Summary Graphs of NUTR630 Intake

Dave Bridges, Liv Anderson and Rina Hisamatsu 2017-09-03

Contents

| Analysis What Majors | |
|-----------------------------------------------------------------------------------------------------------------------------------------|------------------|
| GradeCraft Familiarity | 5 |
| Session Information | 5 |
| library(readr) filename <- 'https://docs.google.com/spreadsheets/d/e/2PACX-1vSDRxu3Ur53iZVsg5Gg9nArNiE data <- read_csv(filename) | KY2-xguRzoeW1-wQ |

These data can be found in /Users/davebrid/Documents/GitHub/TeachingLectures/Michigan/NUTR630/Evaluation/Pre-Semester Survey/2018 in a file named https://docs.google.com/spreadsheets/d/e/2PACX-1vSDRxu3Ur53iZVsg5Gg9nArNiKY2-SU6dmcBTgb-cQiY/pub?gid=830256665&single=true&output=csv. This script was most recently updated on Mon Sep 3 10:49:39 2018.

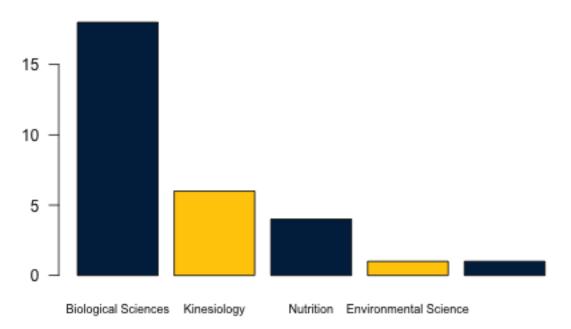
Analysis

What Majors

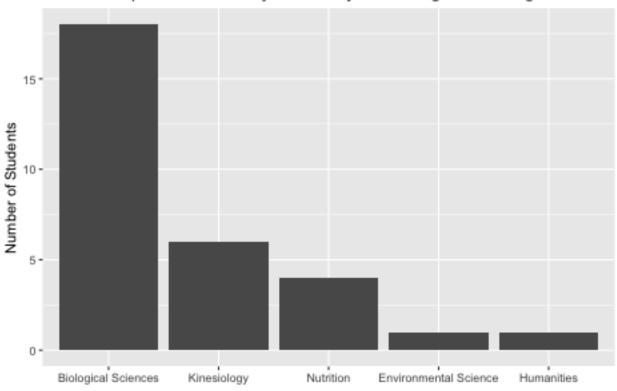
```
library(forcats)
#grouped with most common 4
count.majors <-</pre>
  data %>%
  mutate(`Which discipline most closely matches your undergraduate degree?` = fct_lump(as.factor(data$`)
  mutate(`Which discipline most closely matches your undergraduate degree?` =
           fct_recode(`Which discipline most closely matches your undergraduate degree?`,
                      "Neuroscience" = "Psychology-related (Psychology, Neuroscience, etc.)",
                      "Nutrition" = "Food Quality & Safety",
                      "Nutrition" = "Nutrition & dietetics (minor in biology)",
                      "Nutrition" = "Dietetics",
                      "Biological Sciences" = "Biochemistry")) %>%
  group_by(`Which discipline most closely matches your undergraduate degree?`) %>%
  count() %>%
  arrange(desc(n))
with(count.majors, barplot(n,
                          cex.names=0.75,
                          main="What was your major?",
                          col=color.scheme,
```

library(ggplot2)

What was your major?



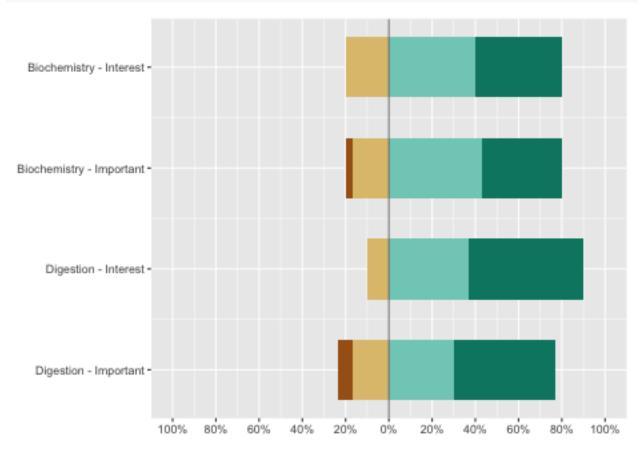
Which discipline most closely matches your undergraduate degree?



What Topics are Students Interested In?

