MACodingTransparency_Code

ANONYMIZED FOR REVIEW

8/8/2018

Code corresponding to analysis and figures in MA transparency paper

Descriptive analyses and stats reported in results section

```
#pubYear
summary(ma_data_long$DoP)
```

```
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##    1990    1996    2004    2004    2011    2017
```

```
#revSize
summary(as.numeric(as.character(ma_sum_all$Review_Size)))
```

```
## Warning in summary(as.numeric(as.character(ma_sum_all$Review_Size))): NAs
## introduced by coercion
```

```
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.    NA's
##    12.0    47.0    76.5   125.3   130.2  1753.0       1
```

```
#Type
table(ma_data_ana$MA_Type)
```

```
##
##       correlation      experimental group differences
##                57                      54                      44
```

```
#protocolyear
ma_data_ana$DoP[ma_data_ana$Protocol =="y"]
```

```
## [1] 2017 2008 2000
```

```
#1995/2015 pc
mean(ma_byyear_cont_all$pc[ma_byyear_cont_all$DoP==1995])
```

```
## [1] 48.62637
```

```
mean(ma_byyear_cont_all$pc[ma_byyear_cont_all$DoP==2015])
```

```
## [1] 63.09524
```

```
mean(ma_sum_all$pc)
```

```
## [1] 55.33799
```

```
sd(ma_sum_all$pc)
```

```
## [1] 13.59114
```

```
mean(ma_sum_corr$pc)
```

```
## [1] 56.23327
```

```r
sd(ma_sum_corr$pc)
```

```
## [1] 13.74812
```

```r
mean(ma_sum_exp$pc)
```

```
## [1] 54.09035
```

```r
sd(ma_sum_exp$pc)
```

```
## [1] 14.09611
```

```r
mean(ma_sum_group$pc)
```

```
## [1] 55.67108
```

```r
sd(ma_sum_group$pc)
```

```
## [1] 13.27985
```

```r
lm.all <- lm(pc ~ MA_Type*DoP*as.numeric(as.character(Review_Size)), data = ma_all_predictors)
```

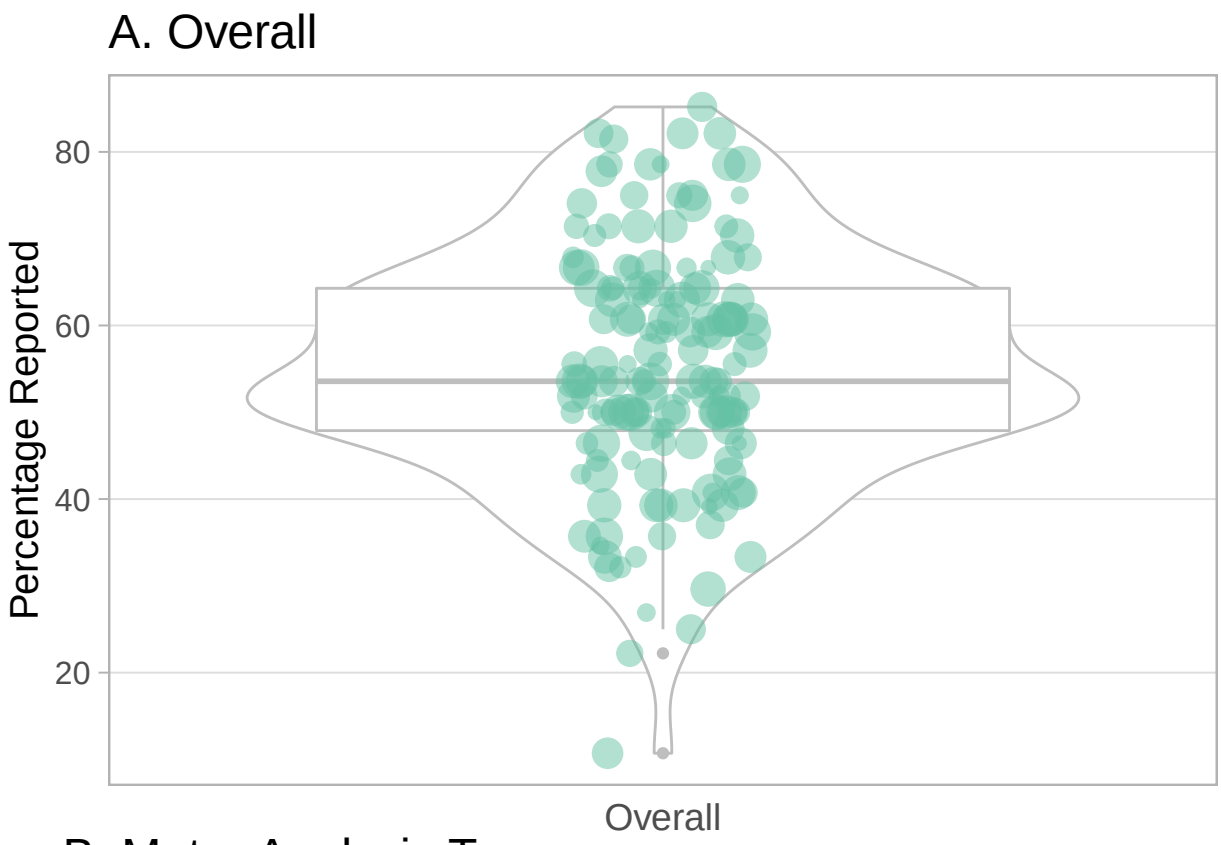
```
## Warning in eval(predvars, data, env): NAs introduced by coercion
```

