Table 2

Gerko Vink

Mean score and prevalence^^ of Responsible Research Practices (RRP), Falsification, and Fabrication stratified by Disciplinary Field and Academic Rank withput NA

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# Packages used

For this document we use the following packages

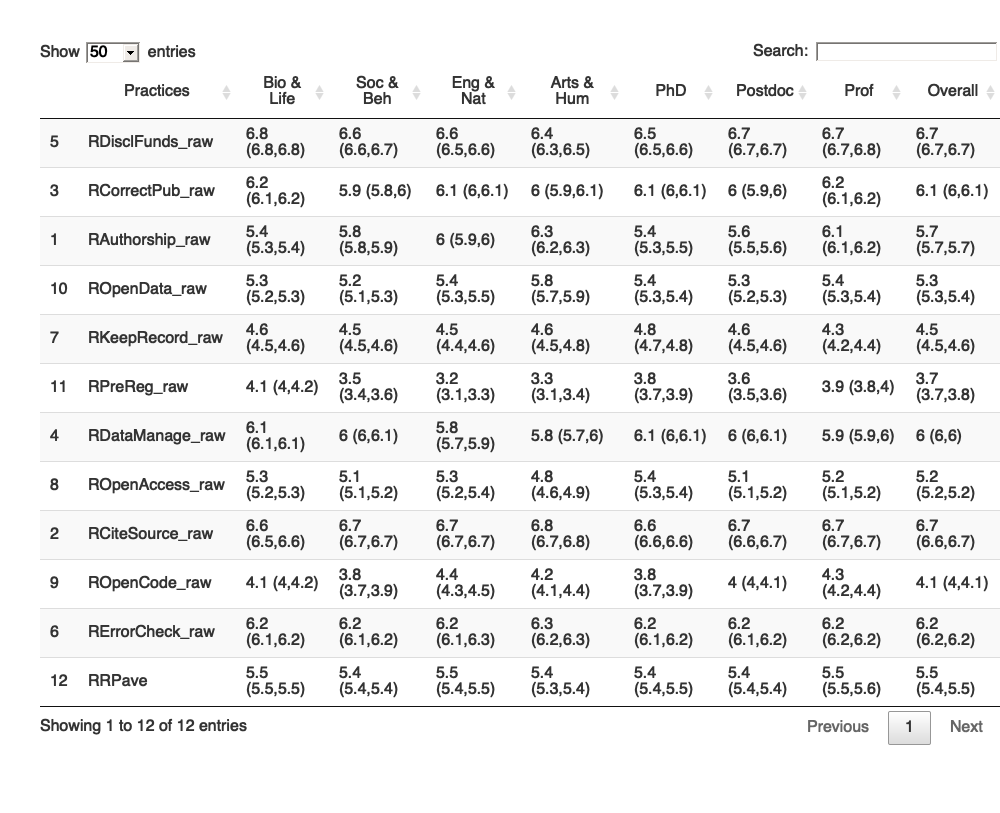
library(dplyr) # Data manipulation  
library(mice) # Data imputation  
library(magrittr) # Pipes  
library(purrr) # Functional programming  
library(haven) # Import data  
library(DT) # Interactive tables  
library(ggplot2) # Plotting device  
library(reshape2) # Data shaping  
library(labelled) # Advanced labelling  
library(psych) # Descriptive tables  
library(tibble) # Tibbles  
library(RRreg) # Randomized Response

# Load the data

load(file = "../../Workspaces/5. Preparation Imputed Datasets.Rdata")  
options(DT.options = list(pageLength = 50)) # table options

