

# Mindprint - Math

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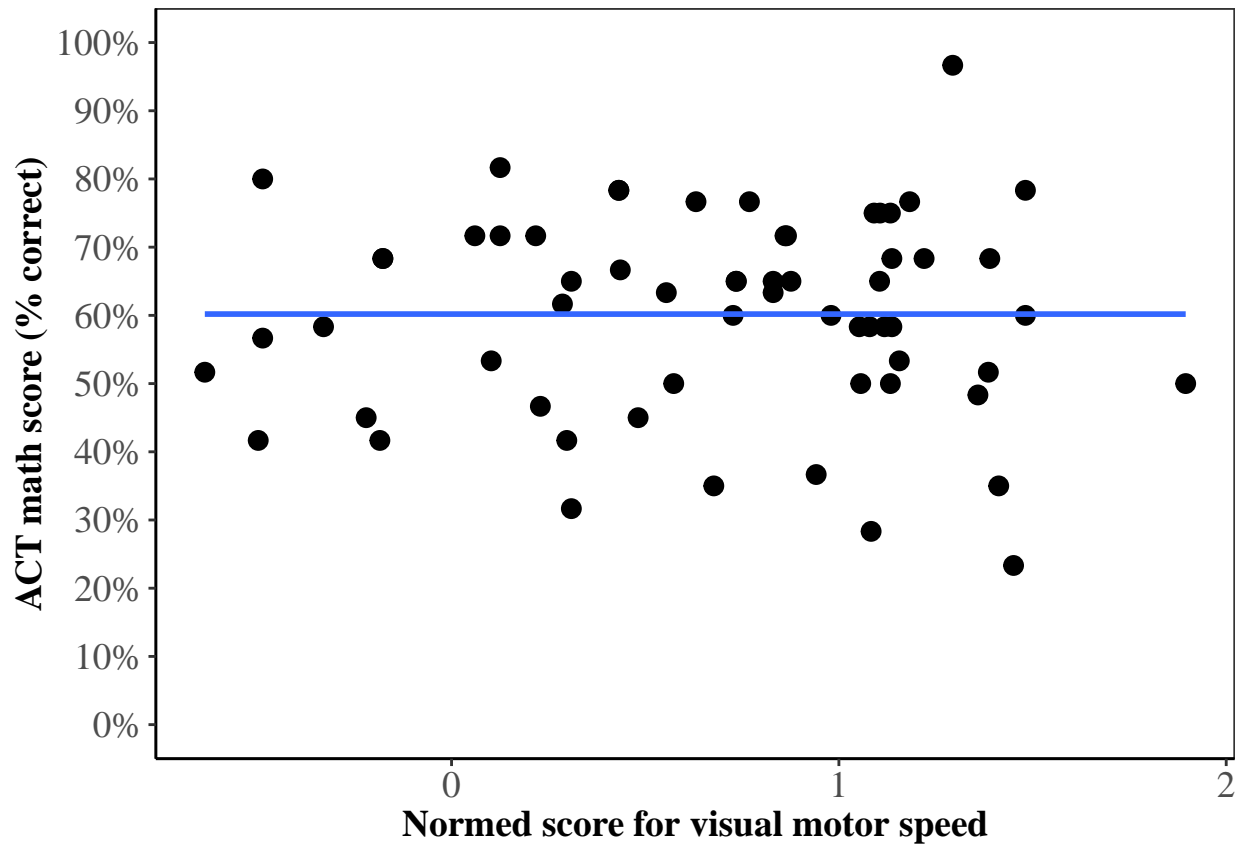
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3 duplicates: subID 6381, 4836, 3884, took both 70C and 72C

## ACT Math (n = 62)

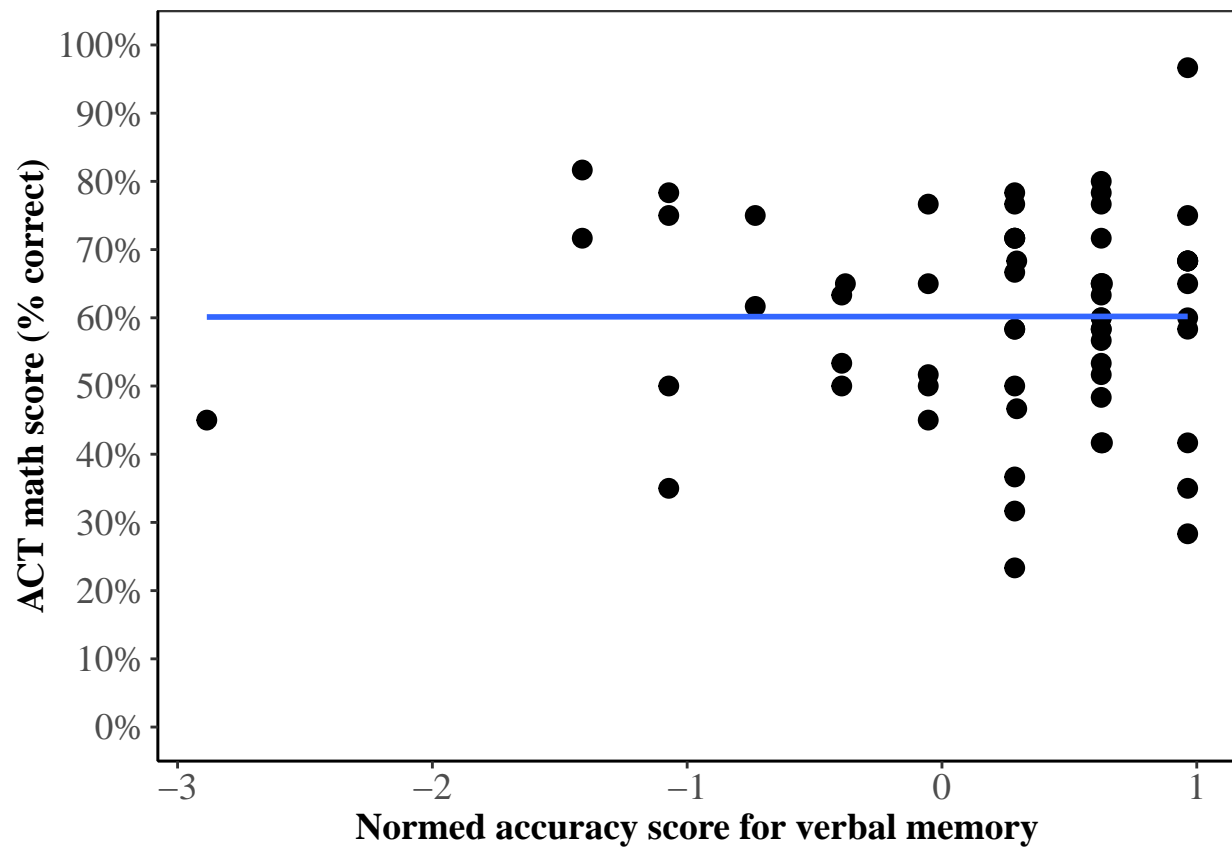
Overall score

Visual motor speed



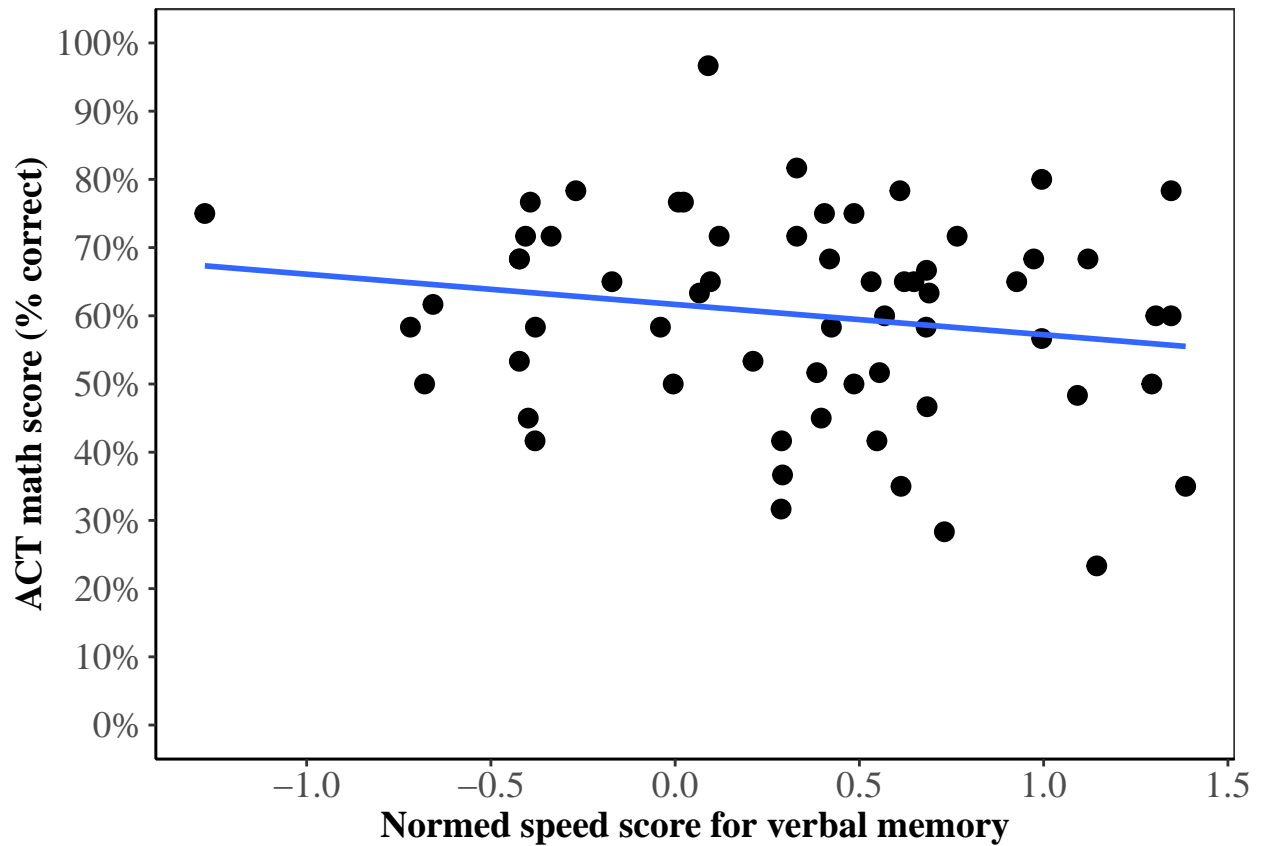
```
##
## Pearson's product-moment correlation
##
## data: finalDF2$SM_Sz and finalDF2$ACTmathscore
## t = -0.00068117, df = 60, p-value = 0.9995
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## -0.2498507 0.2496857
## sample estimates:
## cor
## -8.793813e-05
```

## Verbal memory accuracy



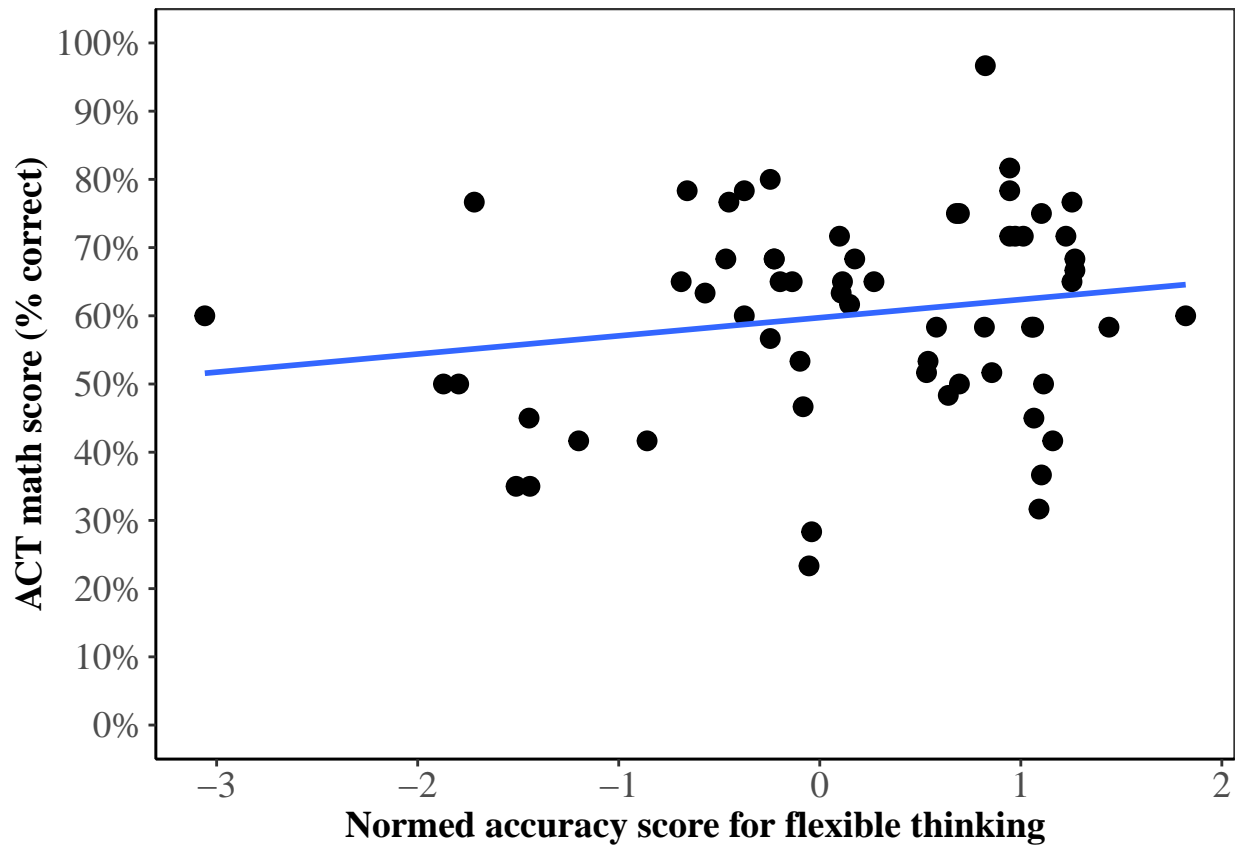
```
##  
## Pearson's product-moment correlation  
##  
## data: finalDF2$VMEM_Az and finalDF2$ACTmathscore  
## t = 0.0089525, df = 60, p-value = 0.9929  
## alternative hypothesis: true correlation is not equal to 0  
## 95 percent confidence interval:  
## -0.2486842 0.2508515  
## sample estimates:  
## cor  
## 0.001155757
```

## Verbal memory speed



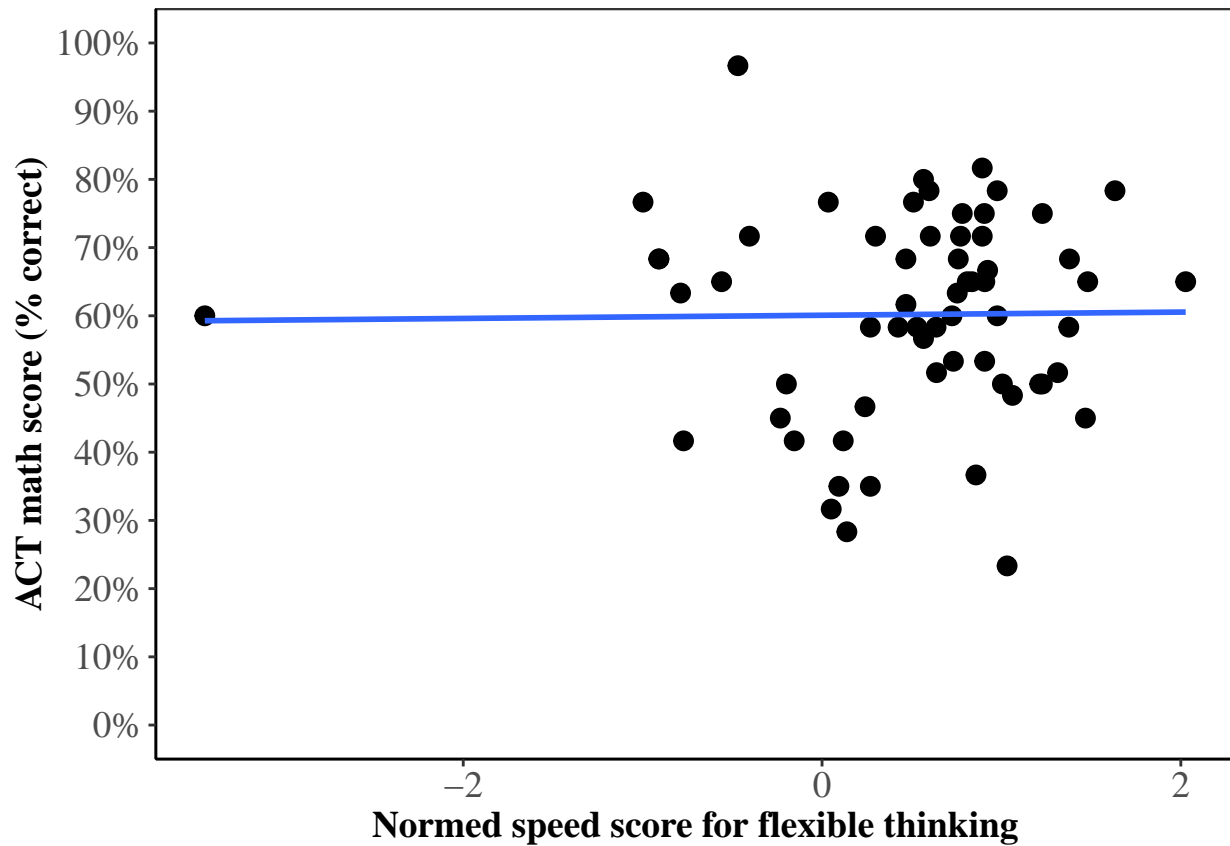
```
##
## Pearson's product-moment correlation
##
## data: finalDF2$VMEM_Sz and finalDF2$ACTmathscore
## t = -1.4112, df = 60, p-value = 0.1634
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## -0.4106197 0.0738402
## sample estimates:
## cor
## -0.1792336
```

## Flexible thinking accuracy



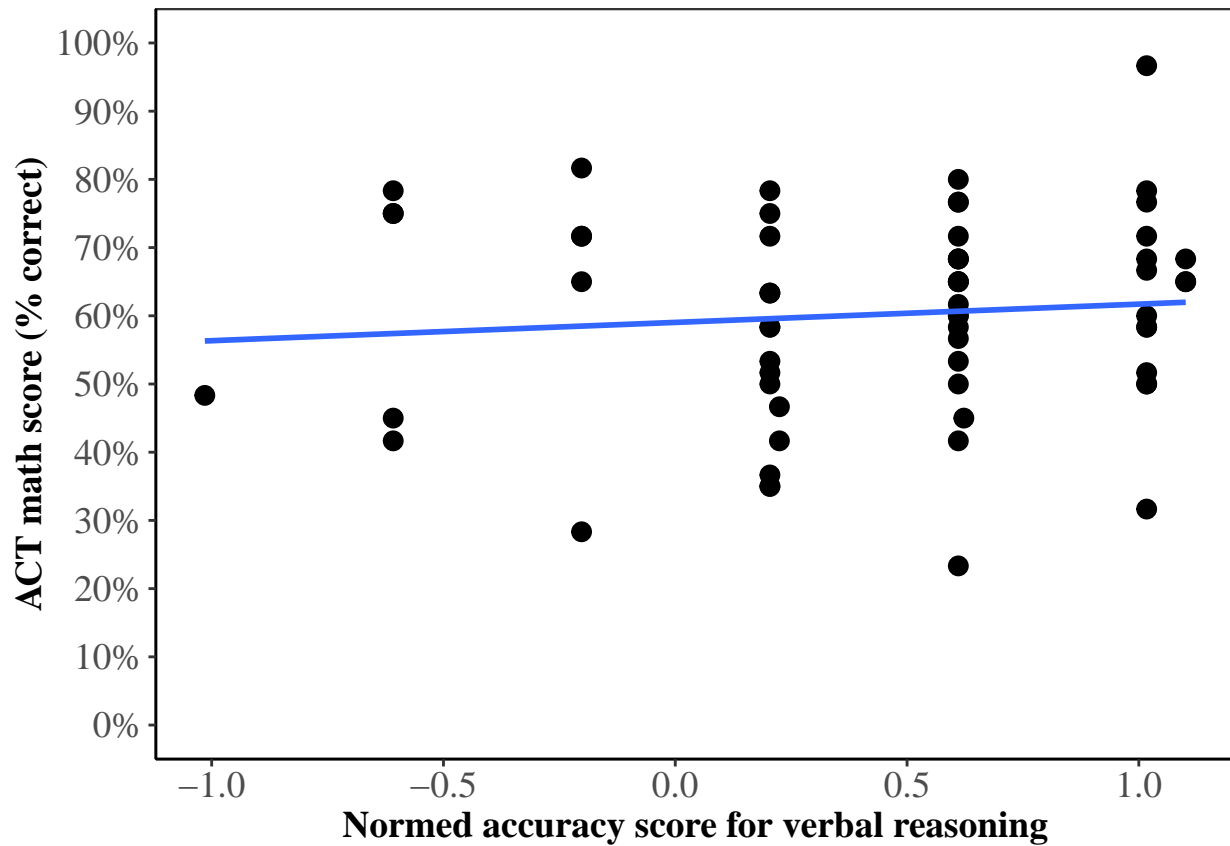
```
##
## Pearson's product-moment correlation
##
## data: finalDF2$ABF_Az and finalDF2$ACTmathscore
## t = 1.4116, df = 60, p-value = 0.1632
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## -0.07378948 0.41066205
## sample estimates:
## cor
## 0.179283
```

## Flexible thinking speed



```
##  
## Pearson's product-moment correlation  
##  
## data: finalDF2$ABF_Sz and finalDF2$ACTmathscore  
## t = 0.1021, df = 60, p-value = 0.919  
## alternative hypothesis: true correlation is not equal to 0  
## 95 percent confidence interval:  
## -0.2373693 0.2620858  
## sample estimates:  
## cor  
## 0.01318037
```

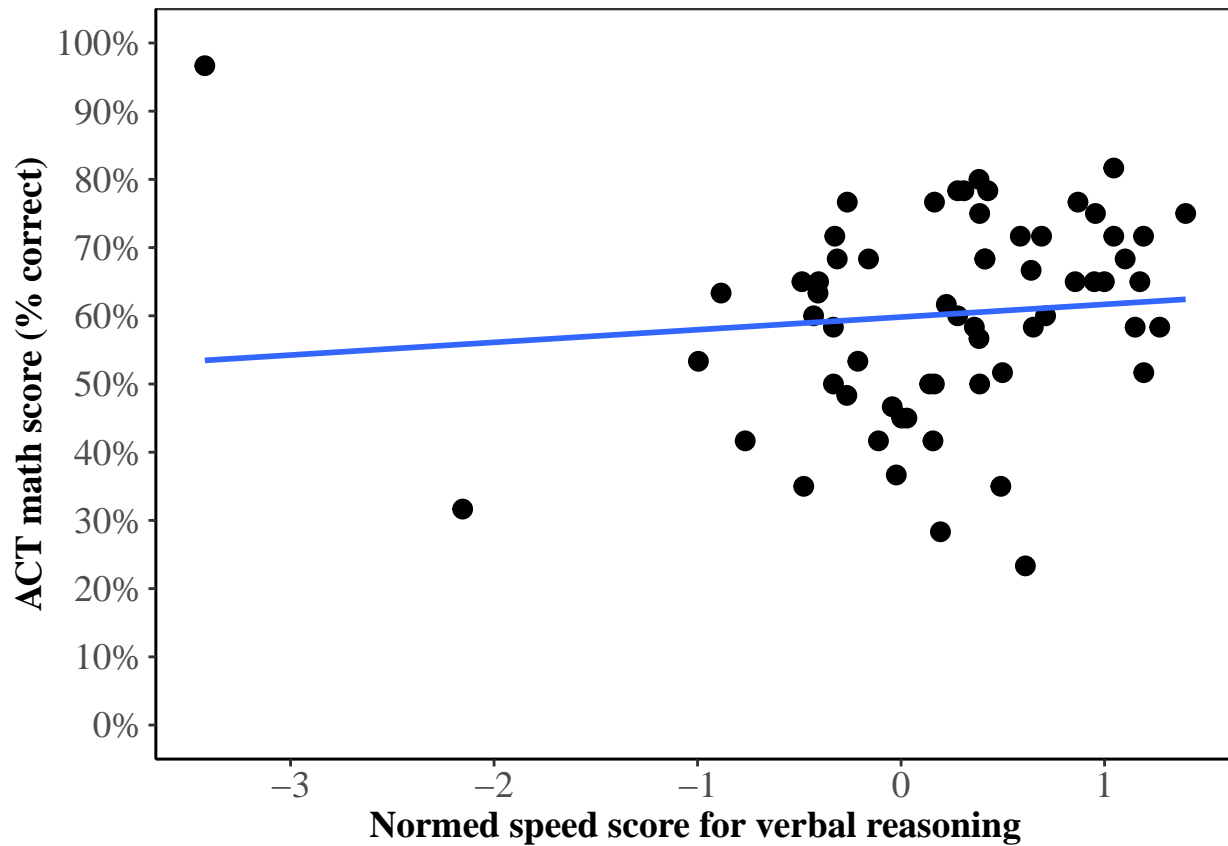
## Verbal reasoning accuracy



```
##
## Pearson's product-moment correlation
##
## data: finalDF2$LAN_Az and finalDF2$ACTmathscore
## t = 0.73806, df = 60, p-value = 0.4634
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## -0.1586734 0.3366465
## sample estimates:
## cor
## 0.09485398
```

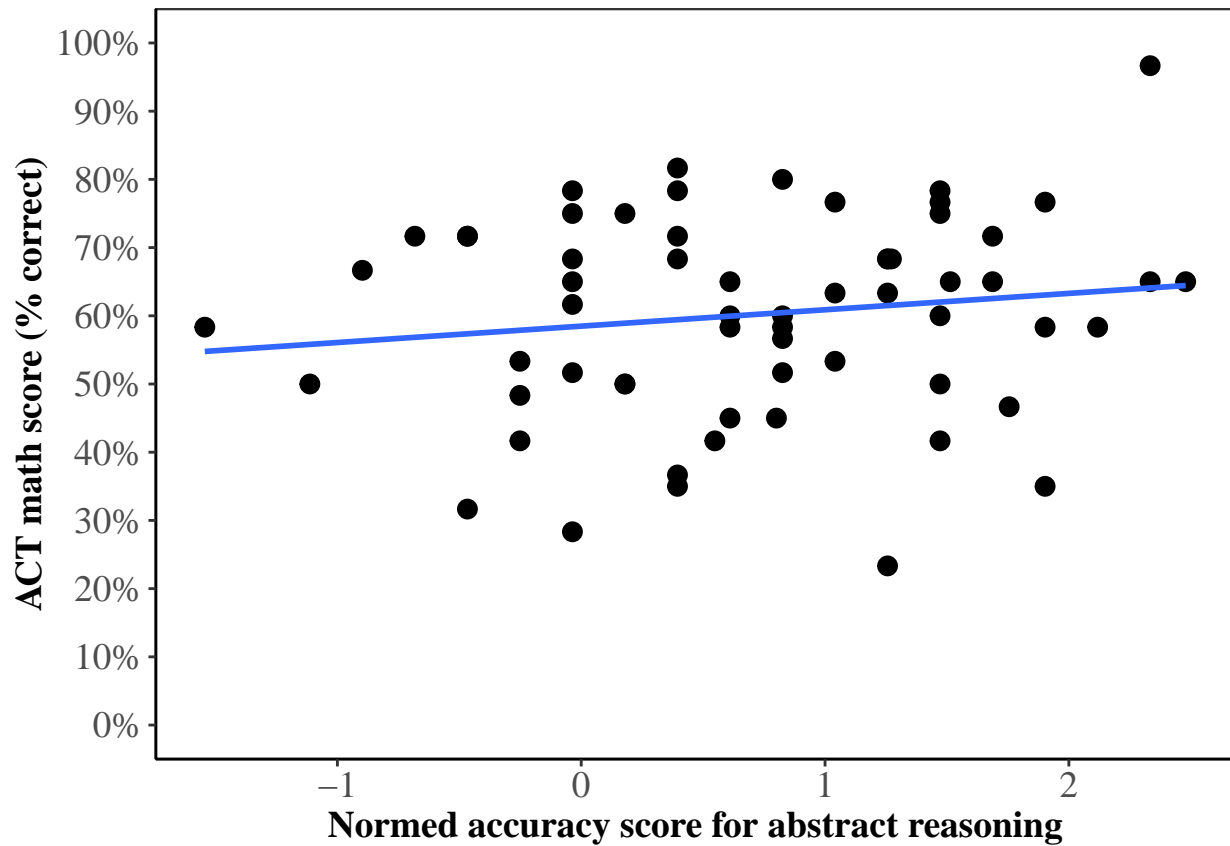


## Verbal reasoning speed



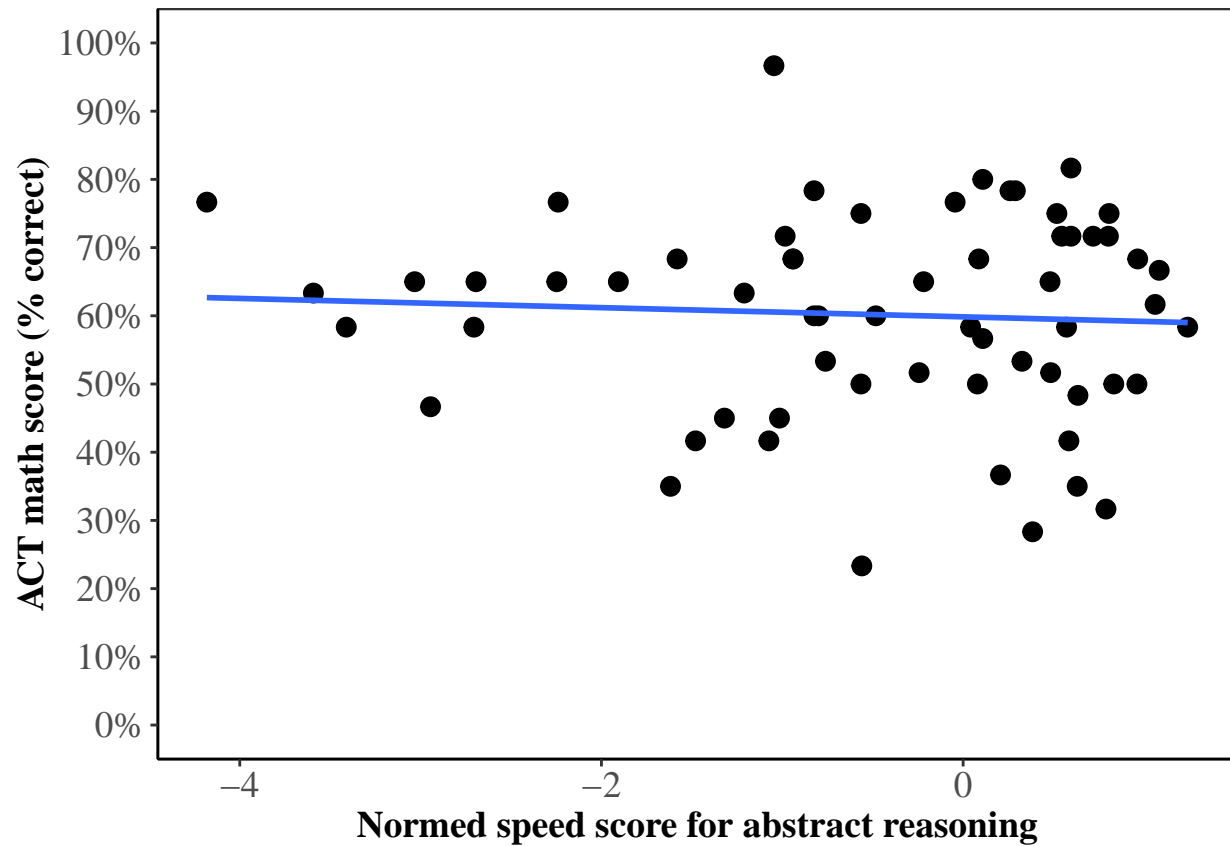
```
##  
## Pearson's product-moment correlation  
##  
## data: finalDF2$LAN_Sz and finalDF2$ACTmathscore  
## t = 0.78576, df = 60, p-value = 0.4351  
## alternative hypothesis: true correlation is not equal to 0  
## 95 percent confidence interval:  
## -0.1526945 0.3420683  
## sample estimates:  
## cor  
## 0.1009227
```