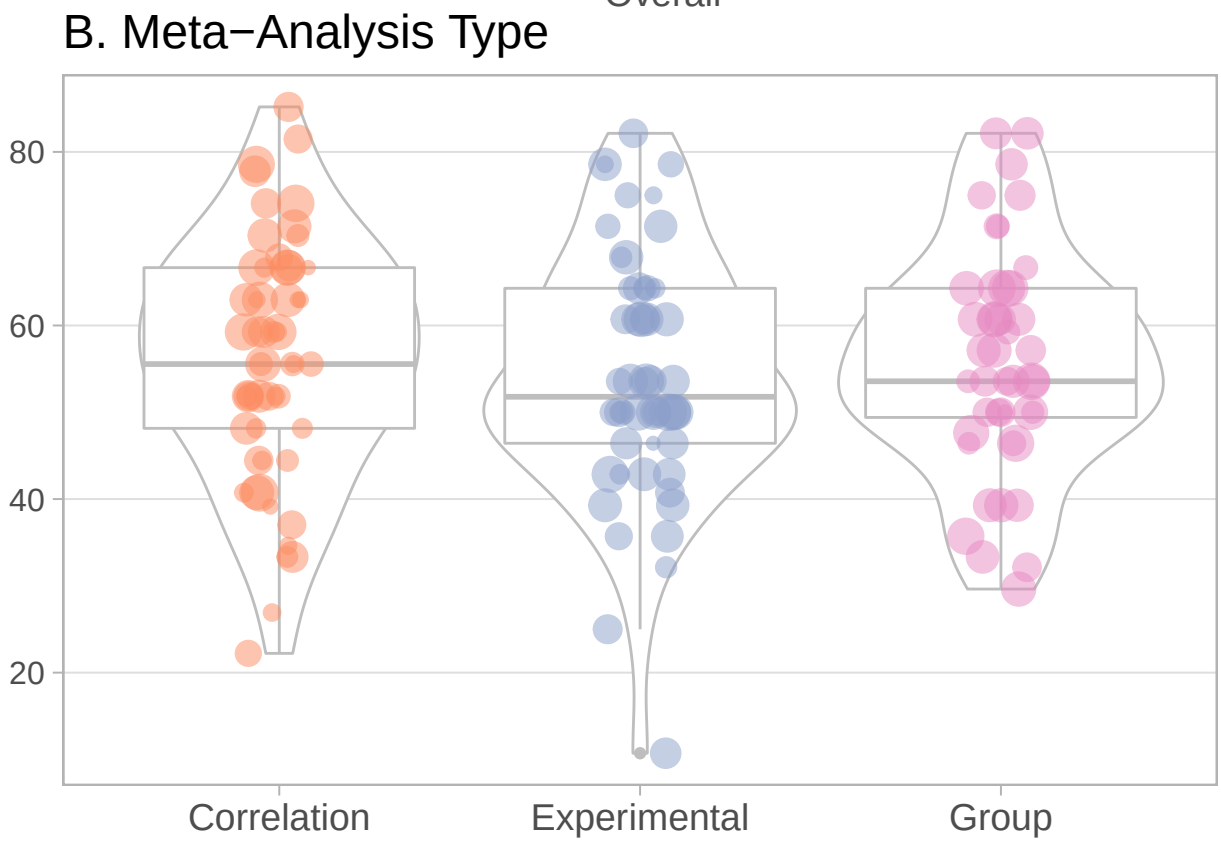
```r
summary(lm.all)
```

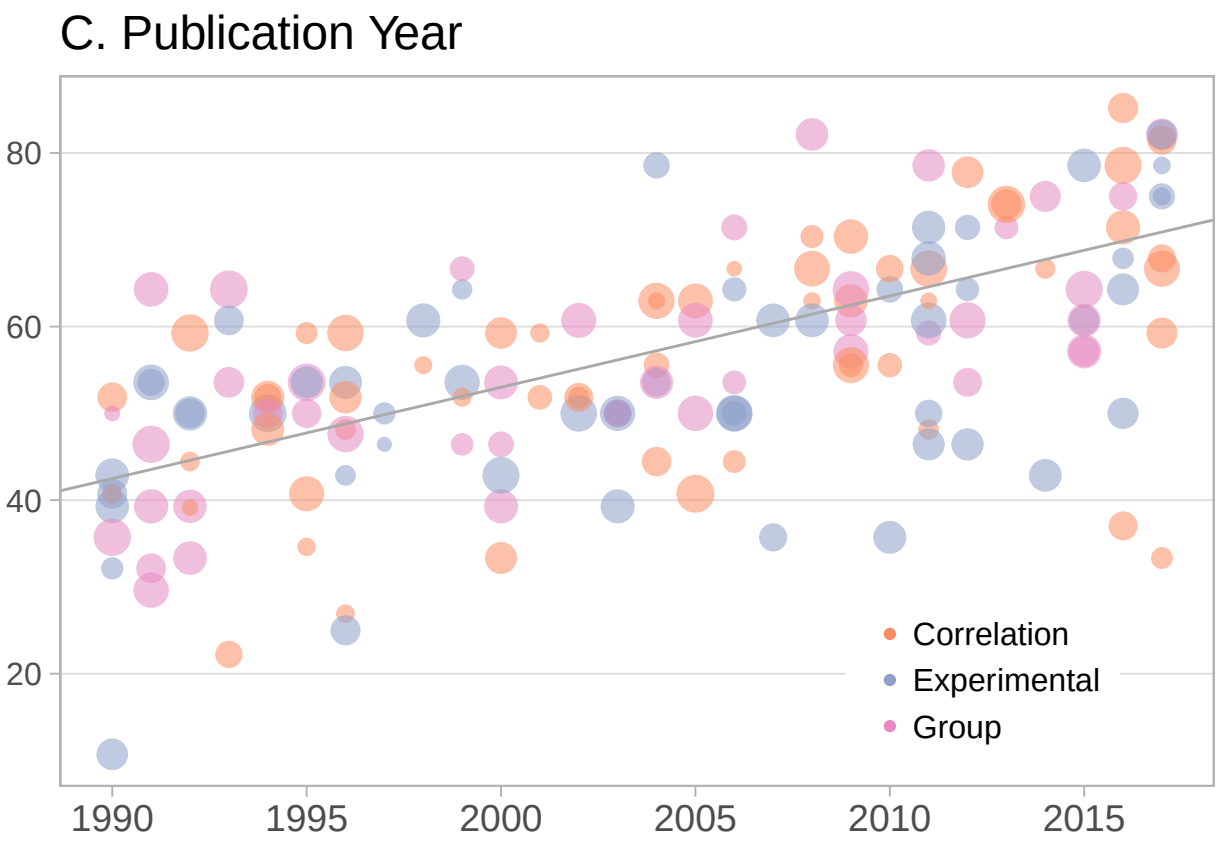
```
##
## Call:
## lm(formula = pc ~ MA_Type * DoP * as.numeric(as.character(Review_Size)),
##     data = ma_all_predictors)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -34.843  -6.405   1.047   6.724  21.231
##
## Coefficients:
##                                                                  Estimate
## (Intercept)                                                   -2.051e+03
## MA_TypeExperimental                                            5.545e+02
## MA_TypeGroup                                                  -3.551e+02
## DoP                                                            1.052e+00
## as.numeric(as.character(Review_Size))                          1.747e+00
## MA_TypeExperimental:DoP                                       -2.802e-01
## MA_TypeGroup:DoP                                               1.765e-01
## MA_TypeExperimental:as.numeric(as.character(Review_Size))     -2.817e+00
## MA_TypeGroup:as.numeric(as.character(Review_Size))             3.235e+00
## DoP:as.numeric(as.character(Review_Size))                     -8.754e-04
## MA_TypeExperimental:DoP:as.numeric(as.character(Review_Size))  1.433e-03
## MA_TypeGroup:DoP:as.numeric(as.character(Review_Size))        -1.603e-03
##                                                               Std. Error
## (Intercept)                                                    4.836e+02
## MA_TypeExperimental                                            7.619e+02
## MA_TypeGroup                                                   7.869e+02
## DoP                                                            2.414e-01
## as.numeric(as.character(Review_Size))                          2.797e+00
## MA_TypeExperimental:DoP                                        3.802e-01
## MA_TypeGroup:DoP                                               3.928e-01
## MA_TypeExperimental:as.numeric(as.character(Review_Size))      8.109e+00
```

```
