Mindprint - Math

Felicia Zhang

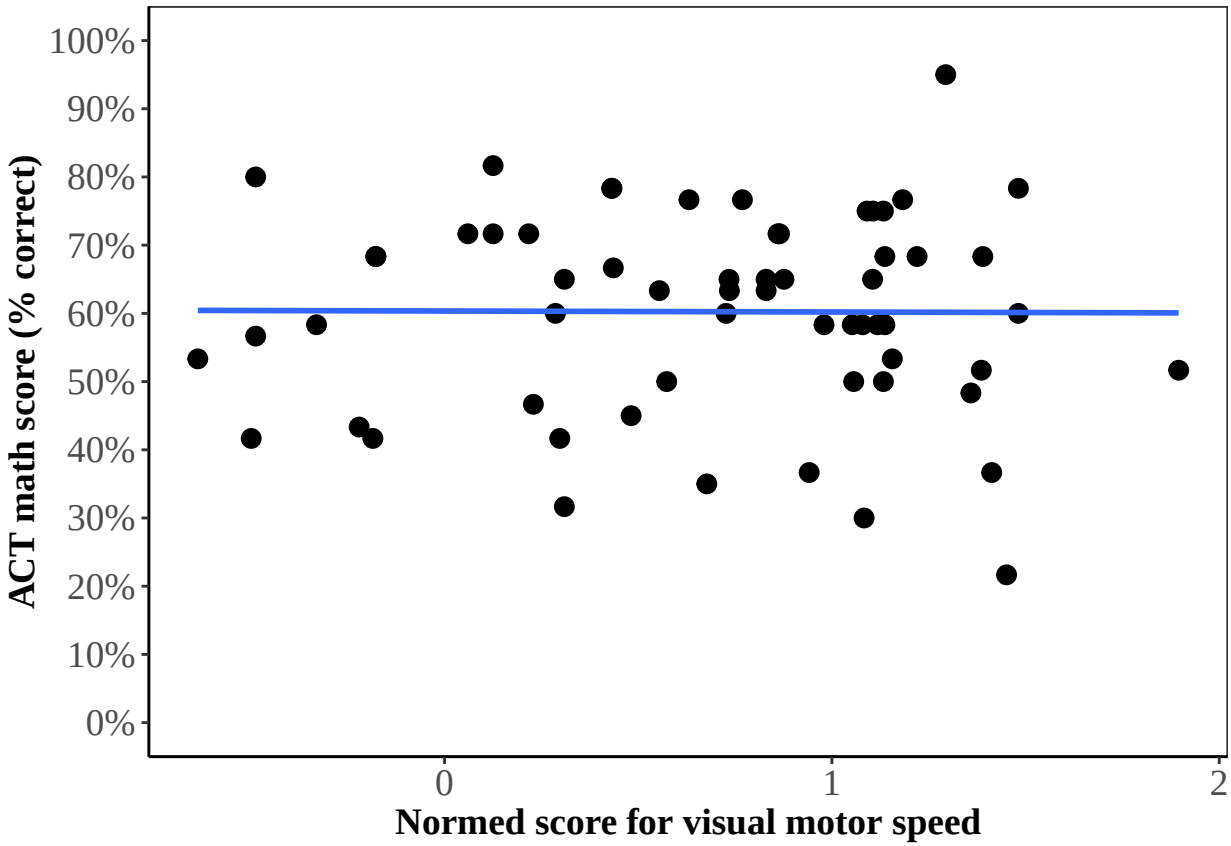
2018-07-25

Contents

ACT Math (n = 61)

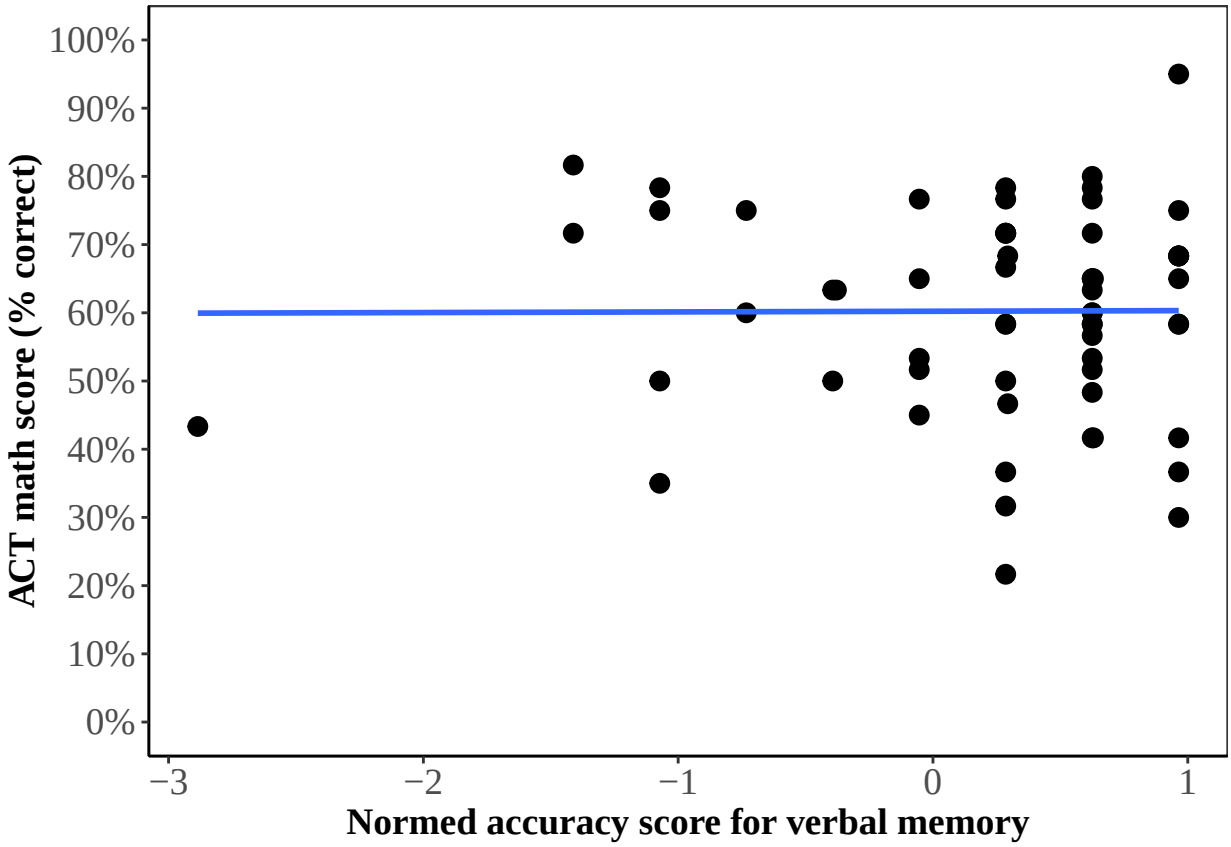
Overall score

Visual motor speed



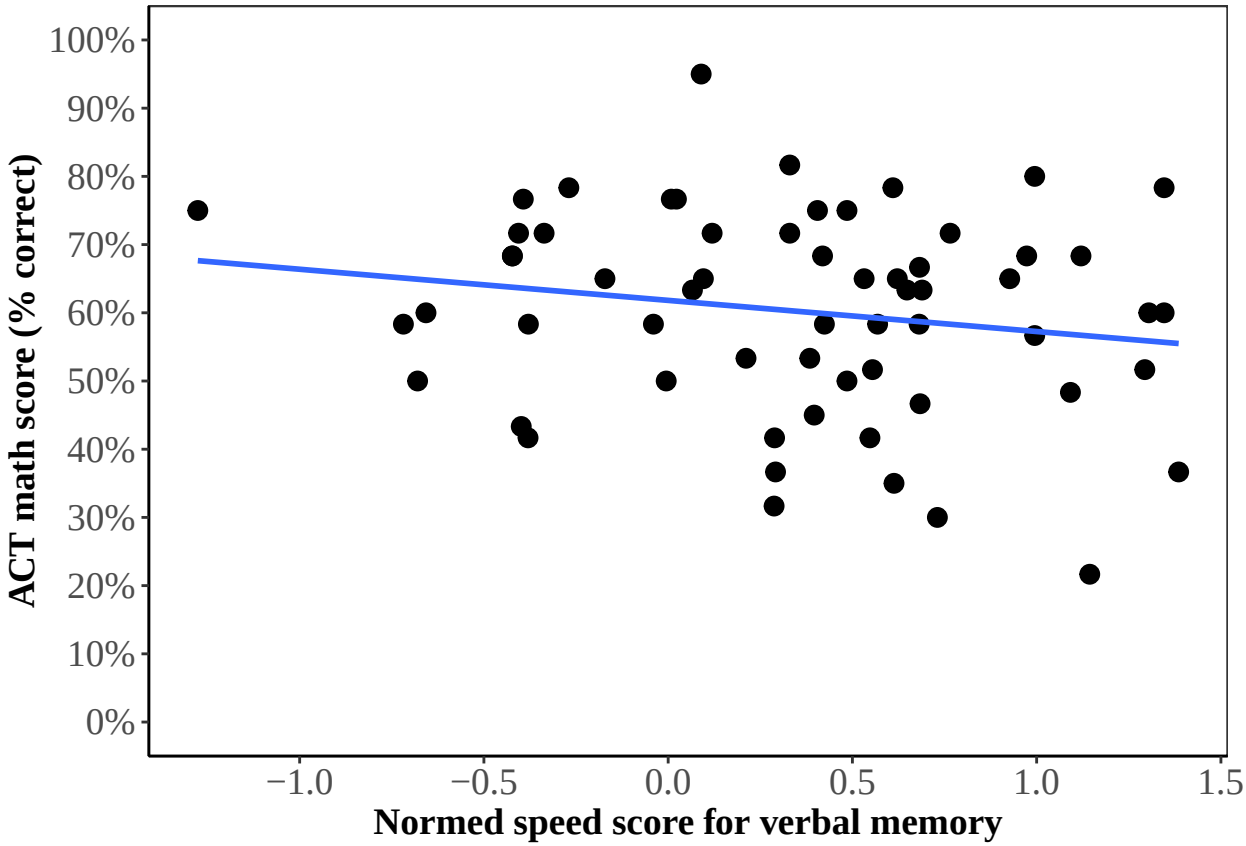

```
##
##  Pearson's product-moment correlation
##
## data:  finalDF2$SM_Sz and finalDF2$ACTmathscore
## t = -0.044669, df = 59, p-value = 0.9645
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.2572594  0.2463662
## sample estimates:
##          cor
## -0.005815357
```

Verbal memory accuracy



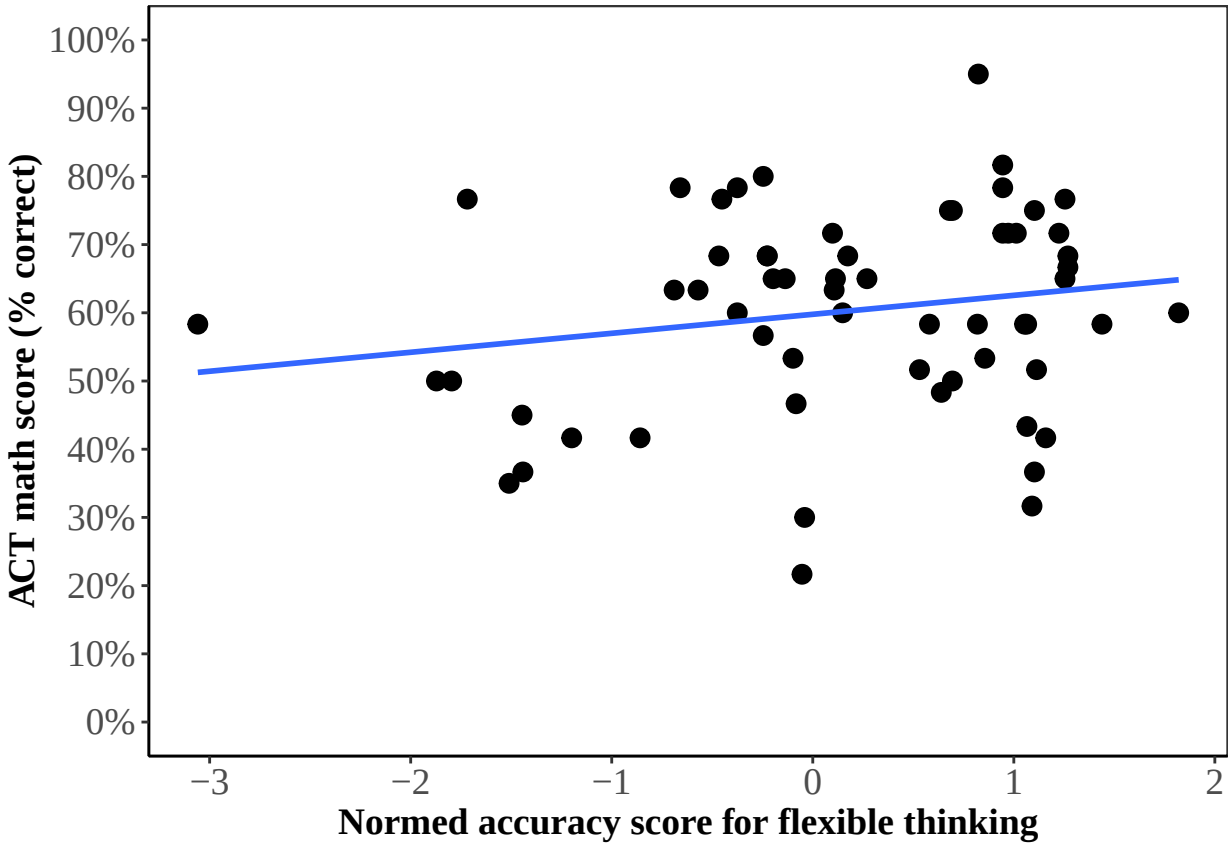

```
##
##  Pearson's product-moment correlation
##
## data:  finalDF2$VMEM_Az and finalDF2$ACTmathscore
## t = 0.037578, df = 59, p-value = 0.9702
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.2472331  0.2563971
## sample estimates:
##         cor
## 0.004892229
```

Verbal memory speed



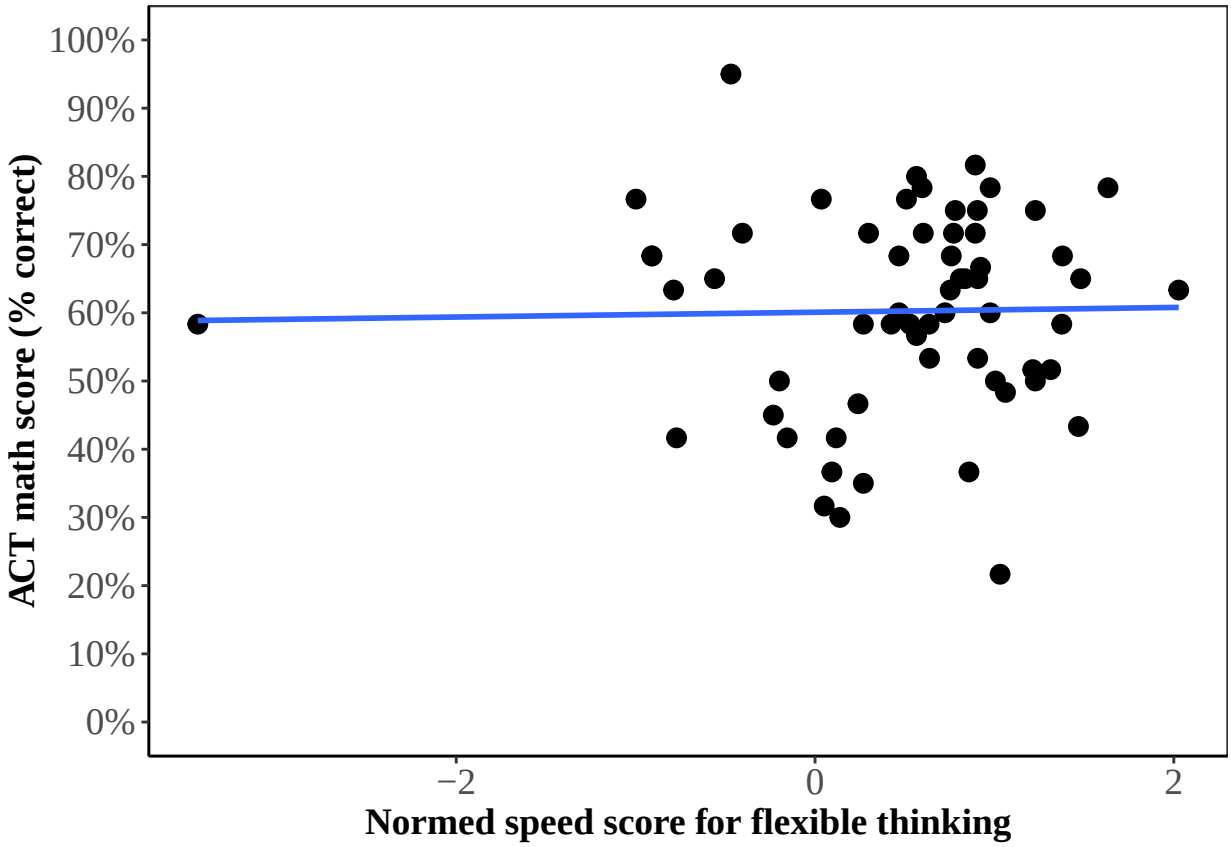

```
##
##  Pearson's product-moment correlation
##
## data:  finalDF2$VMEM_Sz and finalDF2$ACTmathscore
## t = -1.4342, df = 59, p-value = 0.1568
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.41612819  0.07158892
## sample estimates:
##       cor
## -0.1835406
```