## Abstract reasoning accuracy



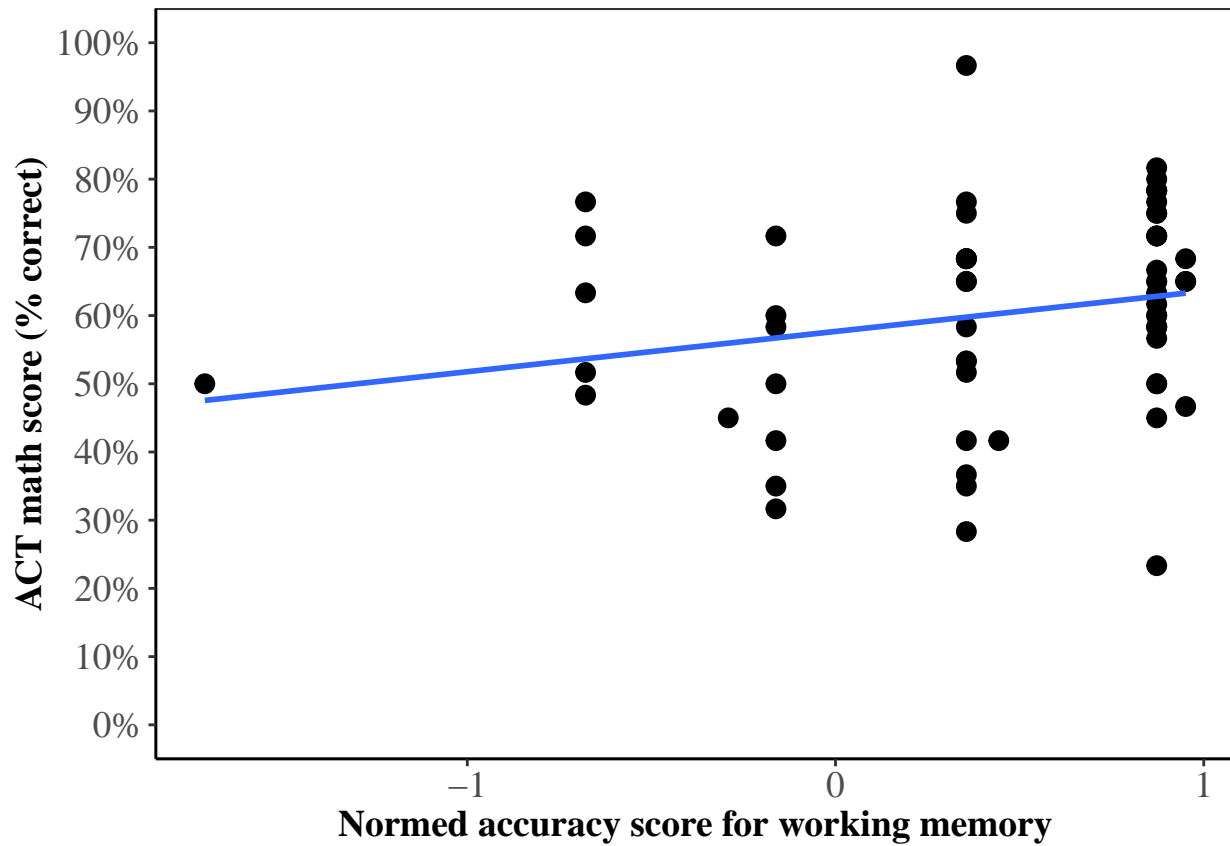
```
##
## Pearson's product-moment correlation
##
## data: finalDF2$NVR_Az and finalDF2$ACTmathscore
## t = 1.1386, df = 60, p-value = 0.2594
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## -0.1082713 0.3813460
## sample estimates:
## cor
## 0.1454297
```

## Abstract reasoning speed



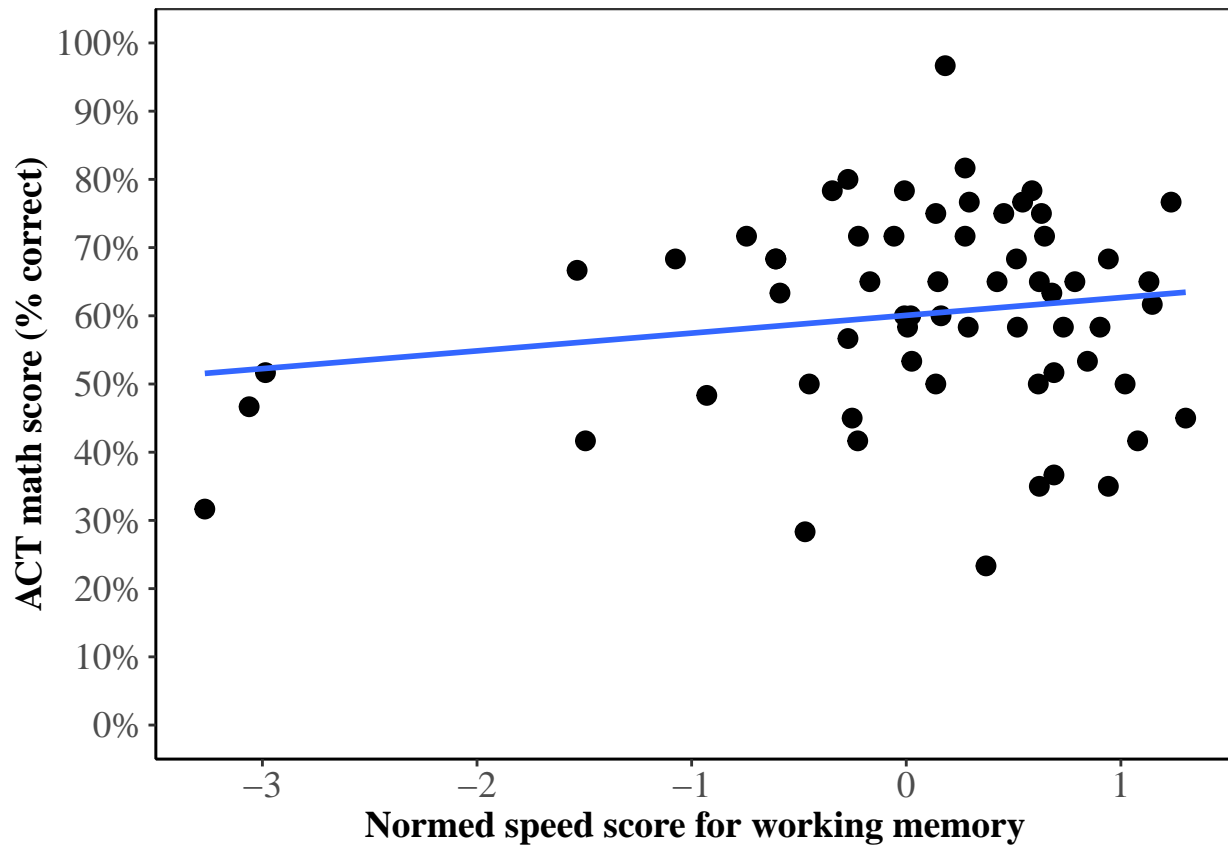
```
##
## Pearson's product-moment correlation
##
## data: finalDF2$NVR_Sz and finalDF2$ACTmathscore
## t = -0.46479, df = 60, p-value = 0.6438
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## -0.3051002 0.1927555
## sample estimates:
## cor
## -0.05989641
```

Working memory accuracy ( $p = 0.07$ )



```
##  
## Pearson's product-moment correlation  
##  
## data: finalDF2$WM_Az and finalDF2$ACTmathscore  
## t = 1.8175, df = 60, p-value = 0.07413  
## alternative hypothesis: true correlation is not equal to 0  
## 95 percent confidence interval:  
## -0.02262194 0.45239330  
## sample estimates:  
## cor  
## 0.228437
```

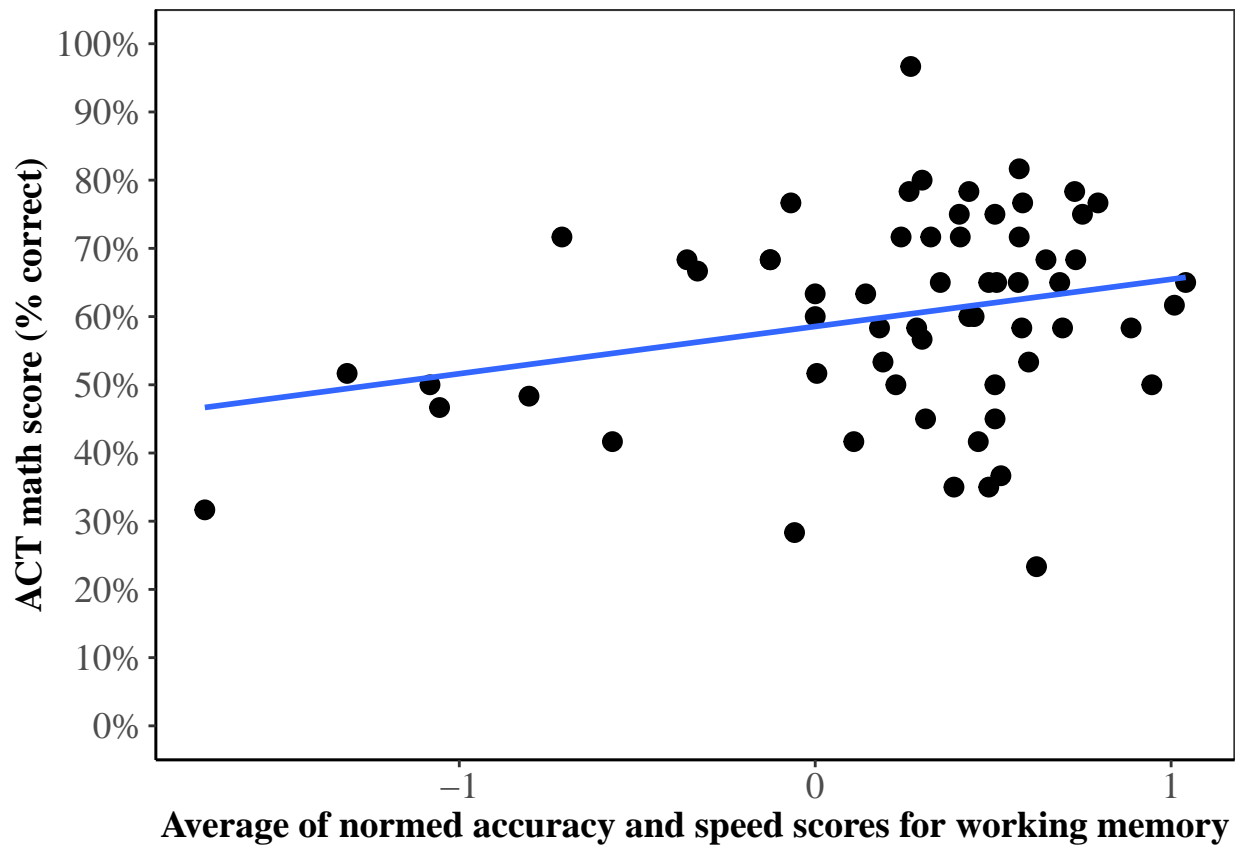
## Working memory speed



```
##  
## Pearson's product-moment correlation  
##  
## data: finalDF2$WM_Sz and finalDF2$ACTmathscore  
## t = 1.3247, df = 60, p-value = 0.1903  
## alternative hypothesis: true correlation is not equal to 0  
## 95 percent confidence interval:  
## -0.08476064 0.40144189  
## sample estimates:  
## cor  
## 0.1685764
```

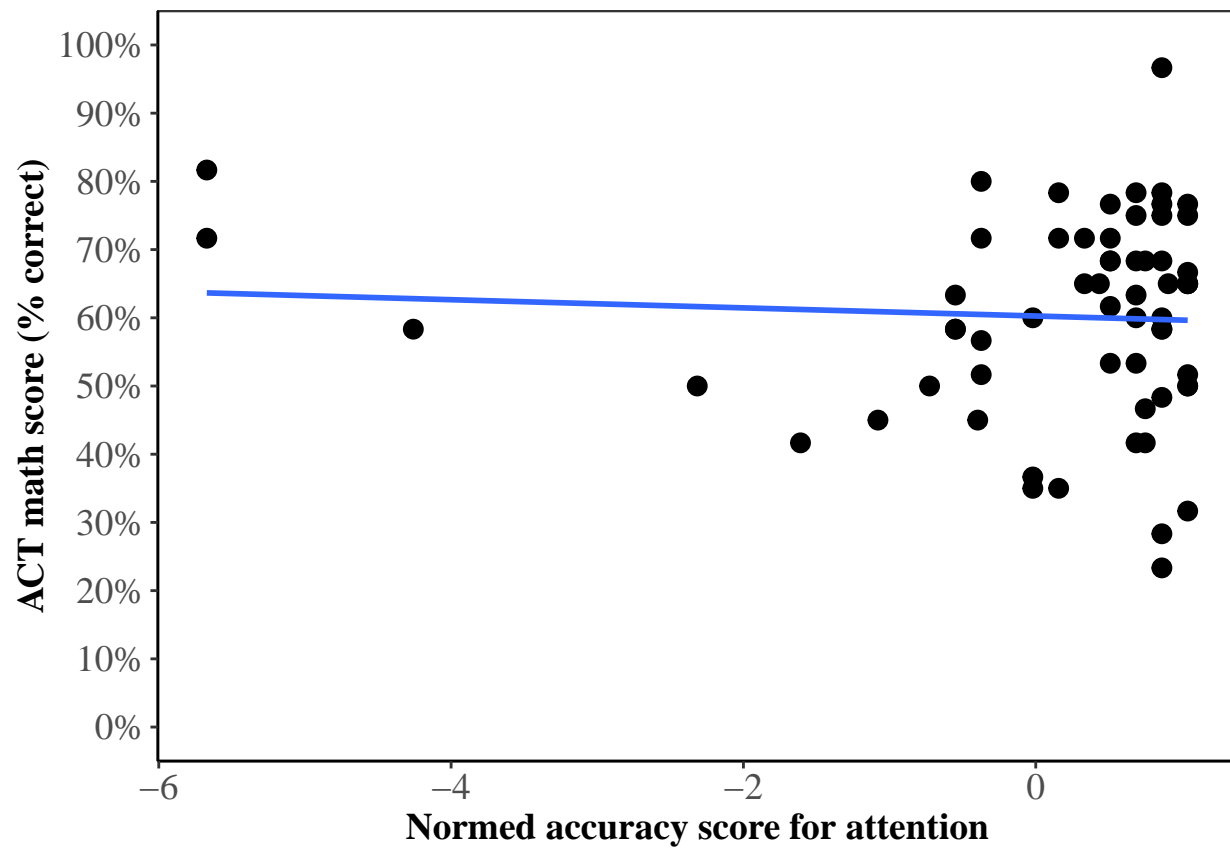
Working memory efficiency ( $p < 0.05$ )

Average of normed accuracy and speed scores for working memory.



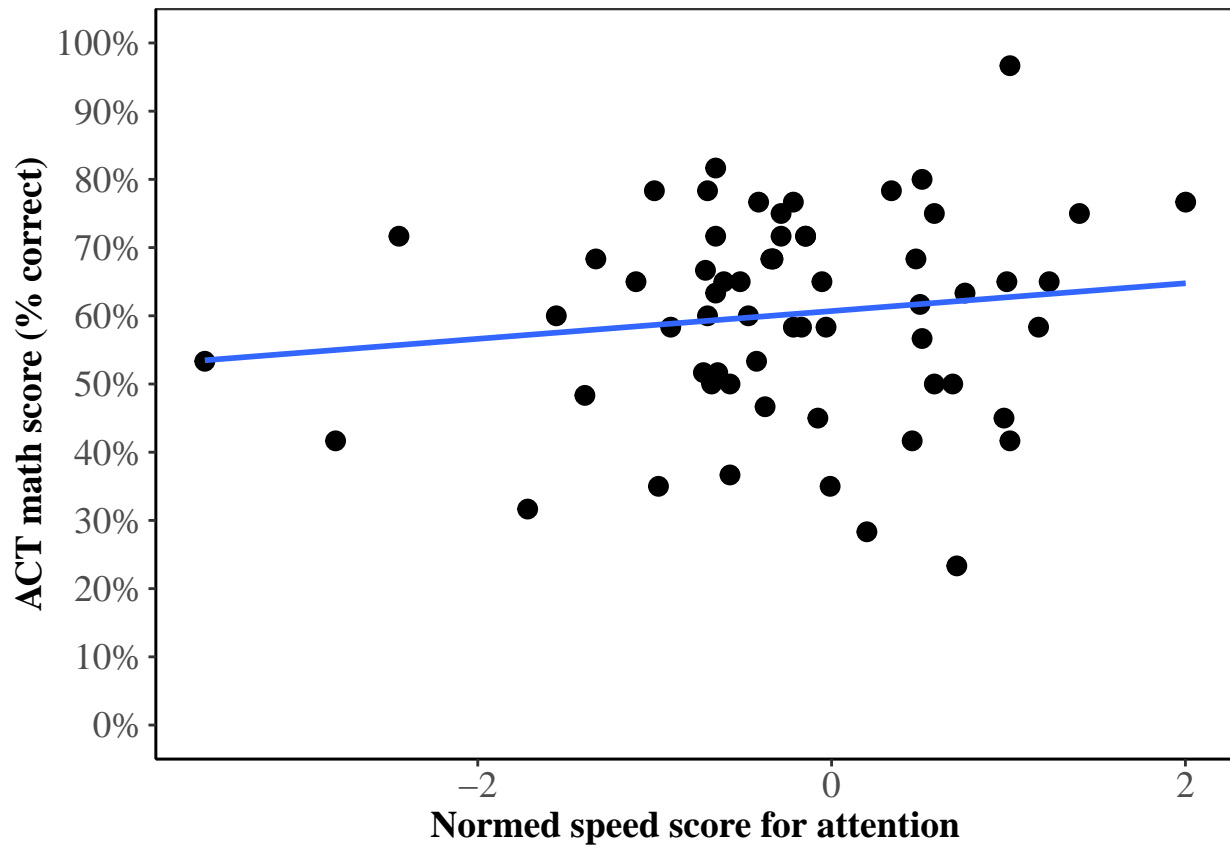
```
##
## Pearson's product-moment correlation
##
## data: finalDF2$WM_EFFICIENCY and finalDF2$ACTmathscore
## t = 2.0983, df = 60, p-value = 0.04009
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  0.01251939 0.47989758
## sample estimates:
##      cor
## 0.26147
```

## Attention accuracy



```
##  
## Pearson's product-moment correlation  
##  
## data: finalDF2$ATT_Az and finalDF2$ACTmathscore  
## t = -0.43899, df = 60, p-value = 0.6622  
## alternative hypothesis: true correlation is not equal to 0  
## 95 percent confidence interval:  
## -0.3020818 0.1959548  
## sample estimates:  
## cor  
## -0.05658276
```

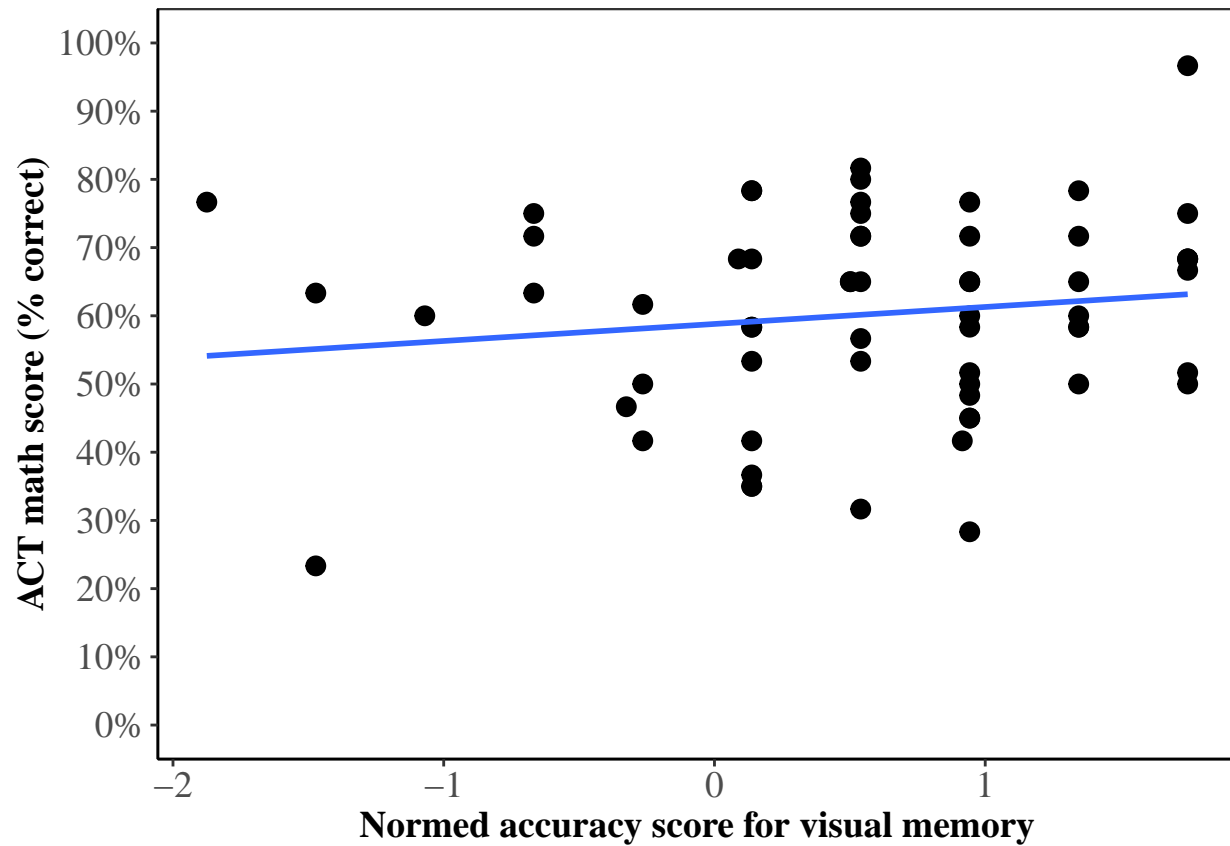
## Attention speed



```
##
## Pearson's product-moment correlation
##
## data: finalDF2$ATT_Sz and finalDF2$ACTmathscore
## t = 1.0578, df = 60, p-value = 0.2944
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## -0.1184641 0.3724874
## sample estimates:
## cor
## 0.1353076
```

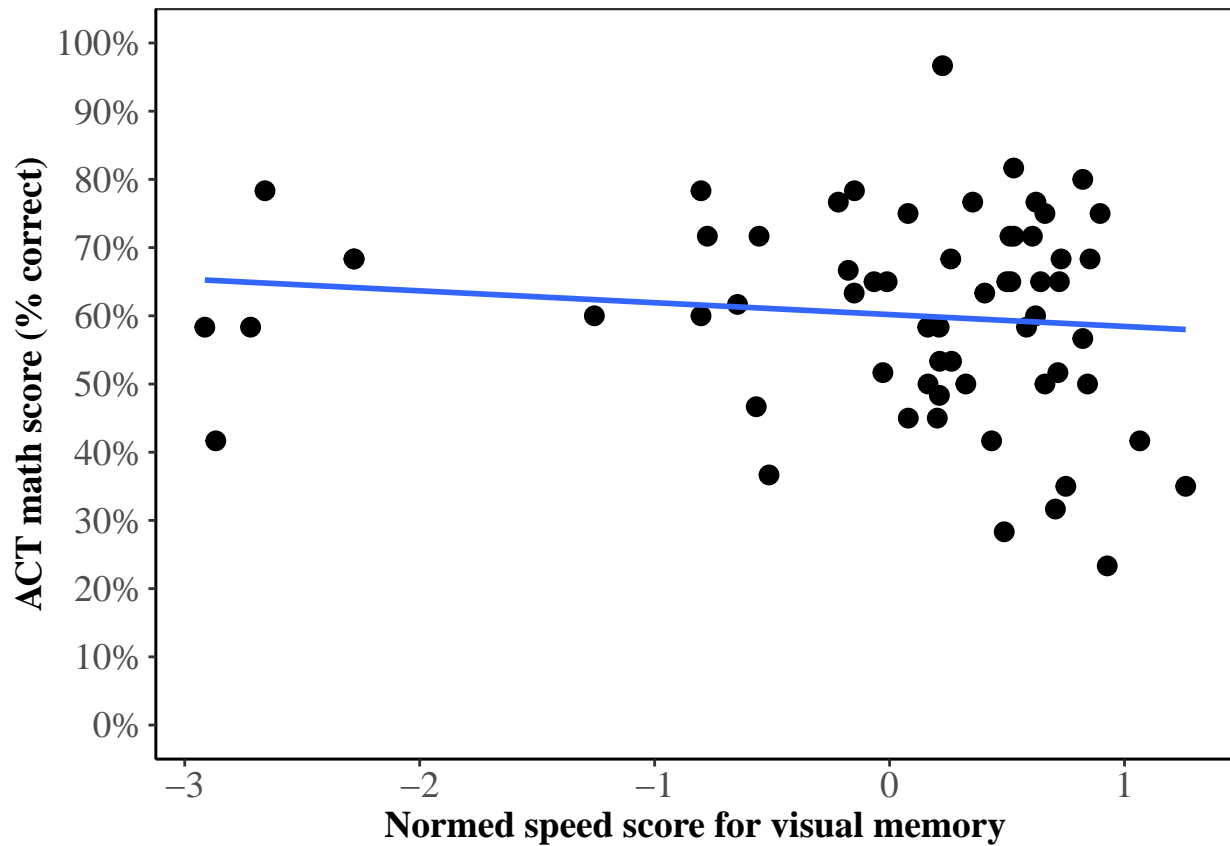


## Visual memory accuracy



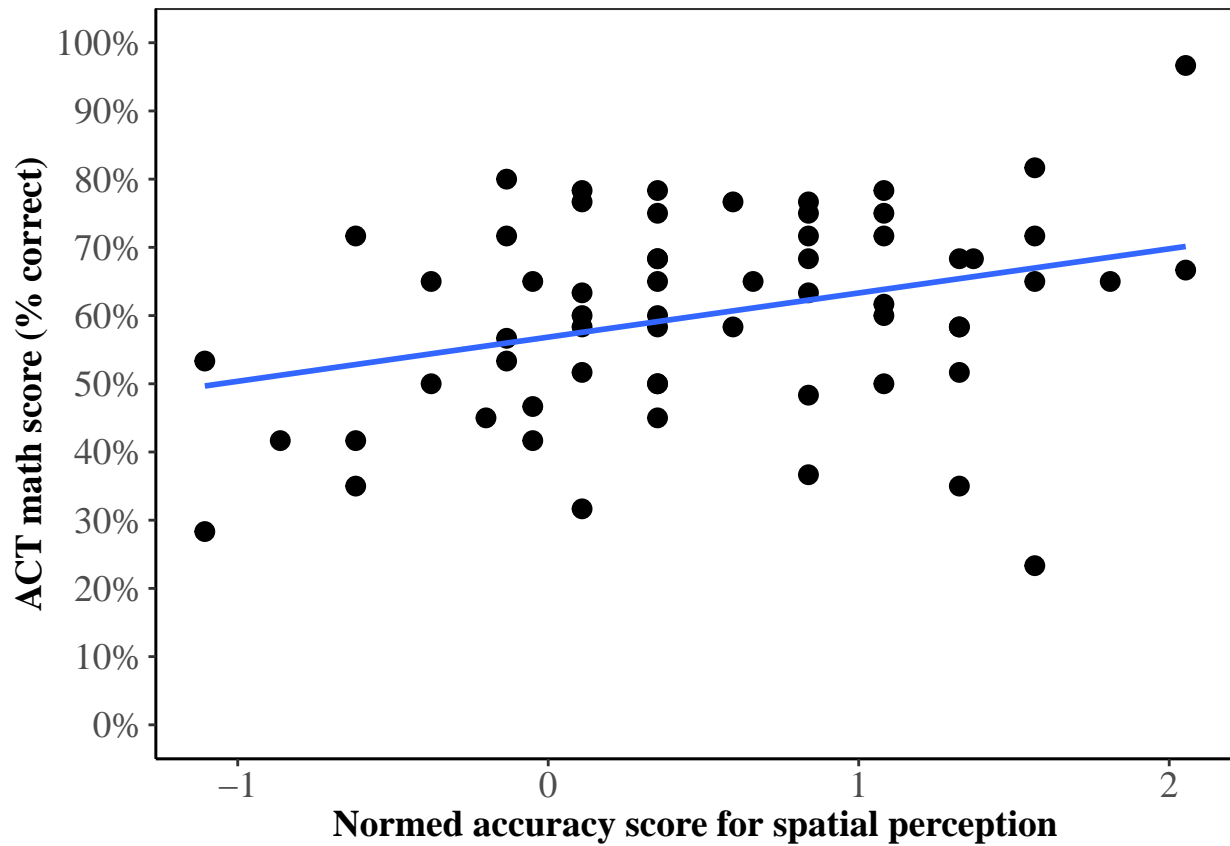
```
##
## Pearson's product-moment correlation
##
## data: finalDF2$SMEM_Az and finalDF2$ACTmathscore
## t = 1.1171, df = 60, p-value = 0.2684
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## -0.1109789 0.3790016
## sample estimates:
## cor
## 0.1427461
```

## Visual memory speed



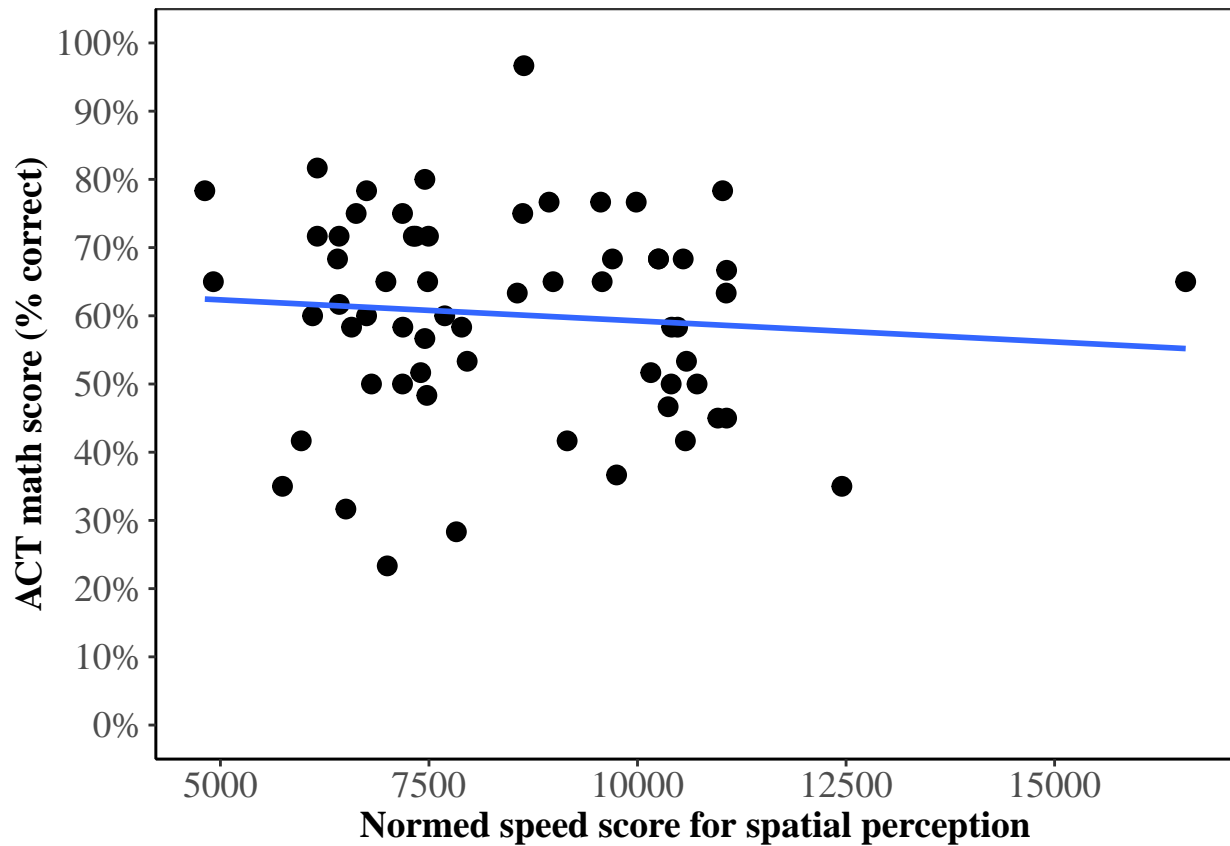
```
##  
## Pearson's product-moment correlation  
##  
## data: finalDF2$SMEM_Sz and finalDF2$ACTmathscore  
## t = -0.92148, df = 60, p-value = 0.3605  
## alternative hypothesis: true correlation is not equal to 0  
## 95 percent confidence interval:  
## -0.3573542 0.1356405  
## sample estimates:  
## cor  
## -0.1181298
```