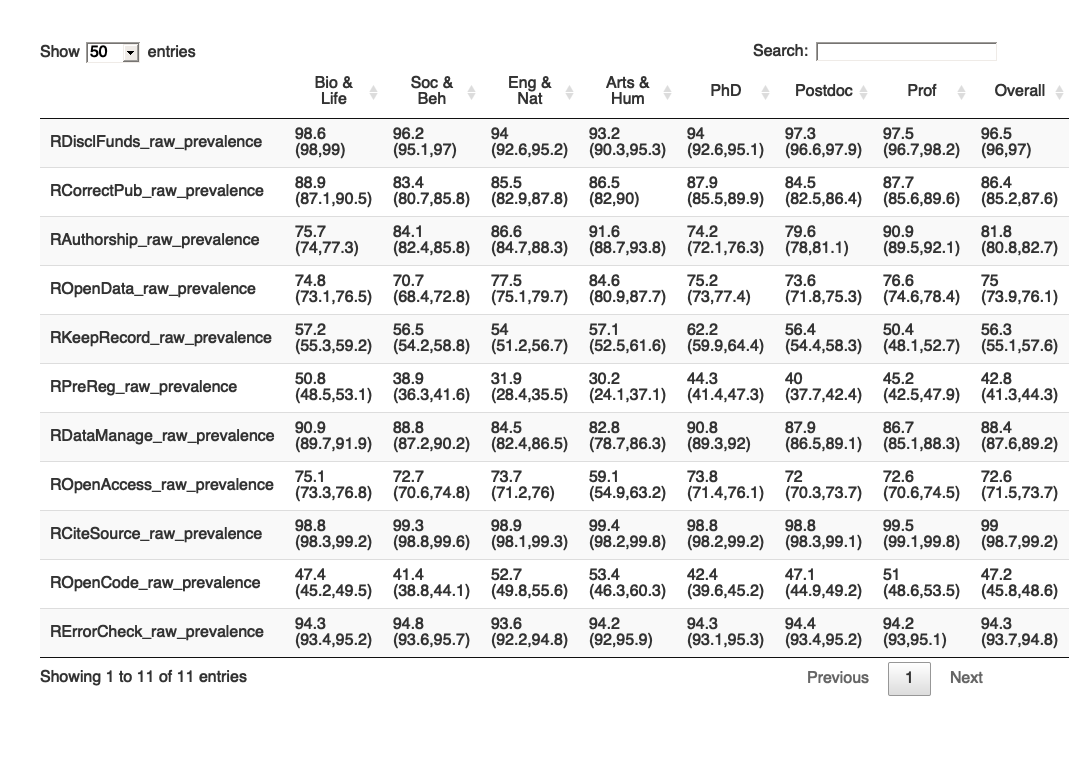
## Means without NA

## No id variables; using all as measure variables



## Practices Bio & Life Soc & Beh Eng & Nat Arts & Hum  
## 5 RDisclFunds\_raw 6.8 (6.8,6.8) 6.6 (6.6,6.7) 6.6 (6.5,6.6) 6.4 (6.3,6.5)  
## 3 RCorrectPub\_raw 6.2 (6.1,6.2) 5.9 (5.8,6) 6.1 (6,6.1) 6 (5.9,6.1)  
## 1 RAuthorship\_raw 5.4 (5.3,5.4) 5.8 (5.8,5.9) 6 (5.9,6) 6.3 (6.2,6.3)  
## 10 ROpenData\_raw 5.3 (5.2,5.3) 5.2 (5.1,5.3) 5.4 (5.3,5.5) 5.8 (5.7,5.9)  
## 7 RKeepRecord\_raw 4.6 (4.5,4.6) 4.5 (4.5,4.6) 4.5 (4.4,4.6) 4.6 (4.5,4.8)  
## 11 RPreReg\_raw 4.1 (4,4.2) 3.5 (3.4,3.6) 3.2 (3.1,3.3) 3.3 (3.1,3.4)  
## 4 RDataManage\_raw 6.1 (6.1,6.1) 6 (6,6.1) 5.8 (5.7,5.9) 5.8 (5.7,6)  
## 8 ROpenAccess\_raw 5.3 (5.2,5.3) 5.1 (5.1,5.2) 5.3 (5.2,5.4) 4.8 (4.6,4.9)  
## 2 RCiteSource\_raw 6.6 (6.5,6.6) 6.7 (6.7,6.7) 6.7 (6.7,6.7) 6.8 (6.7,6.8)  
## 9 ROpenCode\_raw 4.1 (4,4.2) 3.8 (3.7,3.9) 4.4 (4.3,4.5) 4.2 (4.1,4.4)  
## 6 RErrorCheck\_raw 6.2 (6.1,6.2) 6.2 (6.1,6.2) 6.2 (6.1,6.3) 6.3 (6.2,6.3)  
## 12 RRPave 5.5 (5.5,5.5) 5.4 (5.4,5.4) 5.5 (5.4,5.5) 5.4 (5.3,5.4)  
## PhD Postdoc Prof Overall  
## 5 6.5 (6.5,6.6) 6.7 (6.7,6.7) 6.7 (6.7,6.8) 6.7 (6.7,6.7)  
## 3 6.1 (6,6.1) 6 (5.9,6) 6.2 (6.1,6.2) 6.1 (6,6.1)  
## 1 5.4 (5.3,5.5) 5.6 (5.5,5.6) 6.1 (6.1,6.2) 5.7 (5.7,5.7)  
## 10 5.4 (5.3,5.4) 5.3 (5.2,5.3) 5.4 (5.3,5.4) 5.3 (5.3,5.4)  
## 7 4.8 (4.7,4.8) 4.6 (4.5,4.6) 4.3 (4.2,4.4) 4.5 (4.5,4.6)  
## 11 3.8 (3.7,3.9) 3.6 (3.5,3.6) 3.9 (3.8,4) 3.7 (3.7,3.8)  
## 4 6.1 (6,6.1) 6 (6,6.1) 5.9 (5.9,6) 6 (6,6)  
## 8 5.4 (5.3,5.4) 5.1 (5.1,5.2) 5.2 (5.1,5.2) 5.2 (5.2,5.2)  
## 2 6.6 (6.6,6.6) 6.7 (6.6,6.7) 6.7 (6.7,6.7) 6.7 (6.6,6.7)  
## 9 3.8 (3.7,3.9) 4 (4,4.1) 4.3 (4.2,4.4) 4.1 (4,4.1)  
## 6 6.2 (6.1,6.2) 6.2 (6.1,6.2) 6.2 (6.2,6.2) 6.2 (6.2,6.2)  
## 12 5.4 (5.4,5.5) 5.4 (5.4,5.4) 5.5 (5.5,5.6) 5.5 (5.4,5.5)