Flexible thinking accuracy



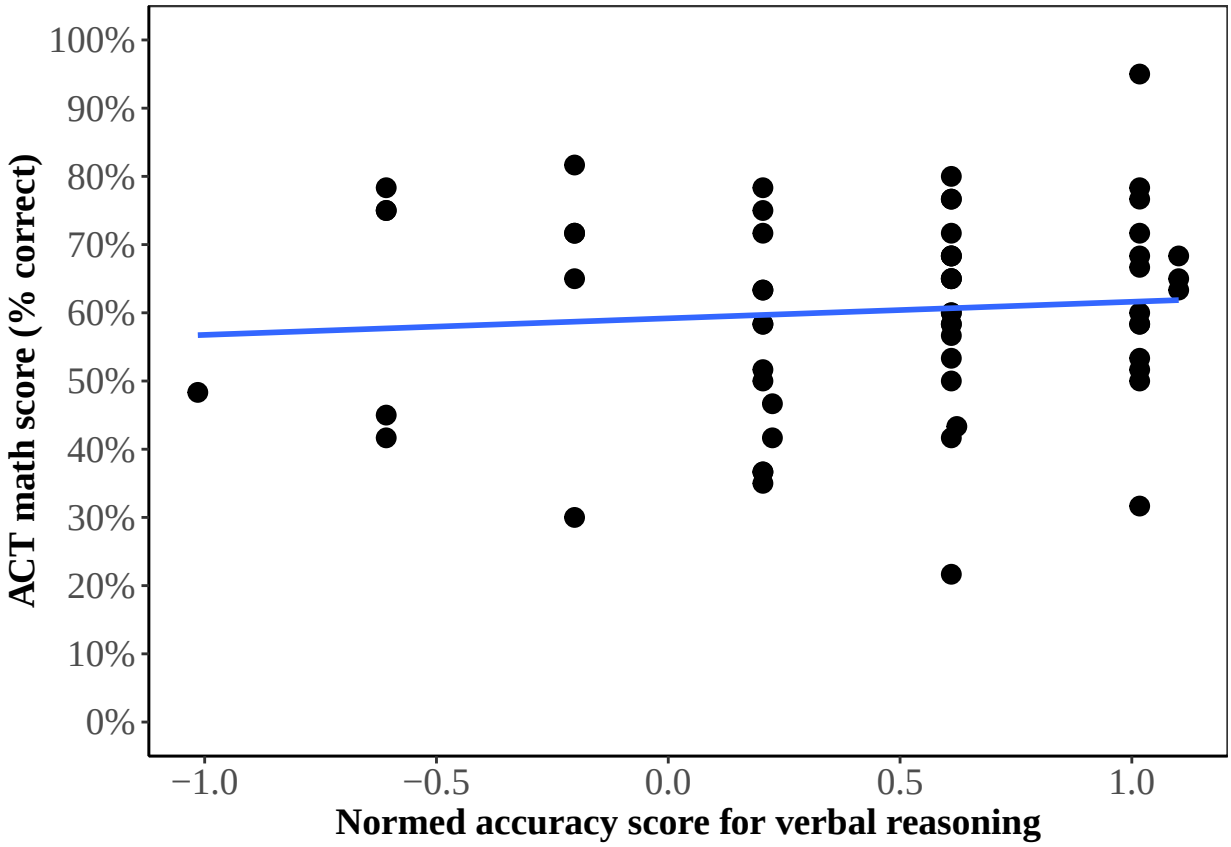

```
##
##  Pearson's product-moment correlation
##
## data:  finalDF2$ABF_Az and finalDF2$ACTmathscore
## t = 1.477, df = 59, p-value = 0.145
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.06613983  0.42064484
## sample estimates:
##       cor
## 0.1888259
```

Flexible thinking speed



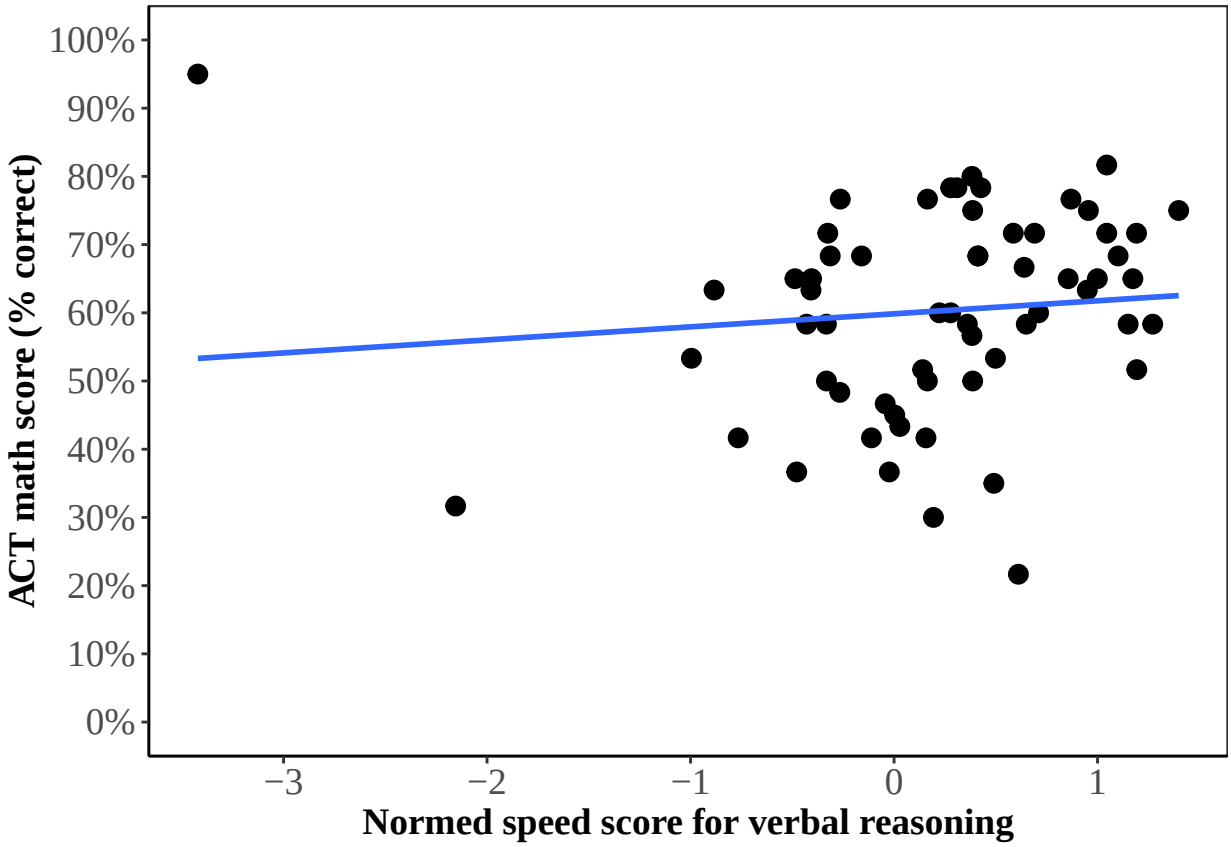

```
##
##  Pearson's product-moment correlation
##
## data:  finalDF2$ABF_Sz and finalDF2$ACTmathscore
## t = 0.15384, df = 59, p-value = 0.8783
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.2329716  0.2704807
## sample estimates:
##       cor
## 0.02002384
```

Verbal reasoning accuracy



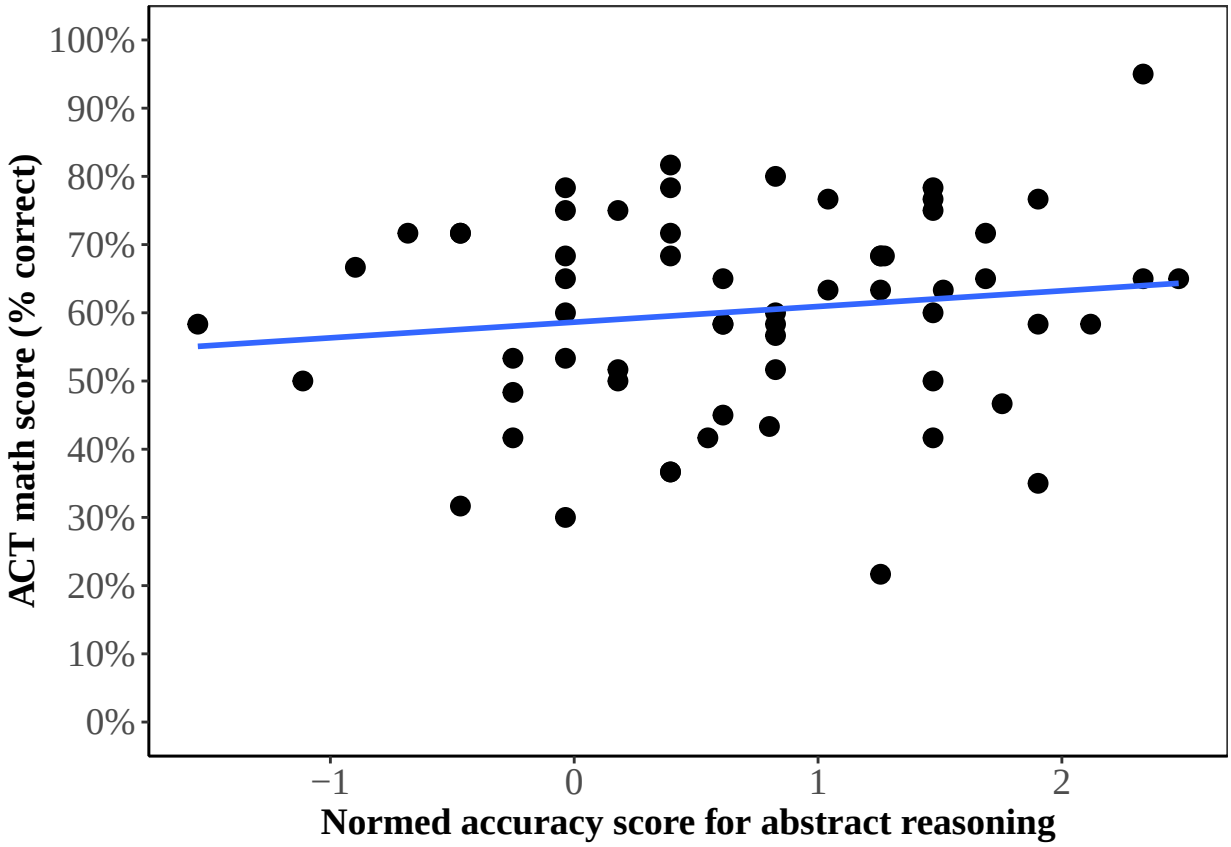

```
##
##  Pearson's product-moment correlation
##
## data:  finalDF2$LAN_Az and finalDF2$ACTmathscore
## t = 0.66719, df = 59, p-value = 0.5073
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.1689678  0.3311398
## sample estimates:
##       cor
## 0.08653498
```

Verbal reasoning speed



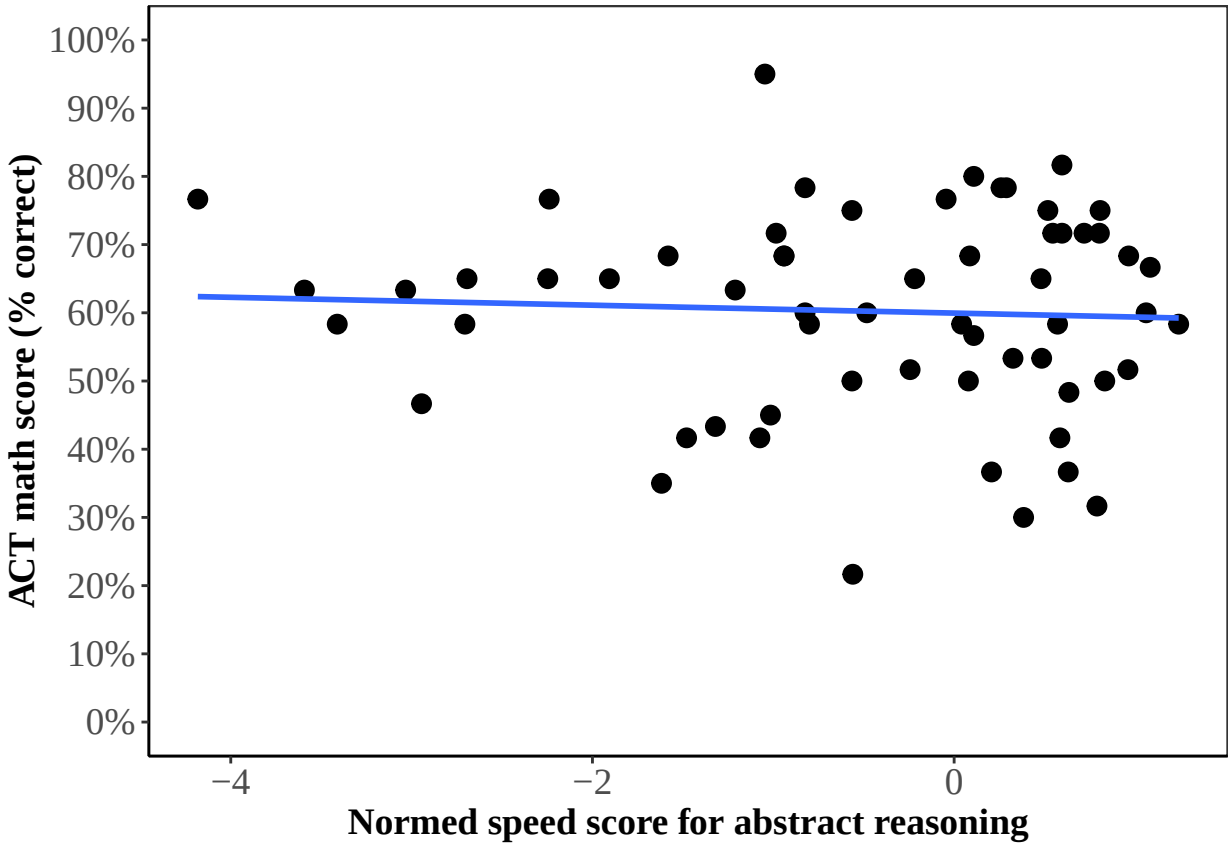

```
##
##  Pearson's product-moment correlation
##
## data:  finalDF2$LAN_Sz and finalDF2$ACTmathscore
## t = 0.80781, df = 59, p-value = 0.4224
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.1512122  0.3472656
## sample estimates:
##       cor
## 0.1045912
```

Abstract reasoning accuracy



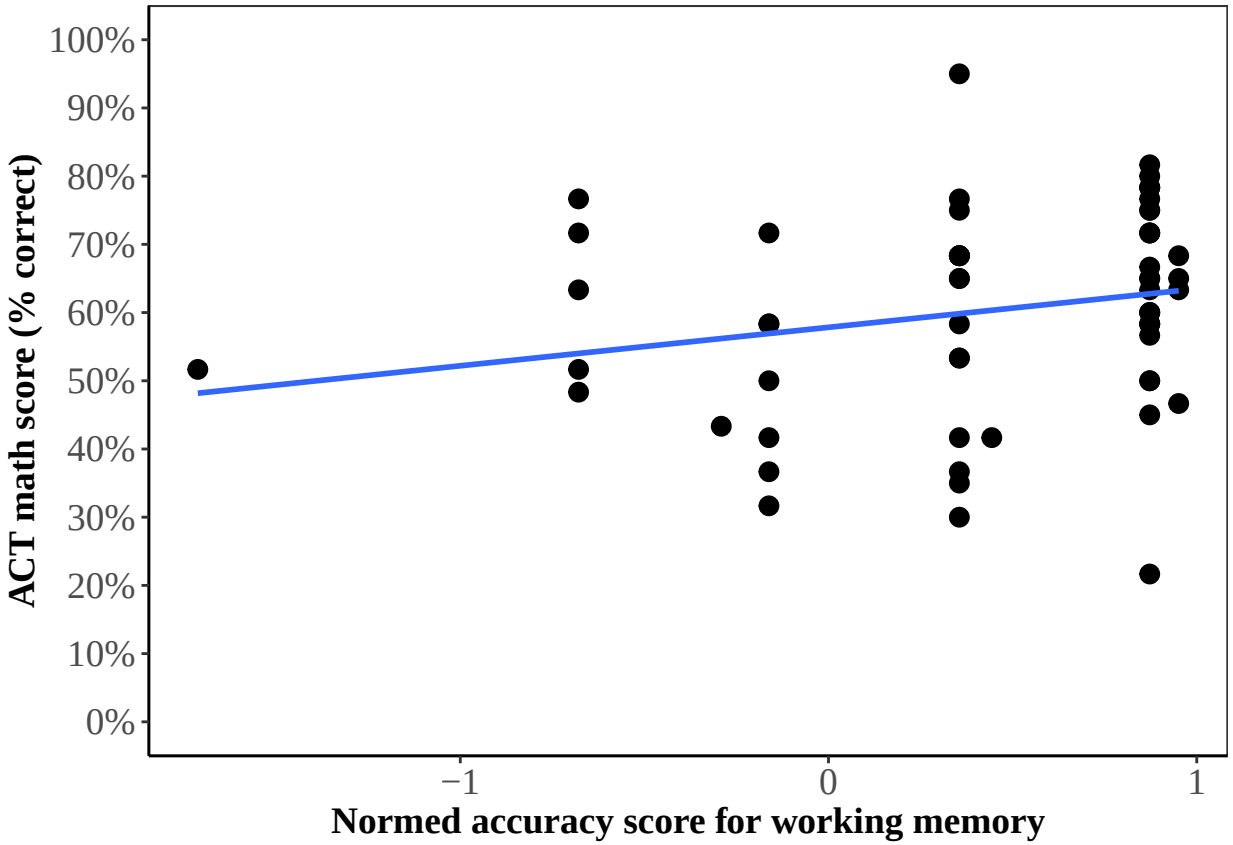

```
##
##  Pearson's product-moment correlation
##
## data:  finalDF2$NVR_Az and finalDF2$ACTmathscore
## t = 1.0884, df = 59, p-value = 0.2809
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.1156146  0.3787314
## sample estimates:
##       cor
## 0.1402905
```

Abstract reasoning speed



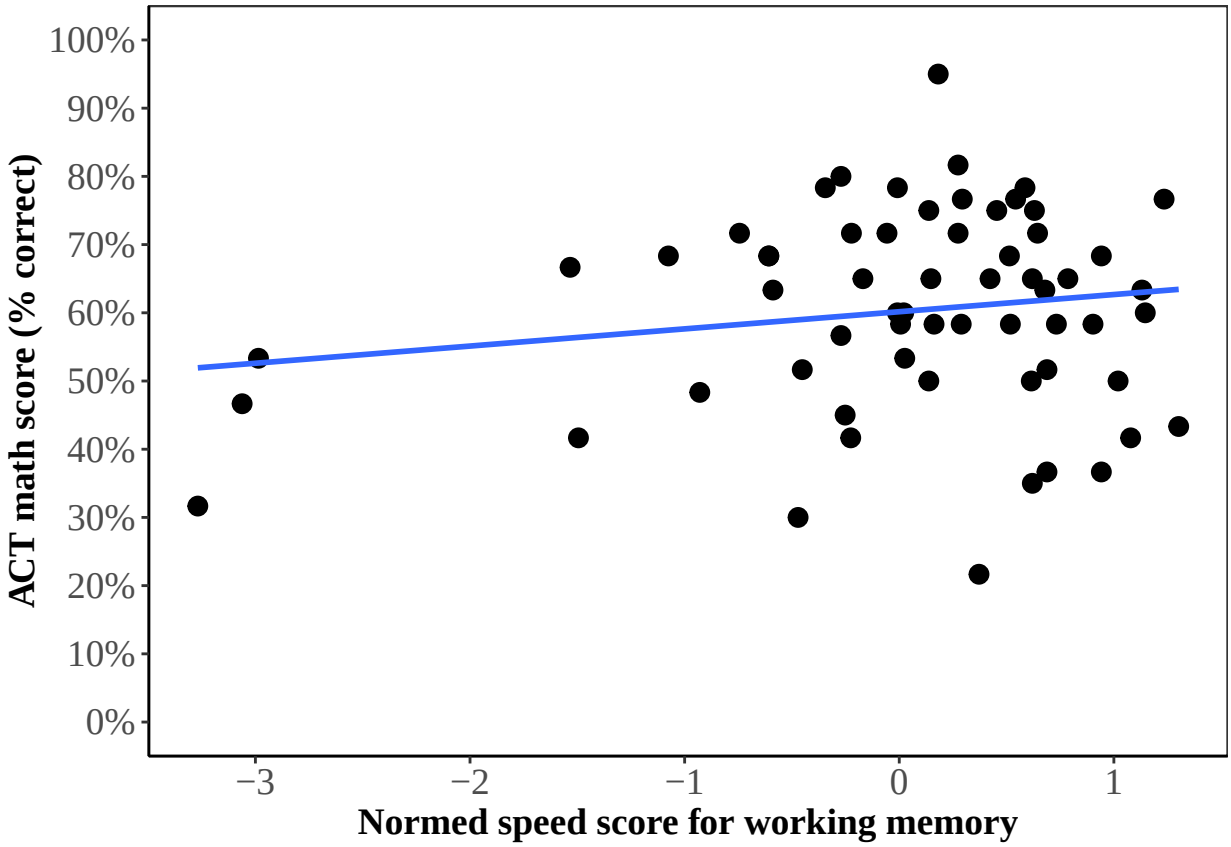

```
##
##  Pearson's product-moment correlation
##
## data:  finalDF2$NVR_Sz and finalDF2$ACTmathscore
## t = -0.39865, df = 59, p-value = 0.6916
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.2997387  0.2026354
## sample estimates:
##         cor
## -0.05183011
```