Spatial perception accuracy ( $p < 0.01$ )



```
##
## Pearson's product-moment correlation
##
## data: finalDF2$SPA_Az and finalDF2$ACTmathscore
## t = 2.7098, df = 60, p-value = 0.008764
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## 0.08767444 0.53578979
## sample estimates:
## cor
## 0.3302116
```

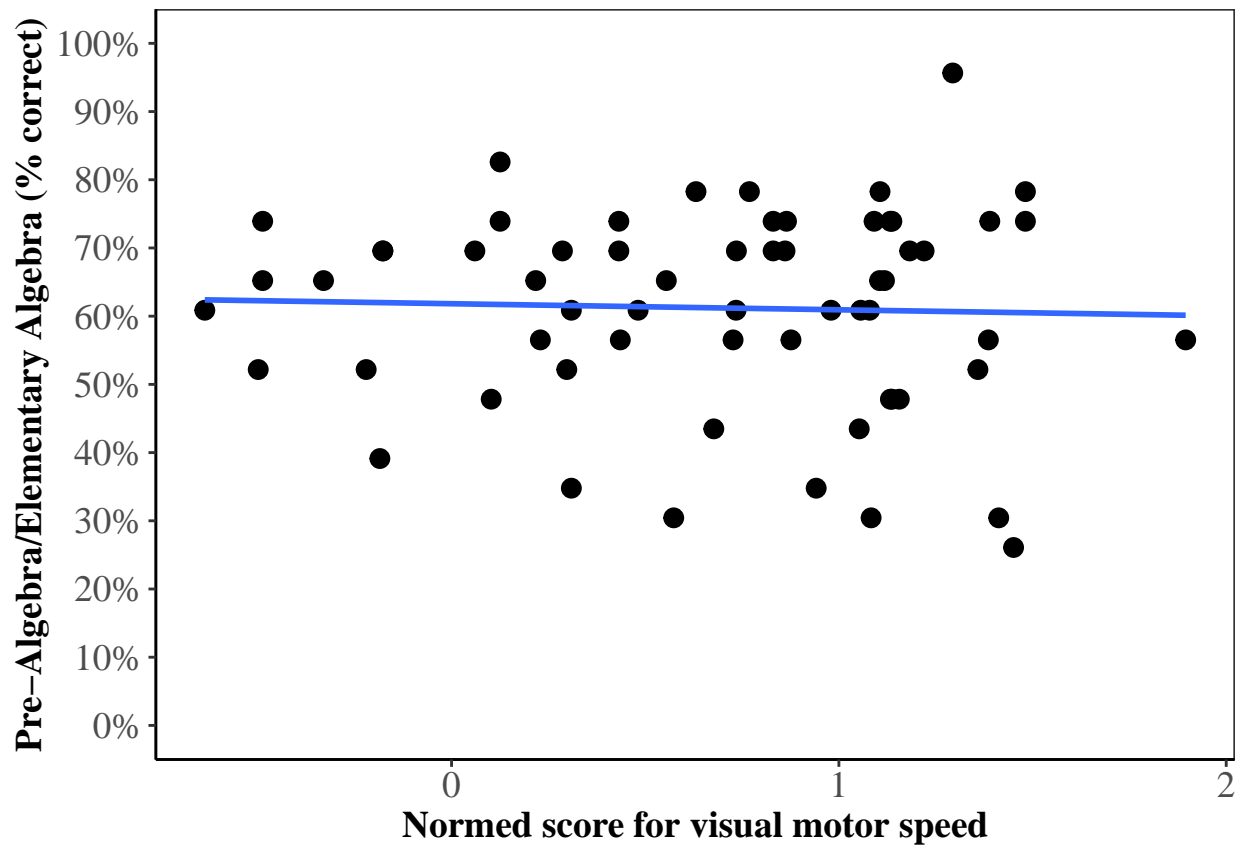
## Spatial perception speed



```
##  
## Pearson's product-moment correlation  
##  
## data: finalDF2$SPA_Sz and finalDF2$ACTmathscore  
## t = -0.68718, df = 60, p-value = 0.4946  
## alternative hypothesis: true correlation is not equal to 0  
## 95 percent confidence interval:  
## -0.3308340 0.1650432  
## sample estimates:  
## cor  
## -0.08836775
```

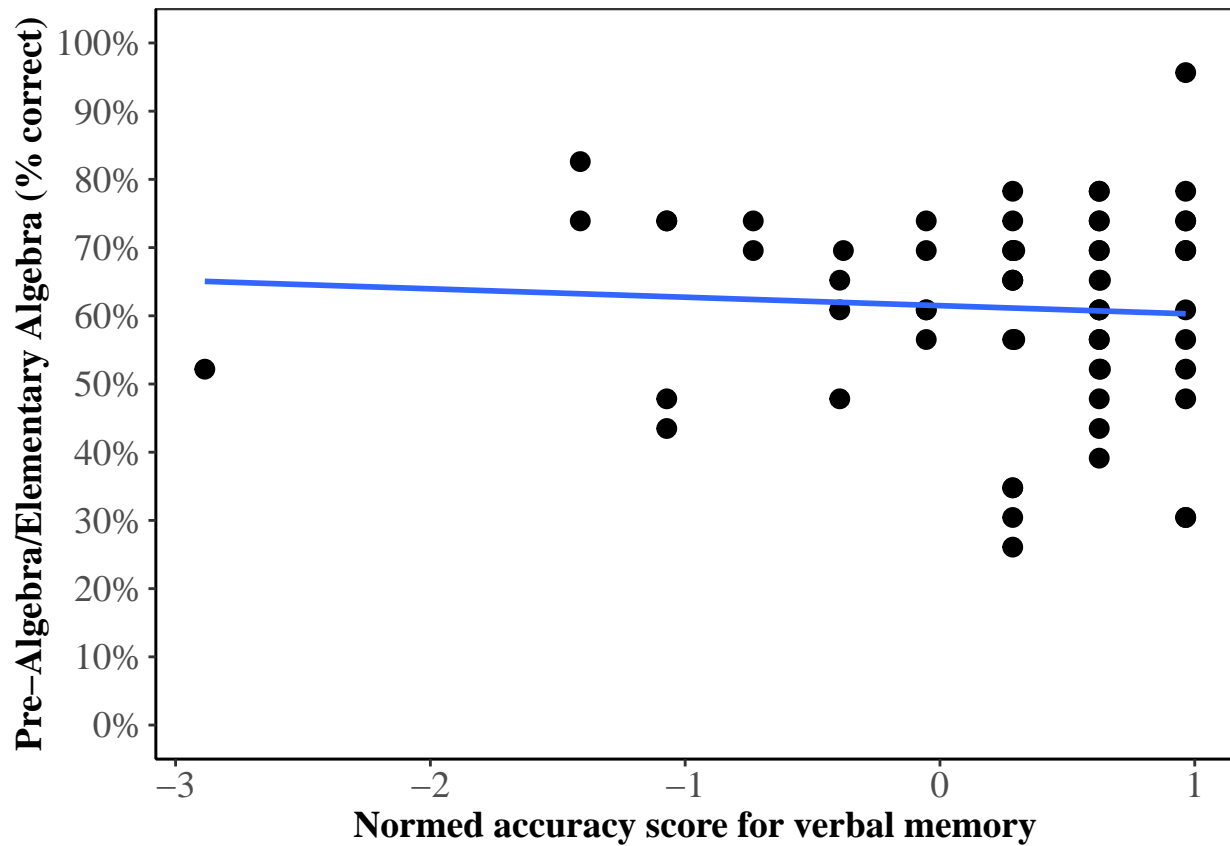
## EA/ Pre-Algebra/Elementary Algebra Subsection

Visual motor speed



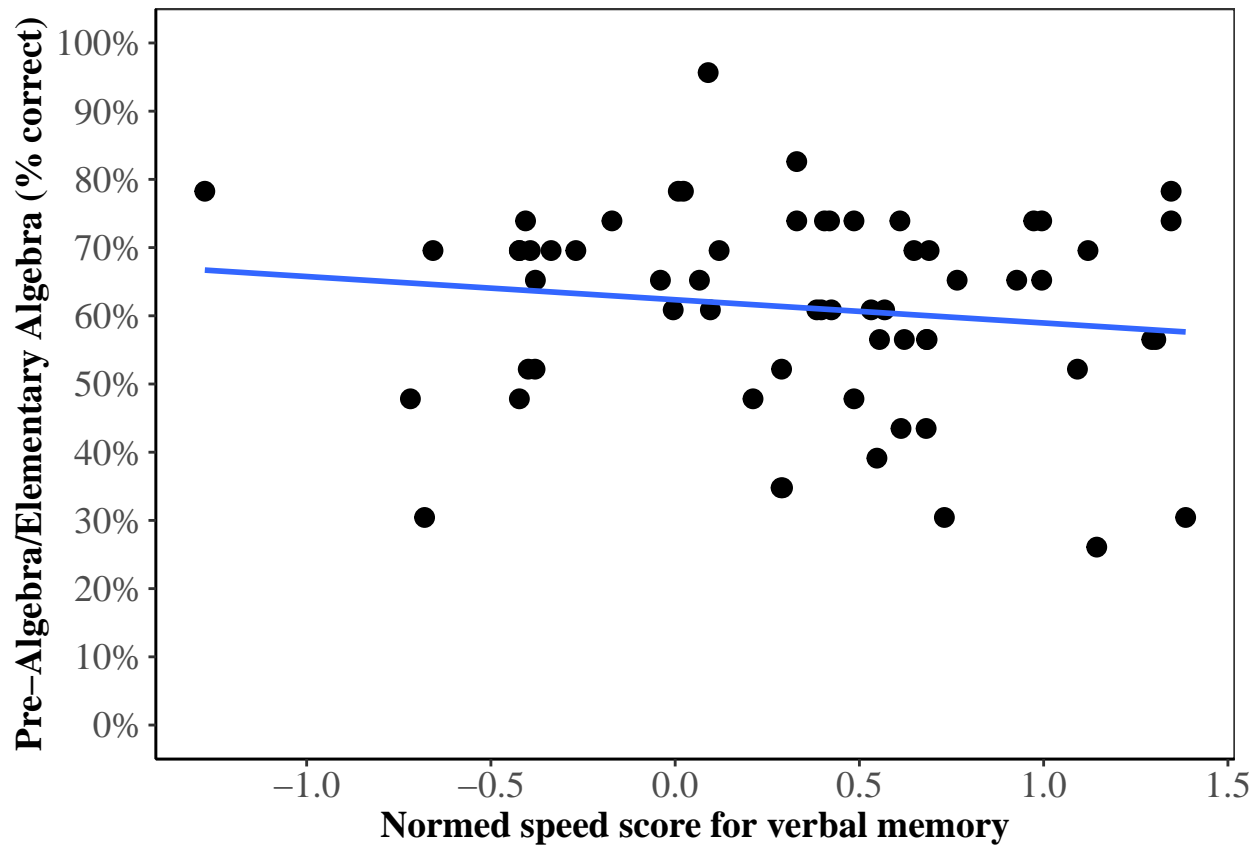
```
##  
## Pearson's product-moment correlation  
##  
## data: EA_DF$SM_Sz and EA_DF$EAscore  
## t = -0.2808, df = 60, p-value = 0.7798  
## alternative hypothesis: true correlation is not equal to 0  
## 95 percent confidence interval:  
## -0.2834304 0.2154912  
## sample estimates:  
## cor  
## -0.0362268
```

## Verbal memory accuracy



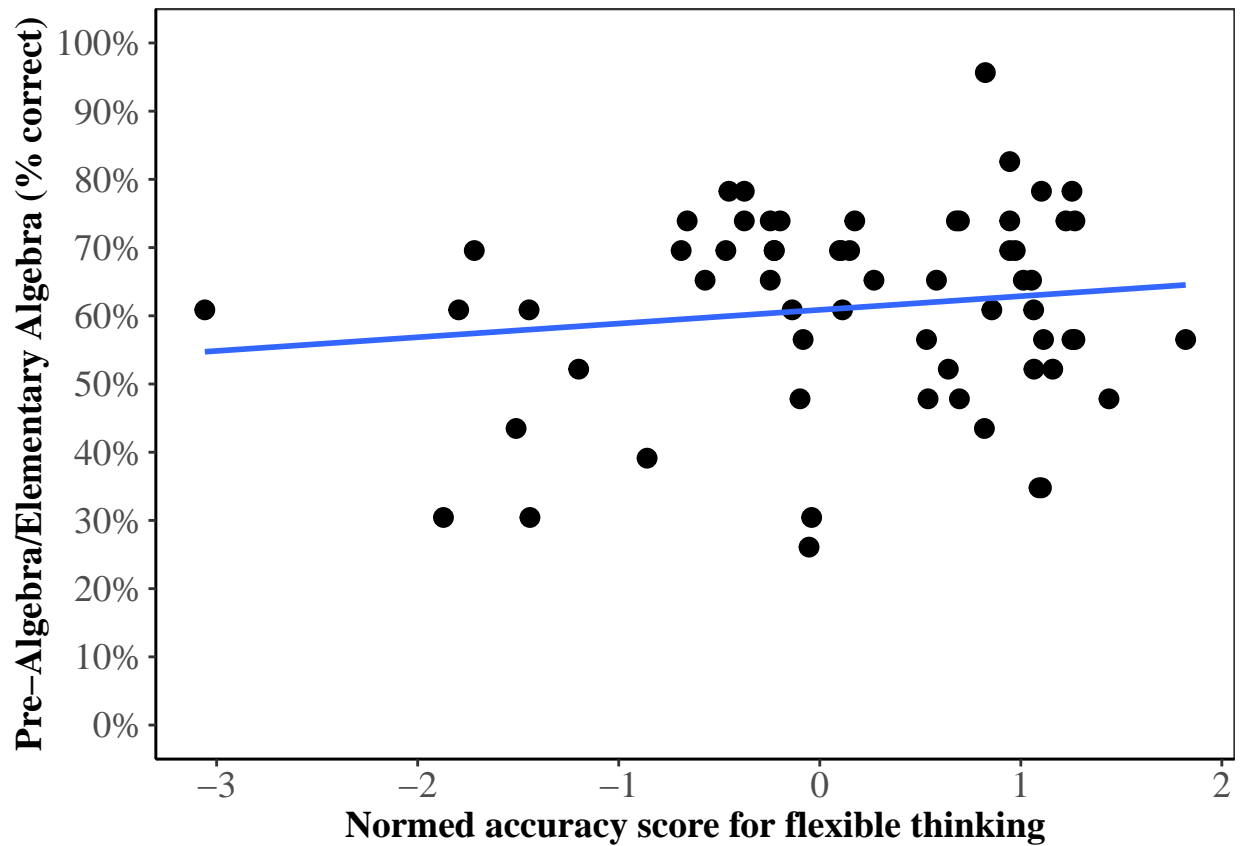
```
##
## Pearson's product-moment correlation
##
## data: EA_DF$VMEM_Az and EA_DF$EAscore
## t = -0.49693, df = 60, p-value = 0.6211
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## -0.3088512 0.1887650
## sample estimates:
## cor
## -0.06402169
```

## Verbal memory speed



```
##
## Pearson's product-moment correlation
##
## data: EA_DF$VMEM_Sz and EA_DF$EAscore
## t = -1.0912, df = 60, p-value = 0.2795
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## -0.3761592 0.1142518
## sample estimates:
## cor
## -0.1394971
```

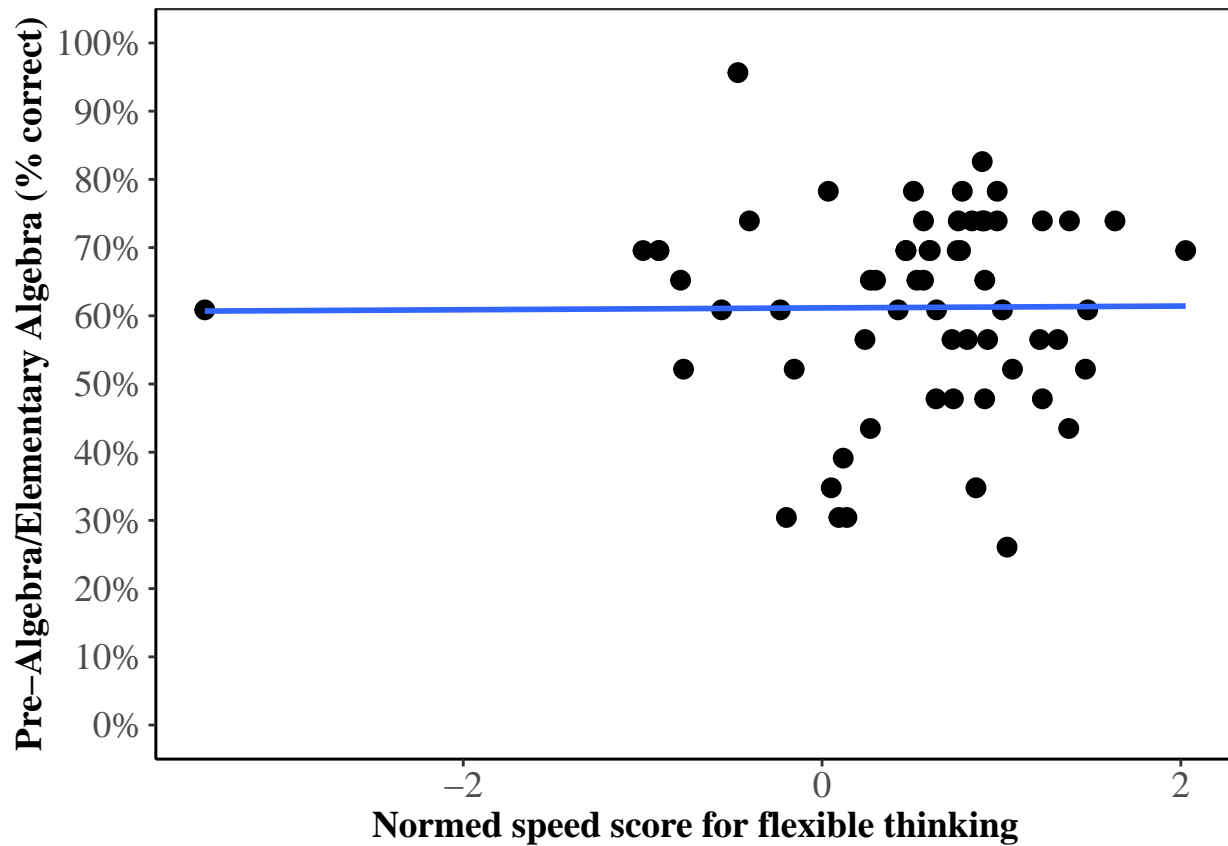
## Flexible thinking accuracy



```
##  
## Pearson's product-moment correlation  
##  
## data: EA_DF$ABF_Az and EA_DF$EAscore  
## t = 1.0713, df = 60, p-value = 0.2883  
## alternative hypothesis: true correlation is not equal to 0  
## 95 percent confidence interval:  
## -0.1167577 0.3739767  
## sample estimates:  
## cor  
## 0.1370059
```

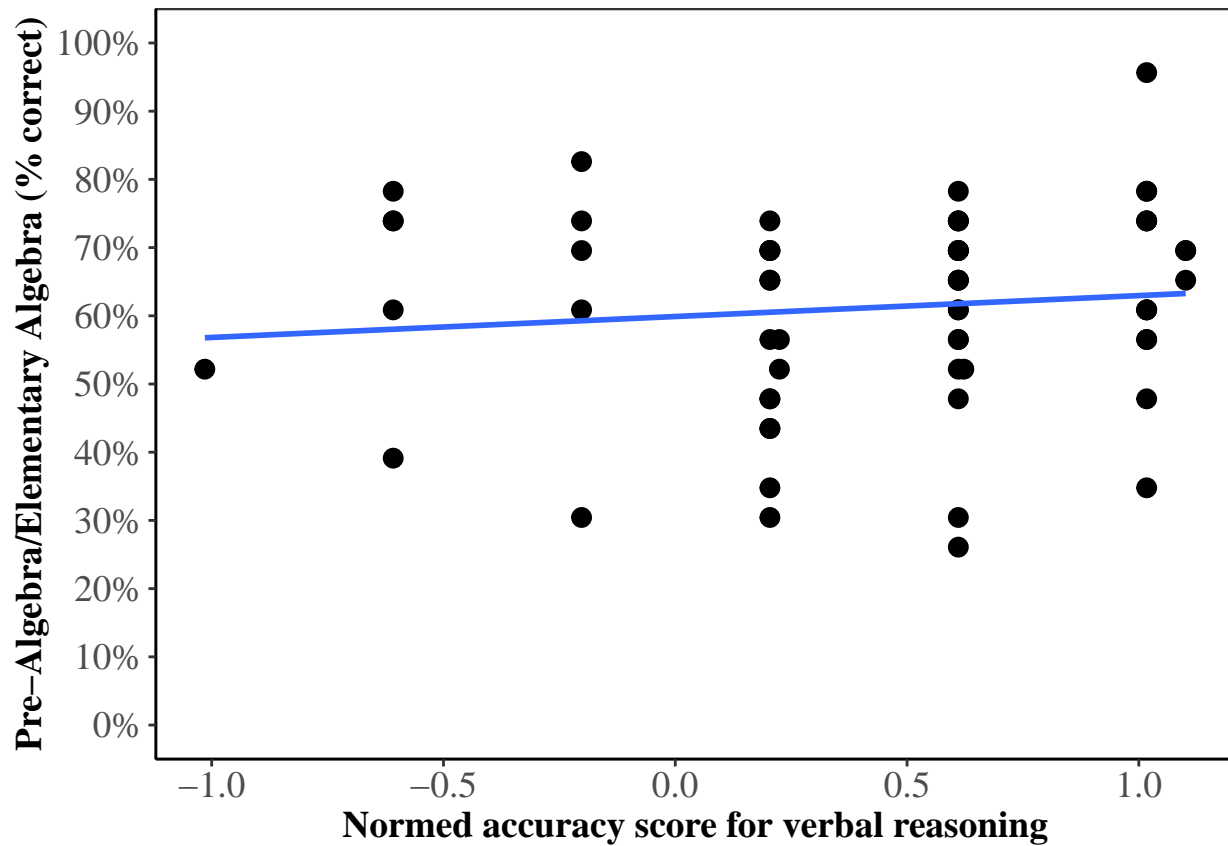


## Flexible thinking speed



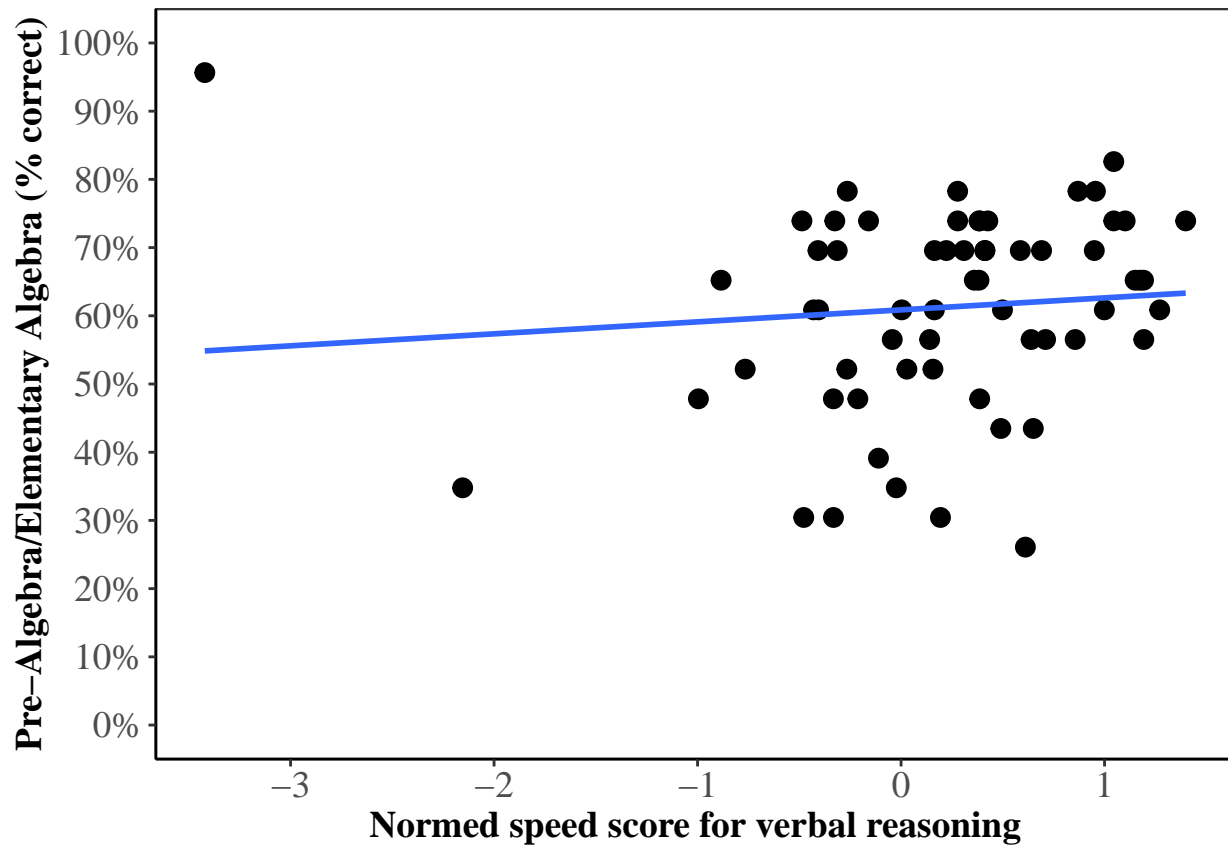
```
##
## Pearson's product-moment correlation
##
## data: EA_DF$ABF_Sz and EA_DF$EAscore
## t = 0.059942, df = 60, p-value = 0.9524
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## -0.2424986 0.2570097
## sample estimates:
## cor
## 0.007738278
```

## Verbal reasoning accuracy



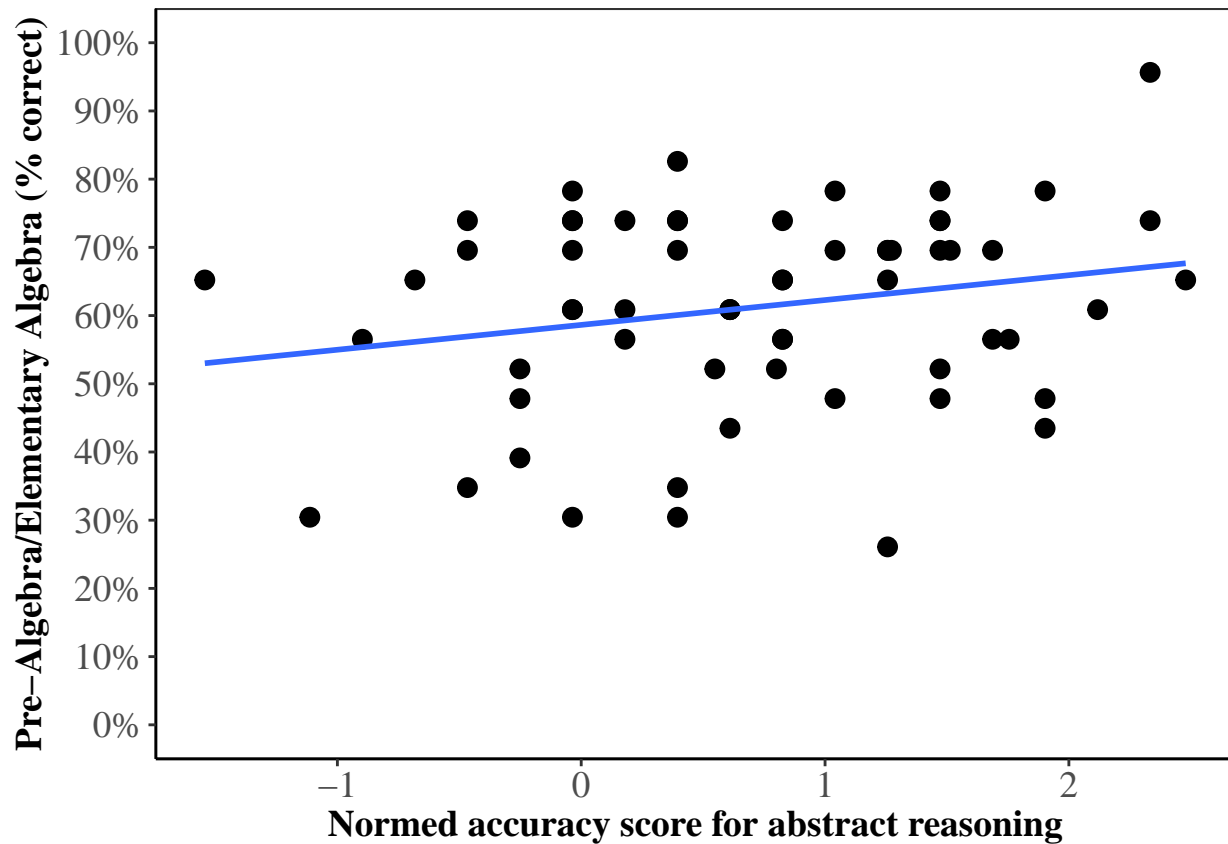
```
##
## Pearson's product-moment correlation
##
## data: EA_DF$LAN_Az and EA_DF$EAscore
## t = 0.85815, df = 60, p-value = 0.3942
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## -0.1436050 0.3502481
## sample estimates:
## cor
## 0.1101127
```

## Verbal reasoning speed



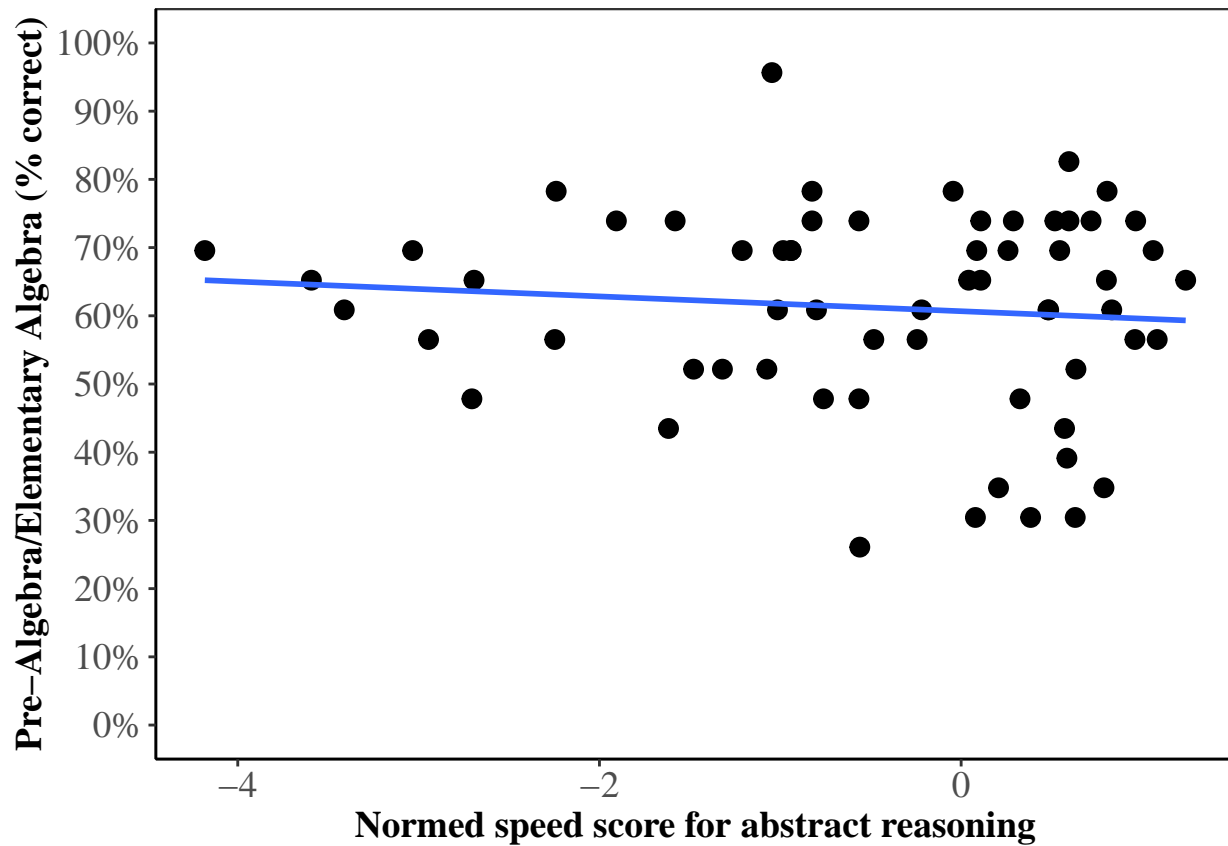
```
##  
## Pearson's product-moment correlation  
##  
## data: EA_DF$LAN_Sz and EA_DF$EAscore  
## t = 0.75375, df = 60, p-value = 0.4539  
## alternative hypothesis: true correlation is not equal to 0  
## 95 percent confidence interval:  
## -0.1567079 0.3384325  
## sample estimates:  
## cor  
## 0.0968511
```