## MA_TypeGroup:as.numeric(as.character(Review_Size))             5.681e+00
## DoP:as.numeric(as.character(Review_Size))                      1.396e-03
## MA_TypeExperimental:DoP:as.numeric(as.character(Review_Size))  4.040e-03
## MA_TypeGroup:DoP:as.numeric(as.character(Review_Size))         2.830e-03
##                                                               t value
## (Intercept)                                                    -4.242
## MA_TypeExperimental                                             0.728
## MA_TypeGroup                                                   -0.451
## DoP                                                             4.359
## as.numeric(as.character(Review_Size))                           0.624
## MA_TypeExperimental:DoP                                        -0.737
## MA_TypeGroup:DoP                                                0.449
## MA_TypeExperimental:as.numeric(as.character(Review_Size))      -0.347
## MA_TypeGroup:as.numeric(as.character(Review_Size))              0.569
## DoP:as.numeric(as.character(Review_Size))                      -0.627
## MA_TypeExperimental:DoP:as.numeric(as.character(Review_Size))   0.355
## MA_TypeGroup:DoP:as.numeric(as.character(Review_Size))         -0.566
##                                                               Pr(>|t|)
## (Intercept)                                                   3.98e-05 ***
## MA_TypeExperimental                                              0.468
## MA_TypeGroup                                                     0.653
## DoP                                                           2.49e-05 ***
## as.numeric(as.character(Review_Size))                            0.533
## MA_TypeExperimental:DoP                                          0.462
## MA_TypeGroup:DoP                                                 0.654
## MA_TypeExperimental:as.numeric(as.character(Review_Size))        0.729
## MA_TypeGroup:as.numeric(as.character(Review_Size))               0.570
## DoP:as.numeric(as.character(Review_Size))                        0.532
## MA_TypeExperimental:DoP:as.numeric(as.character(Review_Size))    0.723
## MA_TypeGroup:DoP:as.numeric(as.character(Review_Size))           0.572
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 10.91 on 142 degrees of freedom
##   (1 observation deleted due to missingness)
## Multiple R-squared:  0.4043, Adjusted R-squared:  0.3581
## F-statistic:  8.76 on 11 and 142 DF,  p-value: 9.68e-12
```