Working memory accuracy (p = 0.07)




```
##
##  Pearson's product-moment correlation
##
## data:  finalDF2$WM_Az and finalDF2$ACTmathscore
## t = 1.7332, df = 59, p-value = 0.08828
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.03356674  0.44715006
## sample estimates:
##       cor
## 0.2201146
```

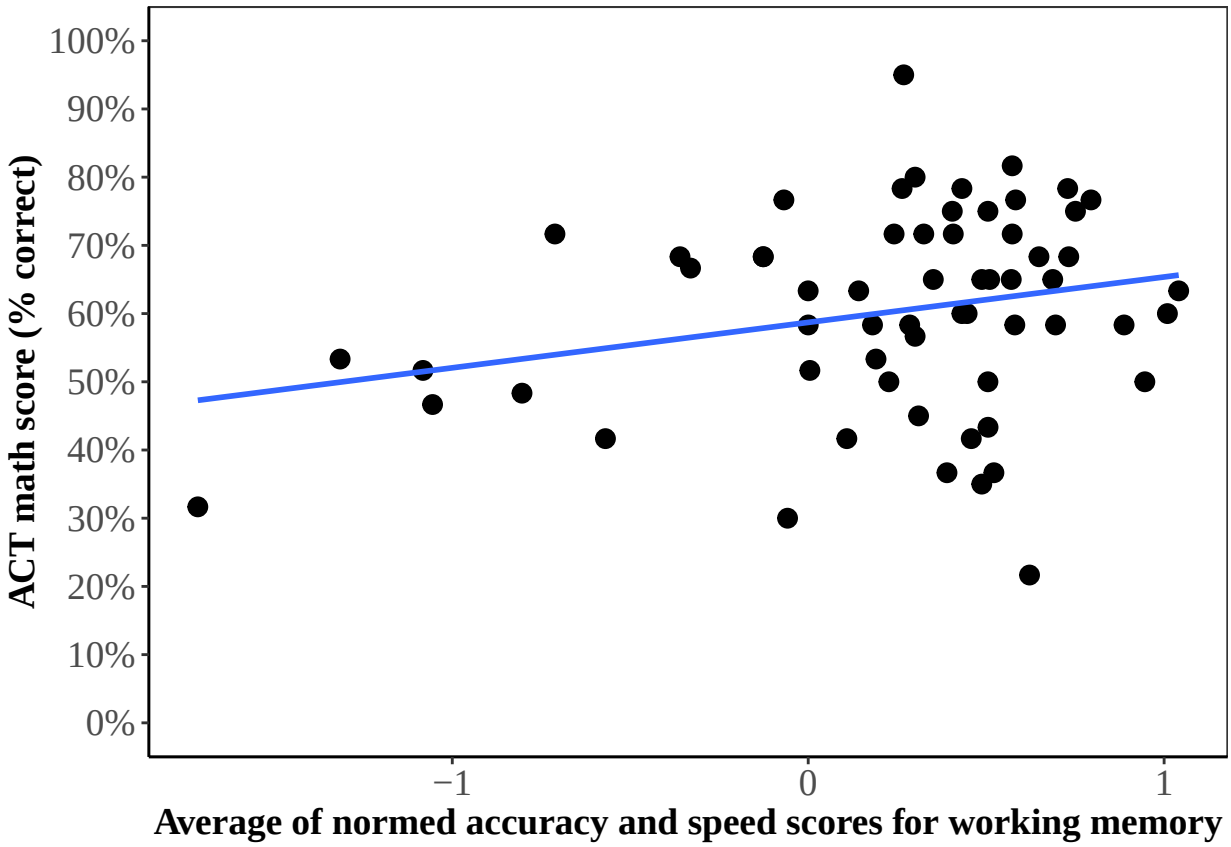
Working memory speed




```
##
##  Pearson's product-moment correlation
##
## data:  finalDF2$WM_Sz and finalDF2$ACTmathscore
## t = 1.2733, df = 59, p-value = 0.2079
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.09207013  0.39893368
## sample estimates:
##       cor
## 0.1635424
```

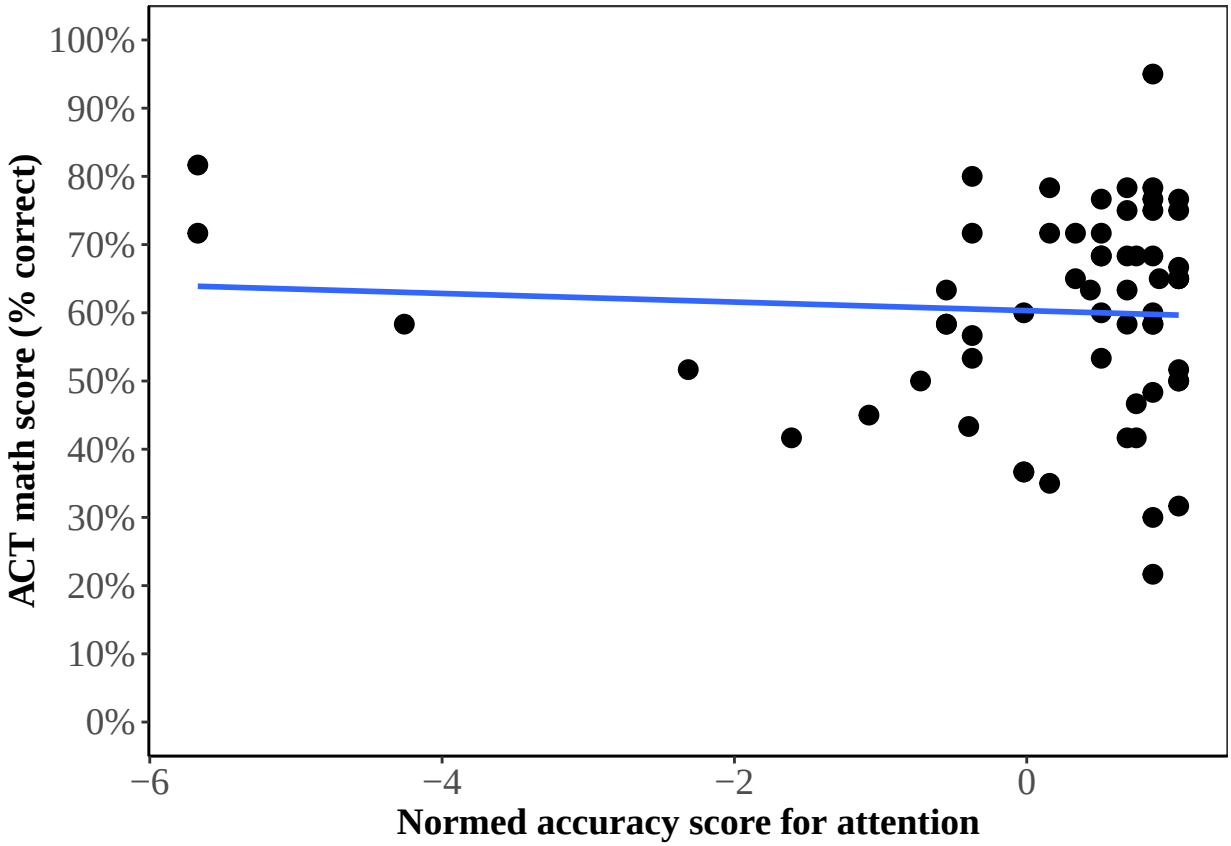
Working memory efficiency ($p < 0.05$)

Average of normed accuracy and speed scores for working memory.



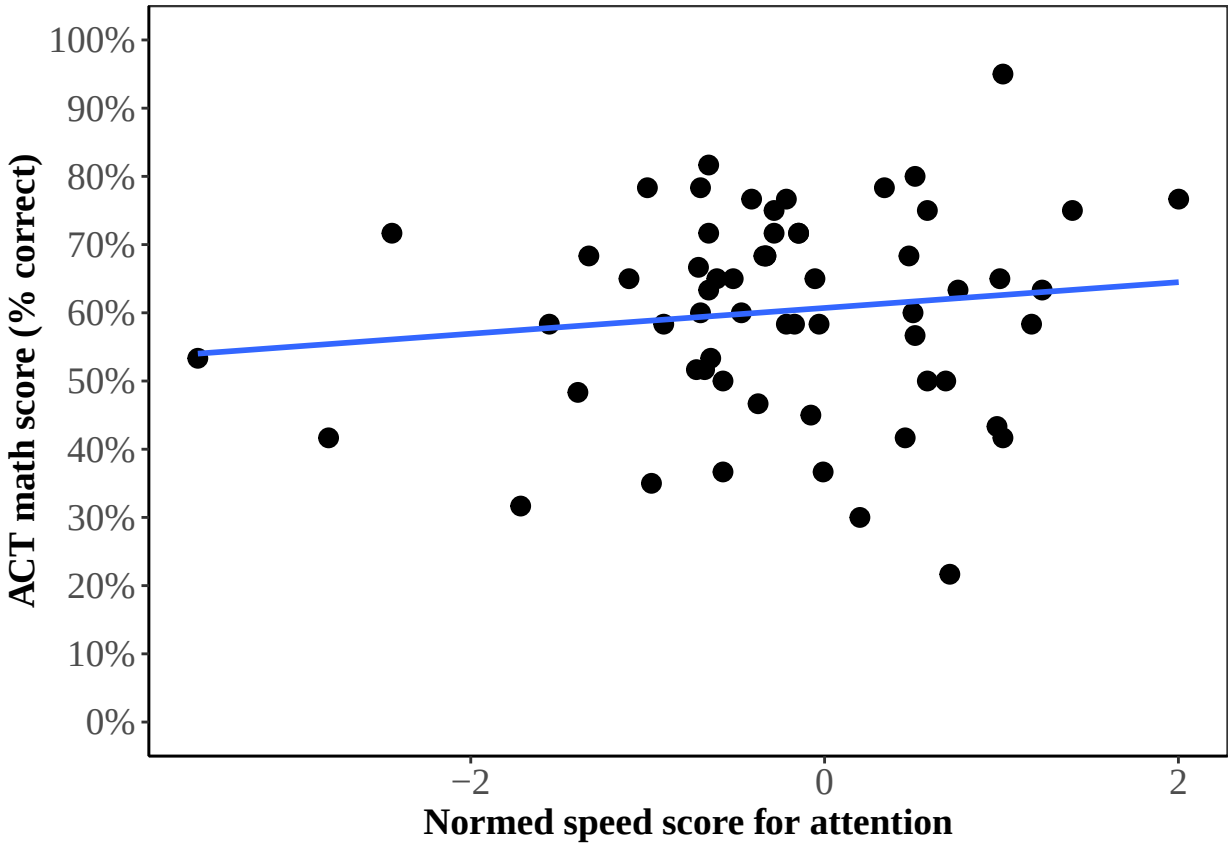

```
##
##  Pearson's product-moment correlation
##
## data:  finalDF2$WM_EFFICIENCY and finalDF2$ACTmathscore
## t = 2.0083, df = 59, p-value = 0.04919
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  0.001216049 0.474550976
## sample estimates:
##       cor
## 0.2529593
```

Attention accuracy



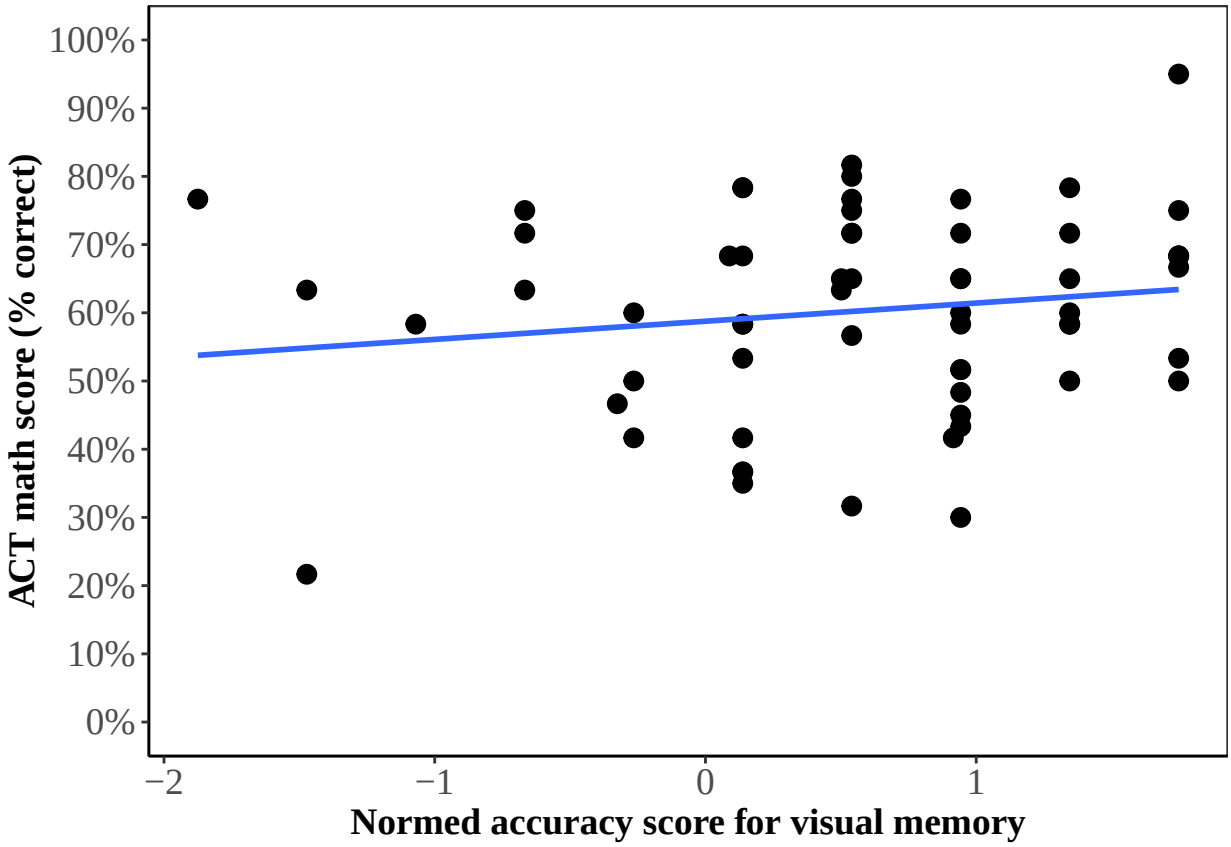

```
##
##  Pearson's product-moment correlation
##
## data:  finalDF2$ATT_Az and finalDF2$ACTmathscore
## t = -0.46276, df = 59, p-value = 0.6452
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.3073040  0.1946312
## sample estimates:
##         cor
## -0.06013698
```

Attention speed



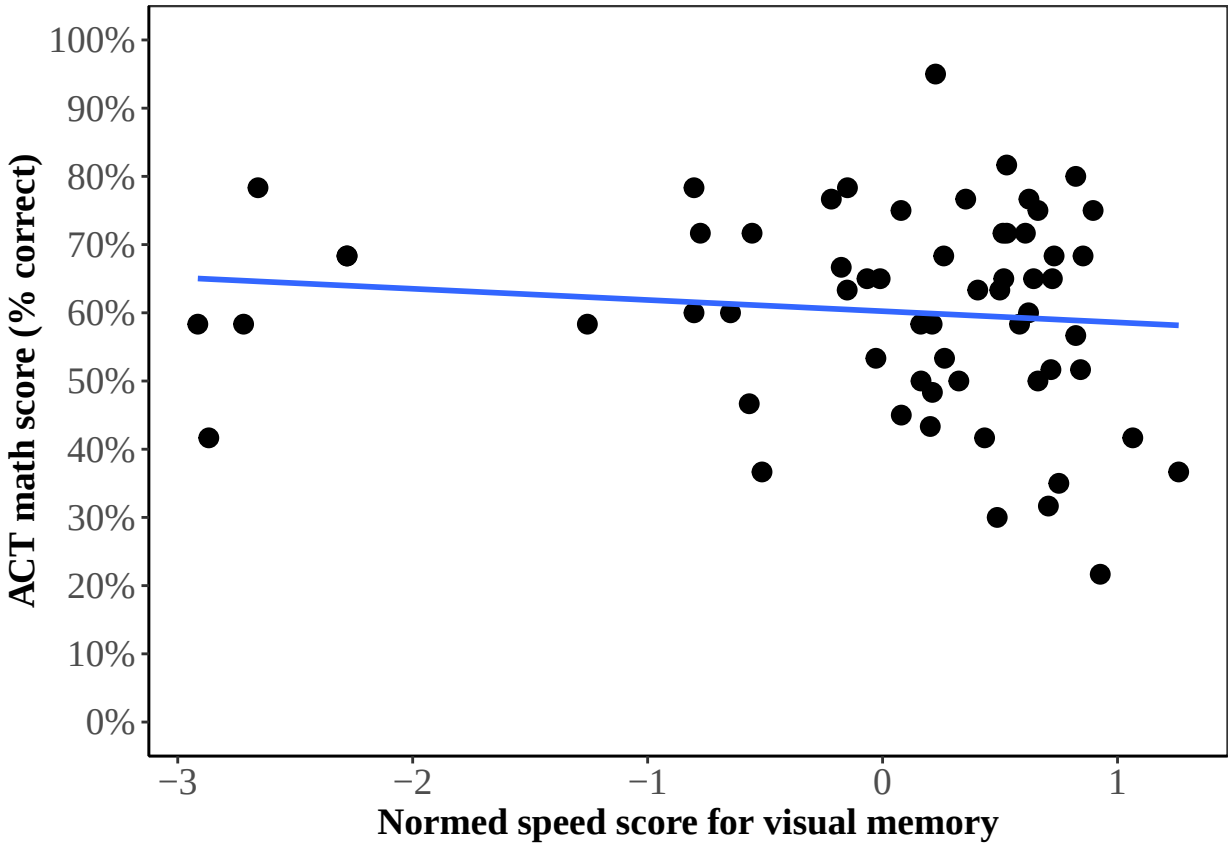

```
##
##  Pearson's product-moment correlation
##
## data:  finalDF2$ATT_Sz and finalDF2$ACTmathscore
## t = 0.98092, df = 59, p-value = 0.3306
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.1292684  0.3667960
## sample estimates:
##      cor
## 0.126676
```