Abstract reasoning accuracy ( $p = 0.08$ )



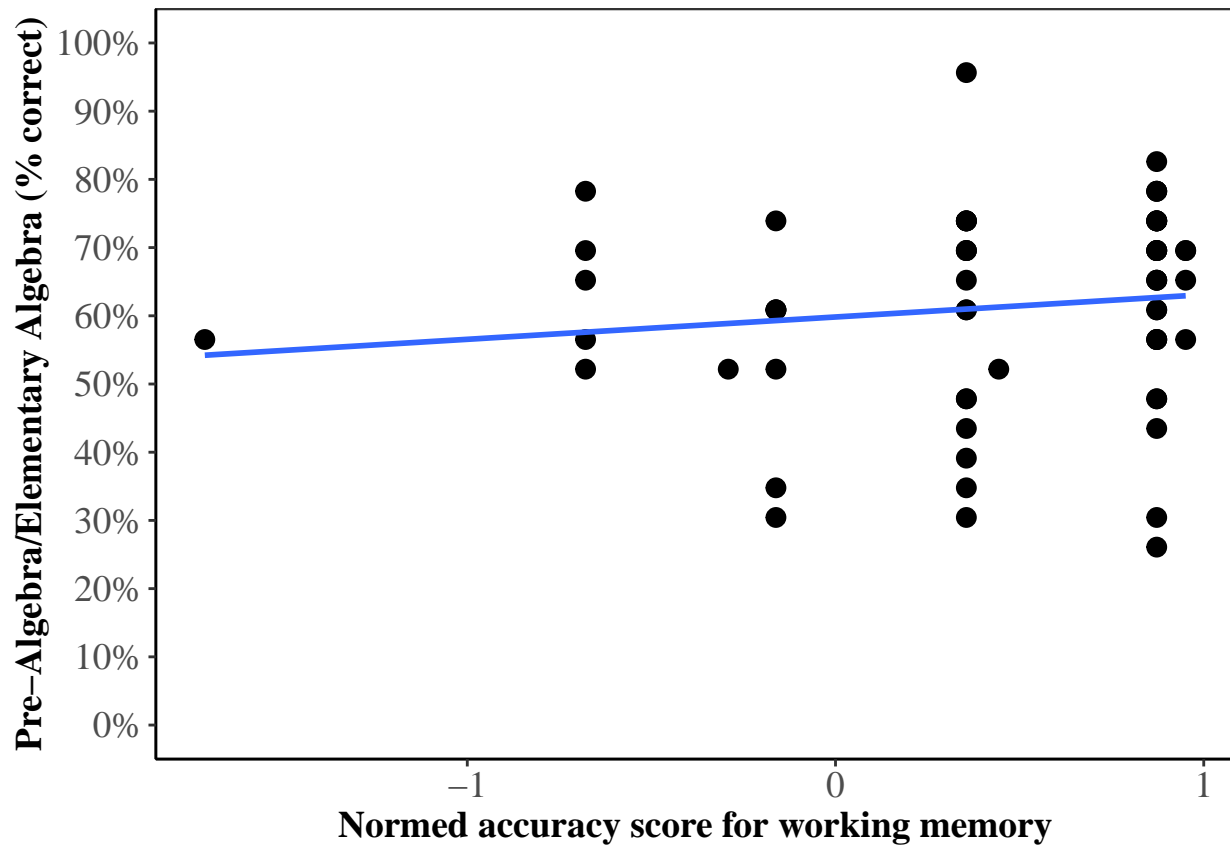
```
##
## Pearson's product-moment correlation
##
## data: EA_DF$NVR_Az and EA_DF$EAscore
## t = 1.7777, df = 60, p-value = 0.08052
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## -0.02762988 0.44839874
## sample estimates:
##      cor
## 0.223682
```

## Abstract reasoning speed



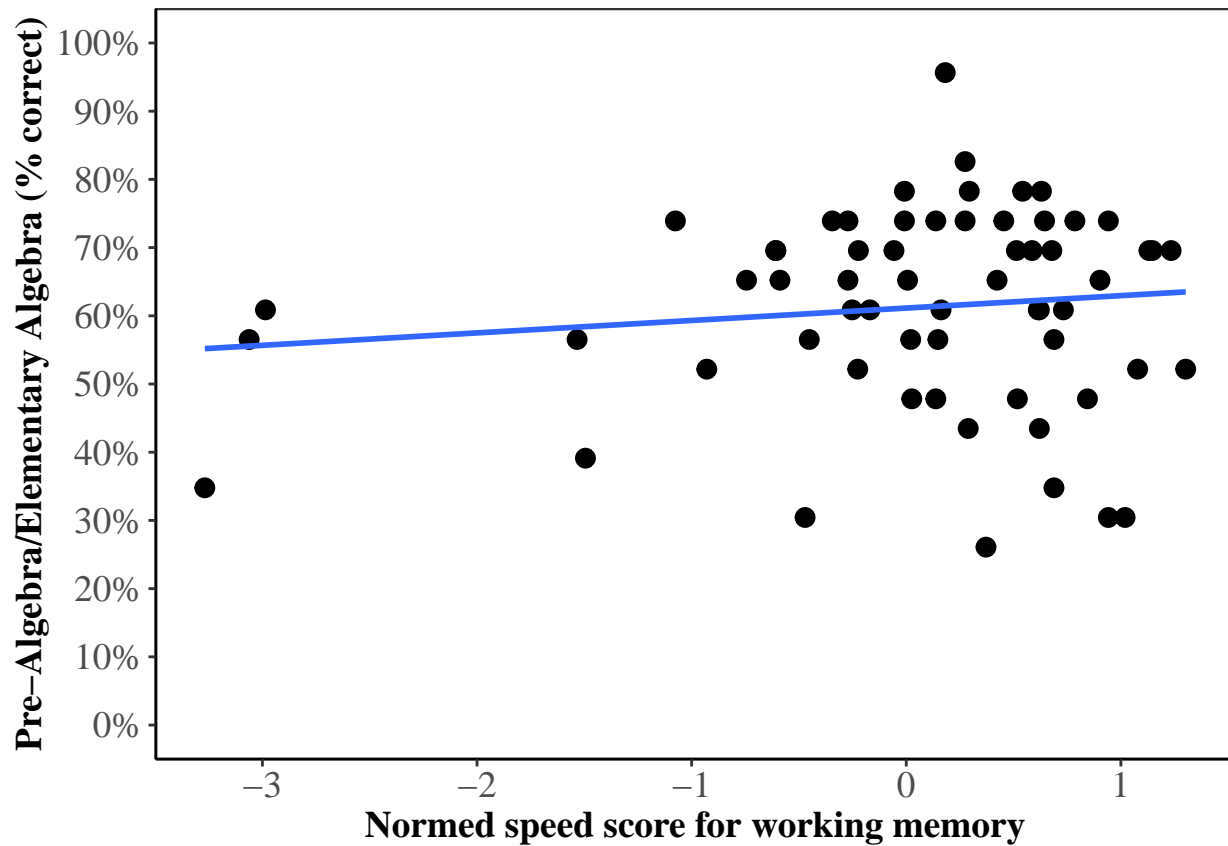
```
##
## Pearson's product-moment correlation
##
## data: EA_DF$NVR_Sz and EA_DF$EAscore
## t = -0.76146, df = 60, p-value = 0.4494
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## -0.3393100 0.1557408
## sample estimates:
##      cor
## -0.097833
```

## Working memory accuracy



```
##
## Pearson's product-moment correlation
##
## data: EA_DF$WM_Az and EA_DF$EAscore
## t = 1.0028, df = 60, p-value = 0.32
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## -0.1254021 0.3664061
## sample estimates:
##      cor
## 0.1283874
```

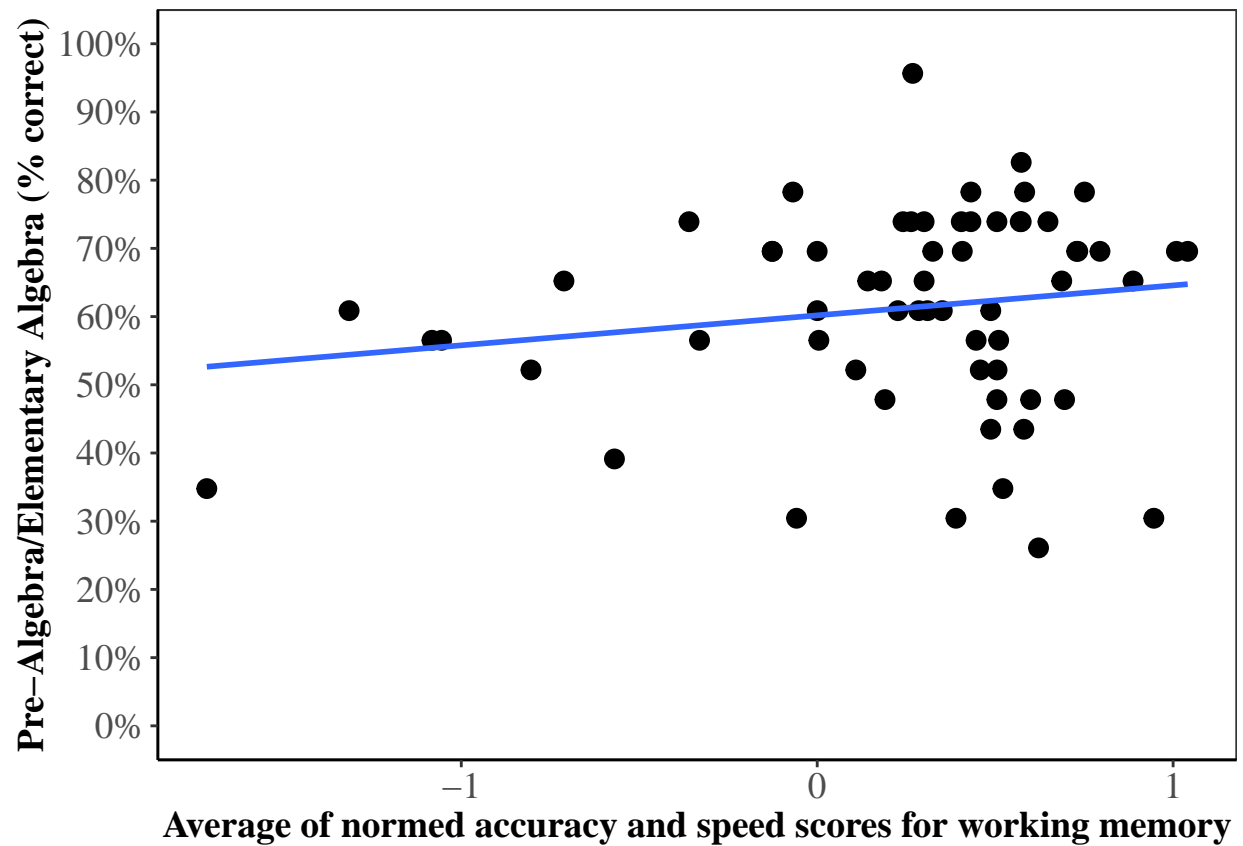
## Working memory speed



```
##  
## Pearson's product-moment correlation  
##  
## data: EA_DF$WM_Sz and EA_DF$EAscore  
## t = 0.93253, df = 60, p-value = 0.3548  
## alternative hypothesis: true correlation is not equal to 0  
## 95 percent confidence interval:  
## -0.1342496 0.3585894  
## sample estimates:  
## cor  
## 0.1195265
```

## Working memory efficiency

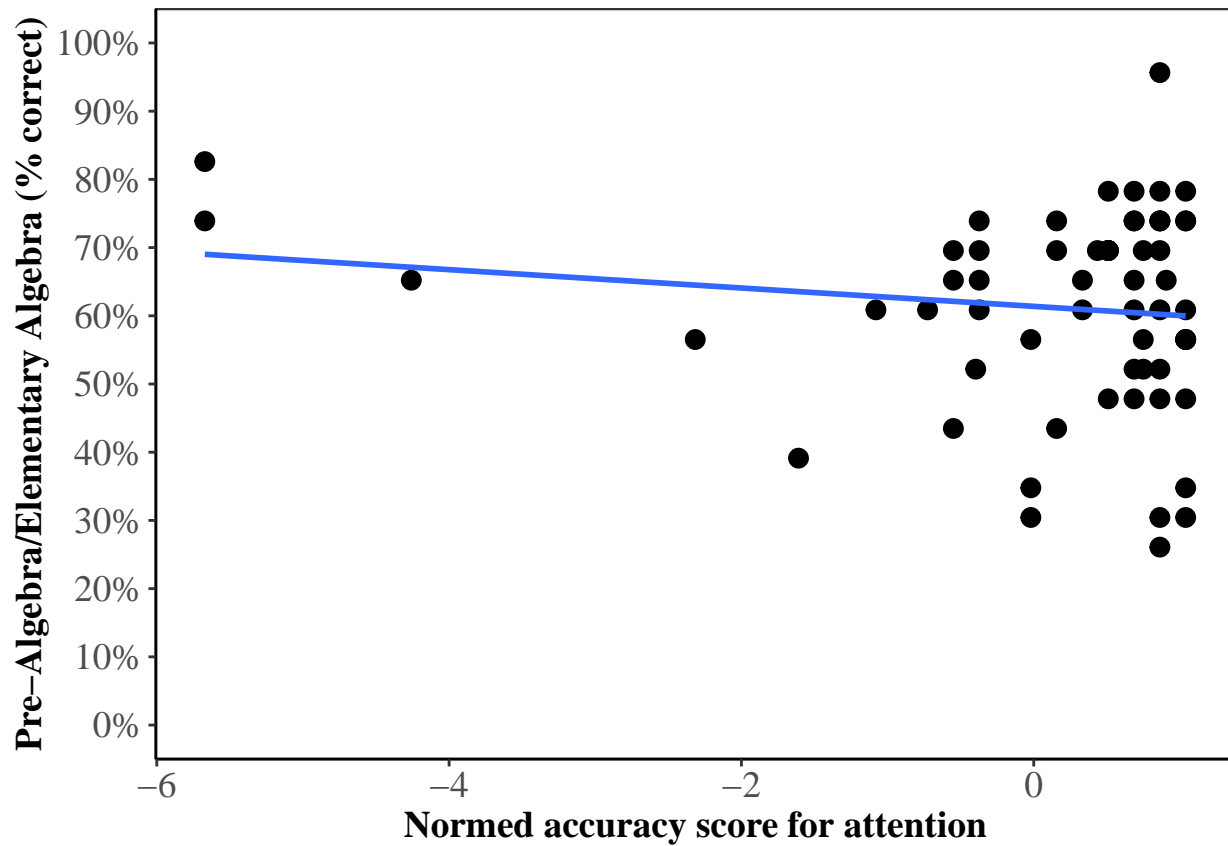
Average of normed accuracy and speed scores for working memory.



```
##
## Pearson's product-moment correlation
##
## data: EA_DF$WM_EFFICIENCY and EA_DF$EAscore
## t = 1.3216, df = 60, p-value = 0.1913
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## -0.08515827 0.40110586
## sample estimates:
## cor
## 0.1681872
```

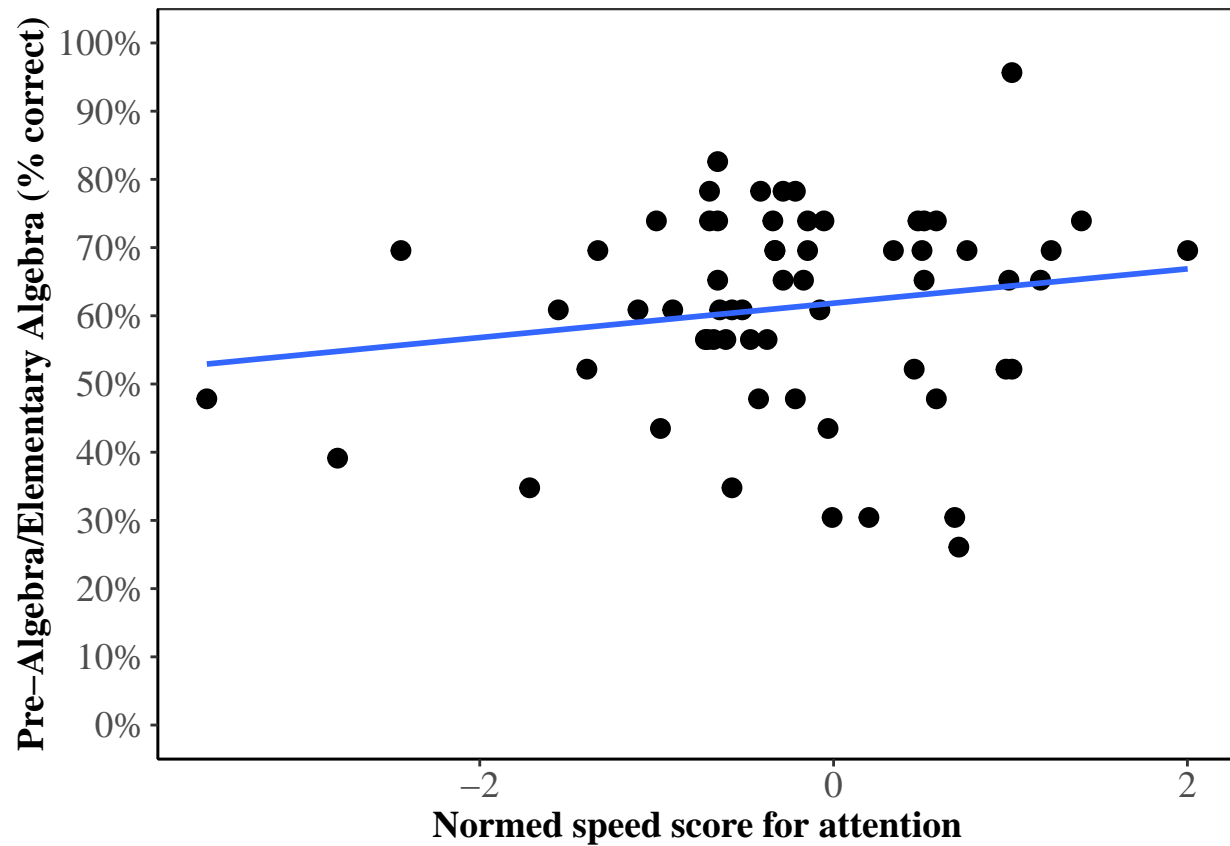


## Attention accuracy



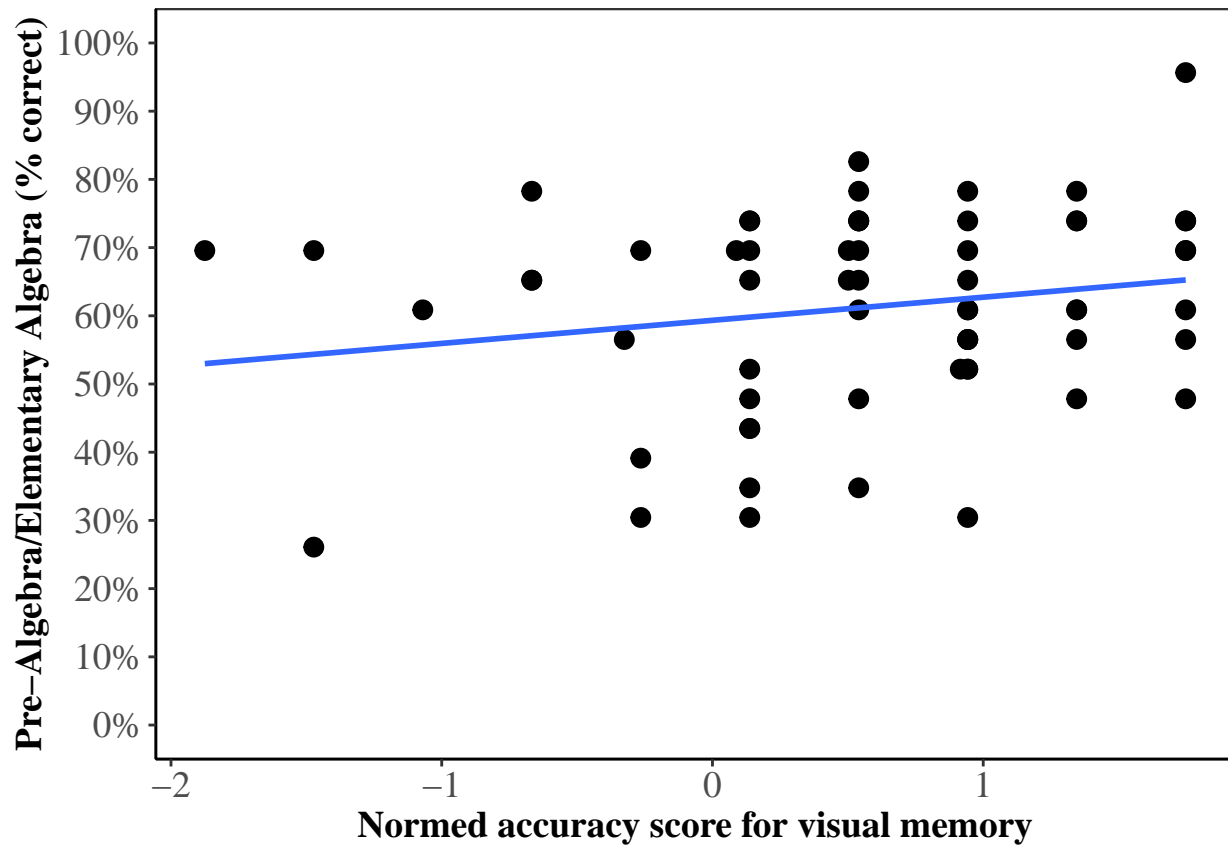
```
##
## Pearson's product-moment correlation
##
## data: EA_DF$ATT_Az and EA_DF$EAscore
## t = -1.0092, df = 60, p-value = 0.3169
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## -0.3671224 0.1245873
## sample estimates:
## cor
## -0.1292013
```

## Attention speed



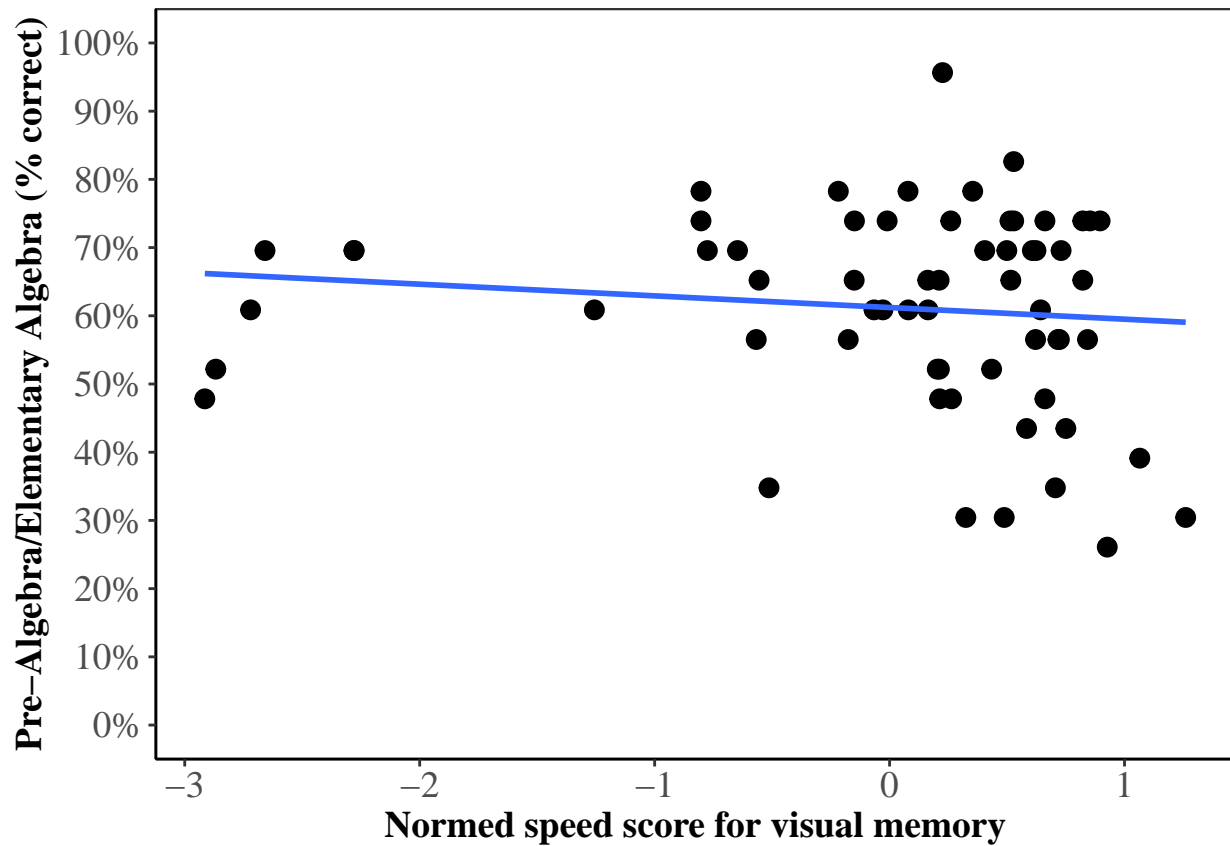
```
##  
## Pearson's product-moment correlation  
##  
## data: EA_DF$ATT_Sz and EA_DF$EAscore  
## t = 1.3331, df = 60, p-value = 0.1875  
## alternative hypothesis: true correlation is not equal to 0  
## 95 percent confidence interval:  
## -0.08370837 0.40233052  
## sample estimates:  
## cor  
## 0.1696059
```

## Visual memory accuracy



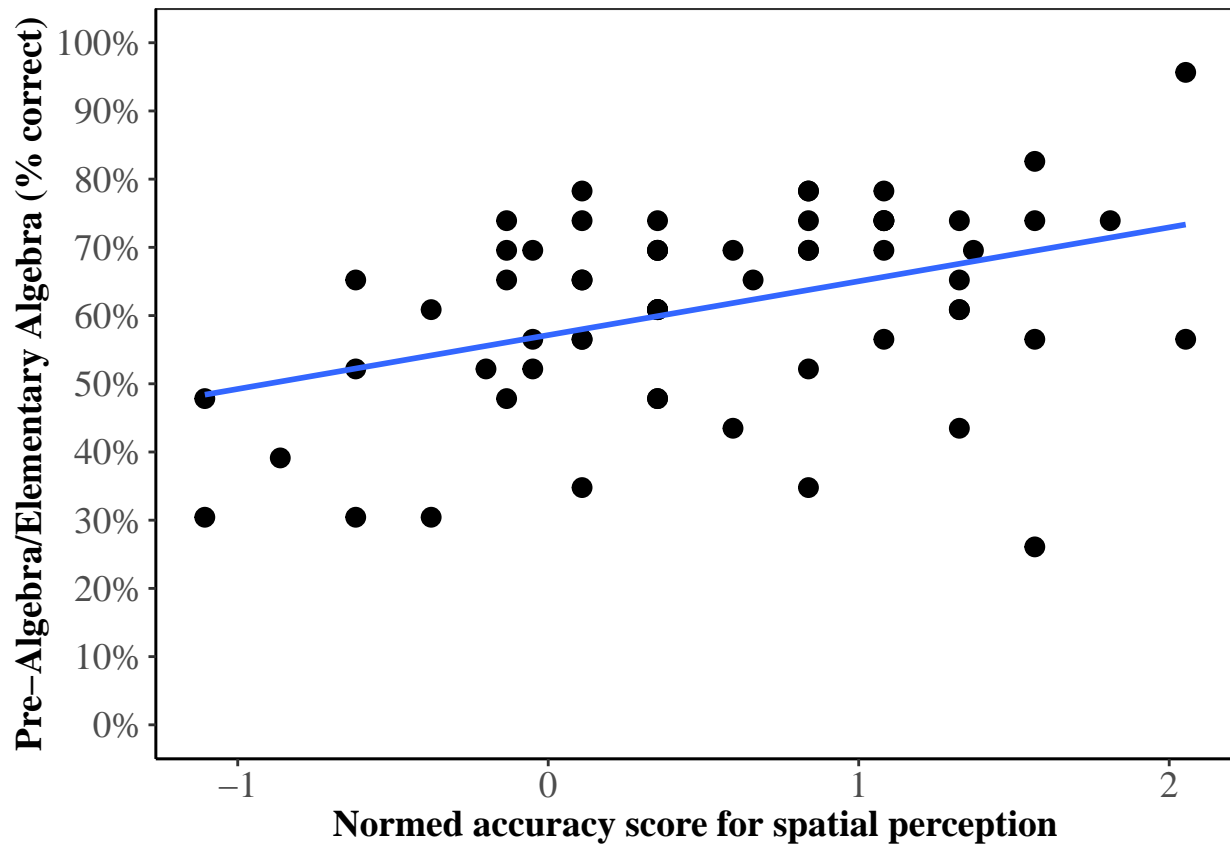
```
##
## Pearson's product-moment correlation
##
## data: EA_DF$MEM_Az and EA_DF$EAscore
## t = 1.5523, df = 60, p-value = 0.1258
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## -0.05602279 0.42538594
## sample estimates:
##      cor
## 0.1964949
```

## Visual memory speed



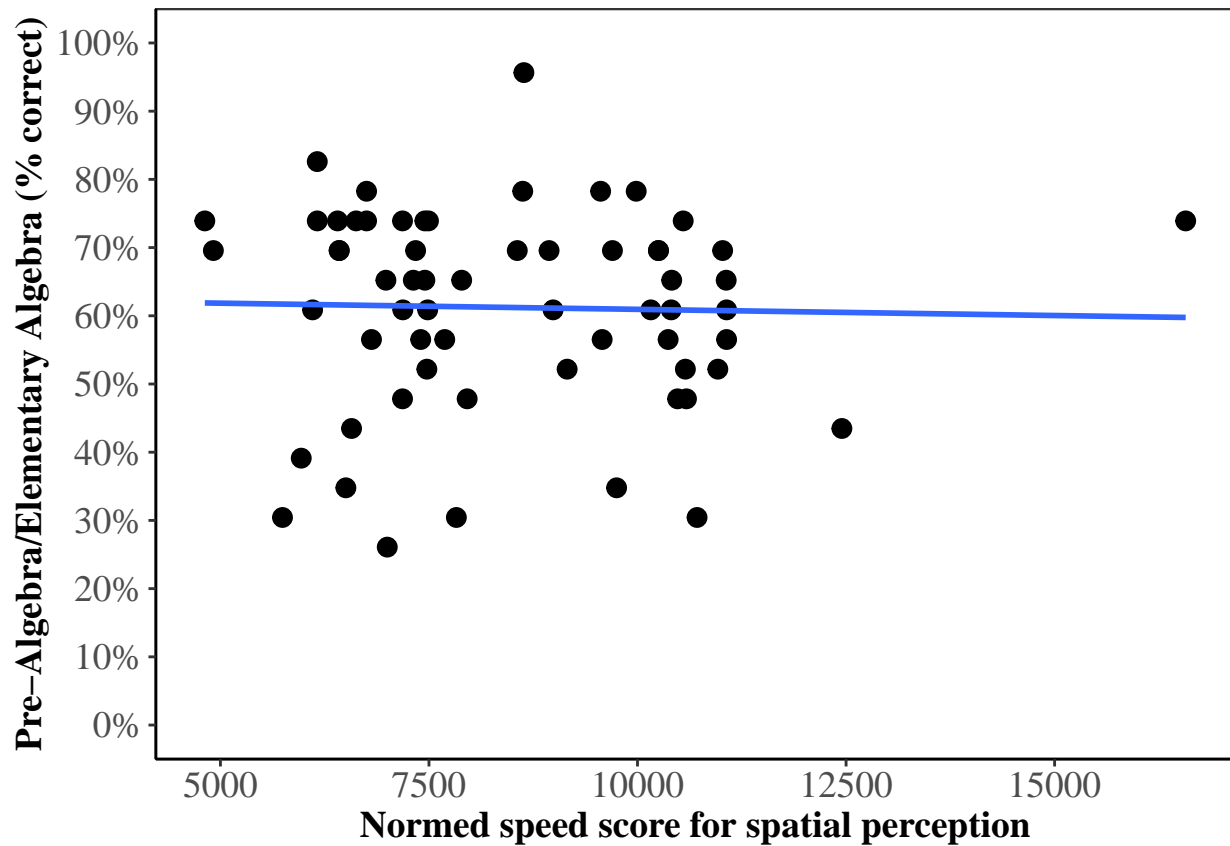
```
##
## Pearson's product-moment correlation
##
## data: EA_DF$MEM_Sz and EA_DF$EAscore
## t = -0.91921, df = 60, p-value = 0.3617
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## -0.3570999 0.1359267
## sample estimates:
## cor
## -0.1178423
```