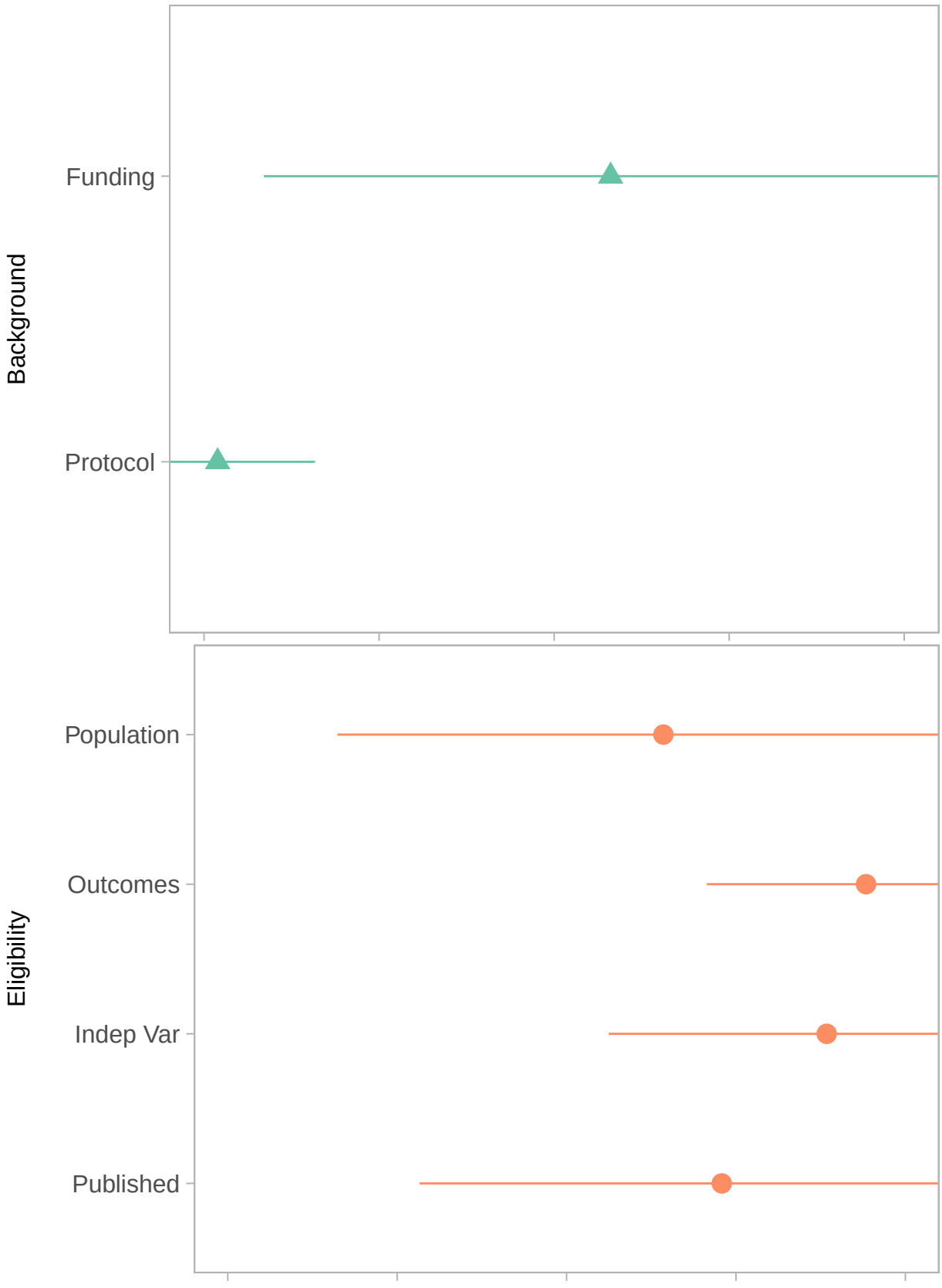
Figures reported in paper

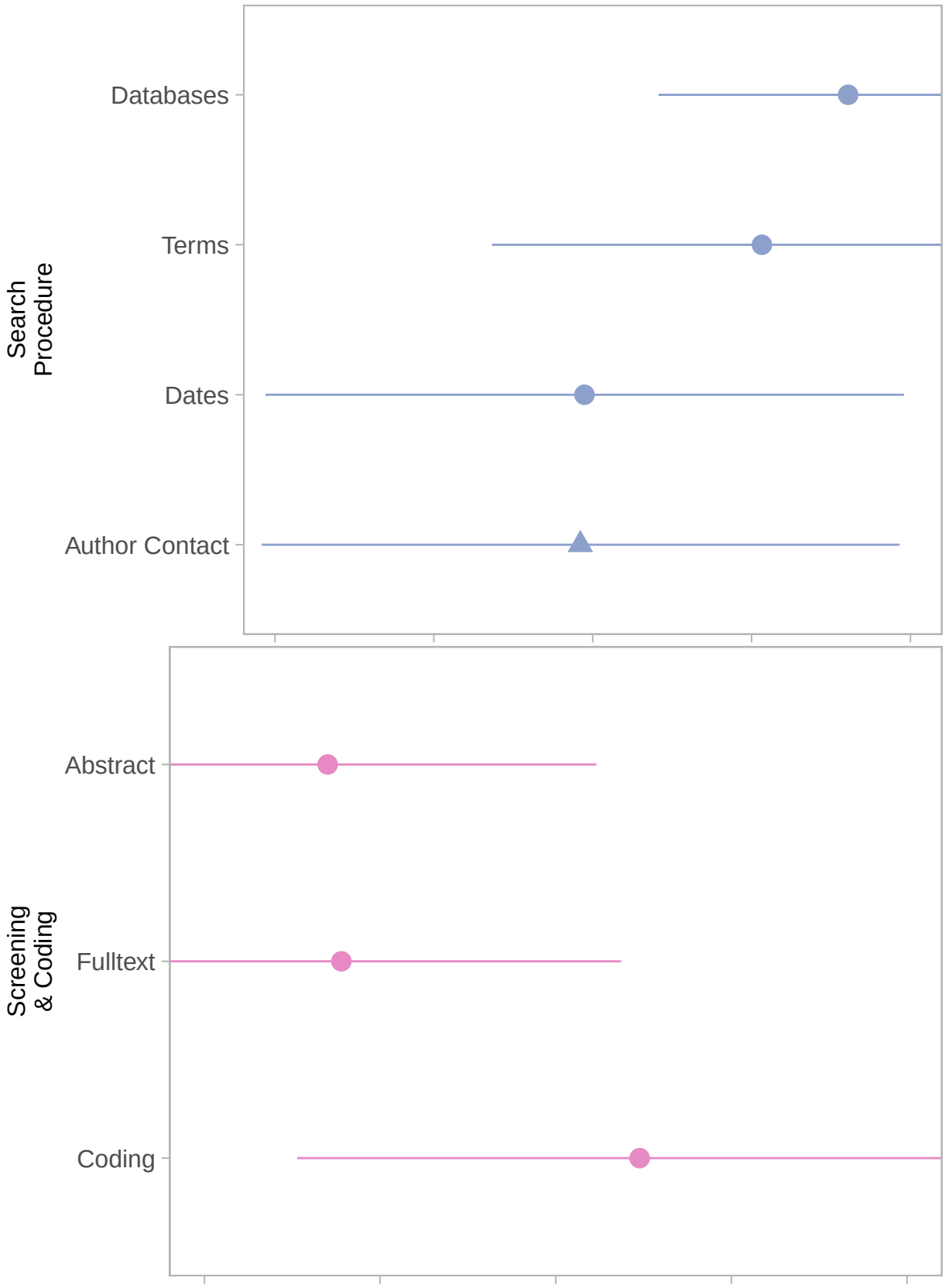


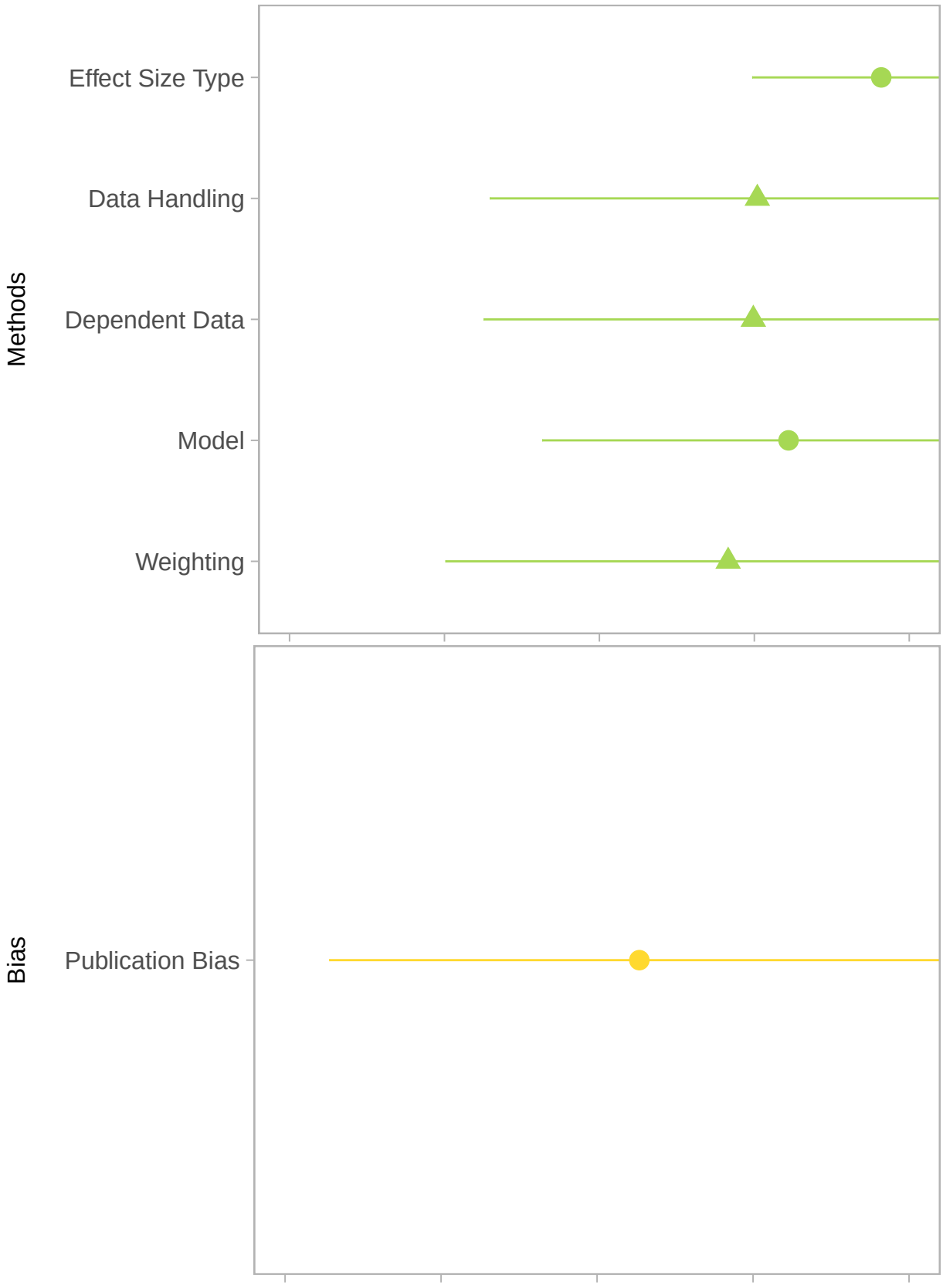