Visual memory accuracy



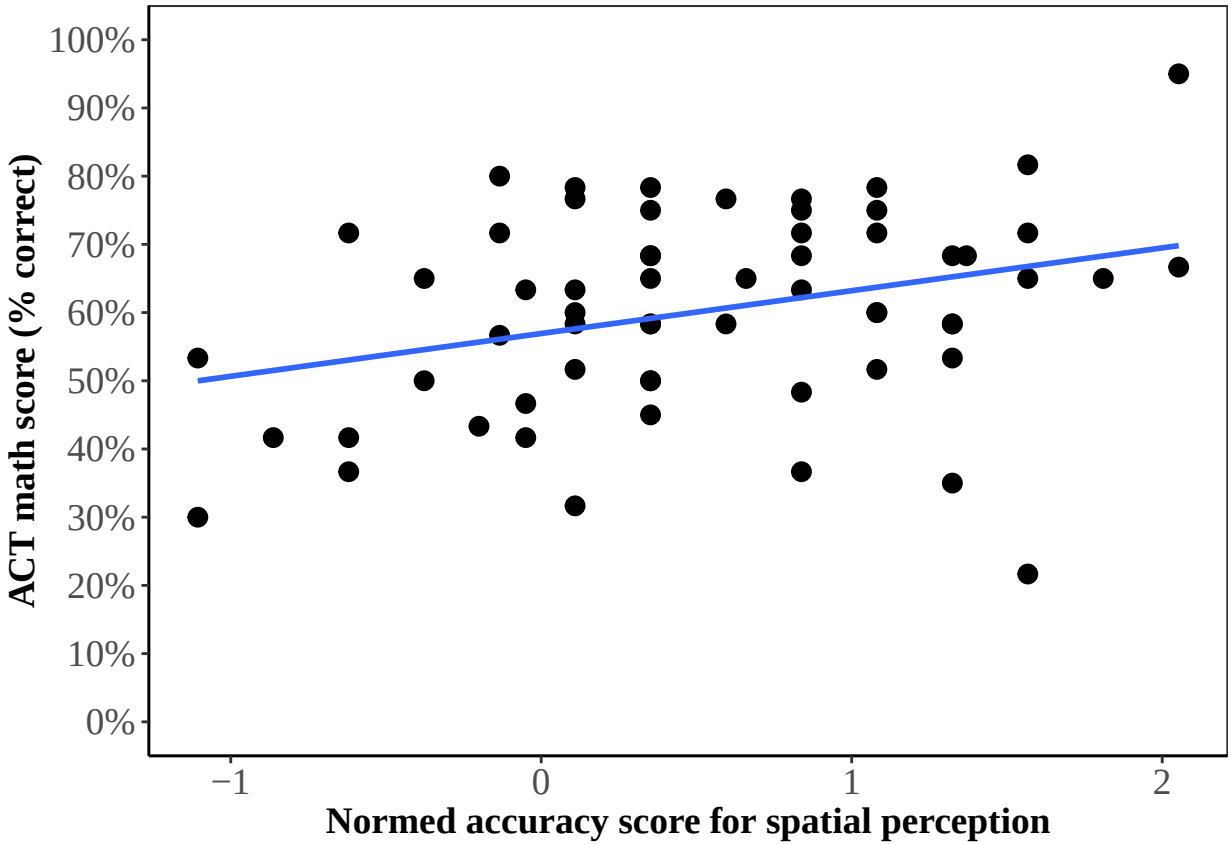

```
##
##  Pearson's product-moment correlation
##
## data:  finalDF2$SMEM_Az and finalDF2$ACTmathscore
## t = 1.1957, df = 59, p-value = 0.2366
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.1019598  0.3905055
## sample estimates:
##       cor
## 0.1538101
```

Visual memory speed



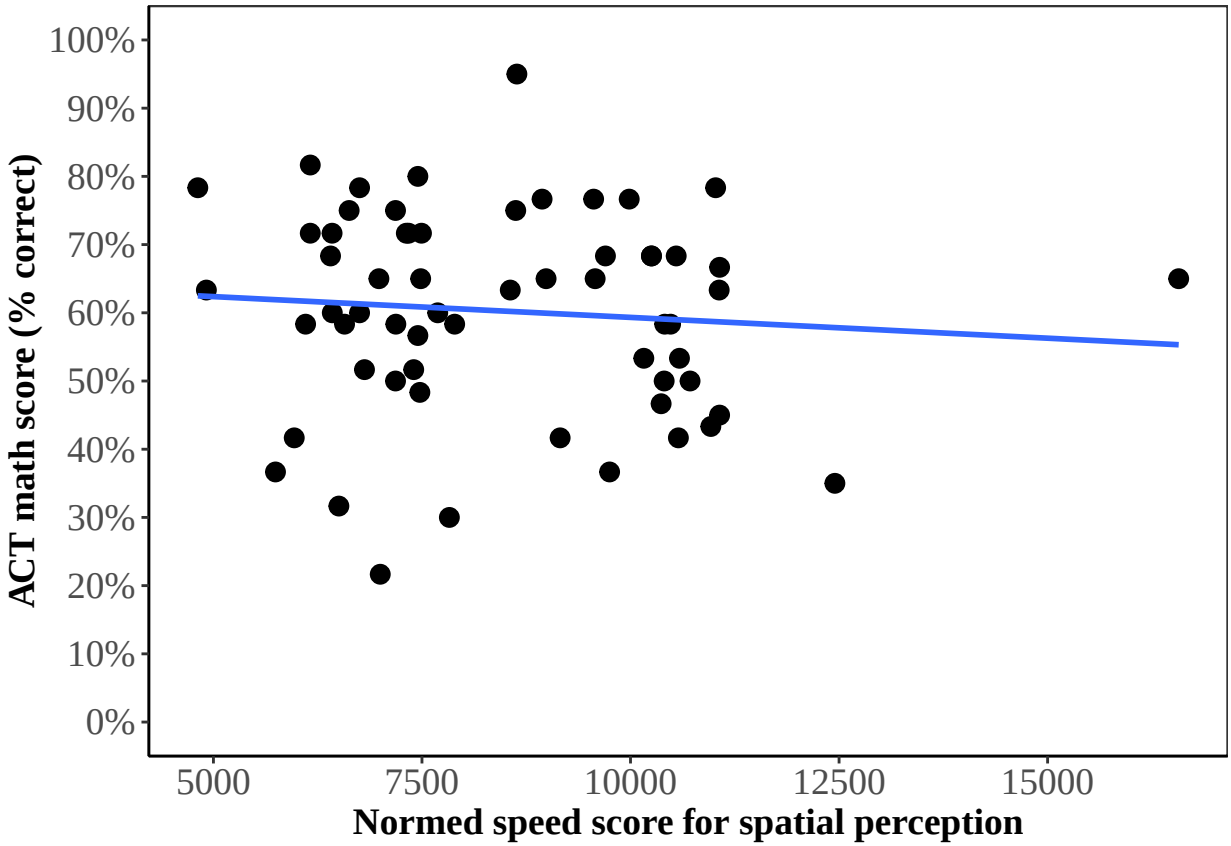

```
##
##  Pearson's product-moment correlation
##
## data:  finalDF2$SMEM_Sz and finalDF2$ACTmathscore
## t = -0.87163, df = 59, p-value = 0.3869
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.3545080  0.1431318
## sample estimates:
##       cor
## -0.112753
```

Spatial perception accuracy ($p < 0.01$)




```
##
##  Pearson's product-moment correlation
##
## data:  finalDF2$SPA_Az and finalDF2$ACTmathscore
## t = 2.6027, df = 59, p-value = 0.01168
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  0.07516989 0.52991266
## sample estimates:
##       cor
## 0.3209159
```

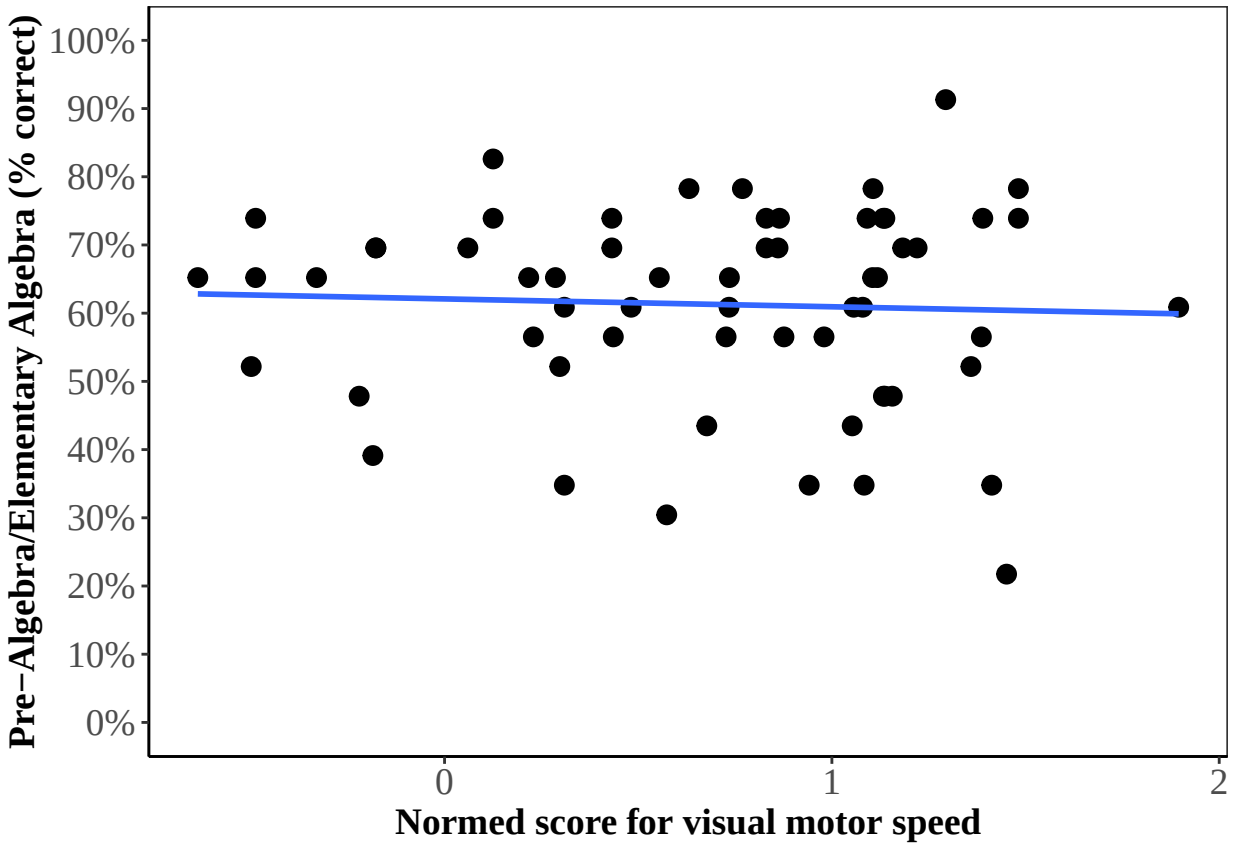
Spatial perception speed




```
##
##  Pearson's product-moment correlation
##
## data:  finalDF2$SPA_Sz and finalDF2$ACTmathscore
## t = -0.67924, df = 59, p-value = 0.4996
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.3325309  0.1674488
## sample estimates:
##         cor
## -0.08808631
```

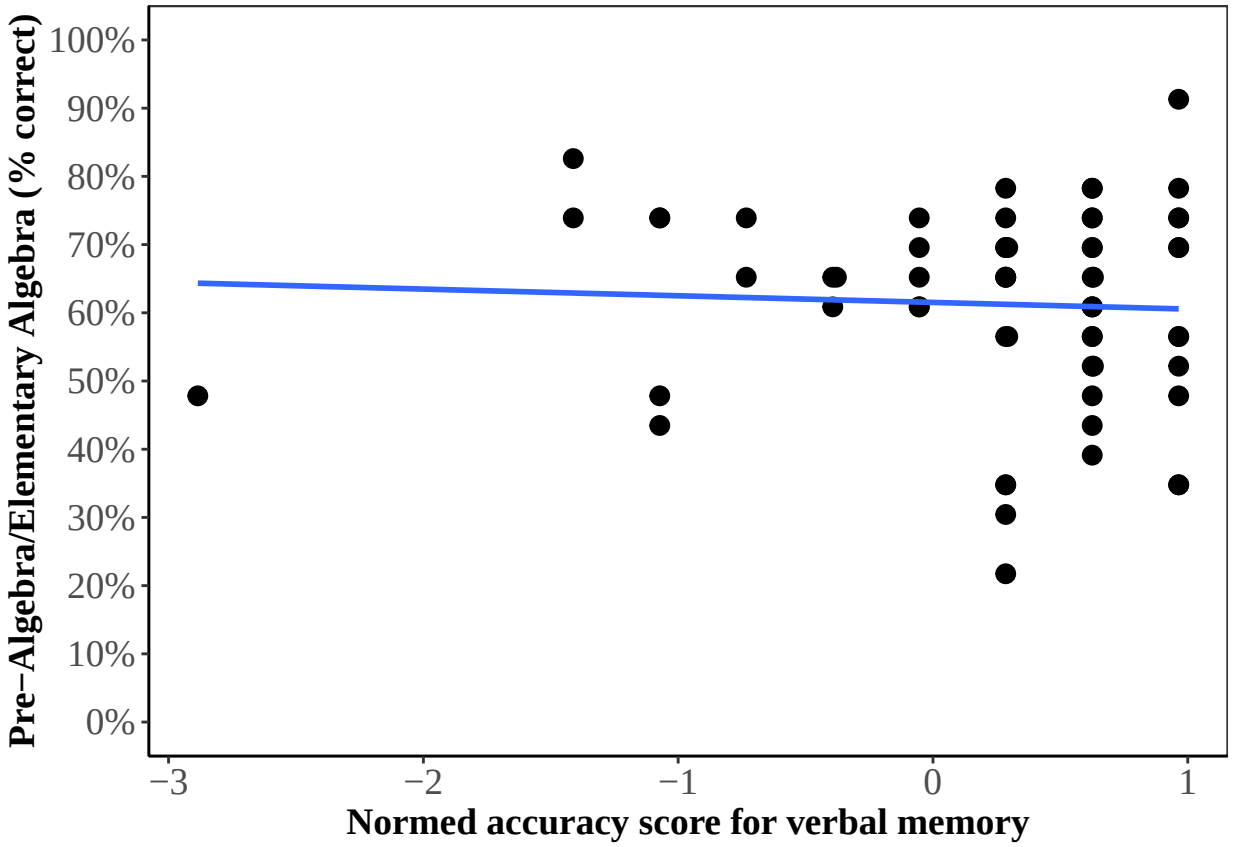
EA/ Pre-Algebra/Elementary Algebra Subsection

Visual motor speed



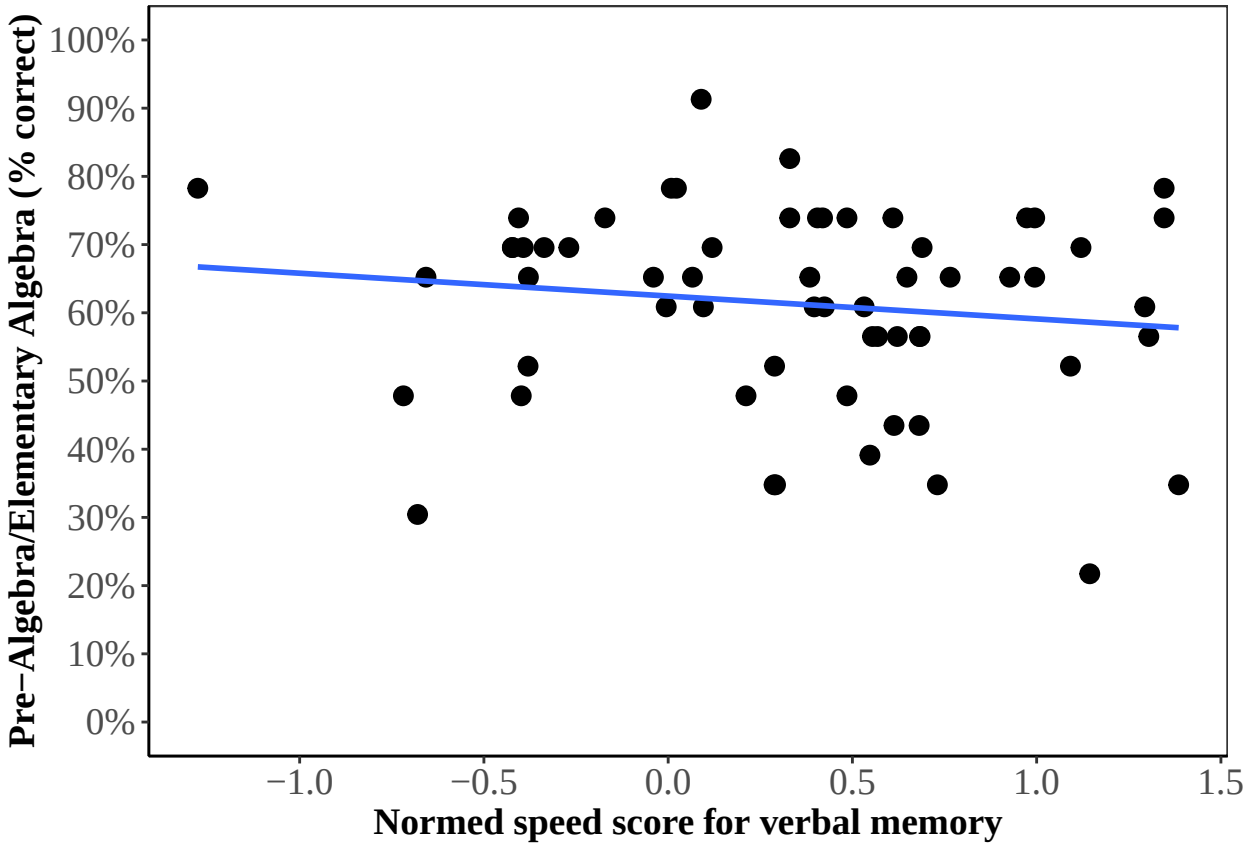

```
##
##  Pearson's product-moment correlation
##
## data:  EA_DF$SM_Sz and EA_DF$EAscore
## t = -0.36649, df = 59, p-value = 0.7153
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.2959277  0.2066422
## sample estimates:
##         cor
## -0.04765849
```

Verbal memory accuracy



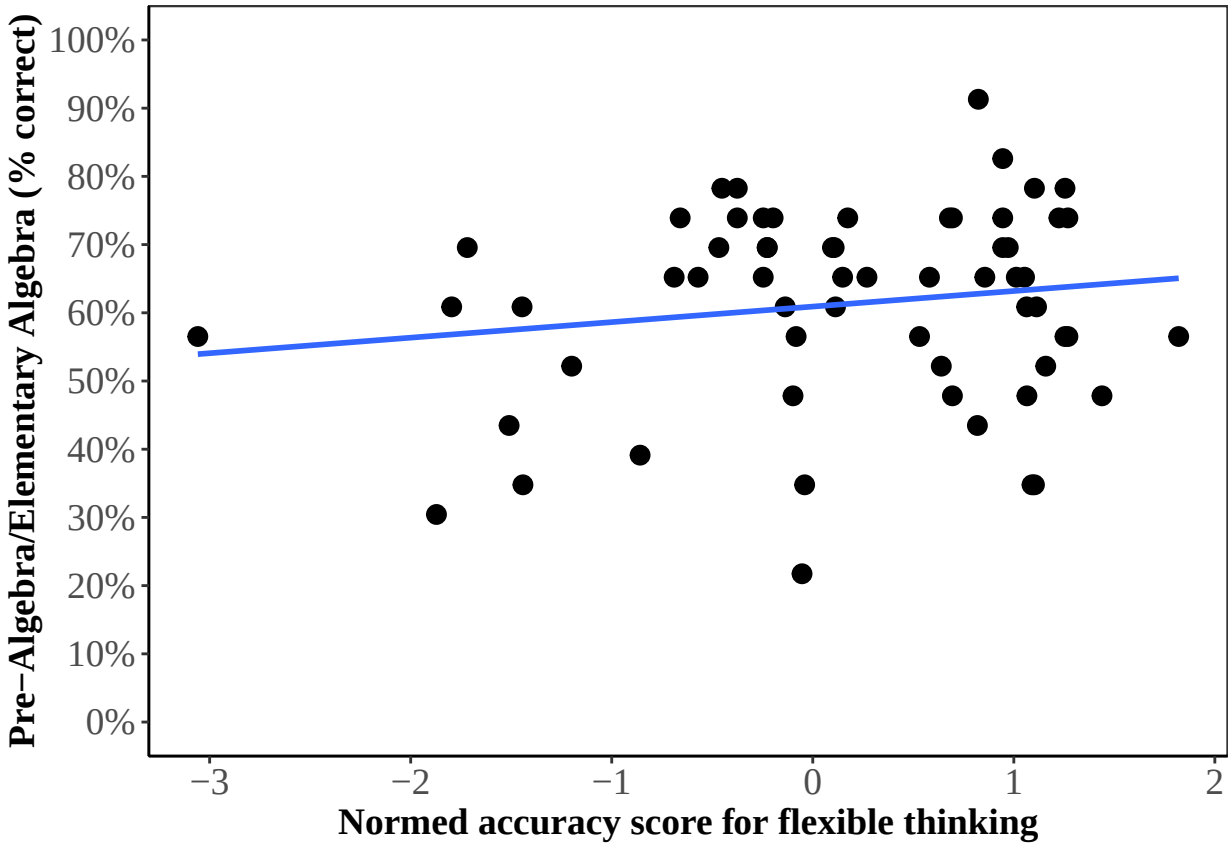

```
##
##  Pearson's product-moment correlation
##
## data:  EA_DF$VMEM_Az and EA_DF$EAscore
## t = -0.39783, df = 59, p-value = 0.6922
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.2996417  0.2027376
## sample estimates:
##         cor
## -0.05172385
```