## Prevalence of RRP items (RRP > 4) without NA’s in total

Prevalences are not affected as RRP prevalence is only considered for values (5, 6 and 7) 

## Bio & Life Soc & Beh Eng & Nat  
## RDisclFunds\_raw\_prevalence 98.6 (98,99) 96.2 (95.1,97) 94 (92.6,95.2)  
## RCorrectPub\_raw\_prevalence 88.9 (87.1,90.5) 83.4 (80.7,85.8) 85.5 (82.9,87.8)  
## RAuthorship\_raw\_prevalence 75.7 (74,77.3) 84.1 (82.4,85.8) 86.6 (84.7,88.3)  
## ROpenData\_raw\_prevalence 74.8 (73.1,76.5) 70.7 (68.4,72.8) 77.5 (75.1,79.7)  
## RKeepRecord\_raw\_prevalence 57.2 (55.3,59.2) 56.5 (54.2,58.8) 54 (51.2,56.7)  
## RPreReg\_raw\_prevalence 50.8 (48.5,53.1) 38.9 (36.3,41.6) 31.9 (28.4,35.5)  
## RDataManage\_raw\_prevalence 90.9 (89.7,91.9) 88.8 (87.2,90.2) 84.5 (82.4,86.5)  
## ROpenAccess\_raw\_prevalence 75.1 (73.3,76.8) 72.7 (70.6,74.8) 73.7 (71.2,76)  
## RCiteSource\_raw\_prevalence 98.8 (98.3,99.2) 99.3 (98.8,99.6) 98.9 (98.1,99.3)  
## ROpenCode\_raw\_prevalence 47.4 (45.2,49.5) 41.4 (38.8,44.1) 52.7 (49.8,55.6)  
## RErrorCheck\_raw\_prevalence 94.3 (93.4,95.2) 94.8 (93.6,95.7) 93.6 (92.2,94.8)  
## Arts & Hum PhD Postdoc  
## RDisclFunds\_raw\_prevalence 93.2 (90.3,95.3) 94 (92.6,95.1) 97.3 (96.6,97.9)  
## RCorrectPub\_raw\_prevalence 86.5 (82,90) 87.9 (85.5,89.9) 84.5 (82.5,86.4)  
## RAuthorship\_raw\_prevalence 91.6 (88.7,93.8) 74.2 (72.1,76.3) 79.6 (78,81.1)  
## ROpenData\_raw\_prevalence 84.6 (80.9,87.7) 75.2 (73,77.4) 73.6 (71.8,75.3)  
## RKeepRecord\_raw\_prevalence 57.1 (52.5,61.6) 62.2 (59.9,64.4) 56.4 (54.4,58.3)  
## RPreReg\_raw\_prevalence 30.2 (24.1,37.1) 44.3 (41.4,47.3) 40 (37.7,42.4)  
## RDataManage\_raw\_prevalence 82.8 (78.7,86.3) 90.8 (89.3,92) 87.9 (86.5,89.1)  
## ROpenAccess\_raw\_prevalence 59.1 (54.9,63.2) 73.8 (71.4,76.1) 72 (70.3,73.7)  
## RCiteSource\_raw\_prevalence 99.4 (98.2,99.8) 98.8 (98.2,99.2) 98.8 (98.3,99.1)  
## ROpenCode\_raw\_prevalence 53.4 (46.3,60.3) 42.4 (39.6,45.2) 47.1 (44.9,49.2)  
## RErrorCheck\_raw\_prevalence 94.2 (92,95.9) 94.3 (93.1,95.3) 94.4 (93.4,95.2)  
## Prof Overall  
## RDisclFunds\_raw\_prevalence 97.5 (96.7,98.2) 96.5 (96,97)  
## RCorrectPub\_raw\_prevalence 87.7 (85.6,89.6) 86.4 (85.2,87.6)  
## RAuthorship\_raw\_prevalence 90.9 (89.5,92.1) 81.8 (80.8,82.7)  
## ROpenData\_raw\_prevalence 76.6 (74.6,78.4) 75 (73.9,76.1)  
## RKeepRecord\_raw\_prevalence 50.4 (48.1,52.7) 56.3 (55.1,57.6)  
## RPreReg\_raw\_prevalence 45.2 (42.5,47.9) 42.8 (41.3,44.3)  
## RDataManage\_raw\_prevalence 86.7 (85.1,88.3) 88.4 (87.6,89.2)  
## ROpenAccess\_raw\_prevalence 72.6 (70.6,74.5) 72.6 (71.5,73.7)  
## RCiteSource\_raw\_prevalence 99.5 (99.1,99.8) 99 (98.7,99.2)  
## ROpenCode\_raw\_prevalence 51 (48.6,53.5) 47.2 (45.8,48.6)  
## RErrorCheck\_raw\_prevalence 94.2 (93,95.1) 94.3 (93.7,94.8)