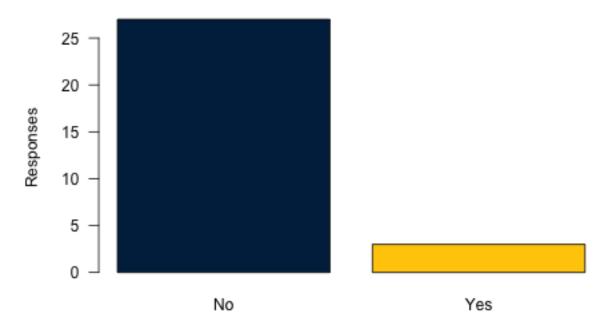
```
library(sjPlot)
student.interest.data <-
  data %>%
  select(starts_with('Please answer these questions about your interests')) %>%
  rename("Biochemistry - Interest" = "Please answer these questions about your interests [Macronutrient
         "Biochemistry - Important" = "Please answer these questions about your interests [Macronutrien
         "Digestion - Interest" = "Please answer these questions about your interests [Comprehensive un
         "Digestion - Important" = "Please answer these questions about your interests [Comprehensive u.
  mutate(`Biochemistry - Interest`= fct_recode(`Biochemistry - Interest`,
                                                  '1'="Strongly Agree",
                                                  '2'="Agree",
                                                  '3'="Neutral",
                                                  '4'="Disagree",
                                                  '5'="Strongly Disagree")) %>%
  mutate(`Biochemistry - Important`= fct_recode(`Biochemistry - Important`,
                                                  '1'="Strongly Agree",
                                                  '2'="Agree",
                                                  '3'="Neutral"
                                                  '4'="Disagree",
                                                  '5'="Strongly Disagree")) %>%
   mutate(`Digestion - Interest`= fct_recode(`Digestion - Interest`,
```

```
'1'="Strongly Agree",
                                                  '2'="Agree",
                                                  '3'="Neutral",
                                                  '4'="Disagree",
                                                  '5'="Strongly Disagree")) %>%
     mutate(`Digestion - Important`= fct_recode(`Digestion - Important`,
                                                  '1'="Strongly Agree",
                                                  '2'="Agree",
                                                  '3'="Neutral",
                                                  '4'="Disagree",
                                                  '5'="Strongly Disagree")) %>%
  mutate(`Biochemistry - Interest`=as.numeric(as.character(`Biochemistry - Interest`))) %>%
 mutate(`Biochemistry - Important`=as.numeric(as.character(`Biochemistry - Important`))) %>%
  mutate(`Digestion - Interest`=as.numeric(as.character(`Digestion - Interest`))) %>%
  mutate(`Digestion - Important`=as.numeric(as.character(`Digestion - Important`)))
plot_likert(student.interest.data,
           sort.frq=NULL,
           values='hide',
           reverse.colors=TRUE,
           show.legend=FALSE,
           show.n=FALSE)
```



GradeCraft Familiarity

Are you familiar with GradeCraft?



Only 3 out of 30 students were familiar with GradeCraft.

Session Information

```
## R version 3.5.0 (2018-04-23)
## 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/3.5/Resources/lib/libRblas.0.dylib
## LAPACK: /Library/Frameworks/R.framework/Versions/3.5/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:
                      ggplot2_3.0.0 bindrcpp_0.2.2 forcats_0.3.0
## [1] sjPlot_2.6.0
## [5] readr_1.1.1
                      dplyr_0.7.6
                                     tidyr_0.8.1
                                                    knitr 1.20
##
## loaded via a namespace (and not attached):
## [1] splines_3.5.0
                           carData_3.0-1
                                              modelr_0.1.2
## [4] assertthat_0.2.0
                           stats4_3.5.0
                                              coin_1.2-2
## [7] yaml 2.2.0
                           pillar 1.3.0
                                              backports 1.1.2
## [10] lattice_0.20-35
                           glue_1.3.0
                                              digest_0.6.16
## [13] RColorBrewer 1.1-2 glmmTMB 0.2.2.0
                                              snakecase 0.9.2
## [16] minqa_1.2.4
                           colorspace_1.3-2
                                              sandwich_2.5-0
## [19] psych_1.8.4
                           htmltools_0.3.6
                                              Matrix 1.2-14
## [22] survey_3.33-2
                           plyr_1.8.4
                                              pkgconfig_2.0.2
                                              purrr_0.2.5
## [25] broom 0.5.0
                           haven 1.1.2
## [28] xtable 1.8-2
                           mvtnorm_1.0-8
                                              scales 1.0.0
## [31] stringdist_0.9.5.1 lme4_1.1-18-1
                                              emmeans 1.2.3
## [34] tibble_1.4.2
                           effects_4.0-3
                                              bayesplot_1.6.0
## [37] sjlabelled_1.0.13
                          TH.data_1.0-9
                                              withr_2.1.2
## [40] TMB_1.7.14
                           nnet_7.3-12
                                              lazyeval_0.2.1
## [43] mnormt_1.5-5
                           survival_2.42-6
                                              magrittr_1.5
## [46] crayon_1.3.4
                           estimability_1.3
                                              evaluate_0.11
## [49] nlme_3.1-137
                           MASS_7.3-50
                                              foreign_0.8-71
## [52] tools_3.5.0
                           data.table_1.11.4
                                              hms_0.4.2
## [55] multcomp_1.4-8
                           stringr_1.3.1
                                              munsell_0.5.0
## [58] prediction 0.3.6
                           ggeffects 0.5.0
                                              compiler 3.5.0
## [61] rlang_0.2.2
                           grid_3.5.0
                                              nloptr_1.0.4
## [64] ggridges 0.5.0
                           labeling 0.3
                                              rmarkdown 1.10
## [67] gtable_0.2.0
                           codetools_0.2-15
                                              sjstats_0.17.0
## [70] curl_3.2
                           sjmisc_2.7.4
                                              R6_2.2.2
## [73] zoo_1.8-3
                                              bindr_0.1.1
                           pwr_1.2-2
## [76] rprojroot 1.3-2
                           modeltools_0.2-22 stringi_1.2.4
## [79] parallel_3.5.0
                           Rcpp_0.12.18
                                              tidyselect_0.2.4
## [82] coda_0.19-1
```