Verbal memory speed



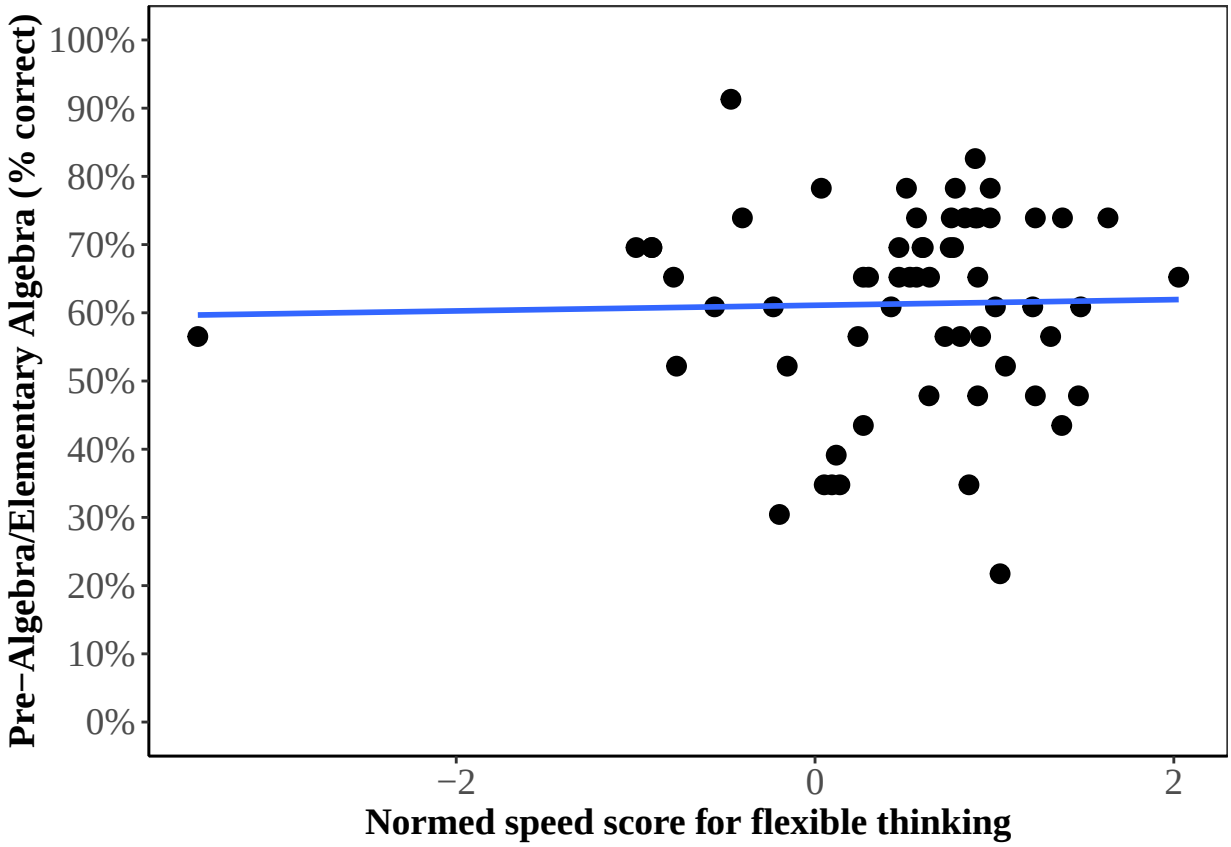

```
##
##  Pearson's product-moment correlation
##
## data:  EA_DF$VMEM_Sz and EA_DF$EAscore
## t = -1.0764, df = 59, p-value = 0.2861
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.3774110  0.1171345
## sample estimates:
##        cor
## -0.1387798
```

Flexible thinking accuracy



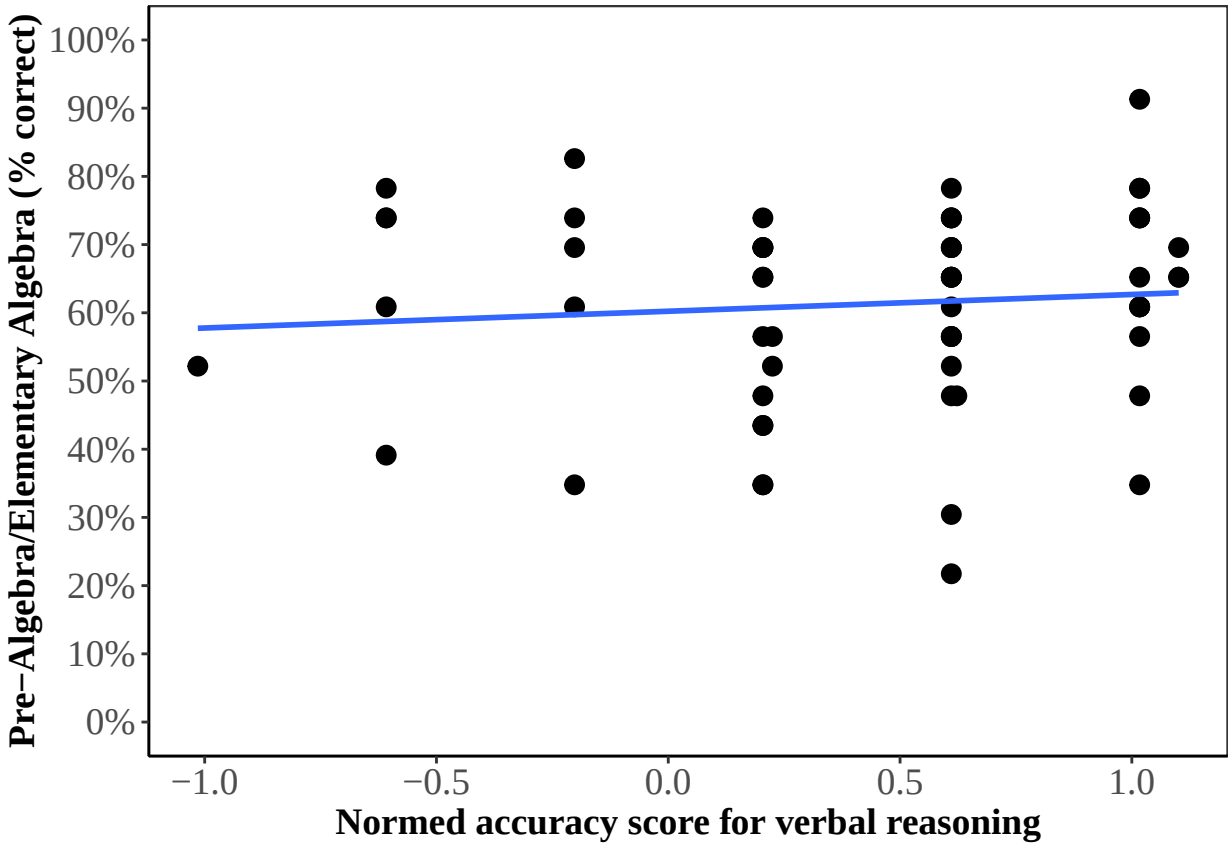

```
##
##  Pearson's product-moment correlation
##
## data:  EA_DF$ABF_Az and EA_DF$EAscore
## t = 1.24, df = 59, p-value = 0.2199
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.09630984  0.39533066
## sample estimates:
##       cor
## 0.1593762
```

Flexible thinking speed



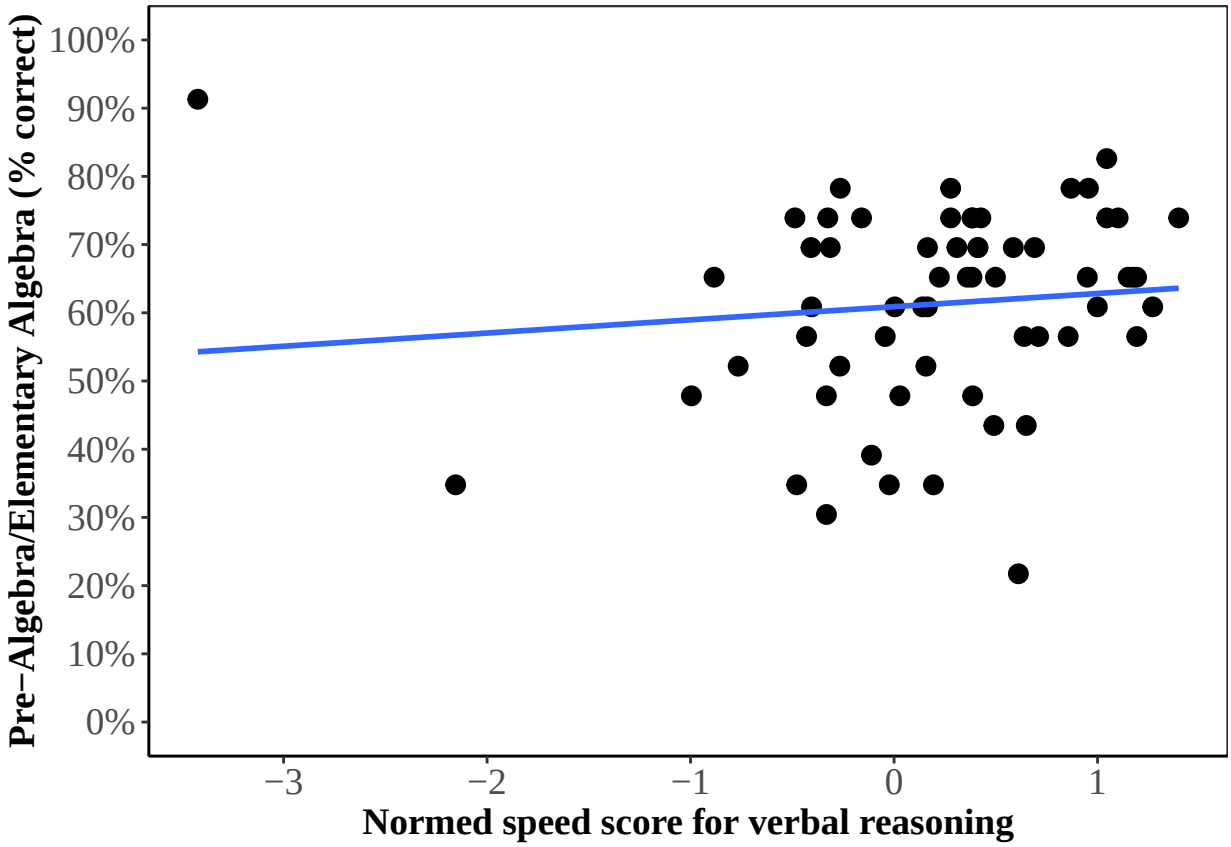

```
##
##  Pearson's product-moment correlation
##
## data:  EA_DF$ABF_Sz and EA_DF$EAscore
## t = 0.18723, df = 59, p-value = 0.8521
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.2288567  0.2745046
## sample estimates:
##       cor
## 0.02436838
```

Verbal reasoning accuracy



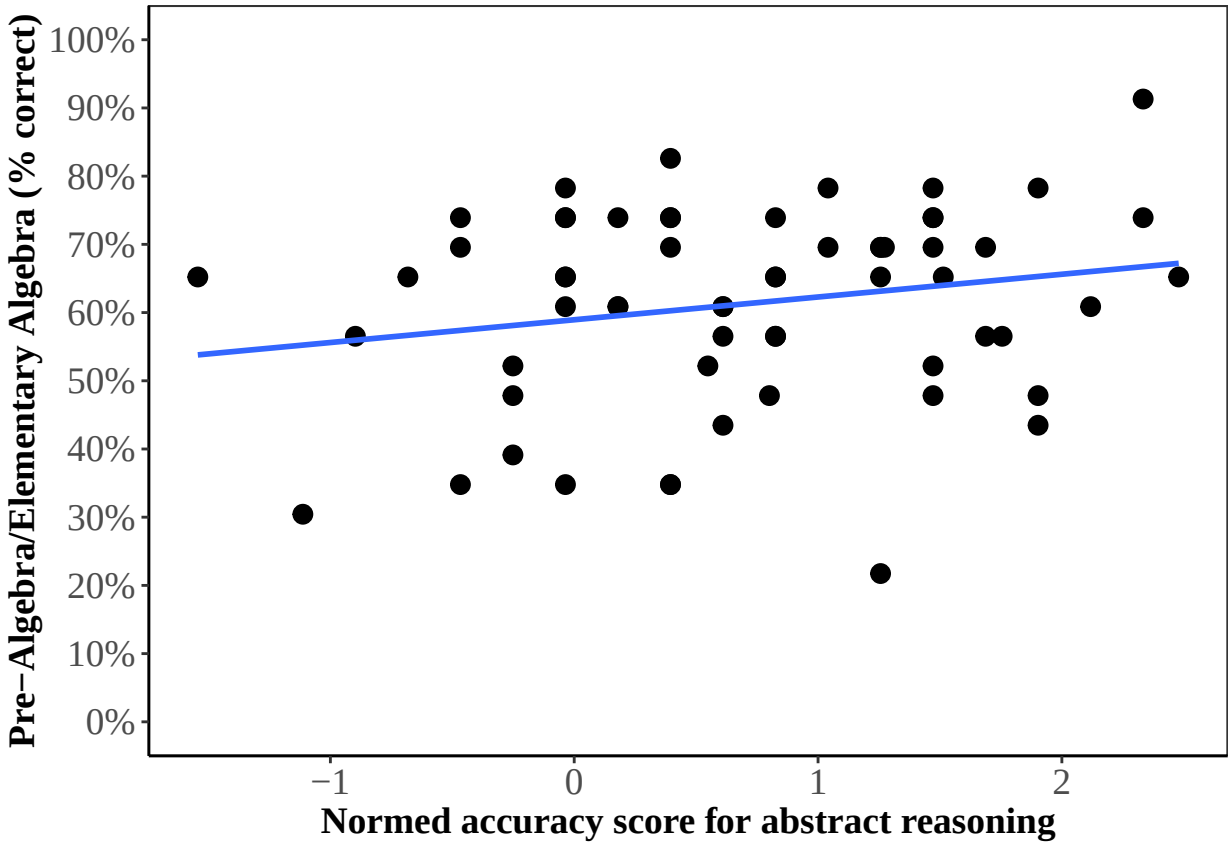

```
##
##  Pearson's product-moment correlation
##
## data:  EA_DF$LAN_Az and EA_DF$EAscore
## t = 0.69612, df = 59, p-value = 0.4891
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.1653216  0.3344753
## sample estimates:
##       cor
## 0.09025665
```

Verbal reasoning speed



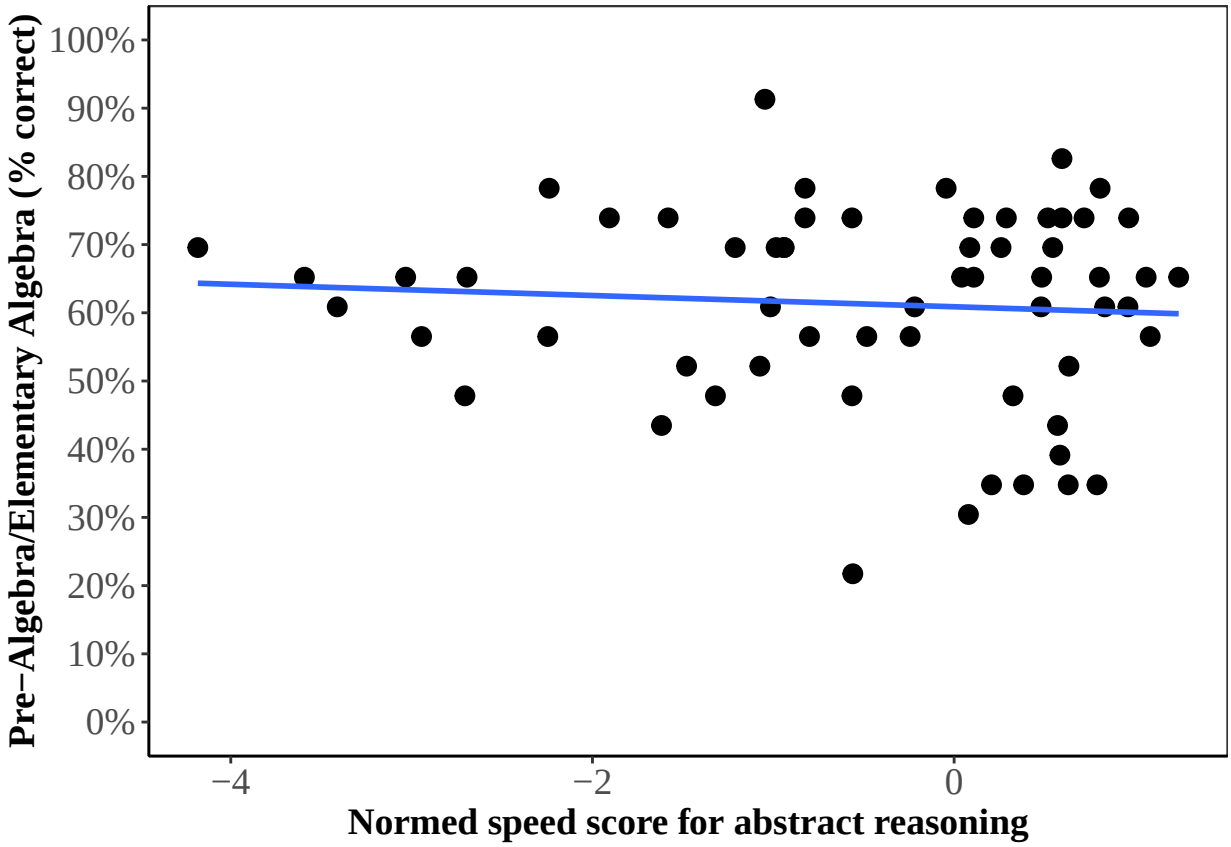

```
##
##  Pearson's product-moment correlation
##
## data:  EA_DF$LAN_Sz and EA_DF$EAscore
## t = 0.84208, df = 59, p-value = 0.4031
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.1468751  0.3511603
## sample estimates:
##       cor
## 0.1089762
```