# Session Info

sessionInfo()

## R version 4.1.0 (2021-05-18)  
## Platform: x86\_64-apple-darwin17.0 (64-bit)  
## Running under: macOS Big Sur 10.16  
##   
## Matrix products: default  
## BLAS: /Library/Frameworks/R.framework/Versions/4.1/Resources/lib/libRblas.dylib  
## LAPACK: /Library/Frameworks/R.framework/Versions/4.1/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] RRreg\_0.7.1 tibble\_3.1.2 psych\_2.1.3 labelled\_2.8.0 reshape2\_1.4.4  
## [6] ggplot2\_3.3.4 DT\_0.18 haven\_2.4.1 purrr\_0.3.4 magrittr\_2.0.1  
## [11] mice\_3.13.0 dplyr\_1.0.6   
##   
## loaded via a namespace (and not attached):  
## [1] sass\_0.4.0 tidyr\_1.1.3 jsonlite\_1.7.2 splines\_4.1.0   
## [5] foreach\_1.5.1 tmvnsim\_1.0-2 bslib\_0.2.5.1 assertthat\_0.2.1   
## [9] highr\_0.9 yaml\_2.2.1 pillar\_1.6.1 backports\_1.2.1   
## [13] lattice\_0.20-44 glue\_1.4.2 digest\_0.6.27 minqa\_1.2.4   
## [17] colorspace\_2.0-1 htmltools\_0.5.1.1 Matrix\_1.3-3 plyr\_1.8.6   
## [21] pkgconfig\_2.0.3 broom\_0.7.7 scales\_1.1.1 webshot\_0.5.2   
## [25] processx\_3.5.2 lme4\_1.1-27 generics\_0.1.0 ellipsis\_0.3.2   
## [29] withr\_2.4.2 mnormt\_2.0.2 crayon\_1.4.1 evaluate\_0.14   
## [33] ps\_1.6.0 fansi\_0.5.0 doParallel\_1.0.16 nlme\_3.1-152   
## [37] MASS\_7.3-54 forcats\_0.5.1 tools\_4.1.0 hms\_1.1.0   
## [41] lifecycle\_1.0.0 stringr\_1.4.0 munsell\_0.5.0 callr\_3.7.0   
## [45] compiler\_4.1.0 jquerylib\_0.1.4 rlang\_0.4.11 grid\_4.1.0   
## [49] nloptr\_1.2.2.2 iterators\_1.0.13 htmlwidgets\_1.5.3 crosstalk\_1.1.1   
## [53] rmarkdown\_2.9 boot\_1.3-28 gtable\_0.3.0 codetools\_0.2-18   
## [57] DBI\_1.1.1 R6\_2.5.0 knitr\_1.33 utf8\_1.2.1   
## [61] stringi\_1.6.2 parallel\_4.1.0 Rcpp\_1.0.6 vctrs\_0.3.8   
## [65] tidyselect\_1.1.1 xfun\_0.23

# Document info

Signed: [Gerko Vink](https://www.gerkovink.com),

timestamp()

## ##------ Thu Jul 1 21:37:24 2021 ------##

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