Spatial perception accuracy ( $p < 0.001$ )



```
##
## Pearson's product-moment correlation
##
## data: EA_DF$SPA_Az and EA_DF$EAscore
## t = 3.4656, df = 60, p-value = 0.0009835
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  0.1766443 0.5972414
## sample estimates:
##          cor
## 0.4083941
```

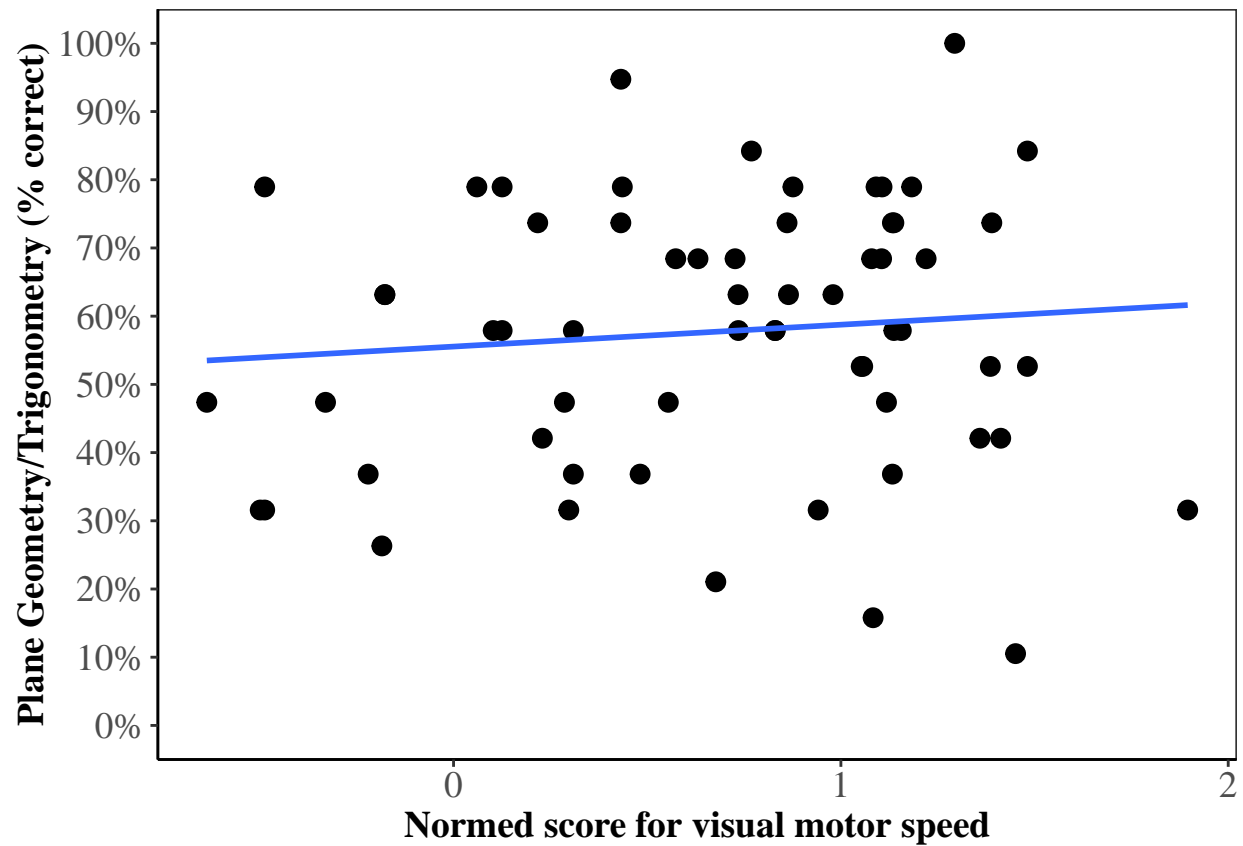
## Spatial perception speed



```
##  
## Pearson's product-moment correlation  
##  
## data: EA_DF$SPA_Sz and EA_DF$EAscore  
## t = -0.20357, df = 60, p-value = 0.8394  
## alternative hypothesis: true correlation is not equal to 0  
## 95 percent confidence interval:  
## -0.2742406 0.2249725  
## sample estimates:  
## cor  
## -0.02627193
```

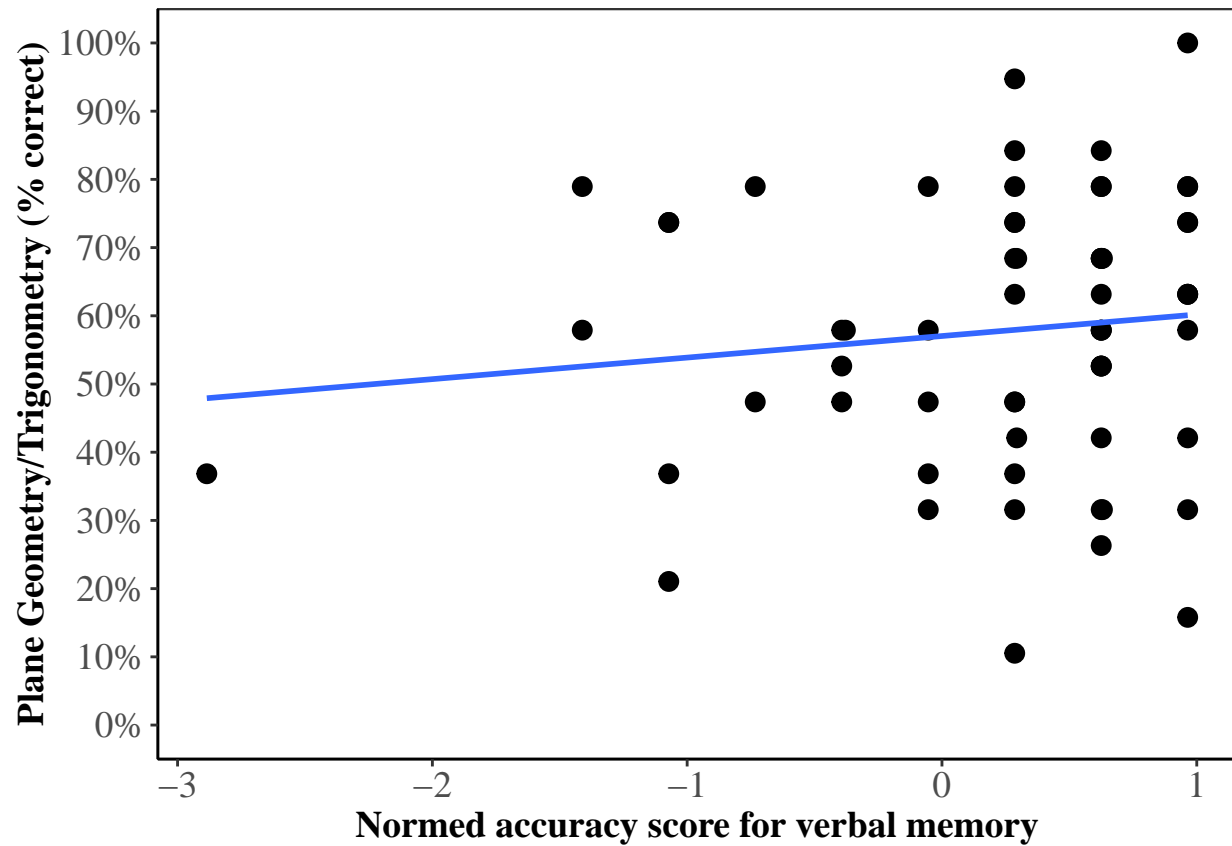
## GT/ Plane Geometry/Trigonometry Subsection

Visual motor speed



```
##
## Pearson's product-moment correlation
##
## data: GT_DF$SM_Sz and GT_DF$GTscore
## t = 0.7567, df = 60, p-value = 0.4522
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## -0.1563379 0.3387683
## sample estimates:
## cor
## 0.09722685
```

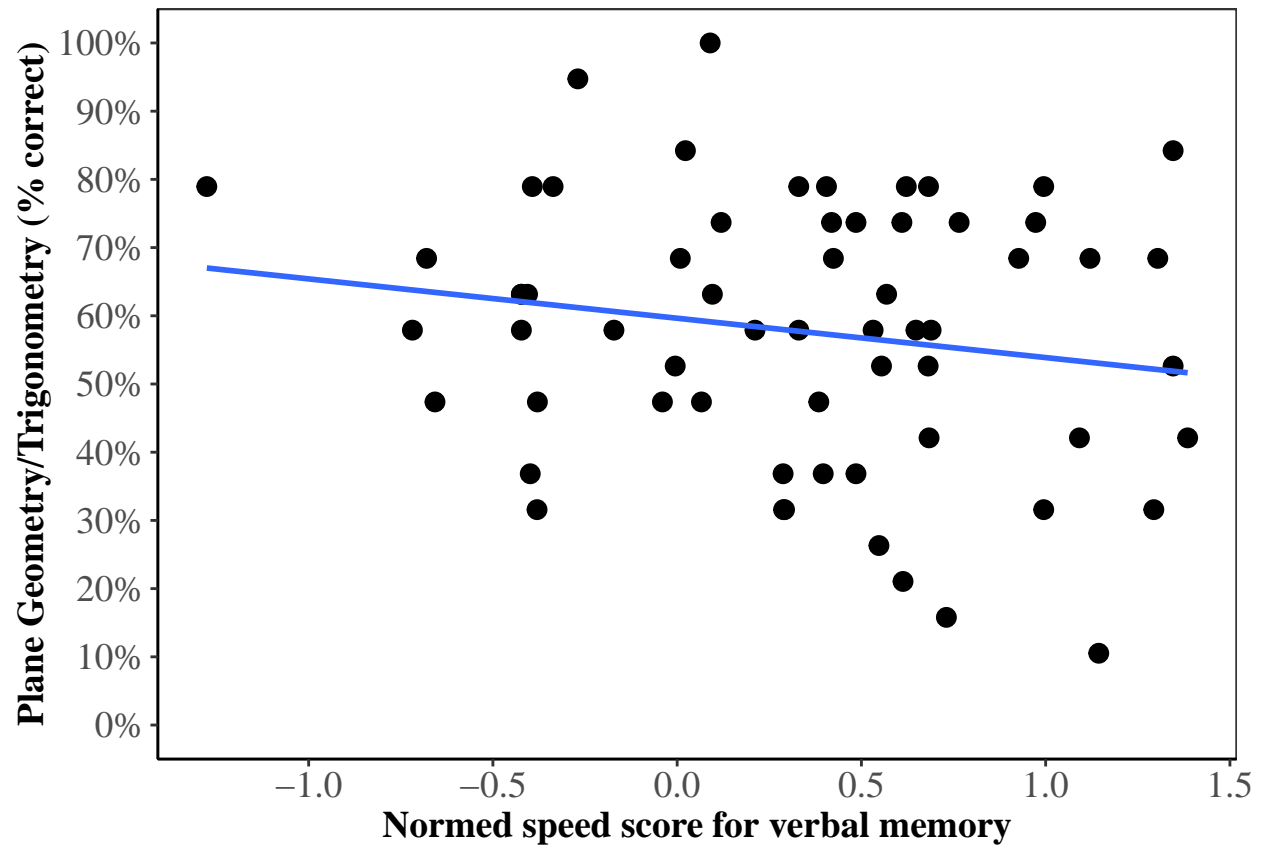
## Verbal memory accuracy



```
##
## Pearson's product-moment correlation
##
## data: GT_DF$VMEM_Az and GT_DF$GTscore
## t = 0.95425, df = 60, p-value = 0.3438
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## -0.1315162 0.3610117
## sample estimates:
## cor
## 0.1222684
```

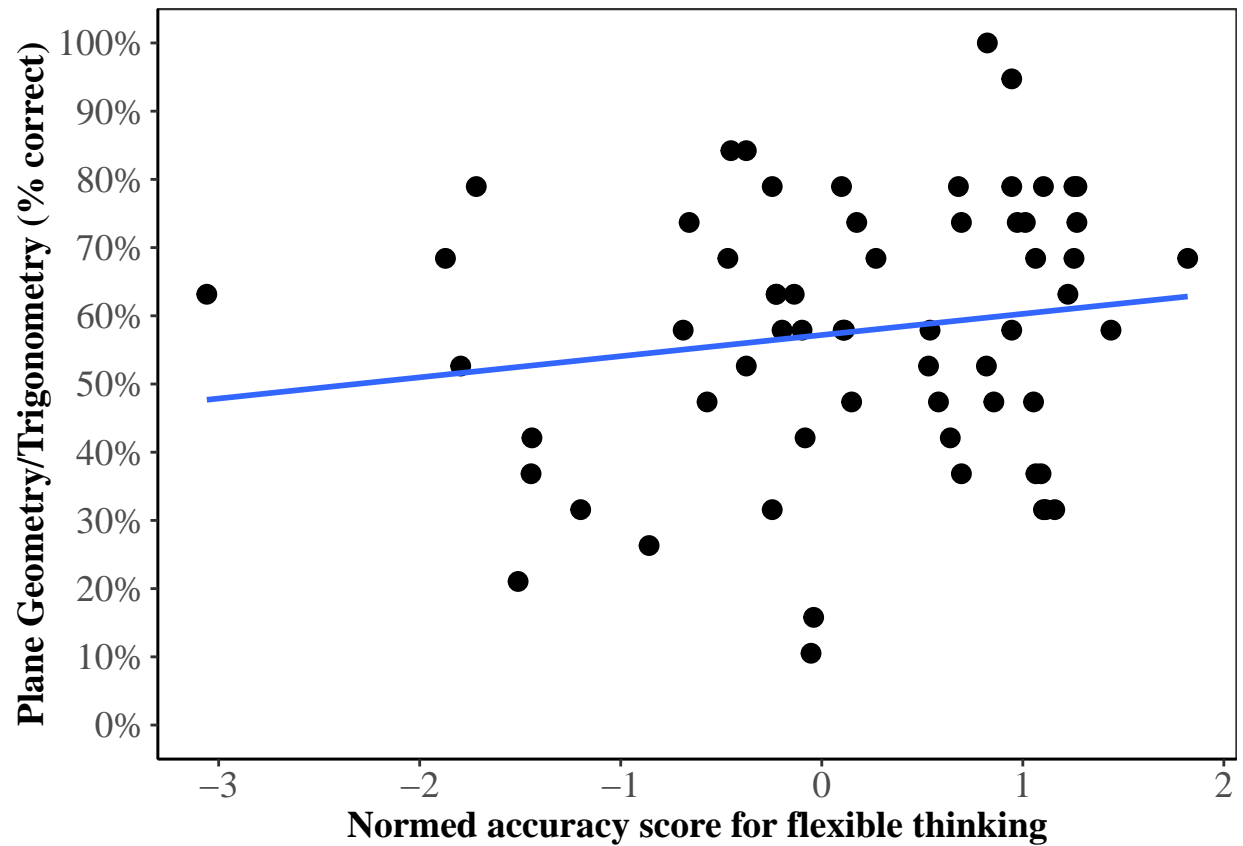


## Verbal memory speed



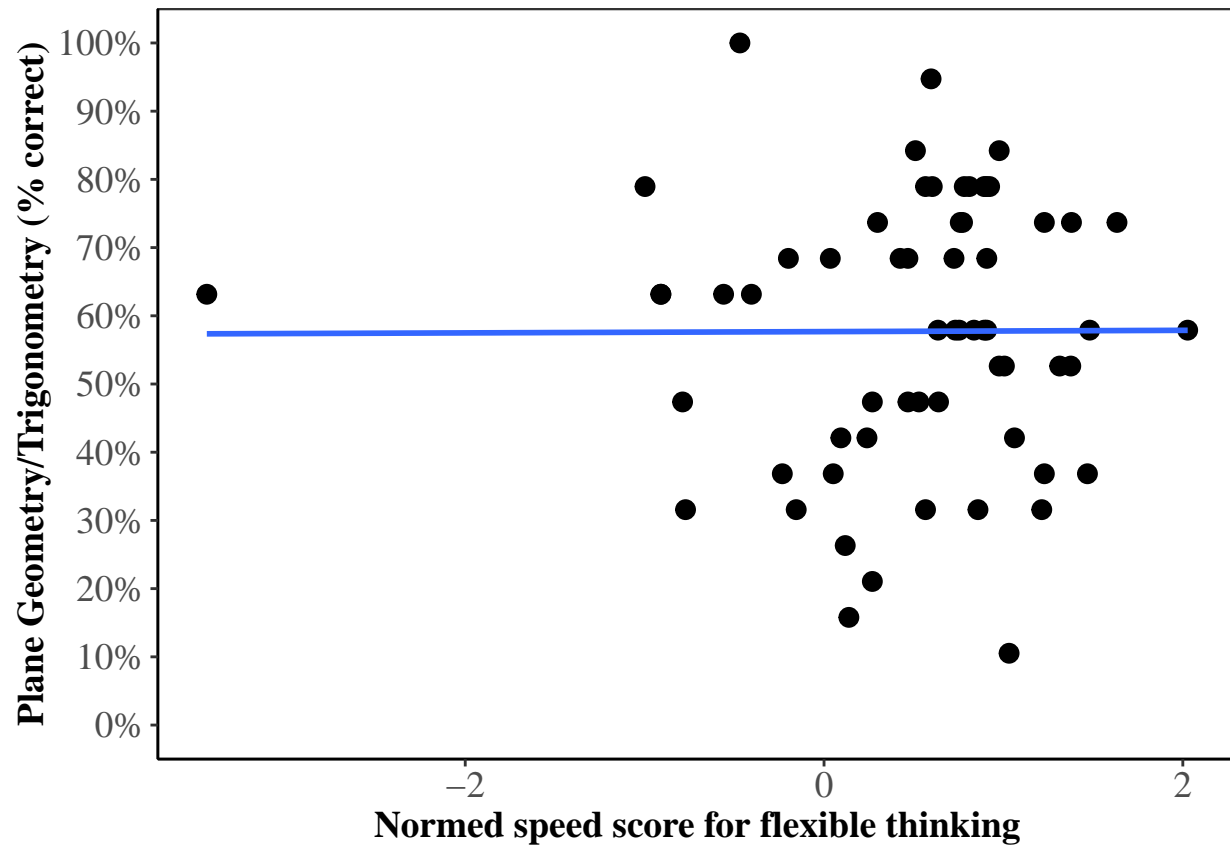
```
##  
## Pearson's product-moment correlation  
##  
## data: GT_DF$VMEM_Sz and GT_DF$GTscore  
## t = -1.3853, df = 60, p-value = 0.1711  
## alternative hypothesis: true correlation is not equal to 0  
## 95 percent confidence interval:  
## -0.40788356 0.07710802  
## sample estimates:  
## cor  
## -0.1760508
```

## Flexible thinking accuracy



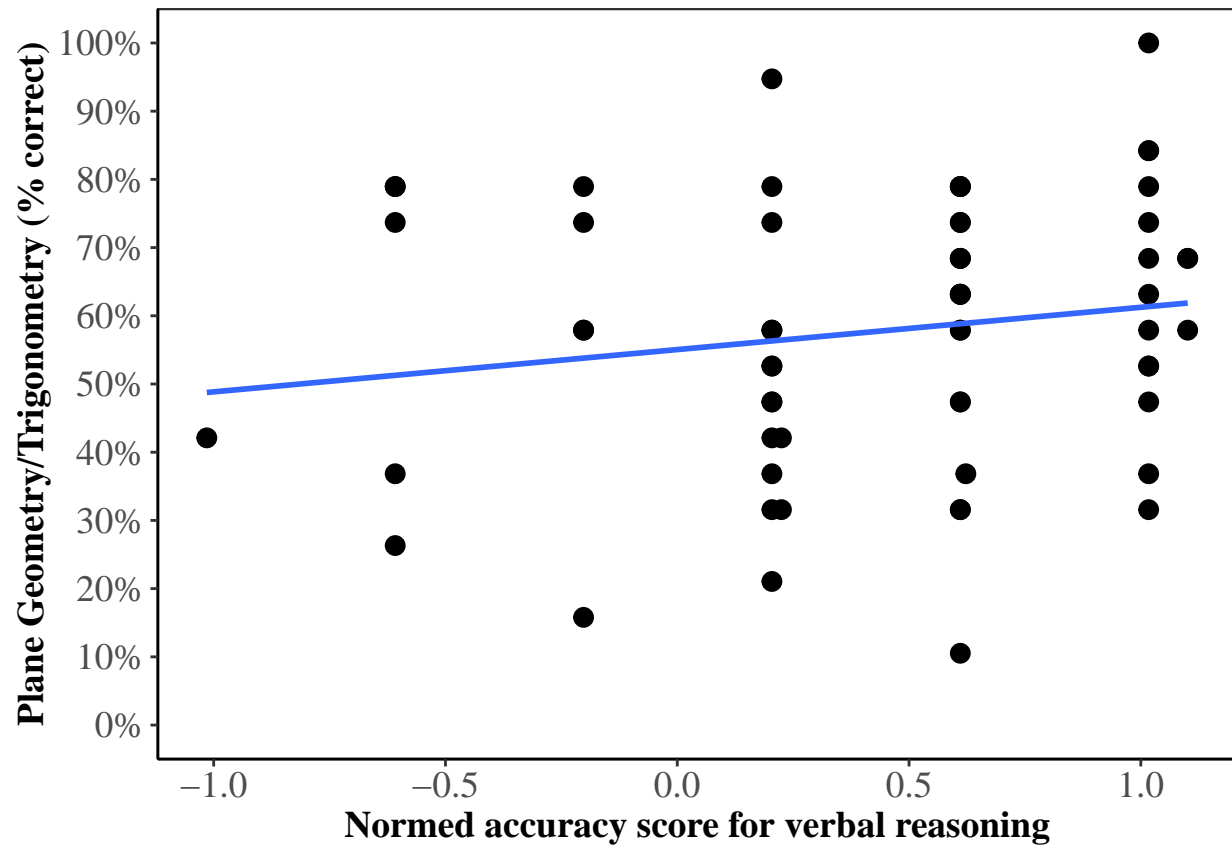
```
##  
## Pearson's product-moment correlation  
##  
## data: GT_DF$ABF_Az and GT_DF$GTscore  
## t = 1.2383, df = 60, p-value = 0.2204  
## alternative hypothesis: true correlation is not equal to 0  
## 95 percent confidence interval:  
## -0.09568414 0.39216283  
## sample estimates:  
## cor  
## 0.1578567
```

## Flexible thinking speed



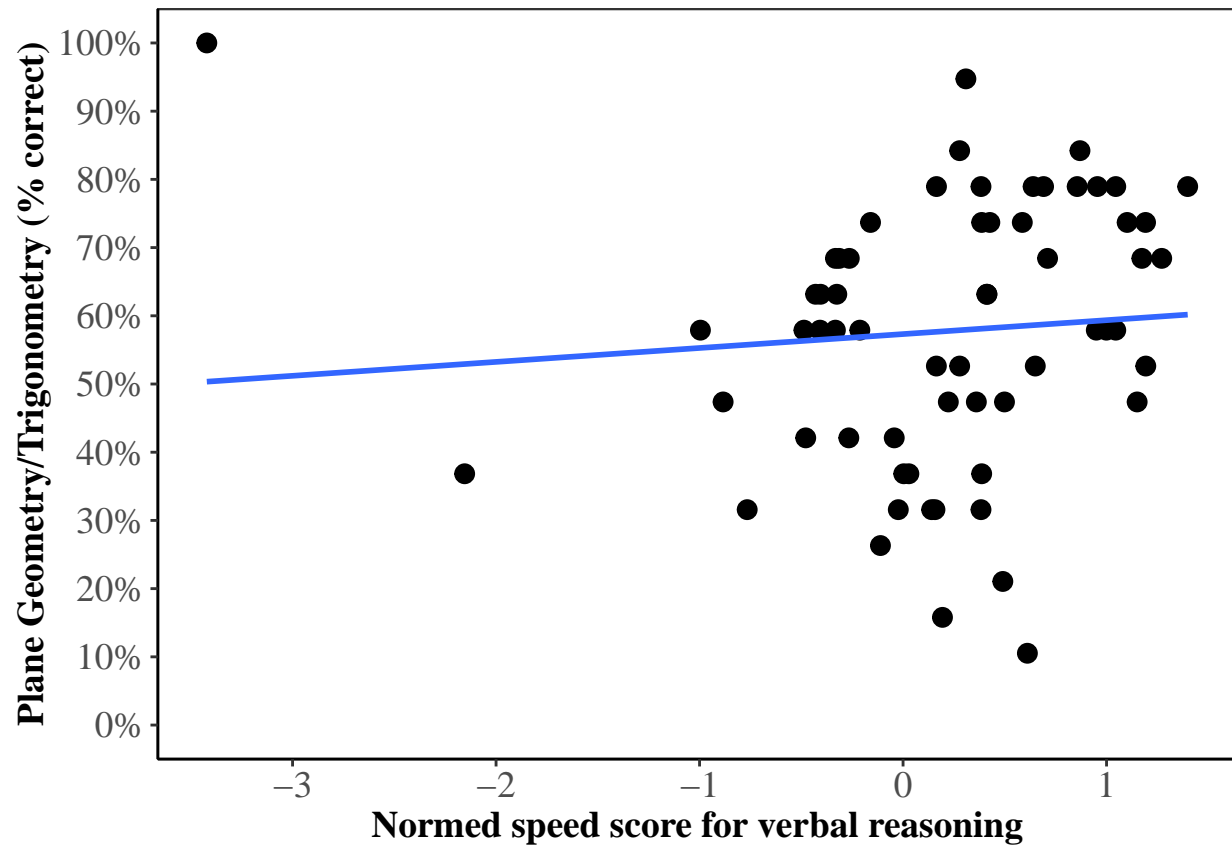
```
##  
## Pearson's product-moment correlation  
##  
## data: GT_DF$ABF_Sz and GT_DF$GTscore  
## t = 0.031078, df = 60, p-value = 0.9753  
## alternative hypothesis: true correlation is not equal to 0  
## 95 percent confidence interval:  
## -0.2460026 0.2535263  
## sample estimates:  
## cor  
## 0.004012161
```

## Verbal reasoning accuracy



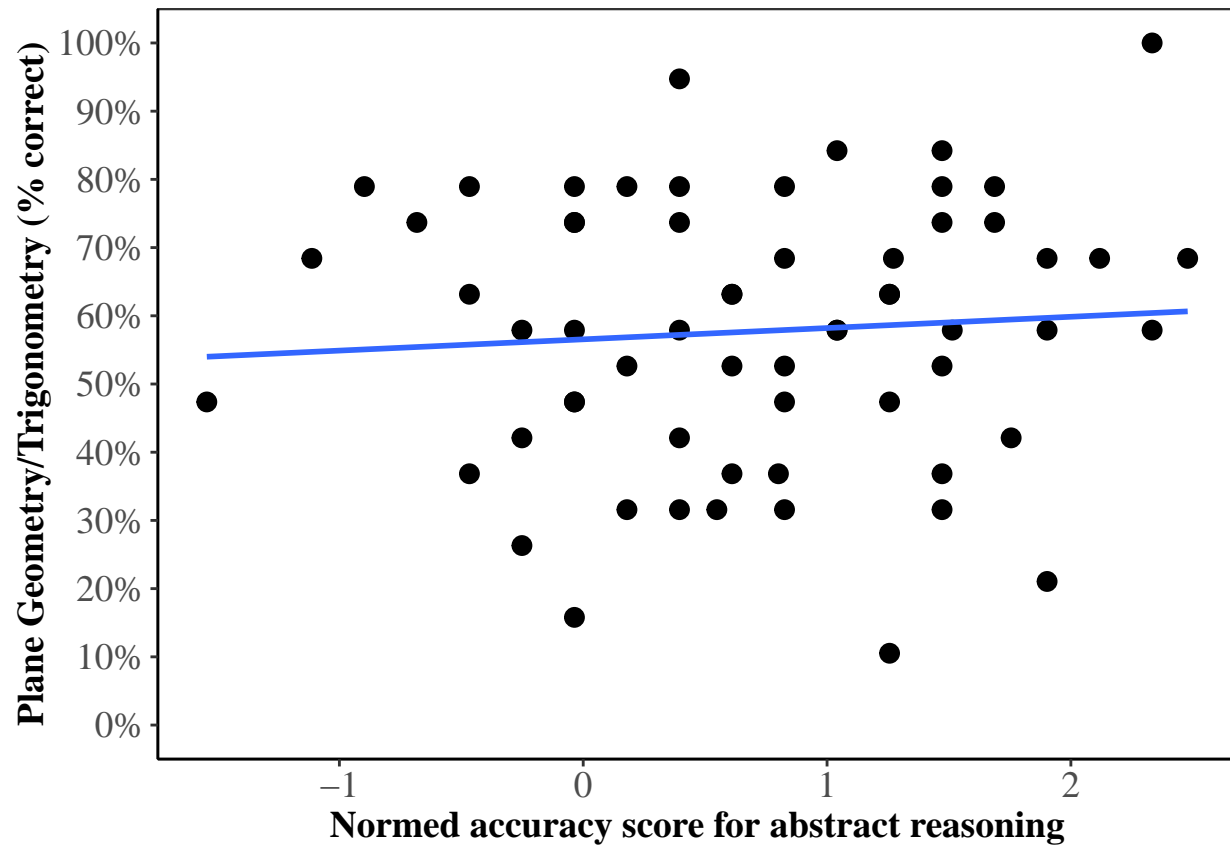
```
##
## Pearson's product-moment correlation
##
## data: GT_DF$LAN_Az and GT_DF$GTscore
## t = 1.3017, df = 60, p-value = 0.198
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## -0.08767739 0.39897397
## sample estimates:
##      cor
## 0.1657199
```

## Verbal reasoning speed



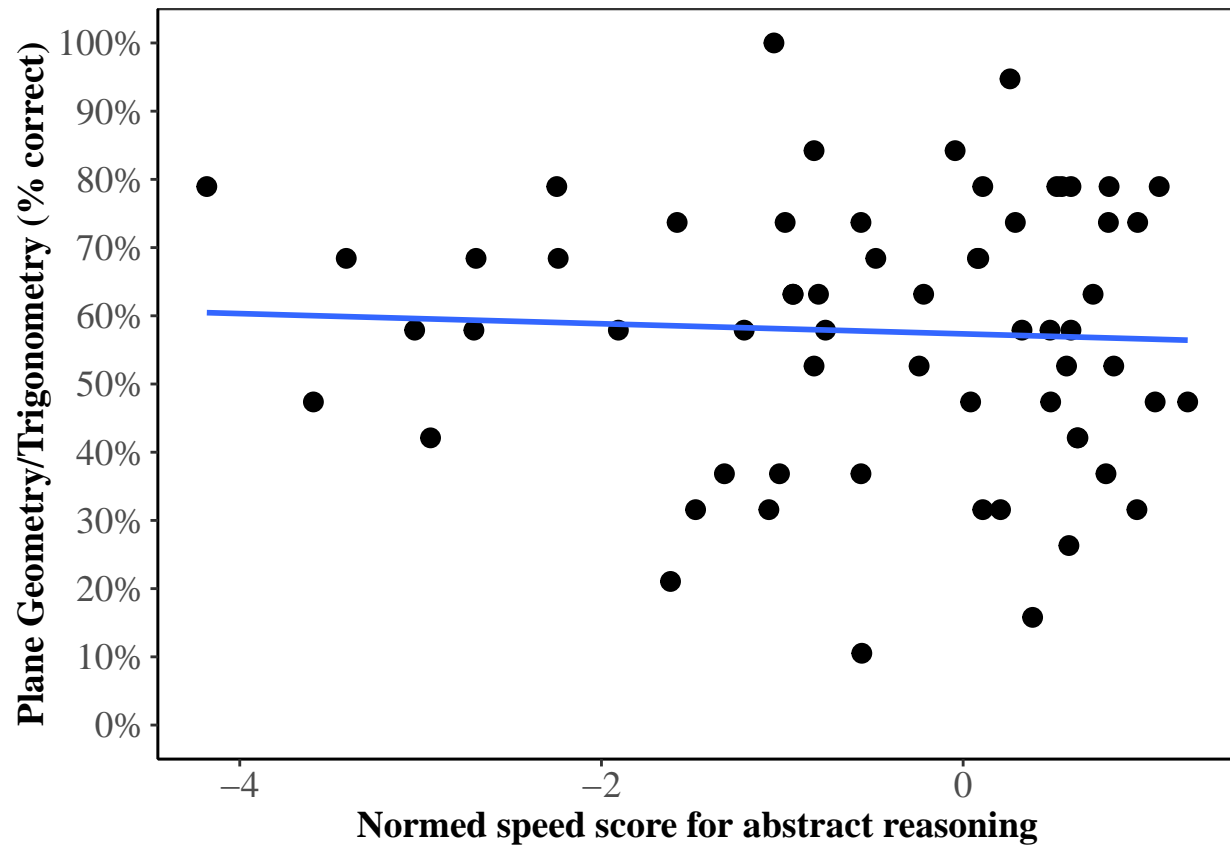
```
##
## Pearson's product-moment correlation
##
## data: GT_DF$LAN_Sz and GT_DF$GTscore
## t = 0.6507, df = 60, p-value = 0.5177
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## -0.1696046 0.3266484
## sample estimates:
## cor
## 0.08370973
```