Abstract reasoning accuracy (p = 0.08)



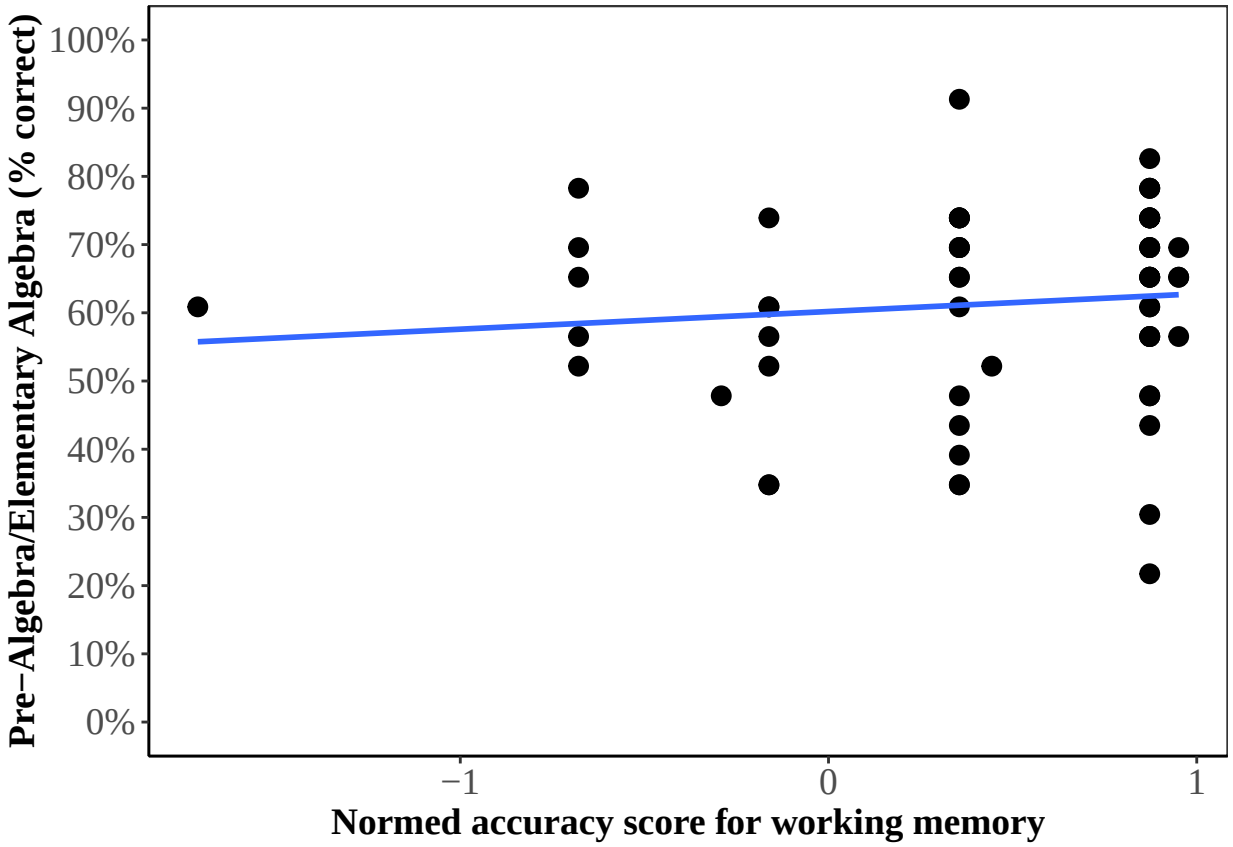

```
##
##  Pearson's product-moment correlation
##
## data:  EA_DF$NVR_Az and EA_DF$EAscore
## t = 1.6481, df = 59, p-value = 0.1047
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.04437907  0.43844452
## sample estimates:
##       cor
## 0.2097861
```

Abstract reasoning speed



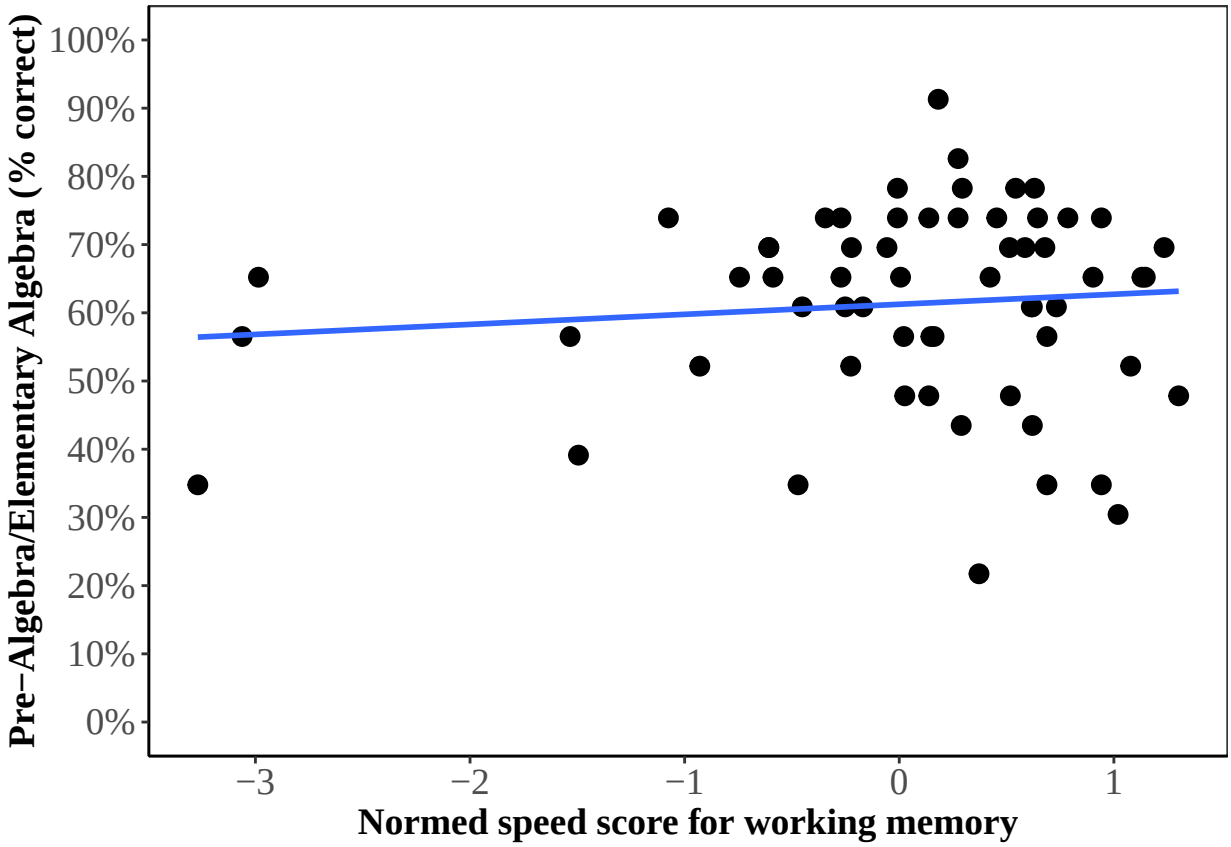

```
##
##  Pearson's product-moment correlation
##
## data:  EA_DF$NVR_Sz and EA_DF$EAscore
## t = -0.5862, df = 59, p-value = 0.56
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.3217508  0.1791583
## sample estimates:
##         cor
## -0.07609558
```

Working memory accuracy




```
##
##  Pearson's product-moment correlation
##
## data:  EA_DF$WM_Az and EA_DF$EAscore
## t = 0.805, df = 59, p-value = 0.4241
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.1515679  0.3469454
## sample estimates:
##       cor
## 0.1042311
```

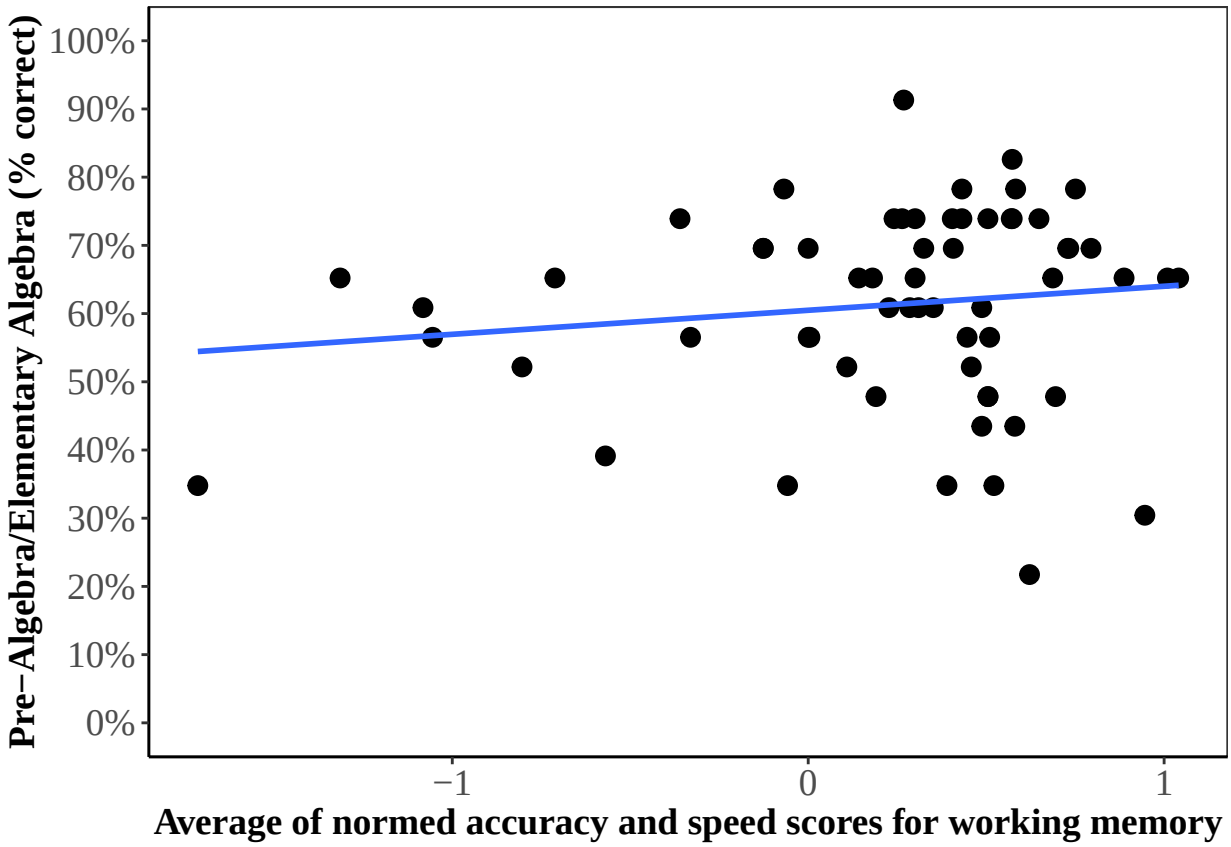
Working memory speed




```
##
##  Pearson's product-moment correlation
##
## data:  EA_DF$WM_Sz and EA_DF$EAscore
## t = 0.76043, df = 59, p-value = 0.45
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.1572025  0.3418579
## sample estimates:
##       cor
## 0.09851829
```

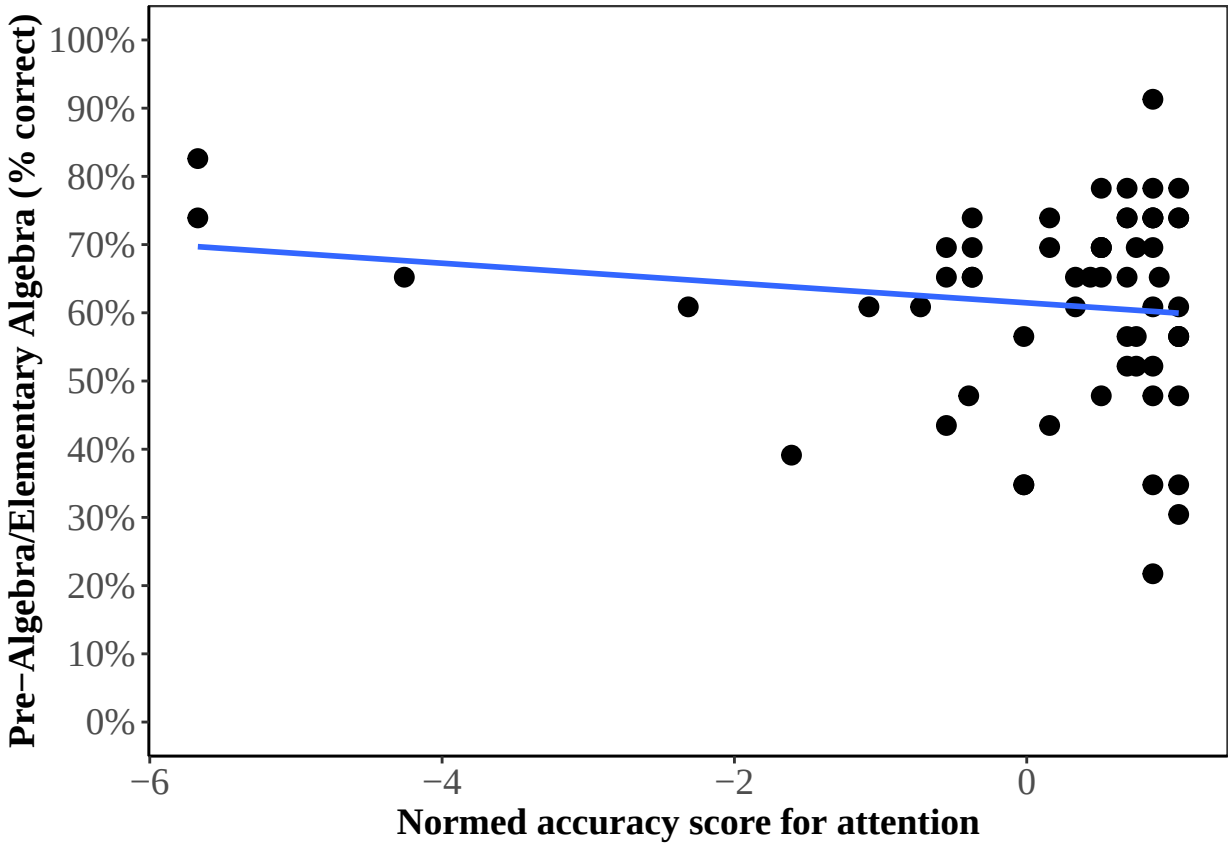
Working memory efficiency

Average of normed accuracy and speed scores for working memory.



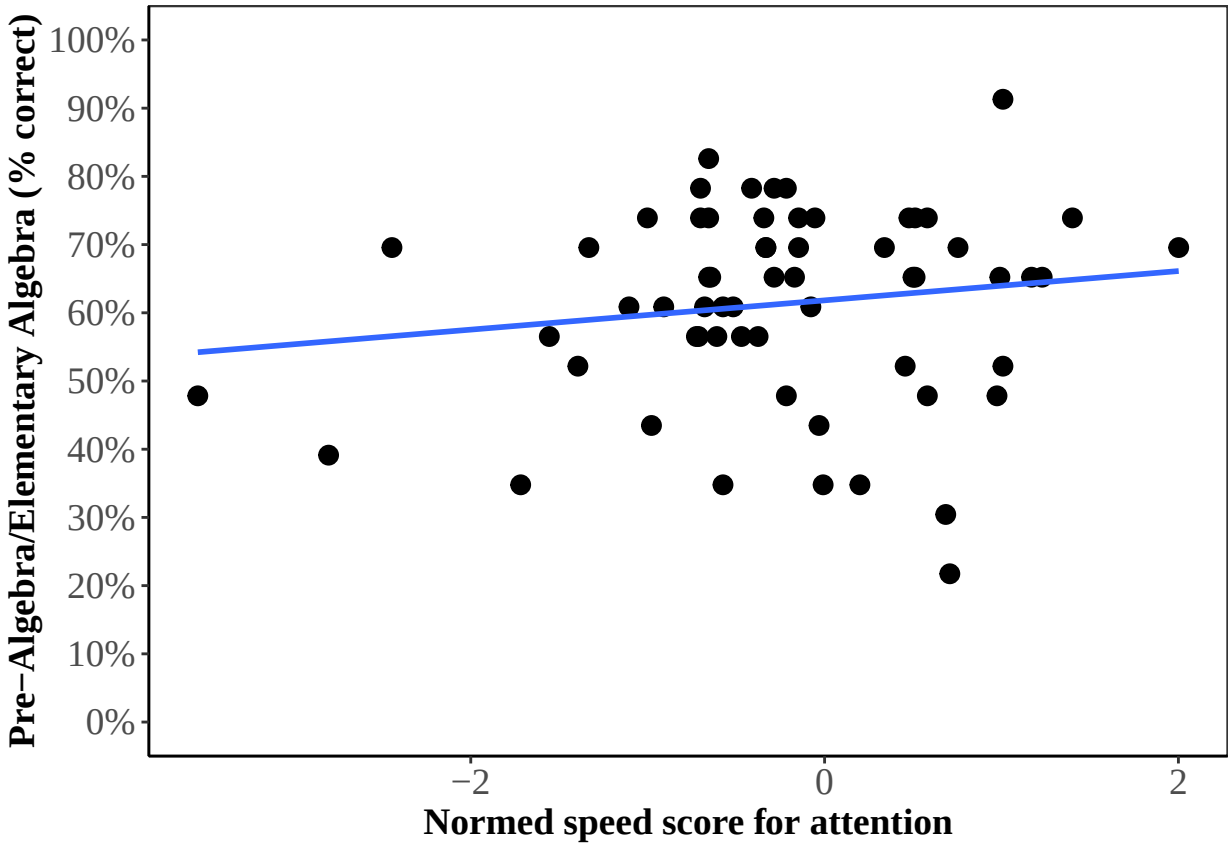

```
##
##  Pearson's product-moment correlation
##
## data:  EA_DF$WM_EFFICIENCY and EA_DF$EAscore
## t = 1.0687, df = 59, p-value = 0.2896
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.1181179  0.3765555
## sample estimates:
##       cor
## 0.1378017
```

