian
                   Fema~ 0.0528
                                               0.497
```

9 2001 Engin~ White Male 0.707 0.831 ## 10 2006 Mathe~ White Fema~ 0.731 0.253 ## # ... with 4,185 more rows

gf_histogram(~ uptake, fill = ~ race_ethnicity, bins = 15, data = pi)



I chose a histogram because I wanted to visualize both the categorical variable race_ethnicity and the quantitative variable uptake. We can see that up till a

certain point, the increase in uptake shows an increase in the count of different ethnicity groups. However, after that point, increasing uptake shows a decrease in the count of the ethnicity groups. Just by observation, it looks like most people experience an uptake between 1 and 1.5, with the Asians experiencing it the most.