## Abstract reasoning accuracy



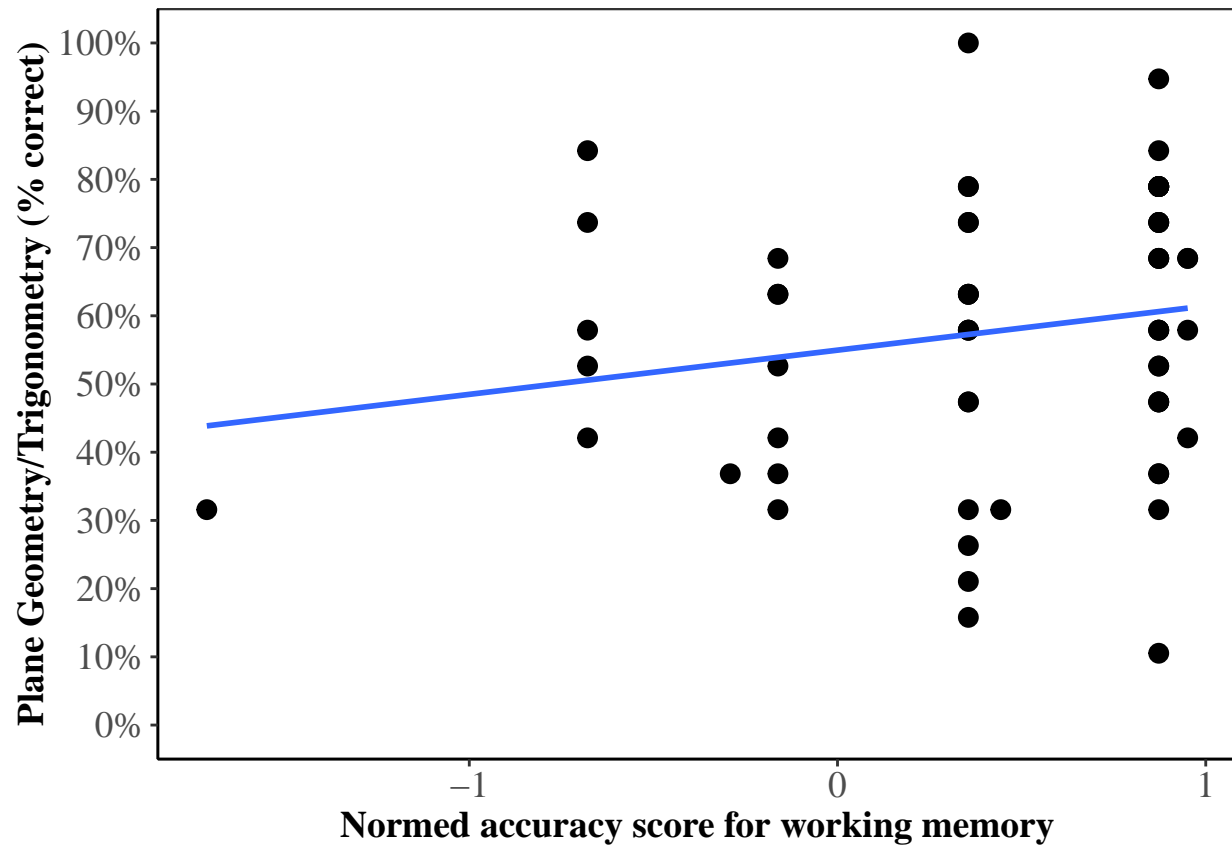
```
##
## Pearson's product-moment correlation
##
## data: GT_DF$NVR_Az and GT_DF$GTscore
## t = 0.58772, df = 60, p-value = 0.5589
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## -0.1774645 0.3193899
## sample estimates:
## cor
## 0.07565716
```

## Abstract reasoning speed



```
##
## Pearson's product-moment correlation
##
## data: GT_DF$NVR_Sz and GT_DF$GTscore
## t = -0.38667, df = 60, p-value = 0.7004
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## -0.2959397 0.2024323
## sample estimates:
##          cor
## -0.04985673
```

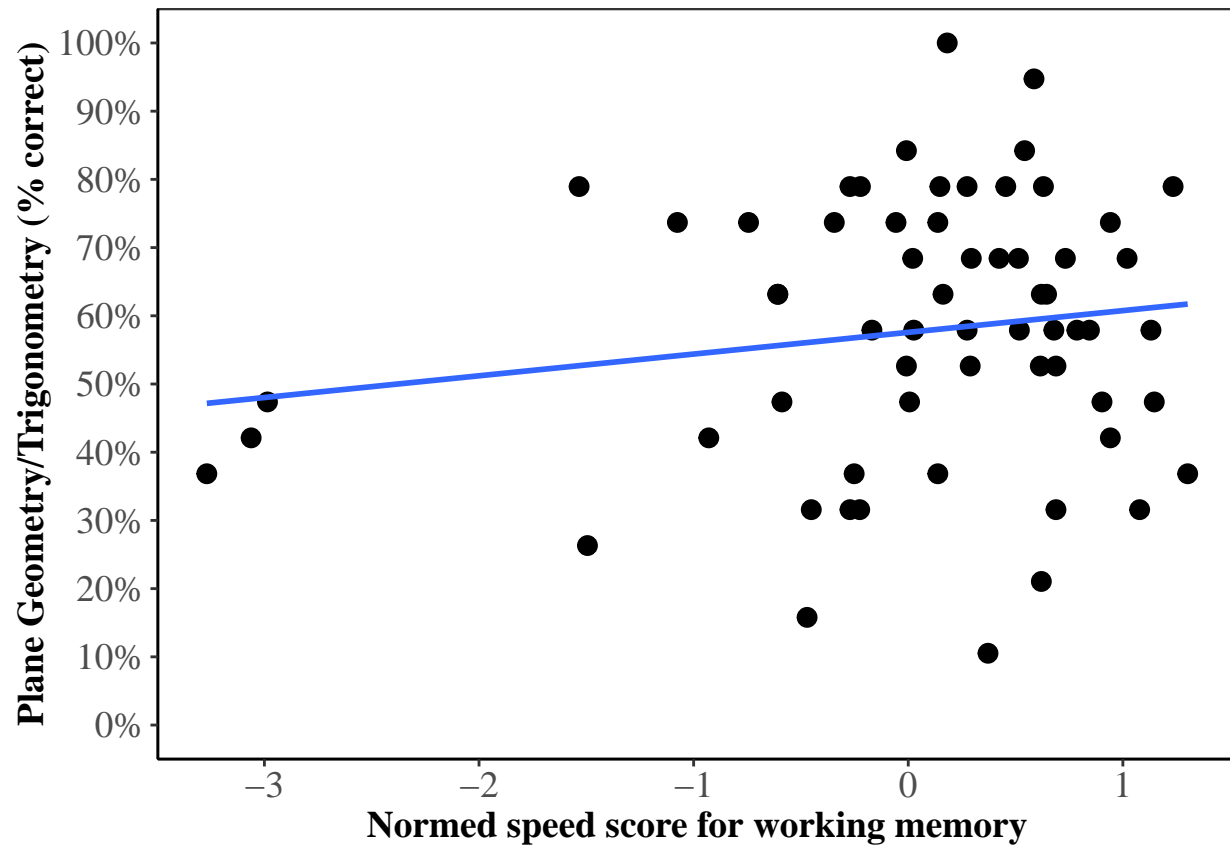
## Working memory accuracy



```
##  
## Pearson's product-moment correlation  
##  
## data: GT_DF$WM_Az and GT_DF$GTscore  
## t = 1.4945, df = 60, p-value = 0.1403  
## alternative hypothesis: true correlation is not equal to 0  
## 95 percent confidence interval:  
## -0.06331442 0.41937379  
## sample estimates:  
## cor  
## 0.1894497
```



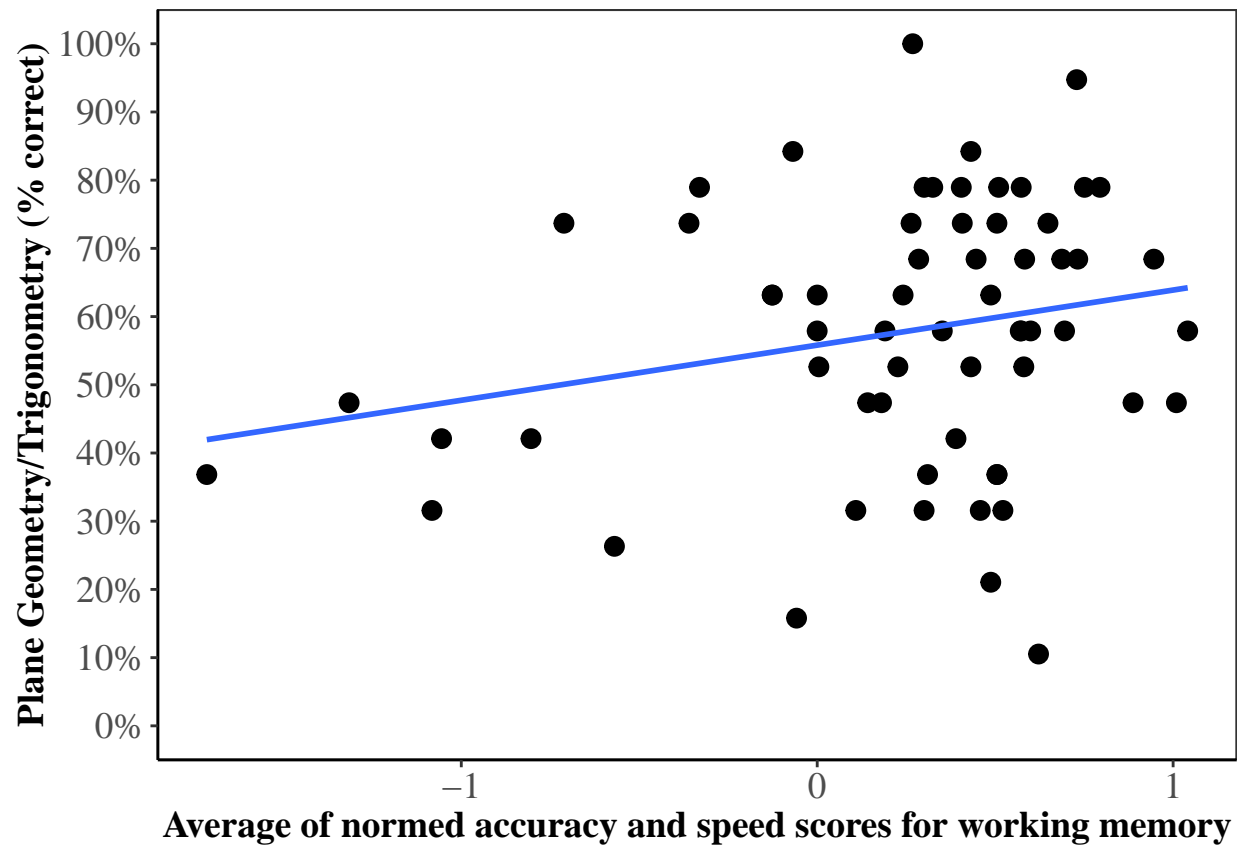
## Working memory speed



```
##  
## Pearson's product-moment correlation  
##  
## data: GT_DF$WM_Sz and GT_DF$GTscore  
## t = 1.2217, df = 60, p-value = 0.2266  
## alternative hypothesis: true correlation is not equal to 0  
## 95 percent confidence interval:  
## -0.0977792 0.3903717  
## sample estimates:  
## cor  
## 0.1557938
```

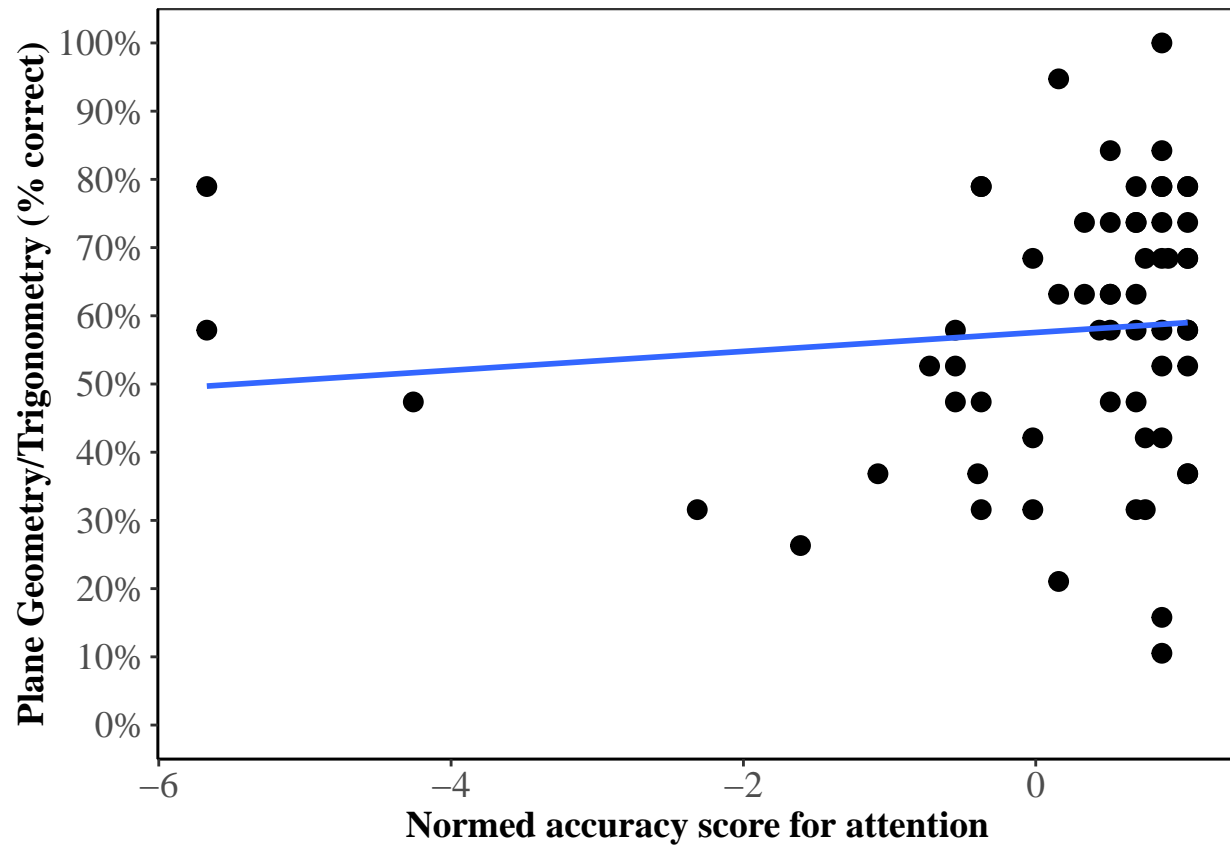
Working memory efficiency ( $p = 0.07$ )

Average of normed accuracy and speed scores for working memory.



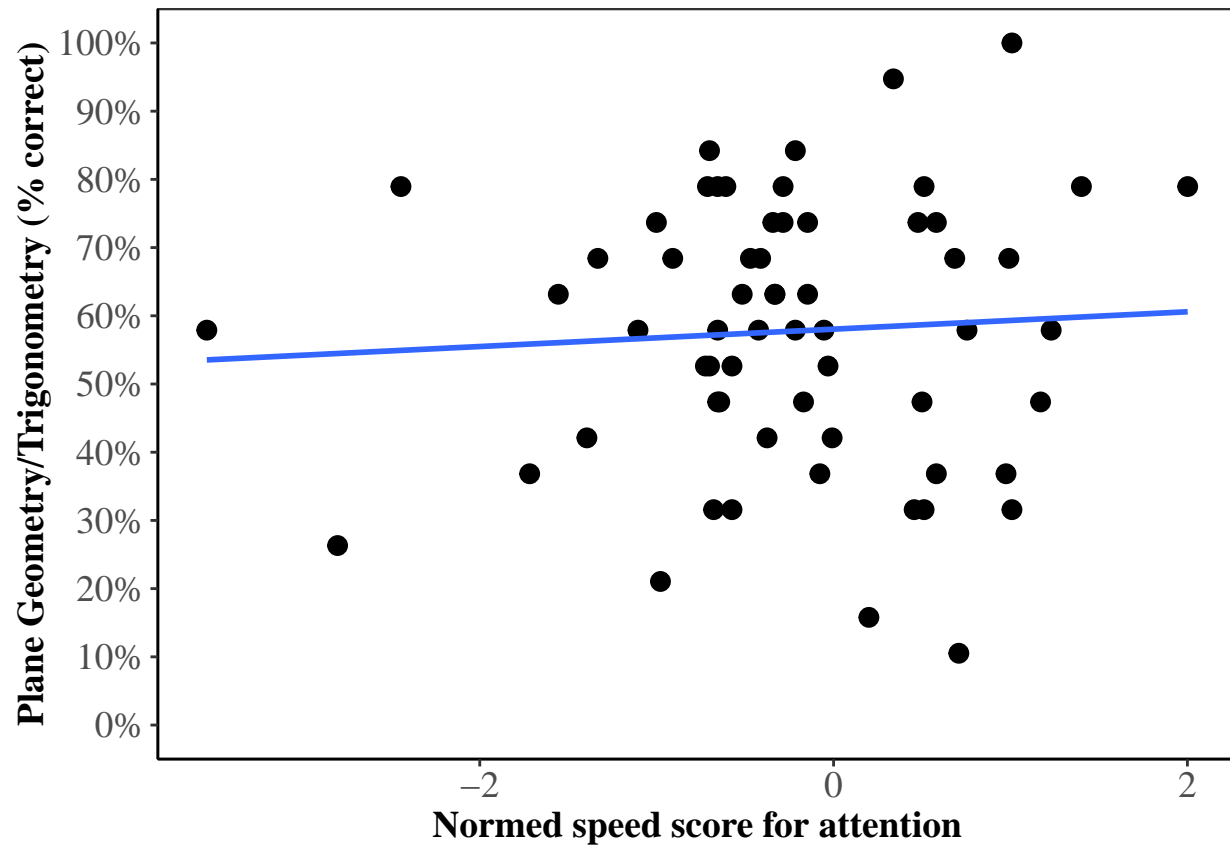
```
##  
## Pearson's product-moment correlation  
##  
## data: GT_DF$WM_EFFICIENCY and GT_DF$GTscore  
## t = 1.8353, df = 60, p-value = 0.07143  
## alternative hypothesis: true correlation is not equal to 0  
## 95 percent confidence interval:  
## -0.02039456 0.45416386  
## sample estimates:  
## cor  
## 0.230548
```

## Attention accuracy



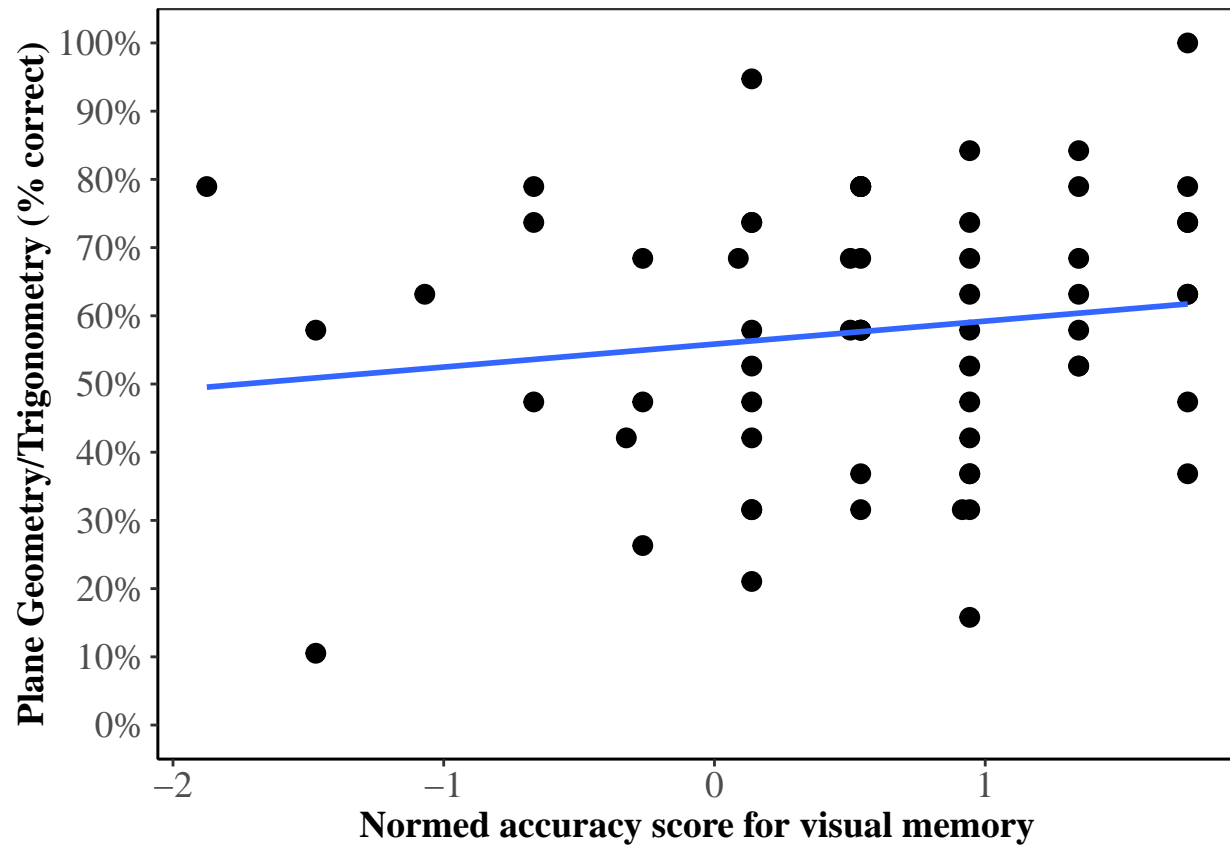
```
##  
## Pearson's product-moment correlation  
##  
## data: GT_DF$ATT_Az and GT_DF$GTscore  
## t = 0.77218, df = 60, p-value = 0.443  
## alternative hypothesis: true correlation is not equal to 0  
## 95 percent confidence interval:  
## -0.1543973 0.3405275  
## sample estimates:  
## cor  
## 0.09919622
```

## Attention speed



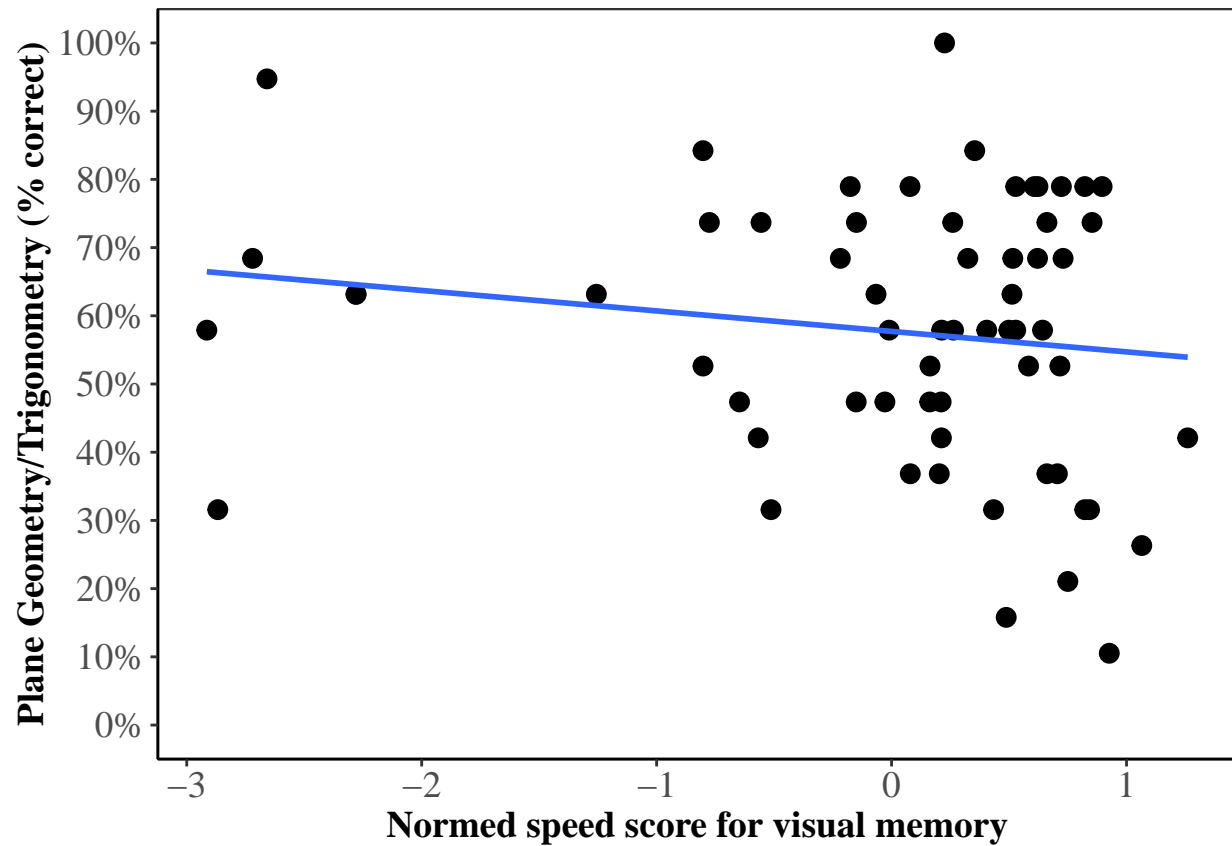
```
##  
## Pearson's product-moment correlation  
##  
## data: GT_DF$ATT_Sz and GT_DF$GTscore  
## t = 0.49595, df = 60, p-value = 0.6217  
## alternative hypothesis: true correlation is not equal to 0  
## 95 percent confidence interval:  
## -0.1888864 0.3087373  
## sample estimates:  
## cor  
## 0.06389632
```

## Visual memory accuracy



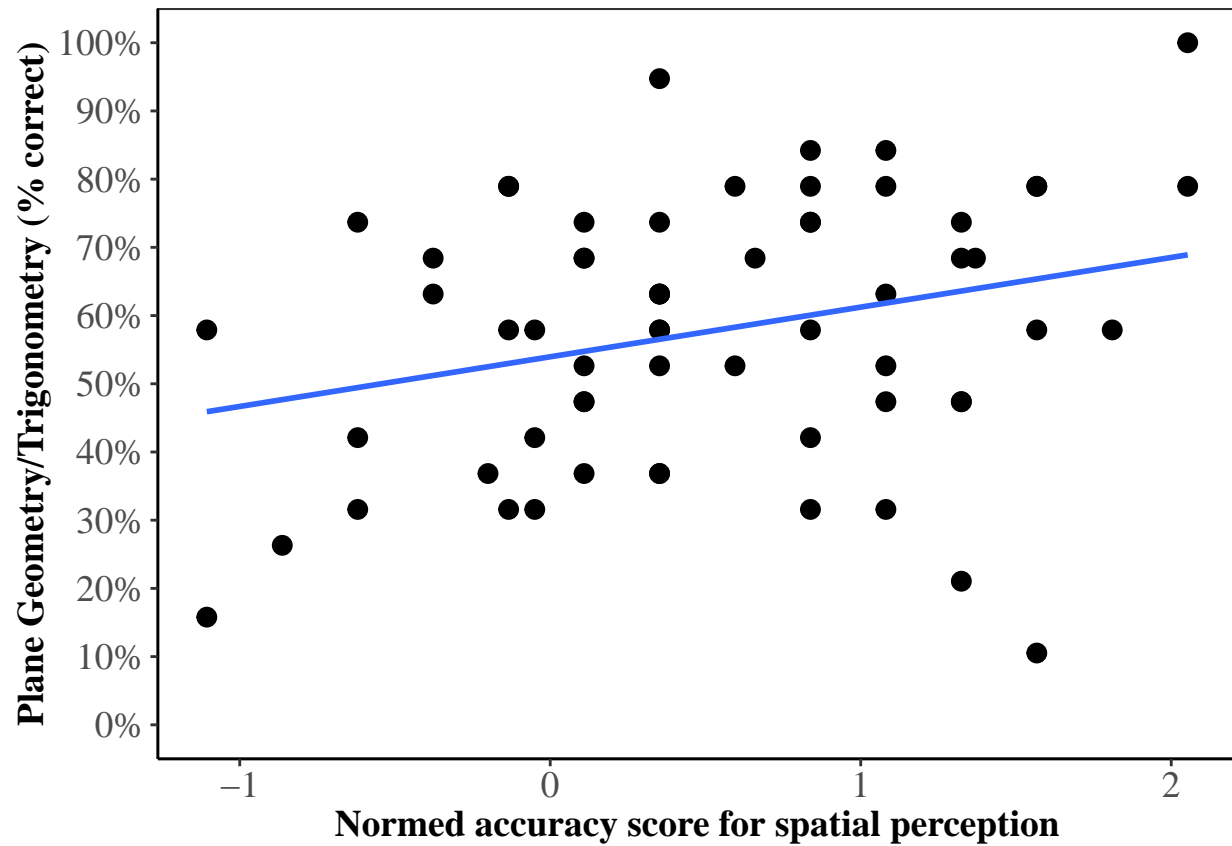
```
##  
## Pearson's product-moment correlation  
##  
## data: GT_DF$MEM_Az and GT_DF$GTscore  
## t = 1.1395, df = 60, p-value = 0.259  
## alternative hypothesis: true correlation is not equal to 0  
## 95 percent confidence interval:  
## -0.1081607 0.3814417  
## sample estimates:  
## cor  
## 0.1455393
```

## Visual memory speed



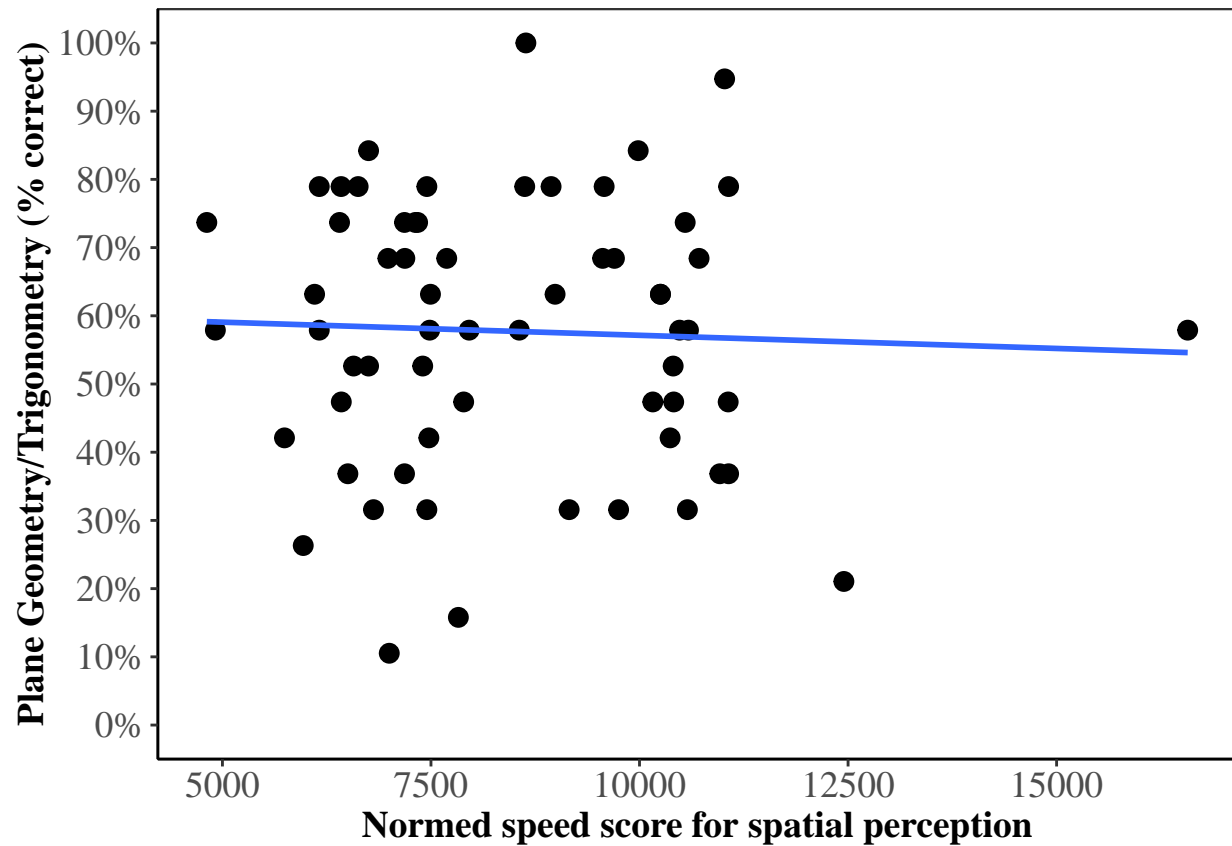
```
##  
## Pearson's product-moment correlation  
##  
## data: GT_DF$MEM_Sz and GT_DF$GTscore  
## t = -1.2087, df = 60, p-value = 0.2315  
## alternative hypothesis: true correlation is not equal to 0  
## 95 percent confidence interval:  
## -0.38896367 0.09942322  
## sample estimates:  
## cor  
## -0.1541735
```