Attention accuracy



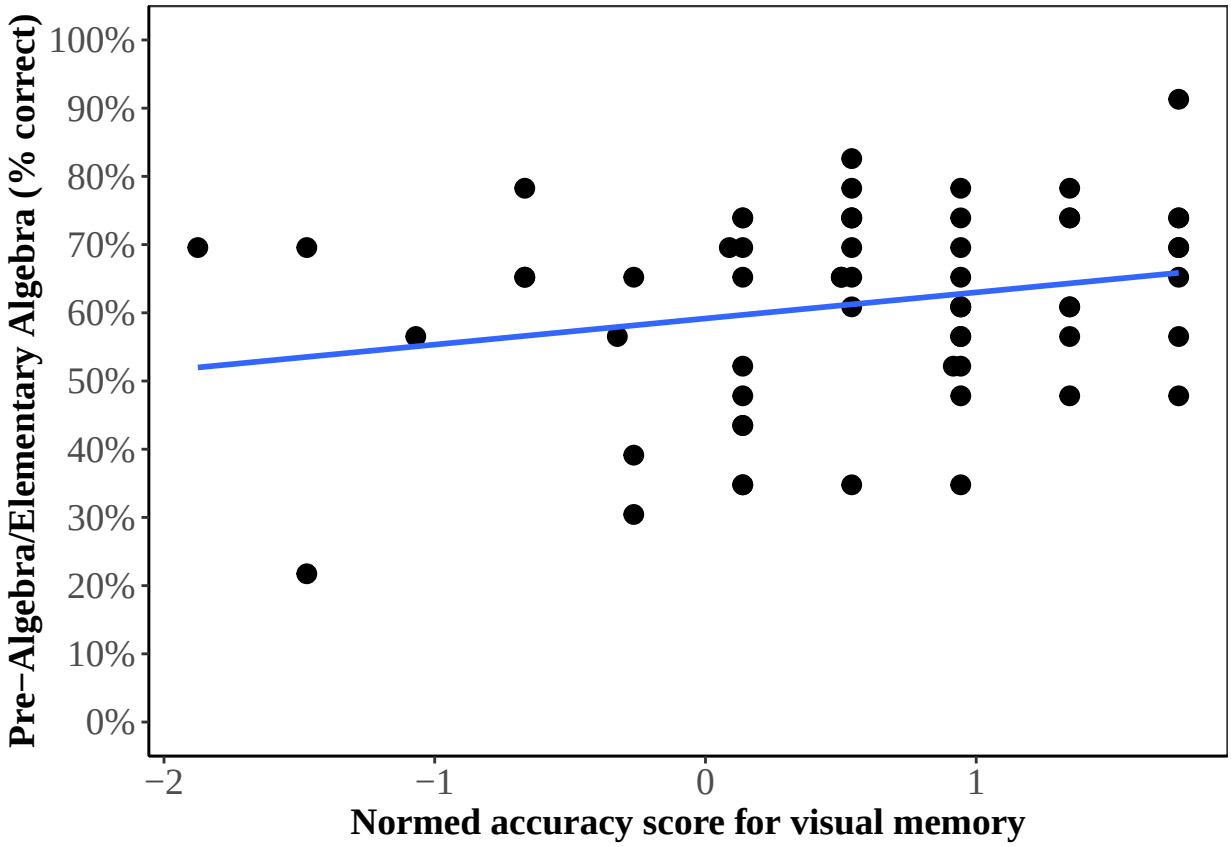

```
##
##  Pearson's product-moment correlation
##
## data:  EA_DF$ATT_Az and EA_DF$EAscore
## t = -1.1074, df = 59, p-value = 0.2726
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.380833  0.113191
## sample estimates:
##        cor
## -0.1426971
```

Attention speed



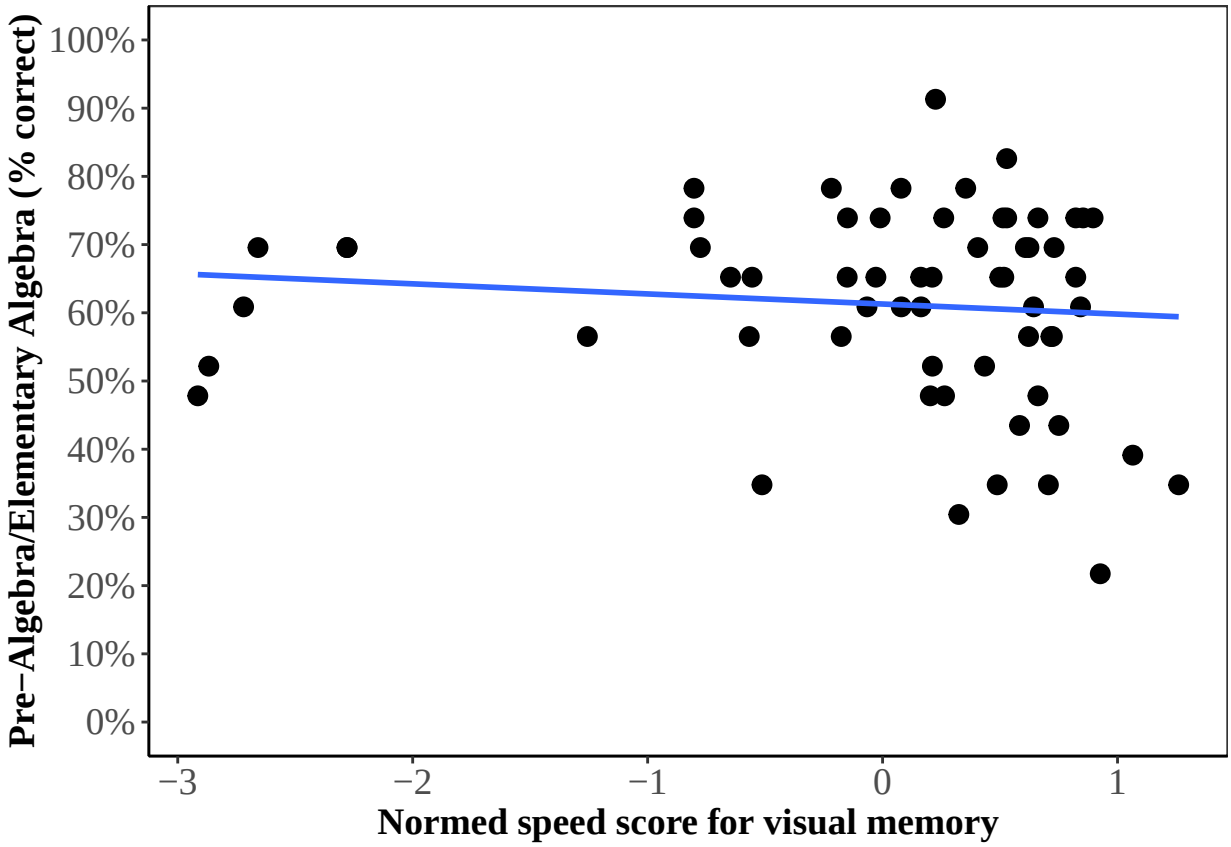

```
##
##  Pearson's product-moment correlation
##
## data:  EA_DF$ATT_Sz and EA_DF$EAscore
## t = 1.1513, df = 59, p-value = 0.2542
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.1076046  0.3856577
## sample estimates:
##       cor
## 0.1482328
```

Visual memory accuracy



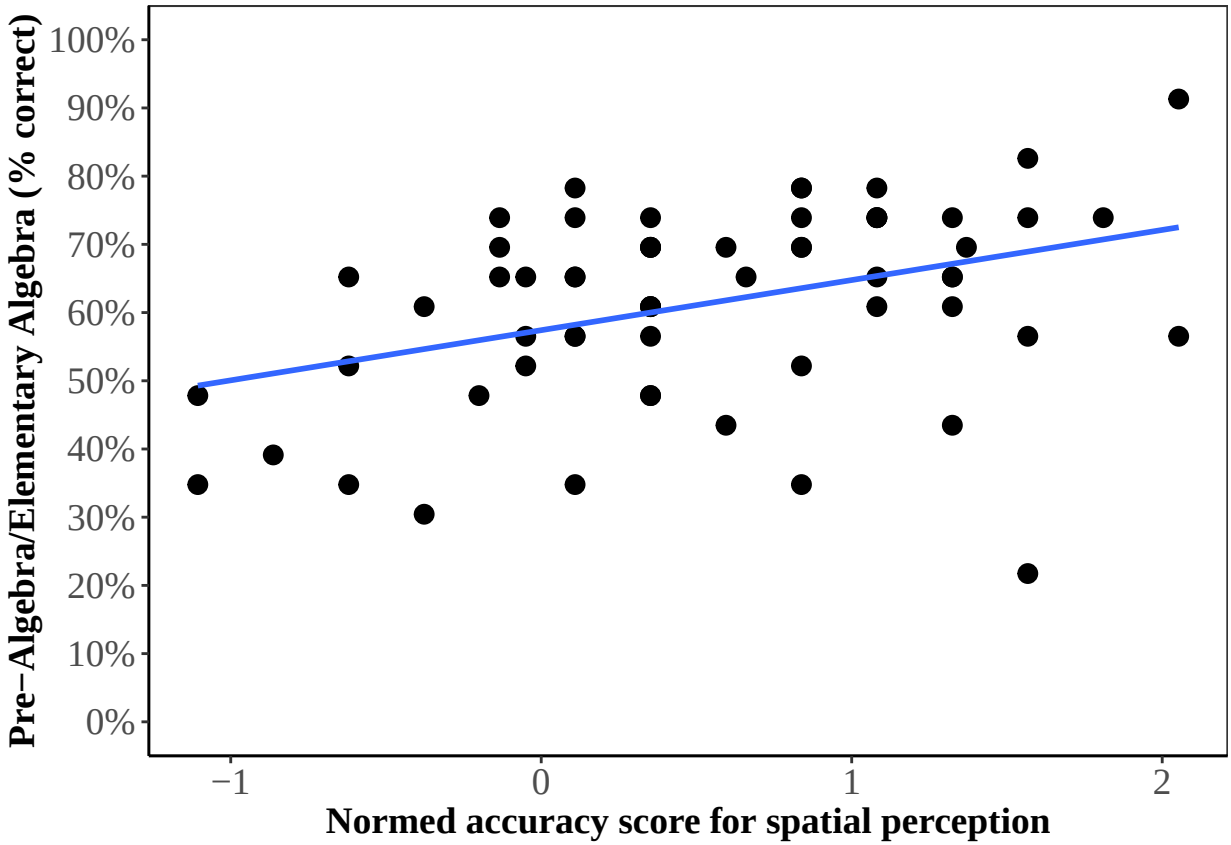

```
##
##  Pearson's product-moment correlation
##
## data:  EA_DF$SMEM_Az and EA_DF$EAscore
## t = 1.7966, df = 59, p-value = 0.07752
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.02553571  0.45355782
## sample estimates:
##       cor
## 0.2277496
```

Visual memory speed



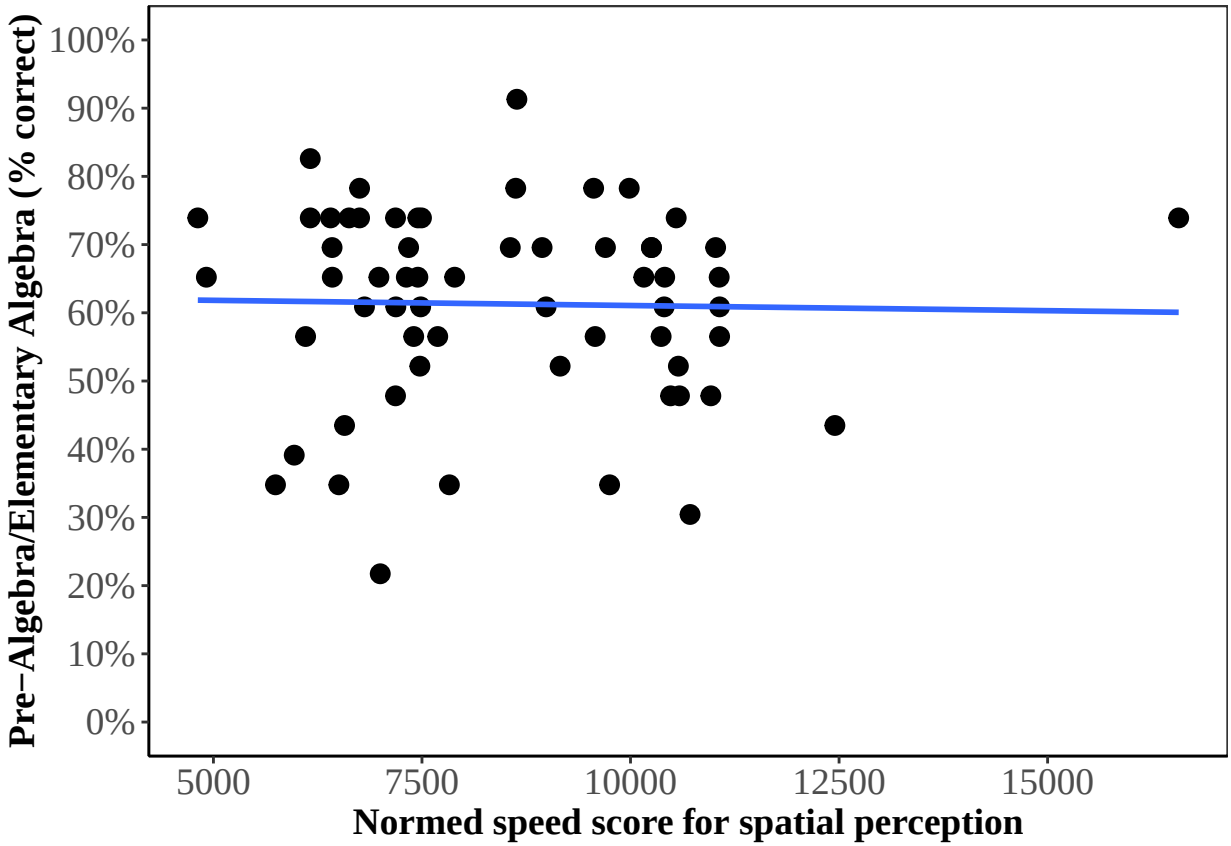

```
##
##  Pearson's product-moment correlation
##
## data:  EA_DF$SMEM_Sz and EA_DF$EAscore
## t = -0.80719, df = 59, p-value = 0.4228
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.3471943  0.1512914
## sample estimates:
##        cor
## -0.1045111
```

Spatial perception accuracy ($p < 0.001$)




```
##
##  Pearson's product-moment correlation
##
## data:  EA_DF$SPA_Az and EA_DF$EAscore
## t = 3.2251, df = 59, p-value = 0.002055
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  0.1499307 0.5821980
## sample estimates:
##       cor
## 0.3871349
```

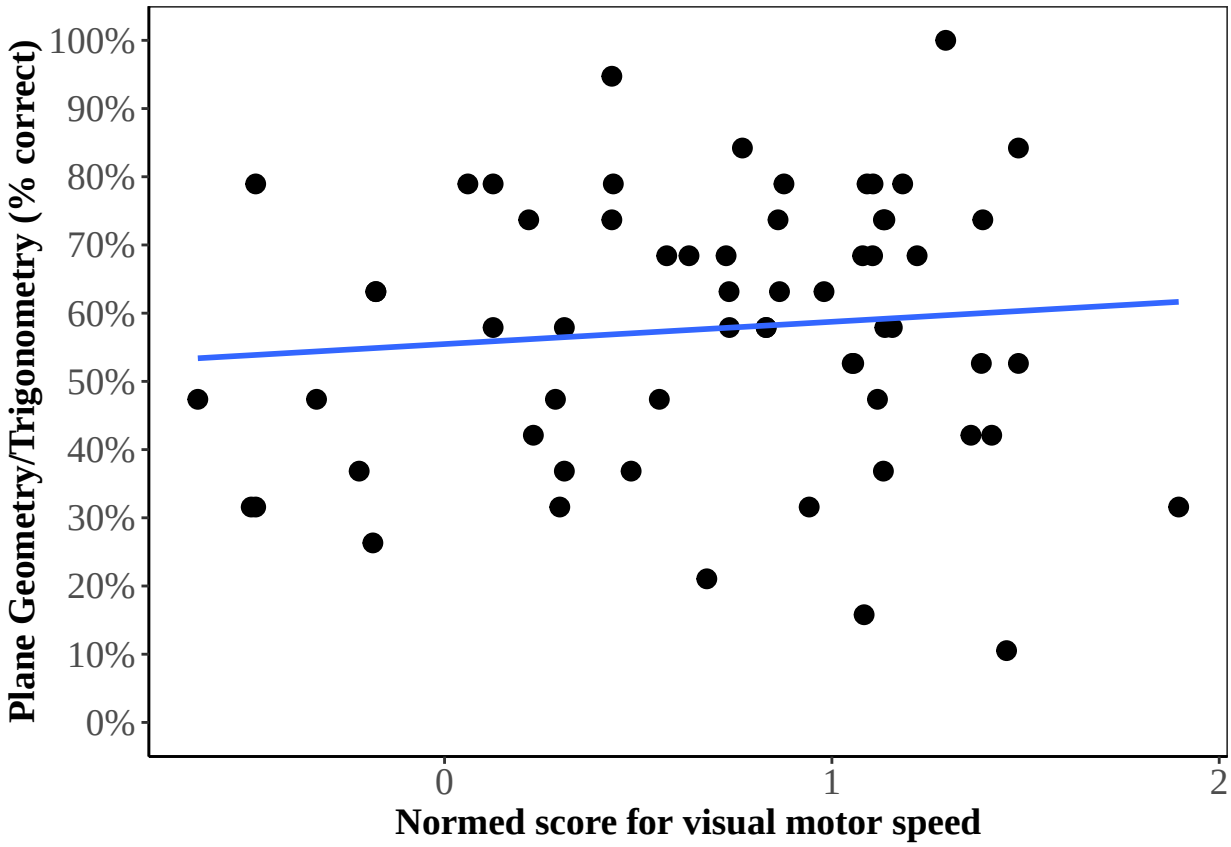
Spatial perception speed




```
##
##  Pearson's product-moment correlation
##
## data:  EA_DF$SPA_Sz and EA_DF$EAscore
## t = -0.17362, df = 59, p-value = 0.8628
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.2728660  0.2305346
## sample estimates:
##         cor
## -0.02259802
```

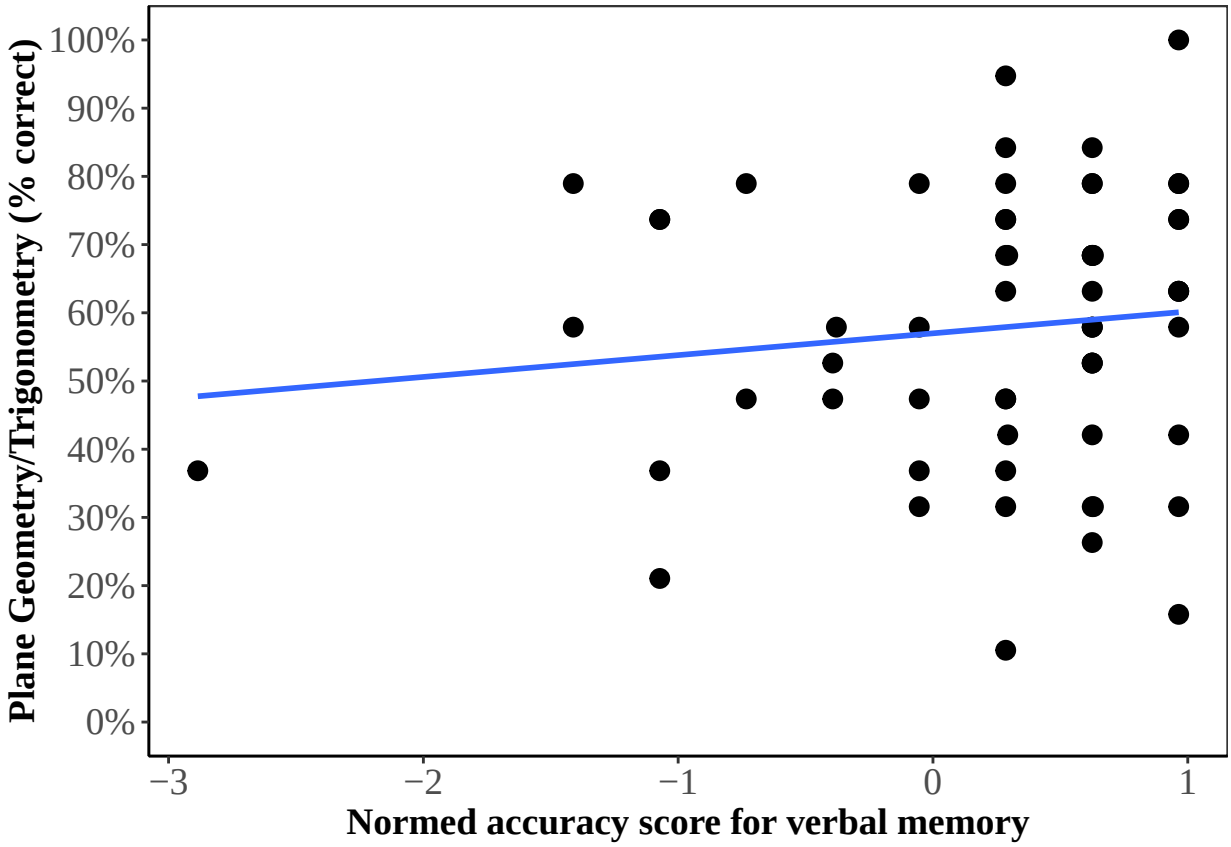
GT/ Plane Geometry/Trigonometry Subsection

