Proportions

Me

3/22/2018

table(master$mention.outliers)

##   
## no yes   
## 1777 457

master$mention.outliers = factor(master$mention.outliers,  
 levels = c("no", "yes"),  
 labels = c("No", "Yes"))  
  
##create a data frame of the percentages  
outsummary = table(master$mention.outliers, master$time.pulled, master$Type)  
outsummary = as.data.frame(outsummary)  
colnames(outsummary) = c("mention.outliers", "time.pulled", "Type", "Freq")  
  
##here we want to calculate if they mention outliers by year and type  
##want to focus on the yeses   
library(dplyr)

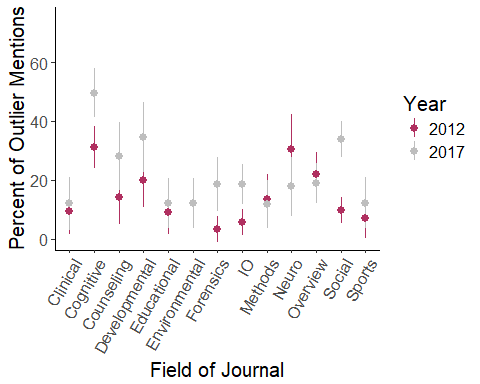
##   
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':  
##   
## filter, lag

## The following objects are masked from 'package:base':  
##   
## intersect, setdiff, setequal, union

outpercent = group\_by(outsummary, time.pulled, Type) %>%  
 mutate(percent = Freq/sum(Freq)\*100)  
  
##in the outpercent table, you see the percent based on year and Type, so each yes/no combination adds up to one hundred. We are only interested in the percent of yeses.

library(ggplot2)  
  
cleanup = theme(panel.grid.major = element\_blank(),   
 panel.grid.minor = element\_blank(),   
 panel.background = element\_blank(),   
 axis.line = element\_line(colour = "black"),   
 legend.key = element\_rect(fill = "white"),  
 text = element\_text(size = 15))  
  
graphdata = subset(outpercent, mention.outliers == "Yes")  
  
#calculate CIs to add to graph  
graphdata$sample = as.data.frame(table(master$time.pulled, master$Type))$Freq  
graphdata$SE = sqrt(graphdata$percent\*(100-graphdata$percent)/graphdata$sample)  
  
dotplot = ggplot(graphdata, aes(Type, percent, color = time.pulled))  
dotplot +  
 geom\_pointrange(aes(ymin=percent-1.96\*SE, ymax=percent+1.96\*SE))+   
 cleanup +  
 xlab("Field of Journal") +  
 ylab("Percent of Outlier Mentions") +   
 theme(axis.text.x = element\_text(angle = 60, hjust = 1)) +  
 scale\_color\_manual(name = "Year",   
 values = c("maroon", "gray")) +   
 coord\_cartesian(ylim = c(0,75))



library(MOTE)  
graphdata$prop = graphdata$percent/100  
types = levels(graphdata$Type)  
for (i in 1:length(types))  
{  
 saved = d.prop(graphdata$prop[graphdata$Type==types[i]][1],  
 graphdata$prop[graphdata$Type==types[i]][2],  
 graphdata$sample[ graphdata$Type==types[i]][1],   
 graphdata$sample[ graphdata$Type==types[i]][2],  
 a = .05)   
 print(c(types[i],saved$d))  
}

## [1] "Clinical" "-0.263782450027613"  
## [1] "Cognitive" "-2.92984621220425"  
## [1] "Counseling" "-1.6612937182656"  
## [1] "Developmental" "-1.47576339409799"  
## [1] "Educational" "-0.478369444308136"  
## [1] "Environmental" "0"   
## [1] "Forensics" "-2.55802105100494"  
## [1] "IO" "-2.79054827280216"  
## [1] "Methods" "0.413111649160499"  
## [1] "Neuro" "1.60033037768811"  
## [1] "Overview" "0.105361831890563"  
## [1] "Social" "-6.641276236343"  
## [1] "Sports" "-0.752138477678703"

master$reason.code

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## [2171] unusable data   
## [2172] statistical reason   
## [2173] participant error   
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## [2175] statistical reason   
## [2176] statistical reason   
## [2177] statistical reason   
## [2178] participant error   
## [2179] participant error   
## [2180] participant error   
## [2181] statistical reason   
## [2182] statistical reason   
## [2183] statistical reason   
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## [2196] participant error, experimenter error   
## [2197] participant error, statistical reason   
## [2198] participant error   
## [2199] participant error, experimenter error   
## [2200] statistical reason   
## [2201] statistical reason   
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## [2203] statistical reason   
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## [2208] statistical reason   
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## [2229] statistical reason   
## [2230] statistical reason   
## [2231] statistical reason   
## [2232] participant error   
## [2233] participant error   
## [2234] participant error   
## 11 Levels: participant error ... unusable data

table(master$reason.code)