Spatial perception accuracy ( $p < 0.05$ )



```
##
## Pearson's product-moment correlation
##
## data: GT_DF$SPA_Az and GT_DF$GTscore
## t = 2.2641, df = 60, p-value = 0.0272
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  0.03310276 0.49559203
## sample estimates:
##          cor
## 0.2805514
```

## Spatial perception speed

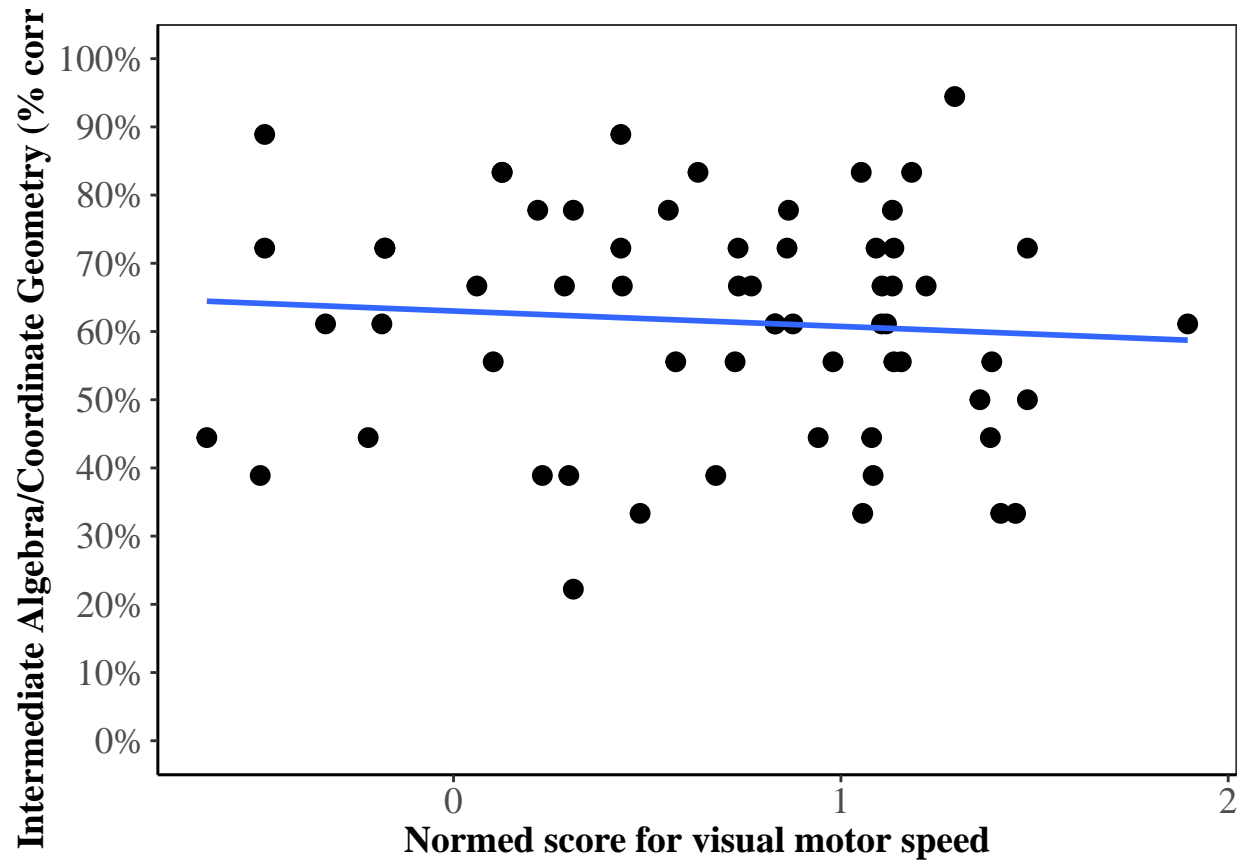


```
##  
## Pearson's product-moment correlation  
##  
## data: GT_DF$SPA_Sz and GT_DF$GTscore  
## t = -0.32321, df = 60, p-value = 0.7477  
## alternative hypothesis: true correlation is not equal to 0  
## 95 percent confidence interval:  
## -0.2884540 0.2102683  
## sample estimates:  
## cor  
## -0.04168937
```



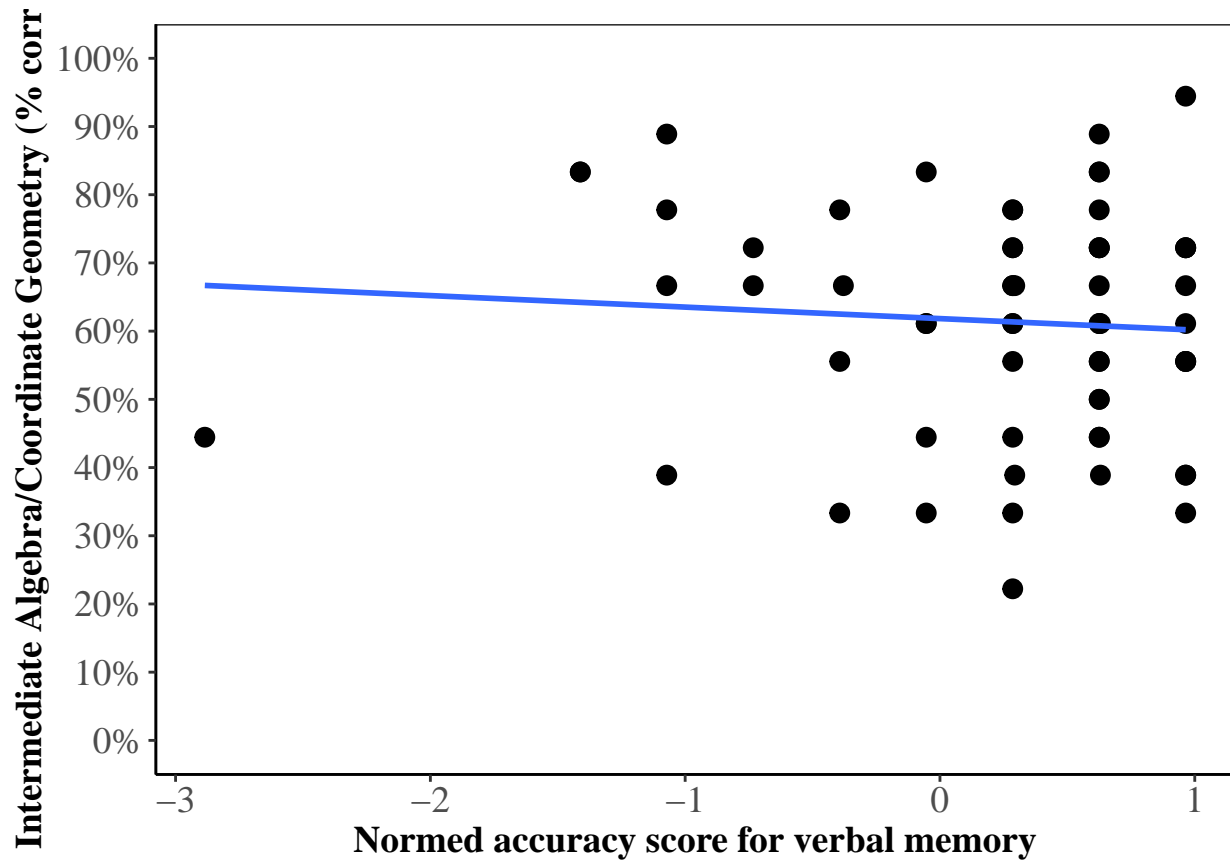
## AG/ Intermediate Algebra/Coordinate Geometry Subsection

Visual motor speed



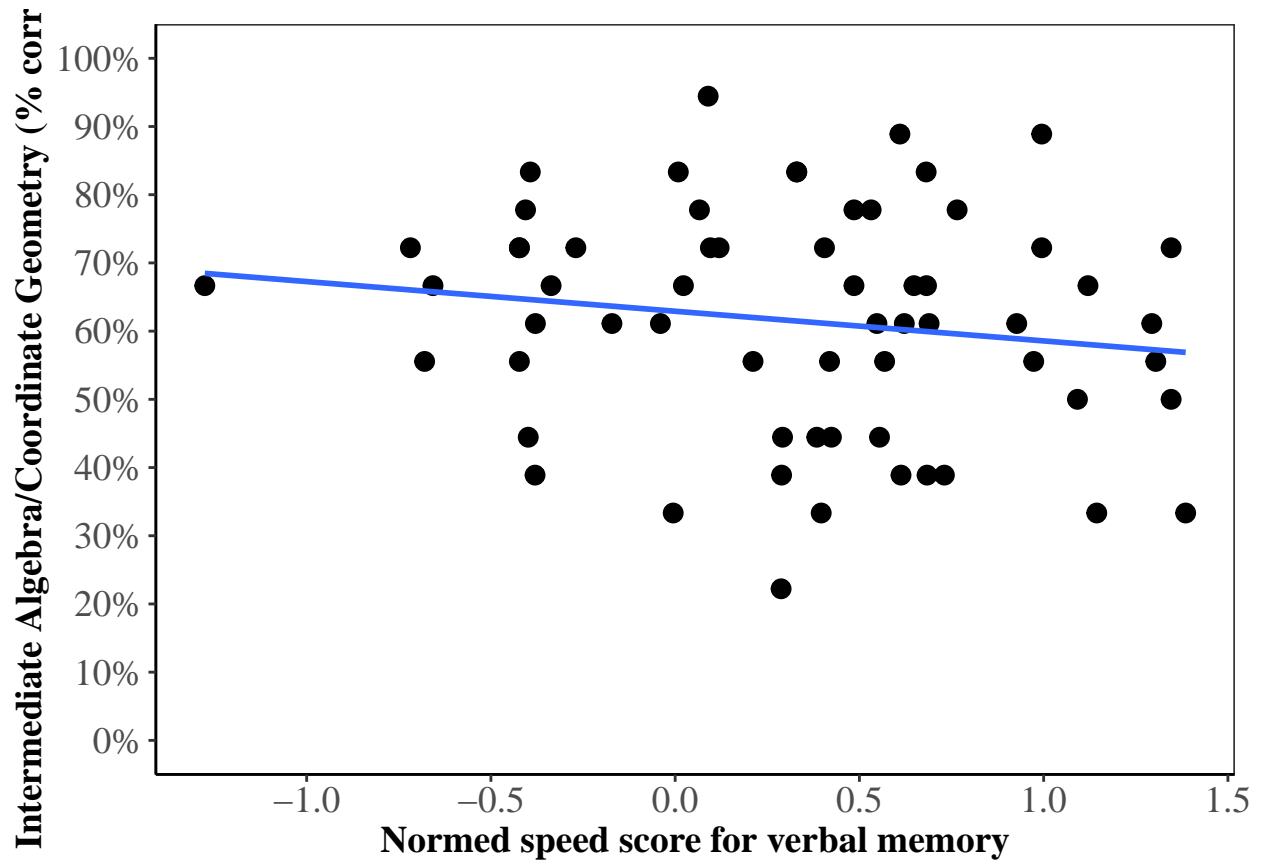
```
##
## Pearson's product-moment correlation
##
## data: AG_DF$SM_Sz and AG_DF$AGscore
## t = -0.627, df = 60, p-value = 0.533
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## -0.3239216 0.1725647
## sample estimates:
## cor
## -0.08068092
```

## Verbal memory accuracy



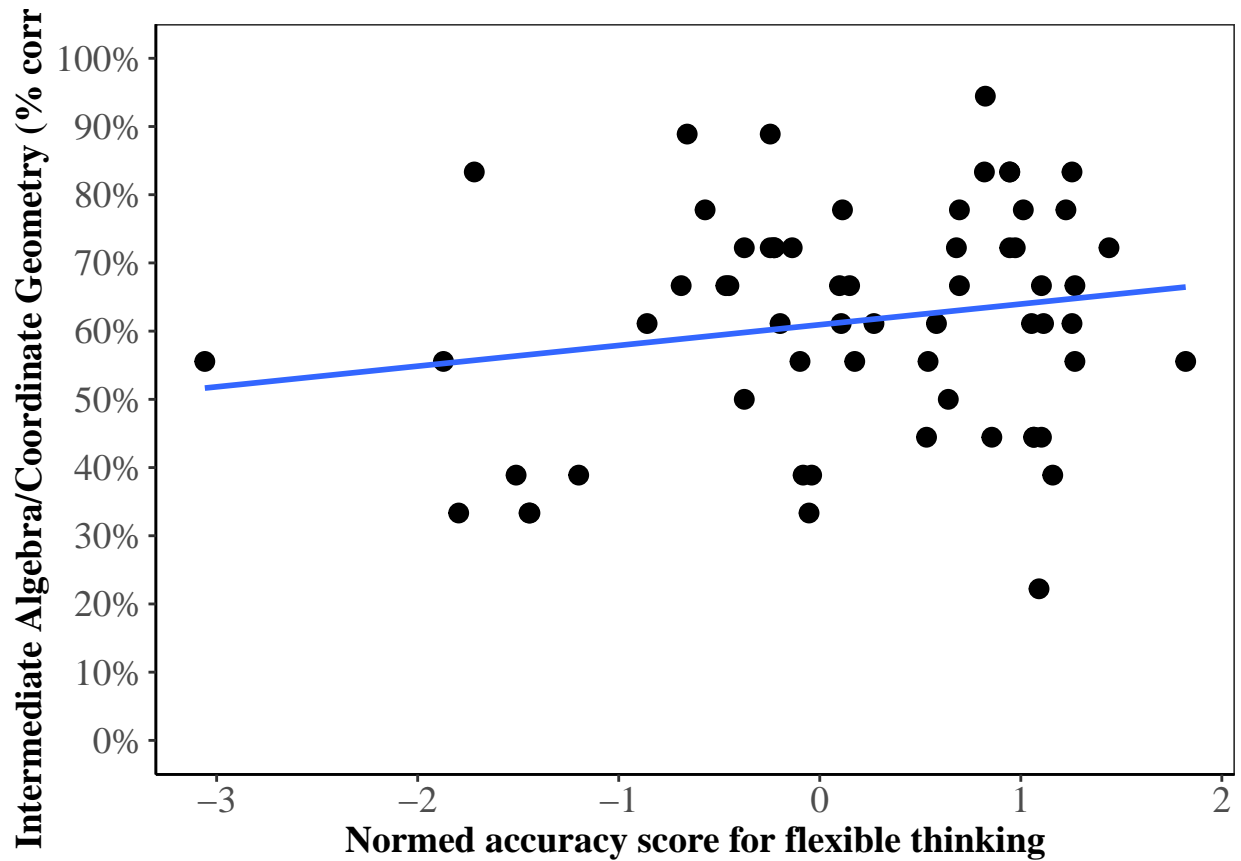
```
##  
## Pearson's product-moment correlation  
##  
## data: AG_DF$VMEM_Az and AG_DF$AGscore  
## t = -0.59781, df = 60, p-value = 0.5522  
## alternative hypothesis: true correlation is not equal to 0  
## 95 percent confidence interval:  
## -0.3205555 0.1762066  
## sample estimates:  
## cor  
## -0.0769481
```

## Verbal memory speed



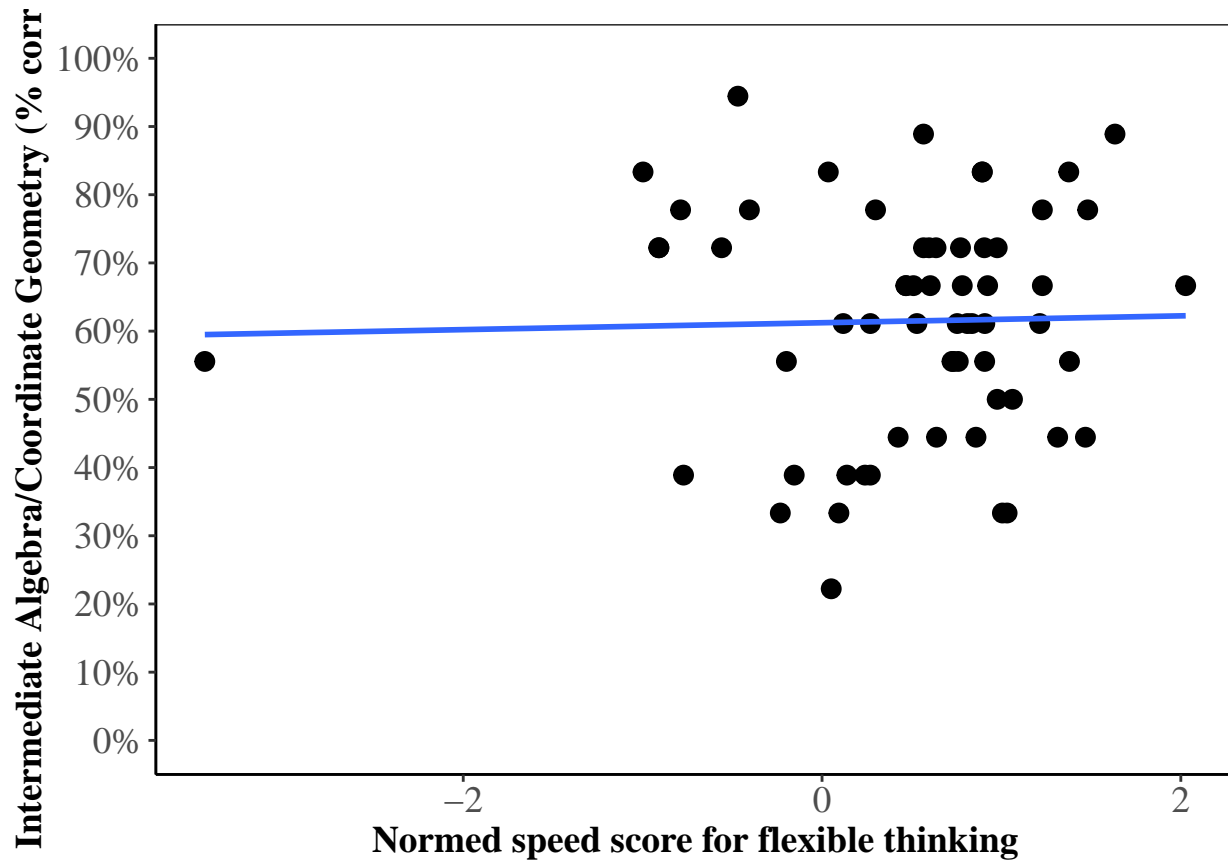
```
##  
## Pearson's product-moment correlation  
##  
## data: AG_DF$VMEM_Sz and AG_DF$AGscore  
## t = -1.2288, df = 60, p-value = 0.2239  
## alternative hypothesis: true correlation is not equal to 0  
## 95 percent confidence interval:  
## -0.39114094 0.09687999  
## sample estimates:  
## cor  
## -0.1566795
```

## Flexible thinking accuracy



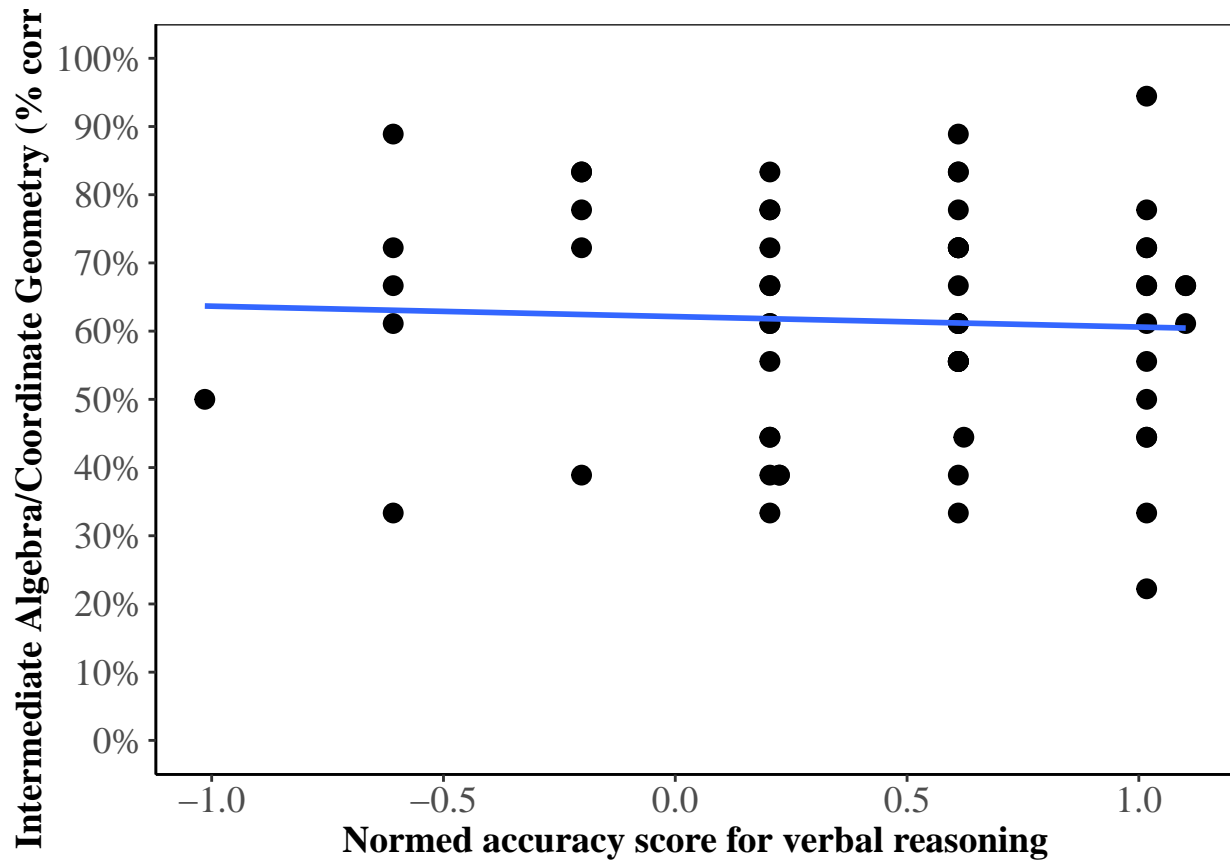
```
##  
## Pearson's product-moment correlation  
##  
## data: AG_DF$ABF_Az and AG_DF$AGscore  
## t = 1.4361, df = 60, p-value = 0.1562  
## alternative hypothesis: true correlation is not equal to 0  
## 95 percent confidence interval:  
## -0.07069466 0.41324514  
## sample estimates:  
## cor  
## 0.1822923
```

## Flexible thinking speed



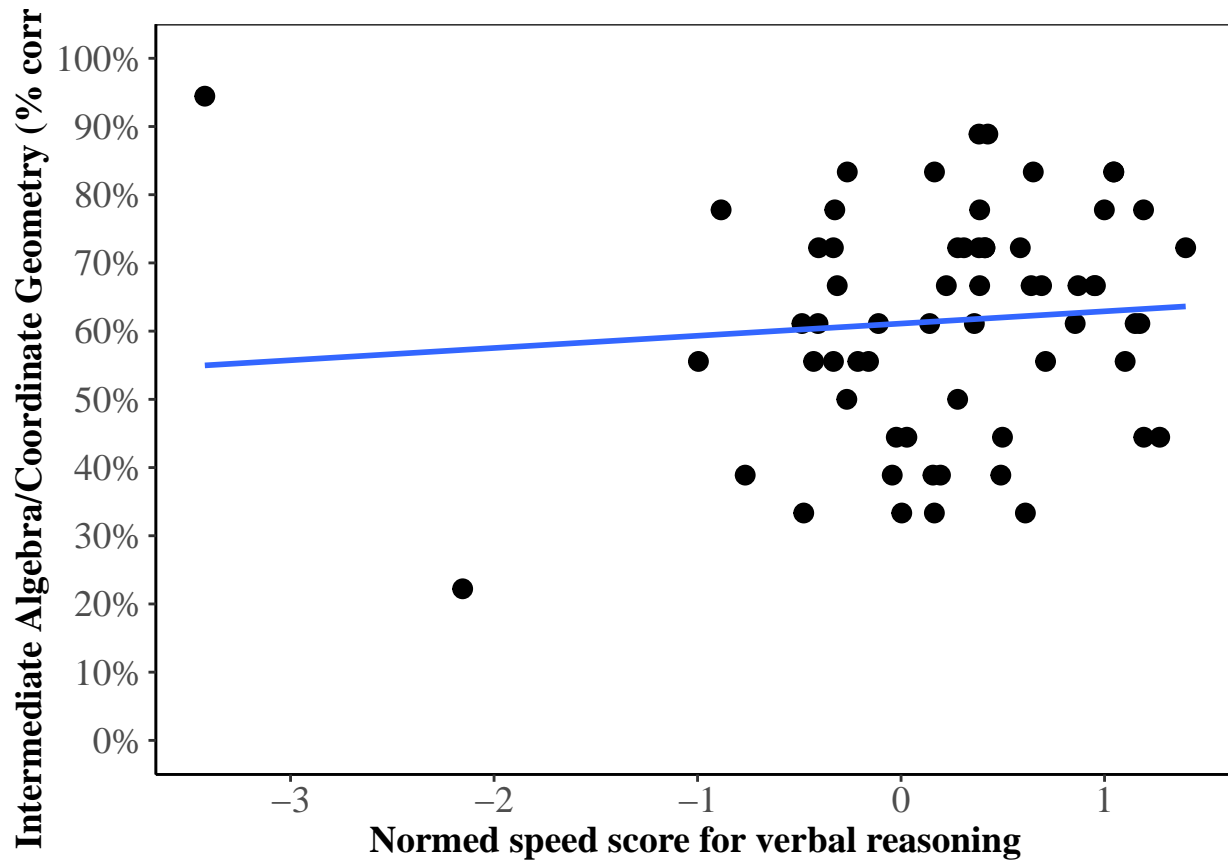
```
##  
## Pearson's product-moment correlation  
##  
## data: AG_DF$ABF_Sz and AG_DF$AGscore  
## t = 0.19746, df = 60, p-value = 0.8441  
## alternative hypothesis: true correlation is not equal to 0  
## 95 percent confidence interval:  
## -0.2257210 0.2735112  
## sample estimates:  
## cor  
## 0.02548395
```

## Verbal reasoning accuracy



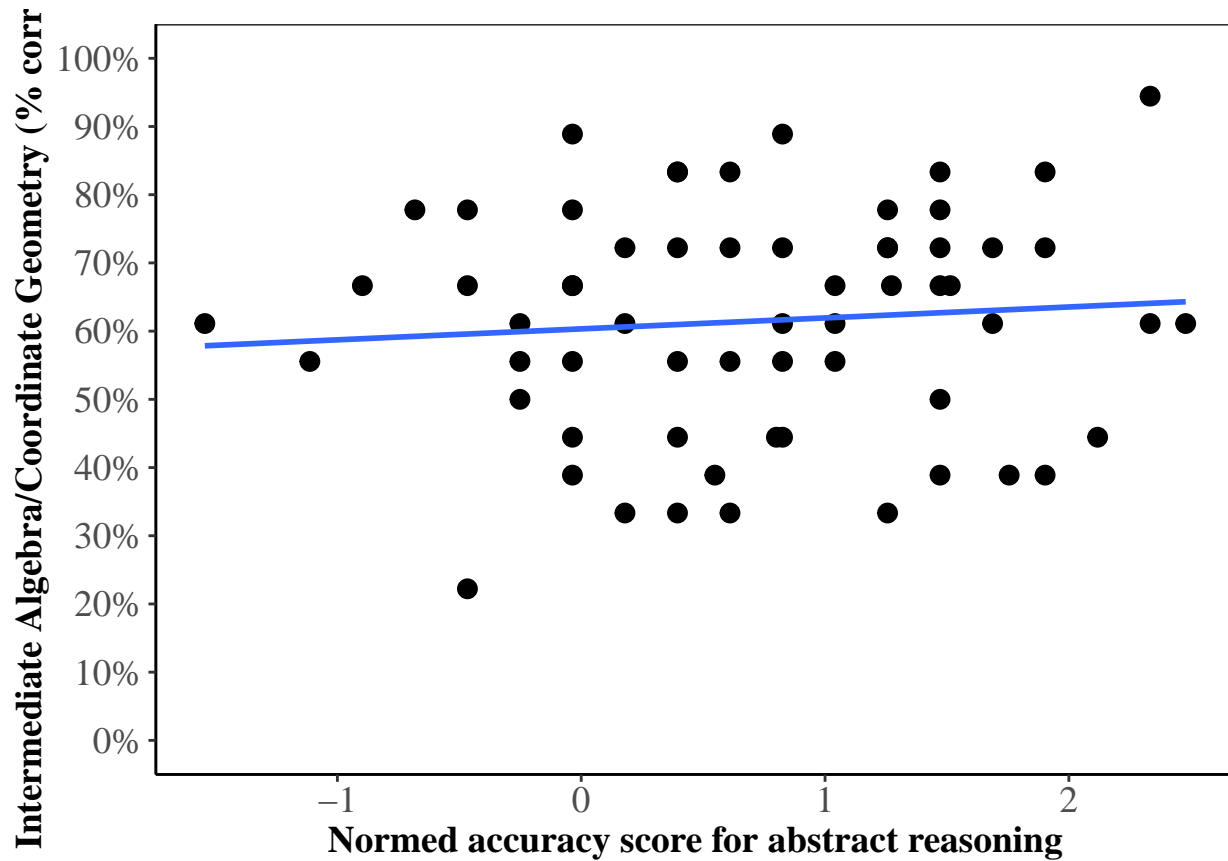
```
##
## Pearson's product-moment correlation
##
## data:  AG_DF$LAN_Az and AG_DF$AGscore
## t = -0.37414, df = 60, p-value = 0.7096
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## -0.2944645  0.2039815
## sample estimates:
##          cor
## -0.04824463
```

## Verbal reasoning speed



```
##  
## Pearson's product-moment correlation  
##  
## data: AG_DF$LAN_Sz and AG_DF$AGscore  
## t = 0.67542, df = 60, p-value = 0.502  
## alternative hypothesis: true correlation is not equal to 0  
## 95 percent confidence interval:  
## -0.1665139 0.3294866  
## sample estimates:  
## cor  
## 0.08686711
```