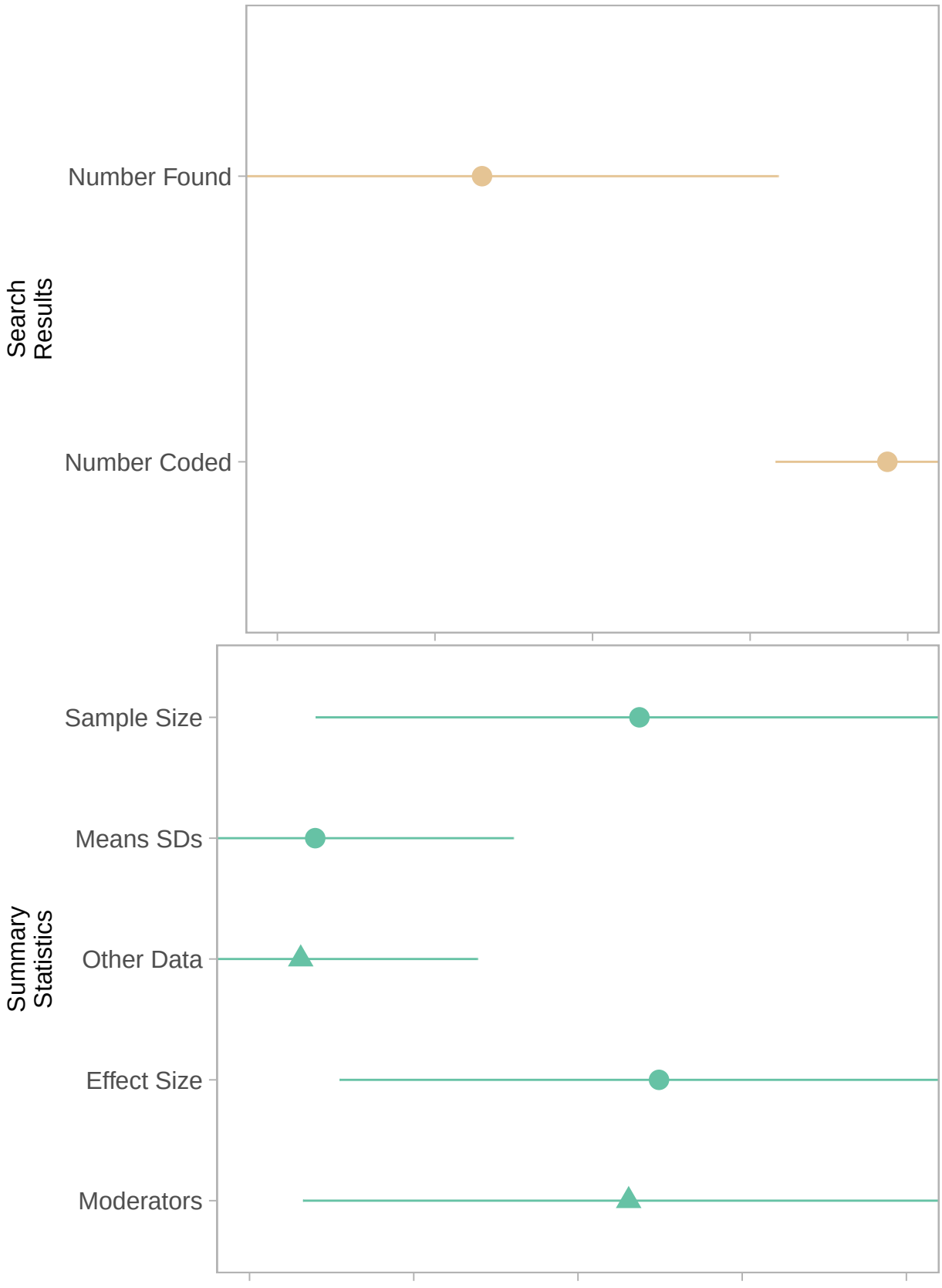

C. Publication Year
80
60
40
20
1990
1995
2000
2005
2010
2015
Correlation
Experimental
Group

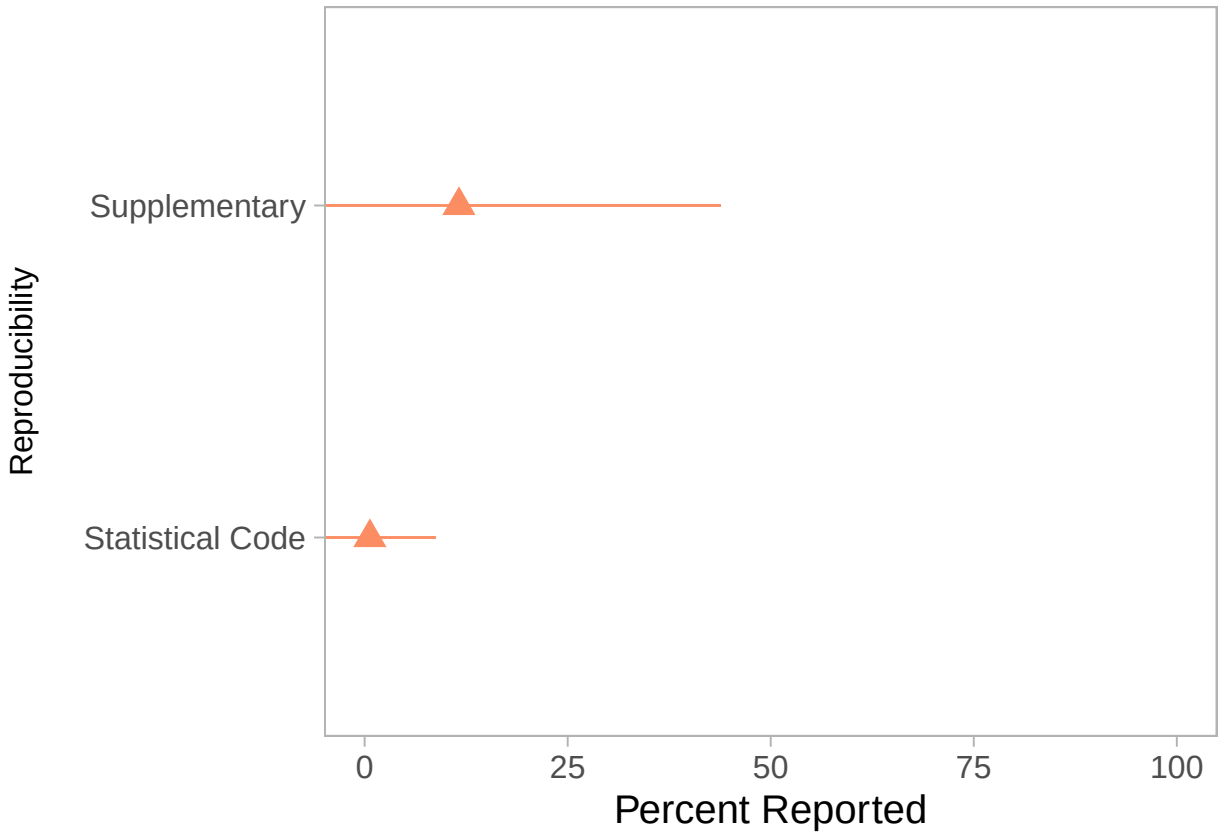
```
## pdf
##   2
```


Background
Funding
Protocol
Eligibility
Population
Outcomes
Indep Var
Published


Search Procedure
Databases
Terms
Dates
Author Contact
Screening & Coding
Abstract
Fulltext
Coding


Methods
Effect Size Type
Data Handling
Dependent Data
Model
Weighting
Bias
Publication Bias


Search Results
Number Found
Number Coded
Summary Statistics
Sample Size
Means SDs
Other Data
Effect Size
Moderators


Supplementary
Statistical Code
Reproducibility
0
25
50
75
100
Percent Reported

```
## pdf
##   2
```