##   
##   
## 1776   
## participant error   
## 166   
## participant error, experimenter error   
## 8   
## participant error, statistical reason   
## 45   
## participant error, statistical reasons   
## 1   
## participant error, unusable data   
## 1   
## statistical reason   
## 207   
## statistical reason, experimenter error   
## 1   
## statistical reason, participant error   
## 10   
## statistical reason, unusable data   
## 1   
## unusable data   
## 18

reasons = subset(master, mention.outliers == "Yes")  
  
##create reason columns  
reasons$part = 0  
reasons$part[ grep("part", reasons$reason.code)] = 1  
reasons$stat = 0  
reasons$stat[ grep("stat", reasons$reason.code)] = 1  
reasons$exp = 0  
reasons$exp[ grep("unus", reasons$reason.code)] = 1  
  
##create a data frame of the percentages  
reasonssummary = table(reasons$part, reasons$time.pulled, reasons$Type)  
reasonssummary = as.data.frame(reasonssummary)  
colnames(reasonssummary) = c("yesno", "time.pulled", "Type", "part.freq")  
reasonssummary$stat.freq = as.data.frame(table(reasons$stat, reasons$time.pulled, reasons$Type))$Freq  
reasonssummary$exp.freq = as.data.frame(table(reasons$exp, reasons$time.pulled, reasons$Type))$Freq  
  
reasonspercent = group\_by(reasonssummary, time.pulled, Type) %>%  
 mutate(part.percent = part.freq/sum(part.freq)\*100) %>%  
 mutate(stat.percent = stat.freq/sum(stat.freq)\*100) %>%  
 mutate(exp.percent = exp.freq/sum(exp.freq)\*100)   
  
#only include the percent of 1s

peep\_data = subset(master, mention.outliers == "Yes")  
table(peep\_data$peopleor.data.points)

##   
## both data points none found people   
## 0 27 114 13 303

##create a data frame of the percentages  
peep\_datasummary = table(peep\_data$peopleor.data.points, peep\_data$time.pulled, peep\_data$Type)  
peep\_datasummary = as.data.frame(peep\_datasummary)  
colnames(peep\_datasummary) = c("code", "time.pulled", "Type", "Freq")  
  
peep\_datapercent = group\_by(peep\_datasummary, time.pulled, Type) %>%  
 mutate(percent = Freq/sum(Freq)\*100)

##if they are doing basic statistics so equals 1 how many times do they mention outliers yes/no by year   
library(reshape)

##   
## Attaching package: 'reshape'

## The following object is masked from 'package:dplyr':  
##   
## rename

analyses = master[ , c(3, 4, 10, 20:26)]  
longanalyses = melt(analyses,  
 id = c("time.pulled", "Type", "mention.outliers"))  
colnames(longanalyses)[4:5] = c("analysis.type", "used")  
  
longanalyses = subset(longanalyses, used == 1)  
  
##create a data frame of the percentages  
analysessummary = table(longanalyses$mention.outliers, longanalyses$time.pulled, longanalyses$analysis.type)  
analysessummary = as.data.frame(analysessummary)  
colnames(analysessummary) = c("mention.outliers", "time.pulled", "analysis.type", "Freq")  
  
analysespercent = group\_by(analysessummary, time.pulled, analysis.type) %>%  
 mutate(percent = Freq/sum(Freq)\*100)  
  
graphdata = subset(analysespercent, mention.outliers == "Yes")  
  
#calculate CIs to add to graph  
graphdata$sample = as.data.frame(table(longanalyses$time.pulled, longanalyses$analysis.type))$Freq  
graphdata$SE = sqrt(graphdata$percent\*(100-graphdata$percent)/graphdata$sample)  
  
dotplot2 = ggplot(graphdata, aes(analysis.type, percent, color = time.pulled))  
dotplot2 +  
 geom\_pointrange(aes(ymin=percent-1.96\*SE, ymax=percent+1.96\*SE))+   
 cleanup +  
 xlab("Type of Analysis") +  
 ylab("Percent of Outlier Mentions") +   
 theme(axis.text.x = element\_text(angle = 60, hjust = 1)) +  
 scale\_color\_manual(name = "Year",   
 values = c("maroon", "gray")) +   
 coord\_cartesian(ylim = c(0,50))