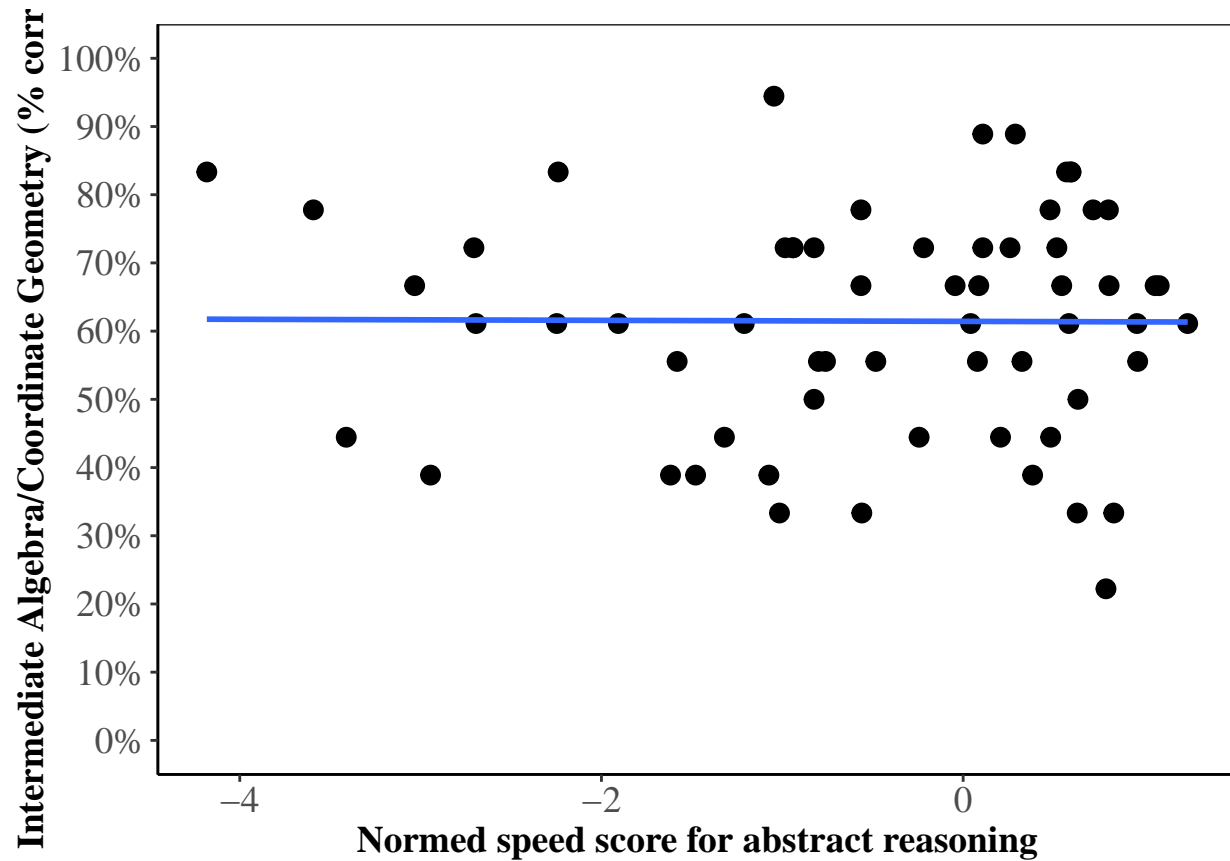
## Abstract reasoning accuracy



```
##
## Pearson's product-moment correlation
##
## data: AG_DF$NVR_Az and AG_DF$AGscore
## t = 0.6739, df = 60, p-value = 0.503
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## -0.1667042 0.3293121
## sample estimates:
## cor
## 0.08667289
```

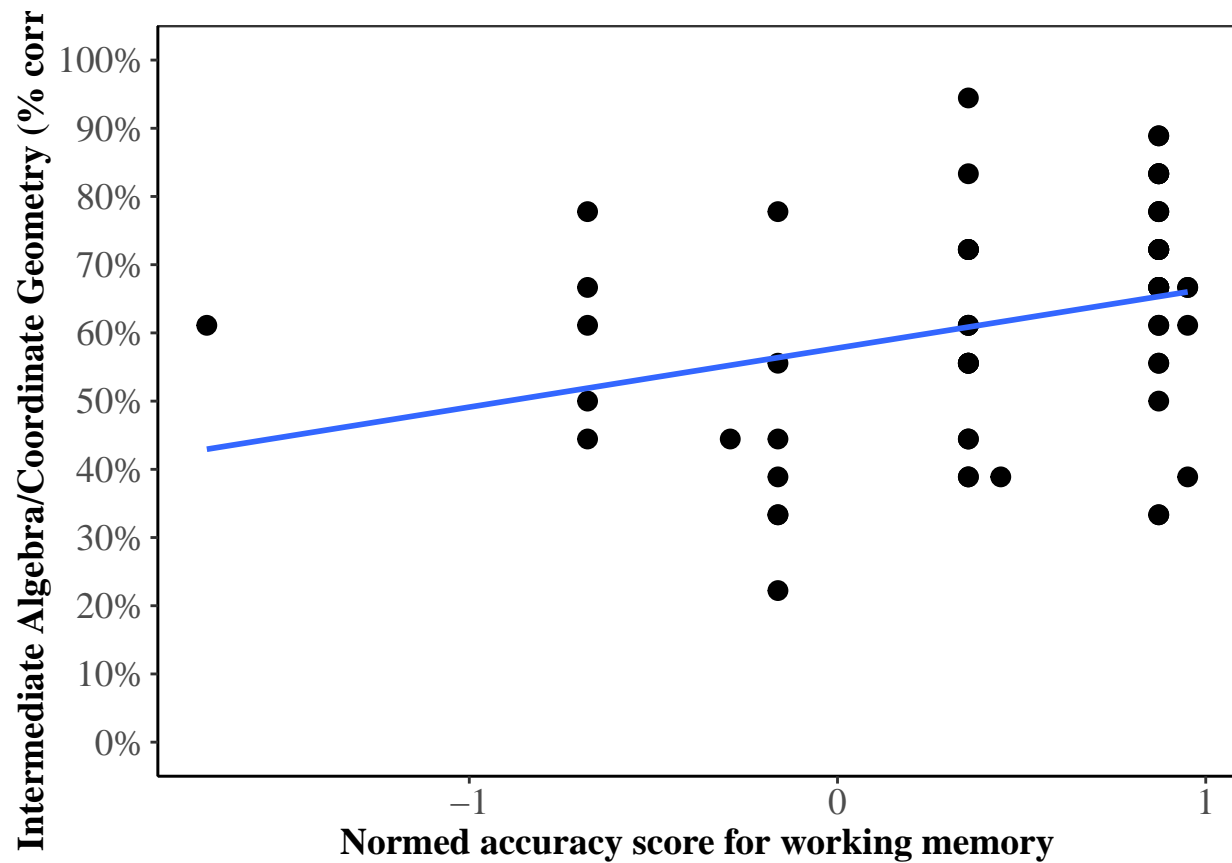


## Abstract reasoning speed



```
##
## Pearson's product-moment correlation
##
## data: AG_DF$NVR_Sz and AG_DF$AGscore
## t = -0.046401, df = 60, p-value = 0.9631
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## -0.2553763 0.2441433
## sample estimates:
## cor
## -0.005990175
```

Working memory accuracy ( $p < 0.05$ )



```
##
## Pearson's product-moment correlation
##
## data: AG_DF$WM_Az and AG_DF$AGscore
## t = 2.4246, df = 60, p-value = 0.01835
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## 0.05290448 0.51041075
## sample estimates:
## cor
## 0.2987254
```

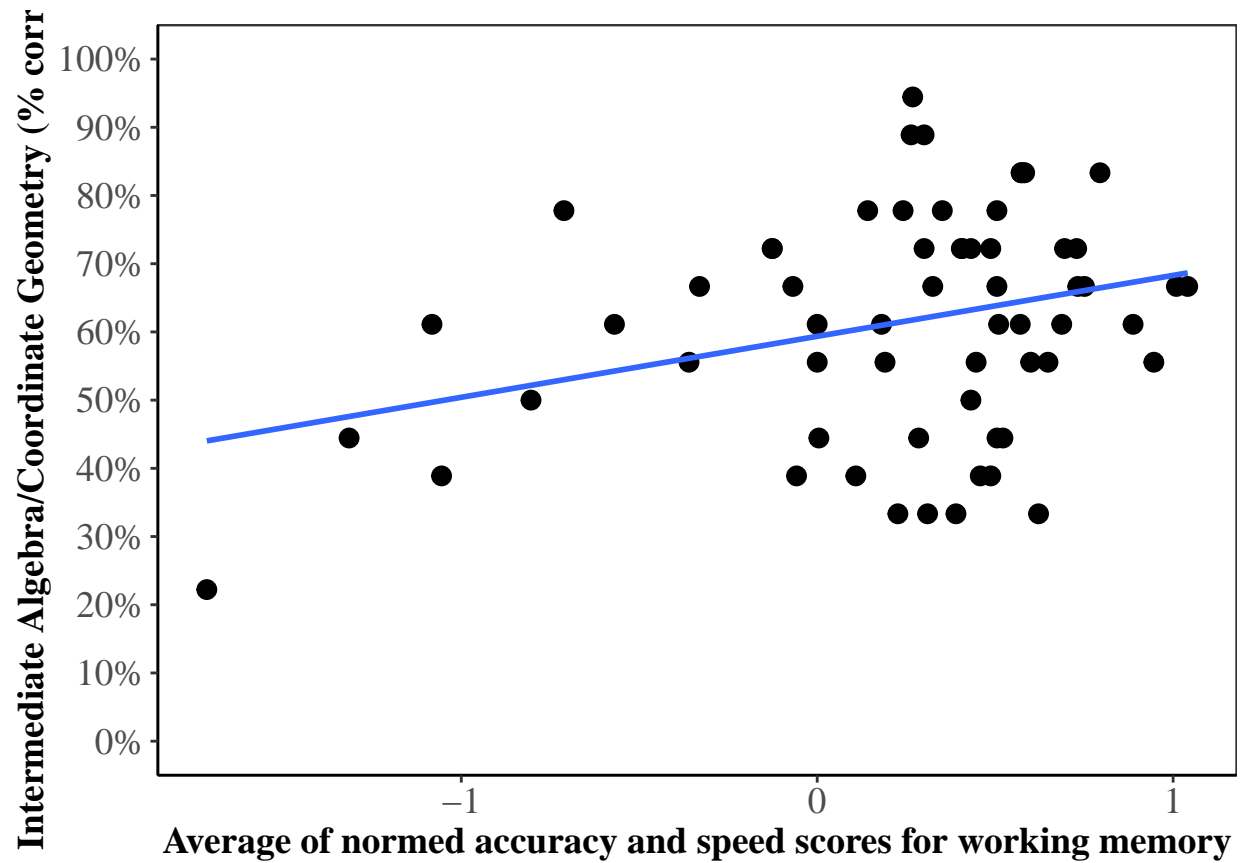
## Working memory speed



```
##  
## Pearson's product-moment correlation  
##  
## data: AG_DF$WM_Sz and AG_DF$AGscore  
## t = 1.358, df = 60, p-value = 0.1796  
## alternative hypothesis: true correlation is not equal to 0  
## 95 percent confidence interval:  
## -0.0805635 0.4049808  
## sample estimates:  
## cor  
## 0.1726794
```

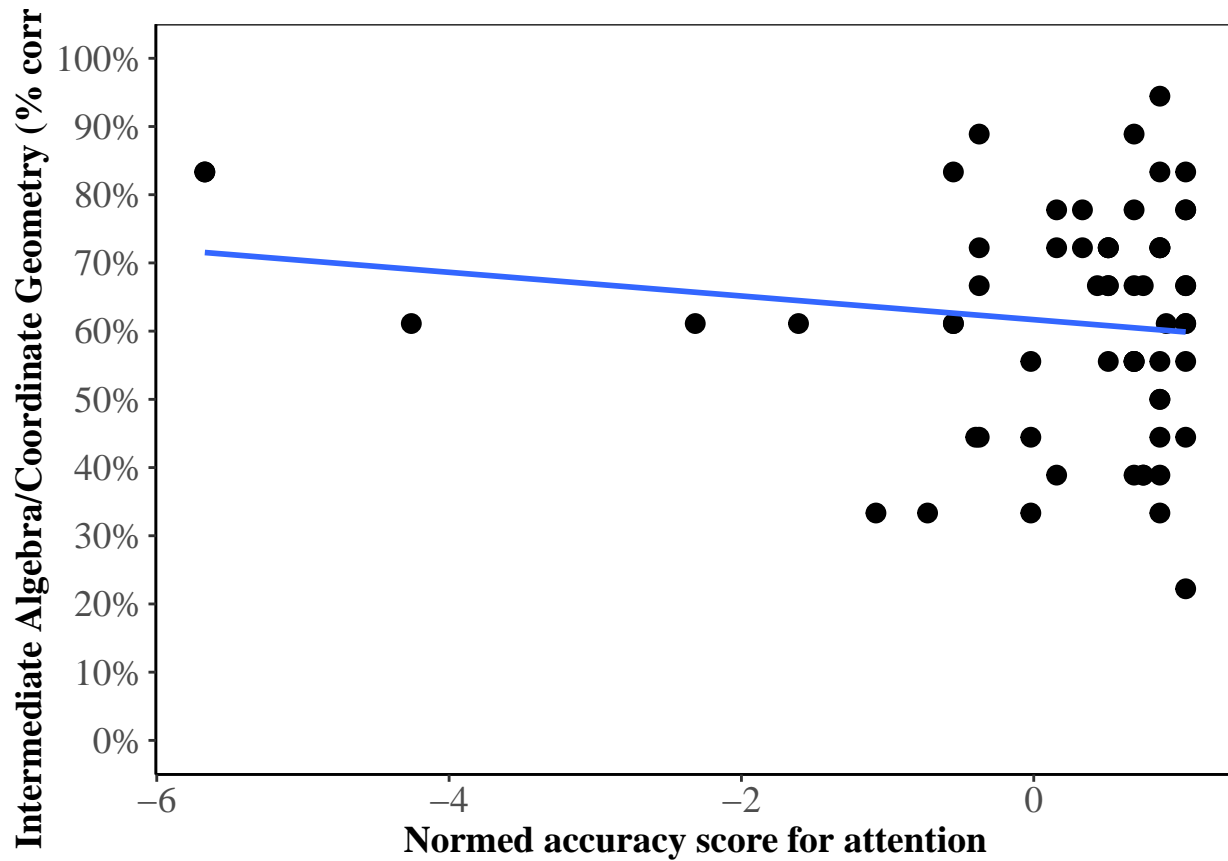
Working memory efficiency ( $p < 0.05$ )

Average of normed accuracy and speed scores for working memory.



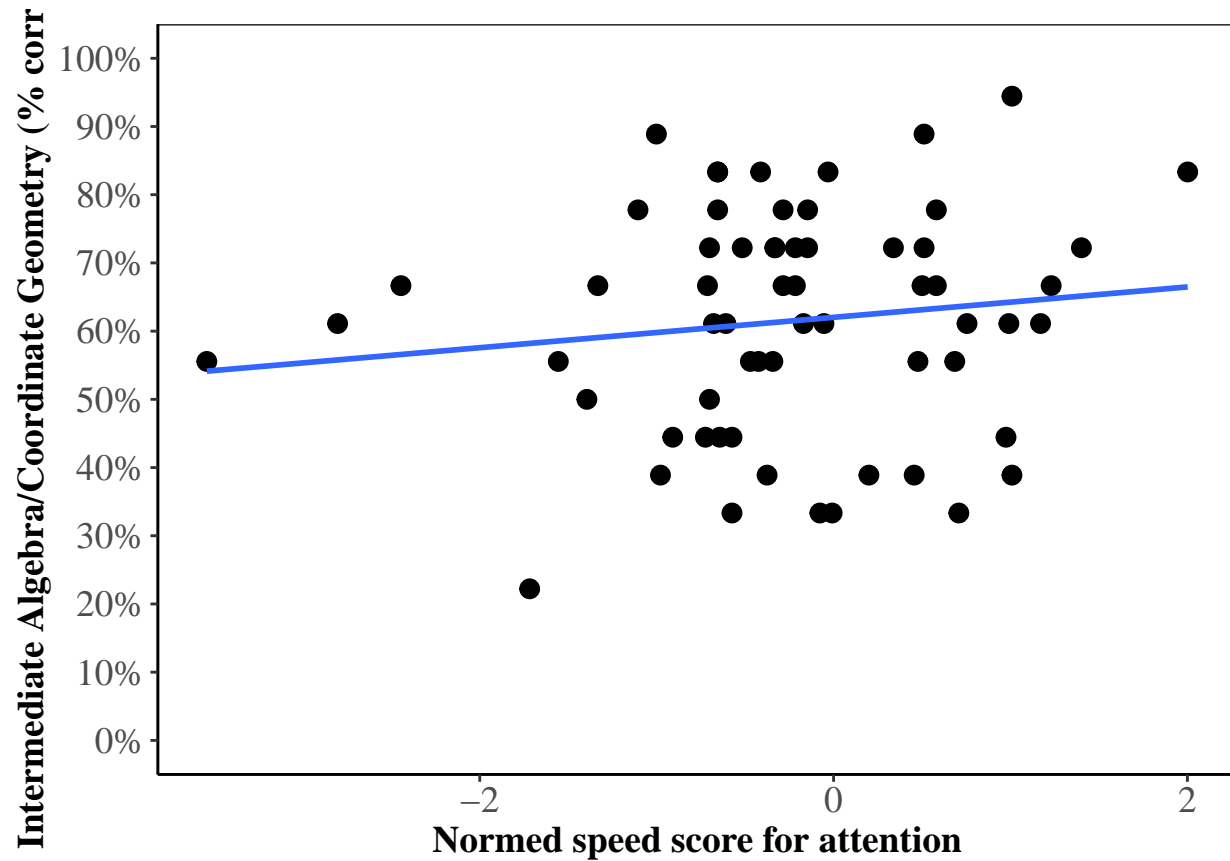
```
##
## Pearson's product-moment correlation
##
## data: AG_DF$WM_EFFICIENCY and AG_DF$AGscore
## t = 2.4448, df = 60, p-value = 0.01745
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## 0.05538492 0.51224805
## sample estimates:
## cor
## 0.3009894
```

## Attention accuracy



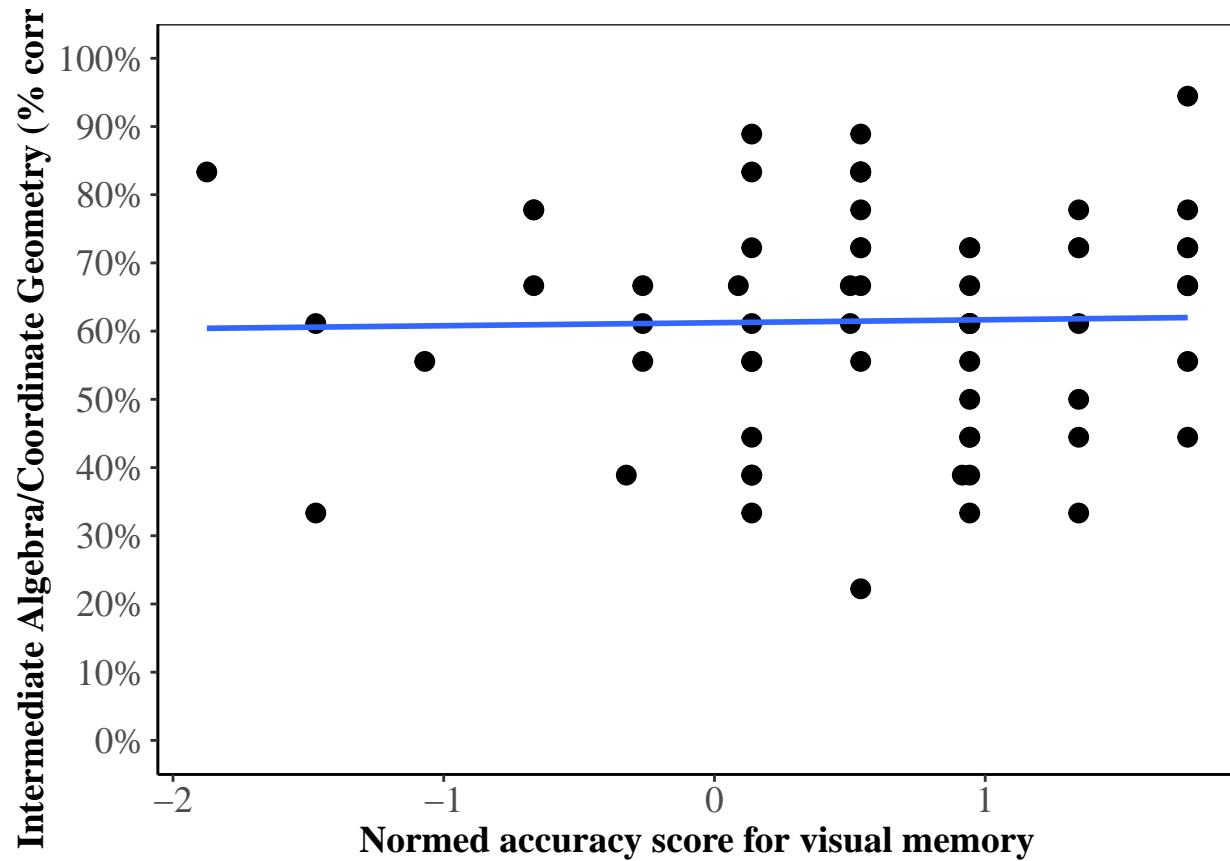
```
##
## Pearson's product-moment correlation
##
## data: AG_DF$ATT_Az and AG_DF$AGscore
## t = -1.1478, df = 60, p-value = 0.2556
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## -0.3823552 0.1071036
## sample estimates:
## cor
## -0.146586
```

## Attention speed



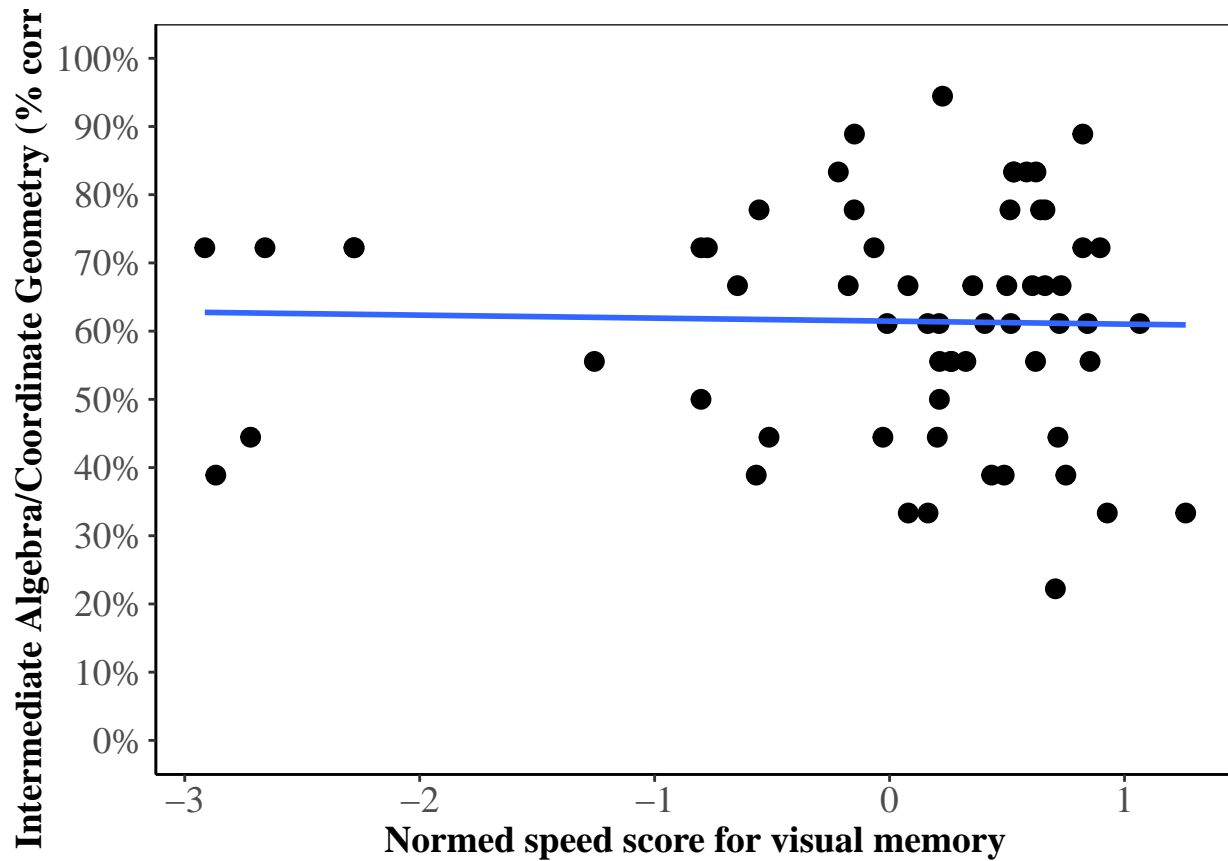
```
##  
## Pearson's product-moment correlation  
##  
## data: AG_DF$ATT_Sz and AG_DF$AGscore  
## t = 1.0315, df = 60, p-value = 0.3064  
## alternative hypothesis: true correlation is not equal to 0  
## 95 percent confidence interval:  
## -0.1217800 0.3695862  
## sample estimates:  
## cor  
## 0.1320033
```

## Visual memory accuracy



```
##
## Pearson's product-moment correlation
##
## data: AG_DF$SMEM_Az and AG_DF$AGscore
## t = 0.17189, df = 60, p-value = 0.8641
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## -0.2288511 0.2704548
## sample estimates:
## cor
## 0.02218518
```

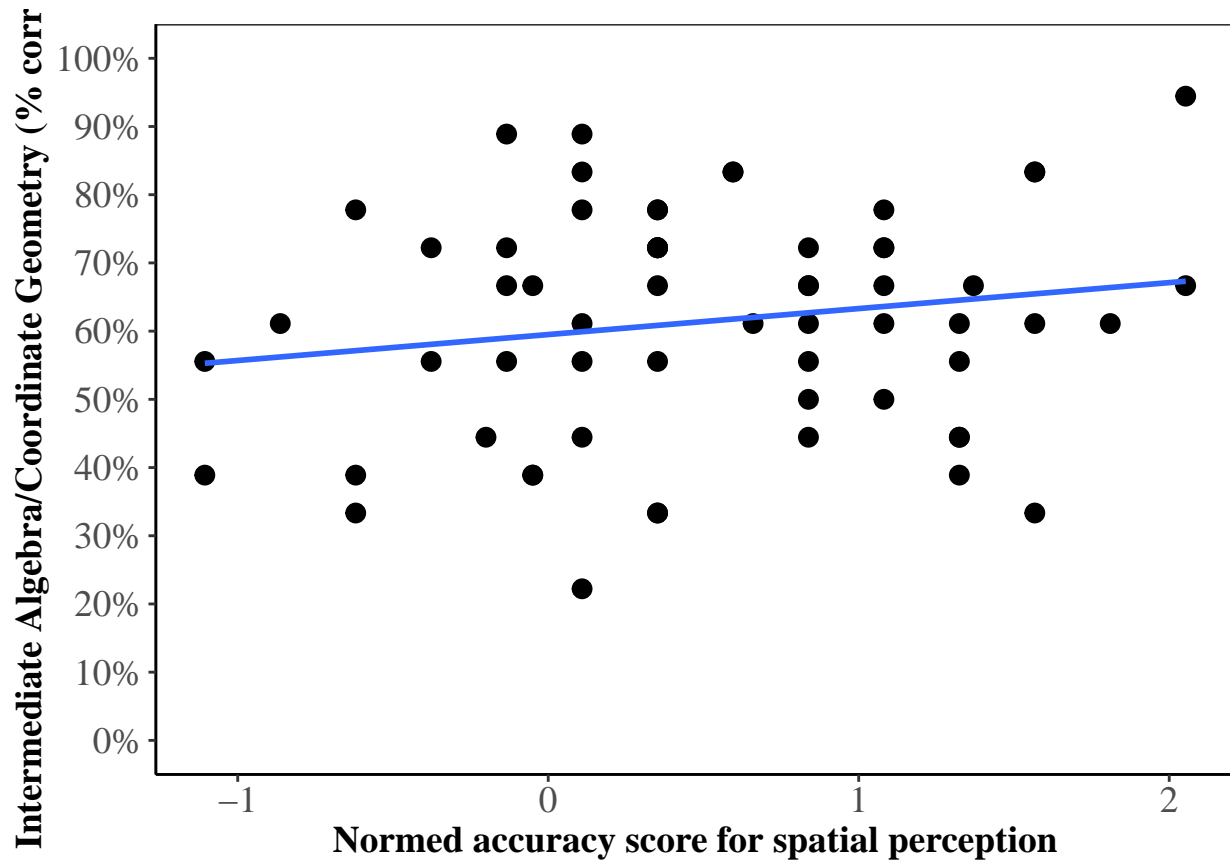
## Visual memory speed



```
##  
## Pearson's product-moment correlation  
##  
## data: AG_DF$SMEM_Sz and AG_DF$AGscore  
## t = -0.20643, df = 60, p-value = 0.8372  
## alternative hypothesis: true correlation is not equal to 0  
## 95 percent confidence interval:  
## -0.2745816 0.2246224  
## sample estimates:  
## cor  
## -0.02664046
```

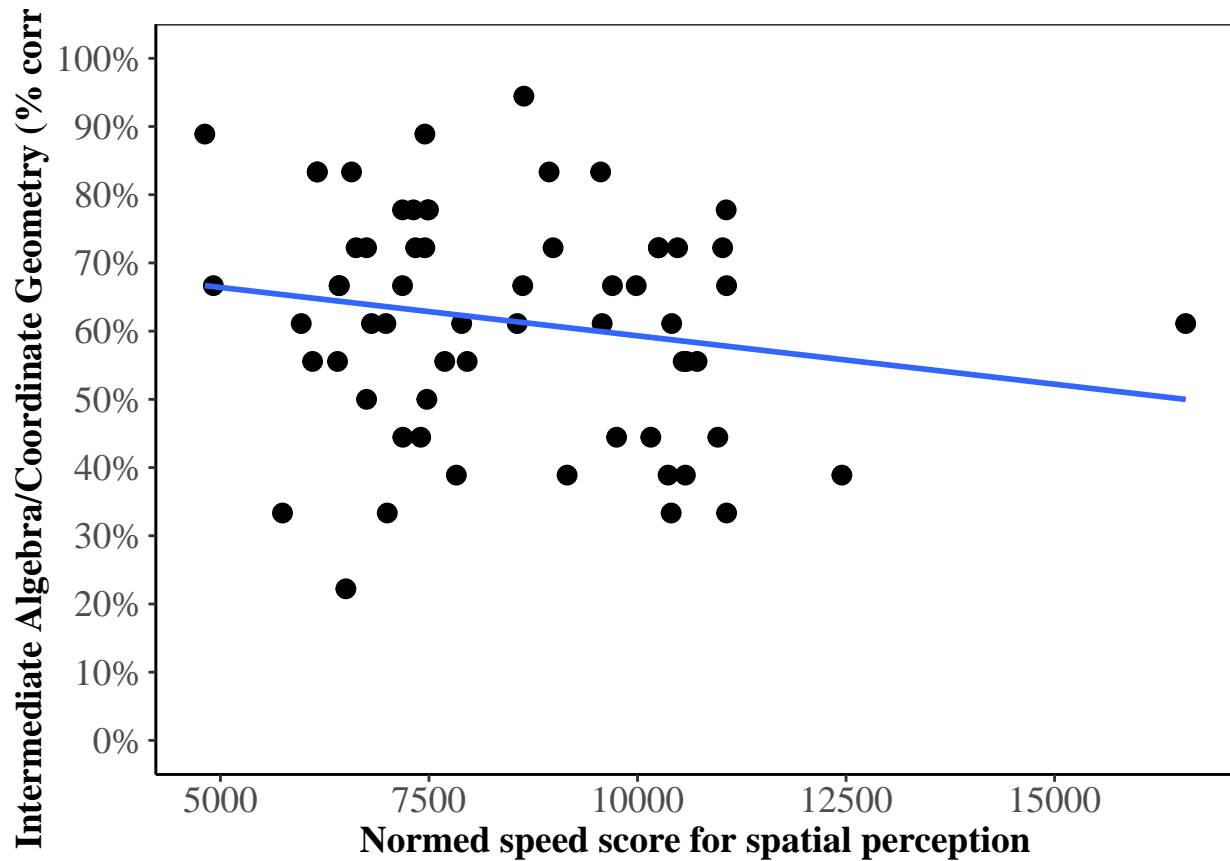


## Spatial perception accuracy



```
##
## Pearson's product-moment correlation
##
## data: AG_DF$SPA_Az and AG_DF$AGscore
## t = 1.3614, df = 60, p-value = 0.1785
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## -0.08013092 0.40534476
## sample estimates:
## cor
## 0.1731018
```

## Spatial perception speed



```
##
## Pearson's product-moment correlation
##
## data: AG_DF$SPA_Sz and AG_DF$AGscore
## t = -1.4273, df = 60, p-value = 0.1587
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## -0.41231559 0.07180943
## sample estimates:
## cor
## -0.1812089
```

## Summary

1. Spatial perception accuracy predicts overall math score, pre-algebra, trig
2. WM efficiency predicts overall math score, trig (almost), intermediate algebra/geometry
3. WM accuracy predicts intermediate algebra/geometry
4. Abstract reasoning accuracy predicts pre-algebra