Stats Modeling Project

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```
data(package = "dslabs")
data("research_funding_rates")
data <- as_tibble(research_funding_rates)
```

Introduction

Data was acquired through the R package `dslabs` (Irizarry and Gill 2019).

Viewing Data

Just as an example. Will delete later.

```
data %>% kable(format.args = list(trim = TRUE), booktabs = T) %>%
  kable_styling(latex_options = c("striped", "scale_down")) %>% landscape()
```

discipline	applications_total	applications_men	applications_women	awards_total	awards_men	awards_women	success_rates_total	success_rates_men	success_rates_women
Chemical sciences	122	83	39	32	22	10	26.2	26.5	25.6
Physical sciences	174	135	39	35	26	9	20.1	19.3	23.1
Physics	76	67	9	20	18	2	26.3	26.9	22.2
Humanities	396	230	166	65	33	32	16.4	14.3	19.3
Technical sciences	251	189	62	43	30	13	17.1	15.9	21.0
Interdisciplinary	183	105	78	29	12	17	15.8	11.4	21.8
Earth/life sciences	282	156	126	56	38	18	19.9	24.4	14.3
Social sciences	834	425	409	112	65	47	13.4	15.3	11.5
Medical sciences	505	245	260	75	46	29	14.9	18.8	11.2

Session Info

```r
sessionInfo()
```

```
## R version 3.6.1 (2019-07-05)
## Platform: x86_64-apple-darwin15.6.0 (64-bit)
## Running under: macOS High Sierra 10.13.6
##
## Matrix products: default
## BLAS:   /Library/Frameworks/R.framework/Versions/3.6/Resources/lib/libRblas.0.dylib
## LAPACK: /Library/Frameworks/R.framework/Versions/3.6/Resources/lib/libRlapack.dylib
##
## locale:
## [1] en_US.UTF-8/en_US.UTF-8/en_US.UTF-8/C/en_US.UTF-8/en_US.UTF-8
##
## attached base packages:
## [1] stats     graphics  grDevices utils     datasets  methods   base
##
## other attached packages:
##  [1] dslabs_0.7.1     magrittr_1.5     kableExtra_1.1.0 knitr_1.24
##  [5] forcats_0.4.0    stringr_1.4.0    dplyr_0.8.3      purrr_0.3.2
##  [9] readr_1.3.1      tidyr_0.8.3      tibble_2.1.3     ggplot2_3.2.1
## [13] tidyverse_1.2.1
##
## loaded via a namespace (and not attached):
##  [1] Rcpp_1.0.2       cellranger_1.1.0 pillar_1.4.2
##  [4] compiler_3.6.1   tools_3.6.1      zeallot_0.1.0
##  [7] digest_0.6.20    viridisLite_0.3.0 lubridate_1.7.4
## [10] jsonlite_1.6     evaluate_0.14    nlme_3.1-140
## [13] gtable_0.3.0     lattice_0.20-38  pkgconfig_2.0.2
## [16] rlang_0.4.0      cli_1.1.0        rstudioapi_0.10
## [19] yaml_2.2.0       haven_2.1.1      xfun_0.9
## [22] withr_2.1.2      xml2_1.2.2       httr_1.4.1
## [25] vctrs_0.2.0      generics_0.0.2   hms_0.5.1
## [28] webshot_0.5.1    grid_3.6.1       tidyselect_0.2.5
## [31] glue_1.3.1       R6_2.4.0         readxl_1.3.1
## [34] rmarkdown_1.15   modelr_0.1.5     backports_1.1.4
## [37] scales_1.0.0     htmltools_0.4.0  rvest_0.3.4
## [40] assertthat_0.2.1 colorspace_1.4-1 stringi_1.4.3
## [43] lazyeval_0.2.2   munsell_0.5.0    broom_0.5.2
## [46] crayon_1.3.4
```

References

Irizarry, Rafael A., and Amy Gill. 2019. *Dslabs: Data Science Labs.*

R Core Team. 2019. *R: A Language and Environment for Statistical Computing.* Vienna, Austria: R Foundation for Statistical Computing. https://www.R-project.org/.