Visual motor speed



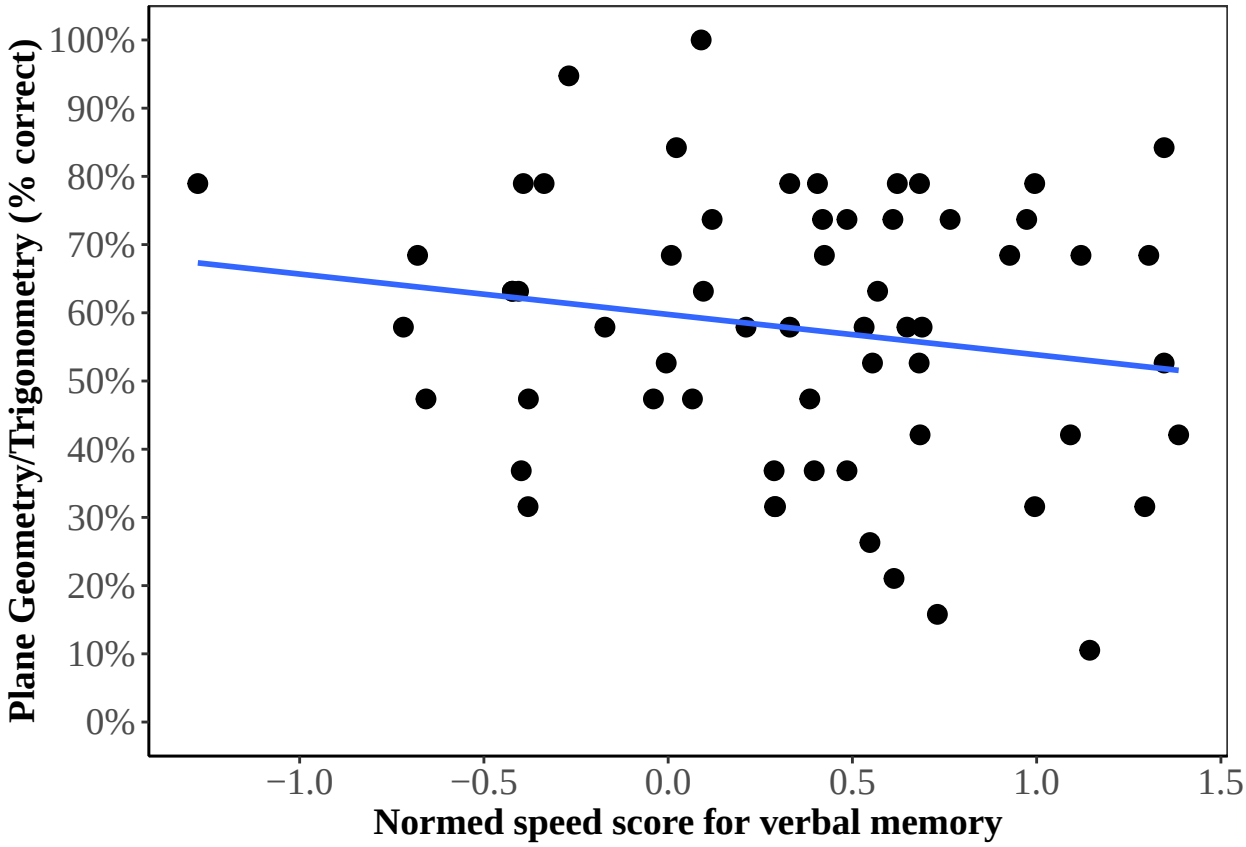

```
##
##  Pearson's product-moment correlation
##
## data:  GT_DF$SM_Sz and GT_DF$GTscore
## t = 0.75753, df = 59, p-value = 0.4517
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.1575686  0.3415263
## sample estimates:
##       cor
## 0.09814646
```

Verbal memory accuracy



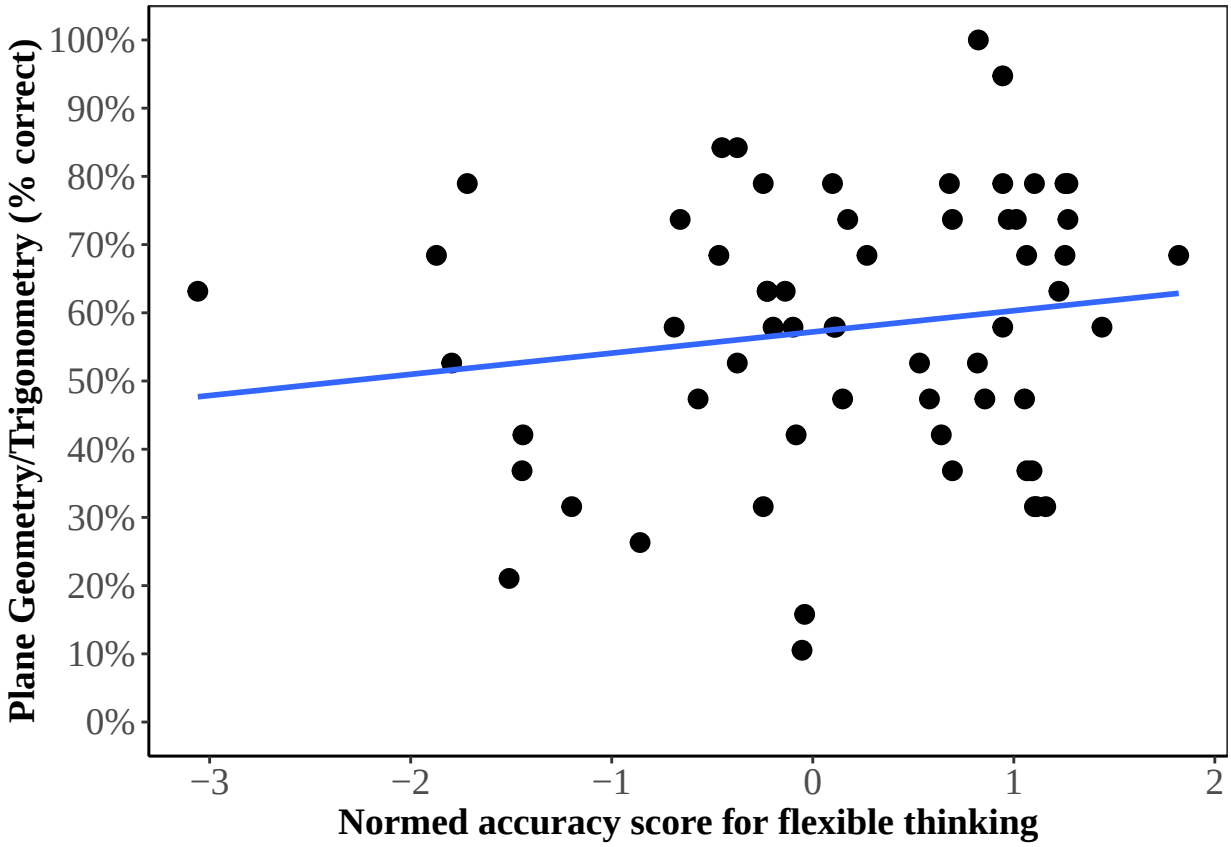

```
##
##  Pearson's product-moment correlation
##
## data:  GT_DF$VMEM_Az and GT_DF$GTscore
## t = 0.95245, df = 59, p-value = 0.3448
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.1328824  0.3636093
## sample estimates:
##       cor
## 0.1230561
```

Verbal memory speed



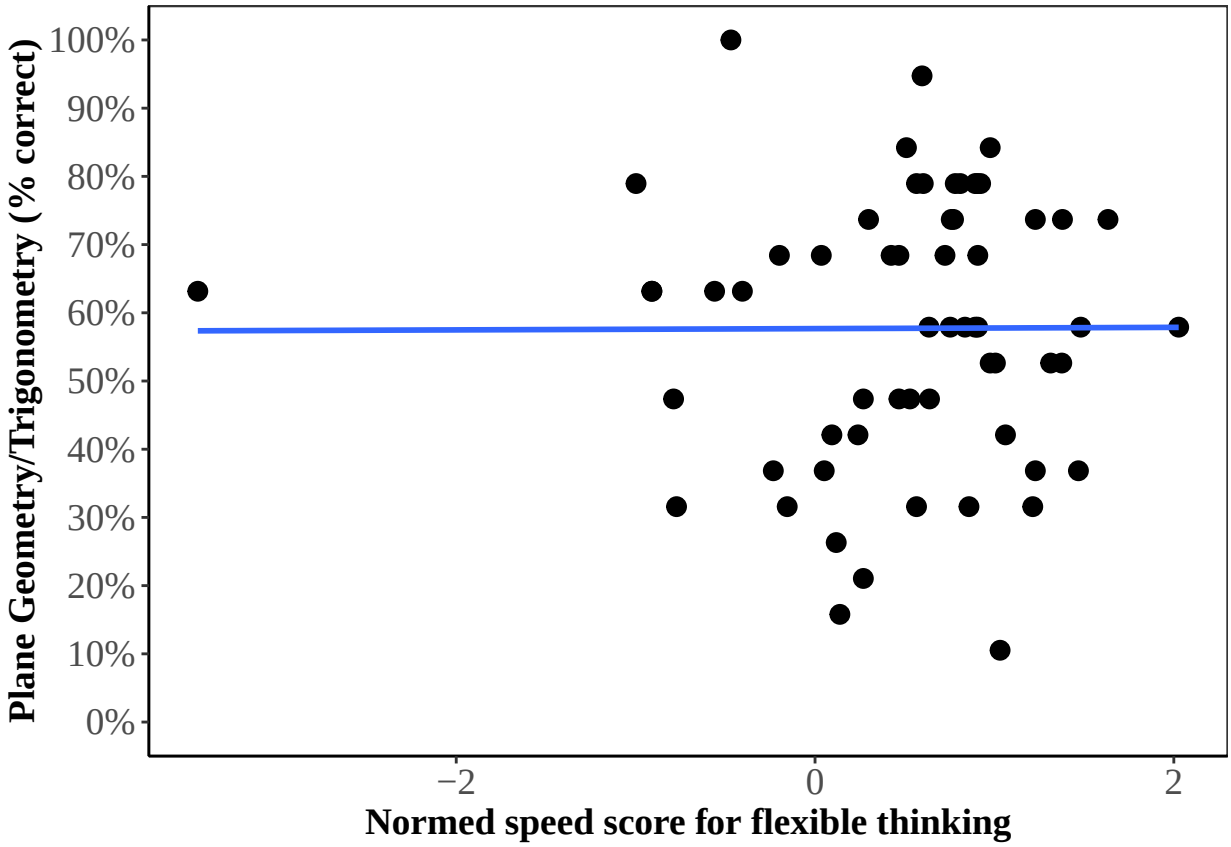

```
##
##  Pearson's product-moment correlation
##
## data:  GT_DF$VMEM_Sz and GT_DF$GTscore
## t = -1.3915, df = 59, p-value = 0.1693
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.4116015  0.0770211
## sample estimates:
##       cor
## -0.178257
```

Flexible thinking accuracy



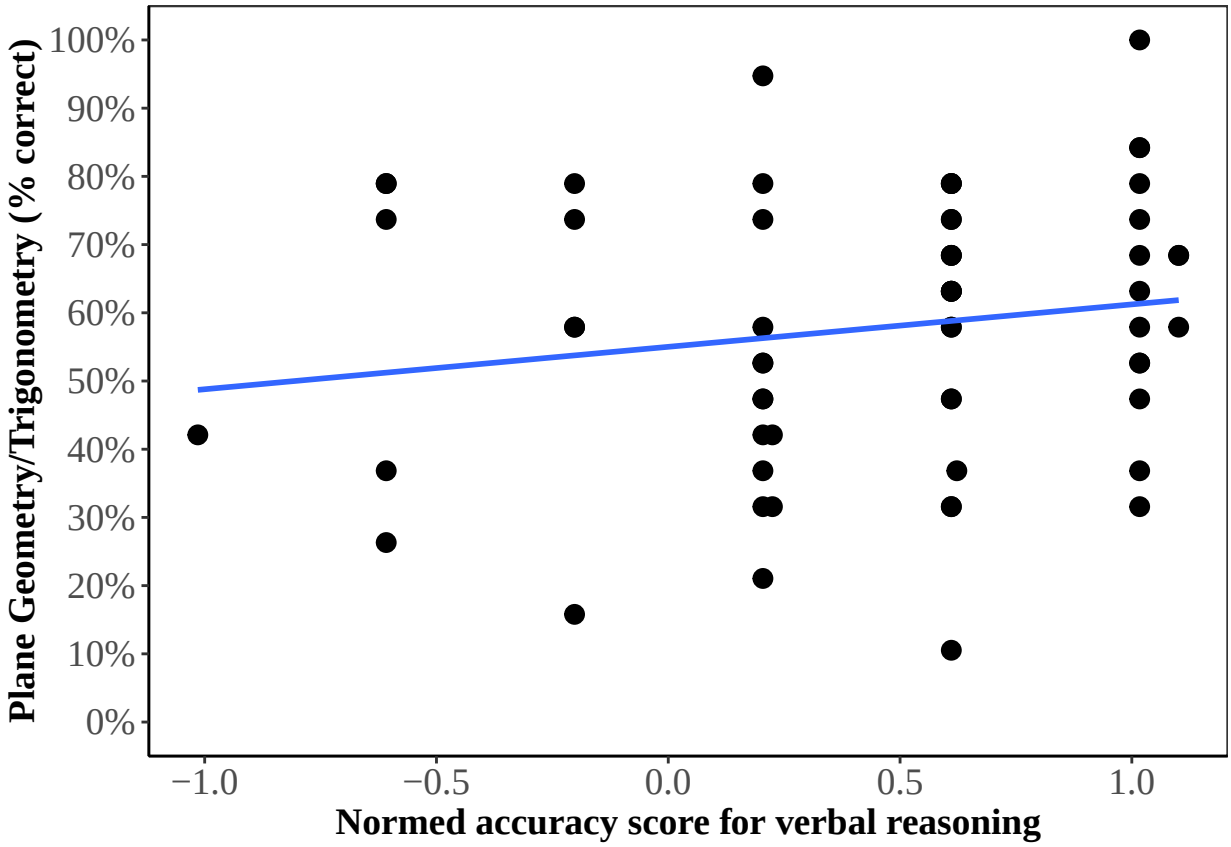

```
##
##  Pearson's product-moment correlation
##
## data:  GT_DF$ABF_Az and GT_DF$GTscore
## t = 1.2289, df = 59, p-value = 0.224
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.09772863  0.39412155
## sample estimates:
##     cor
## 0.15798
```

Flexible thinking speed



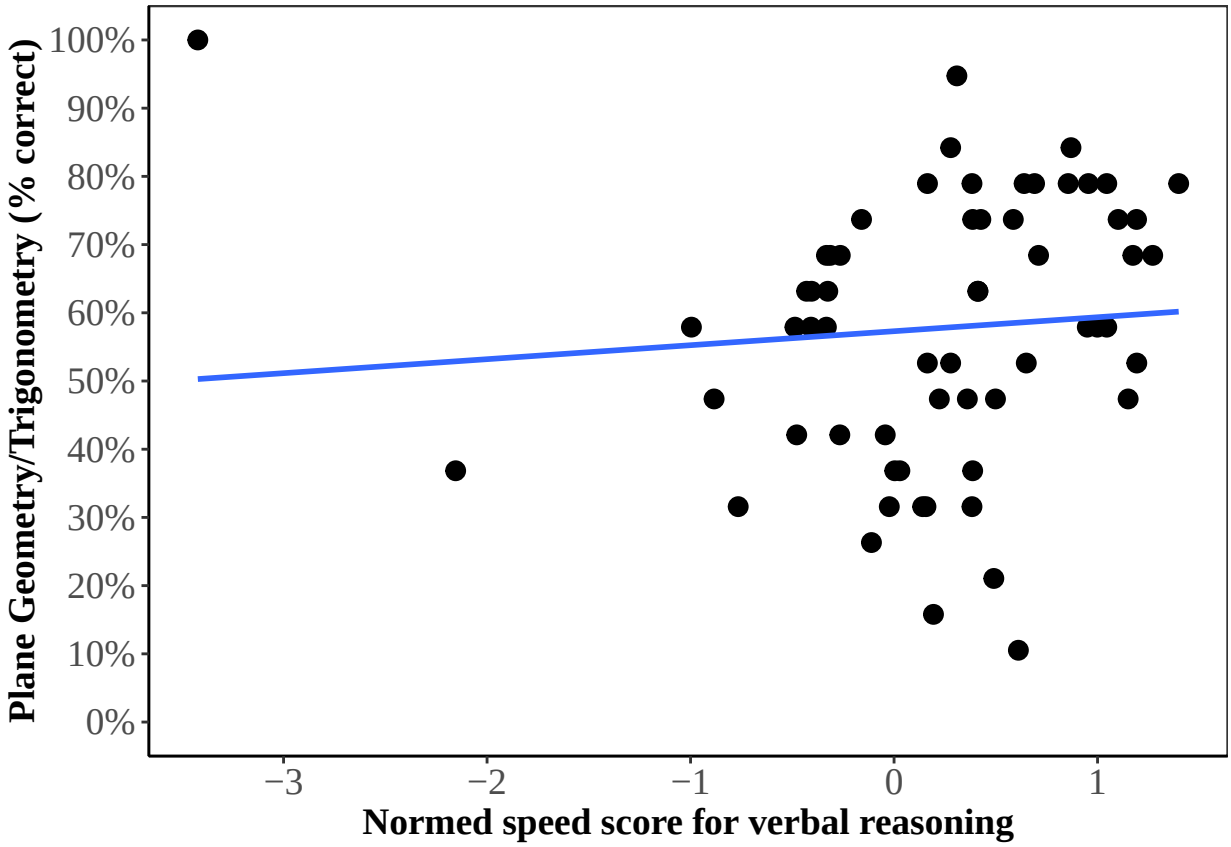

```
##
##  Pearson's product-moment correlation
##
## data:  GT_DF$ABF_Sz and GT_DF$GTscore
## t = 0.030503, df = 59, p-value = 0.9758
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.2480977  0.2555363
## sample estimates:
##         cor
## 0.003971088
```

Verbal reasoning accuracy



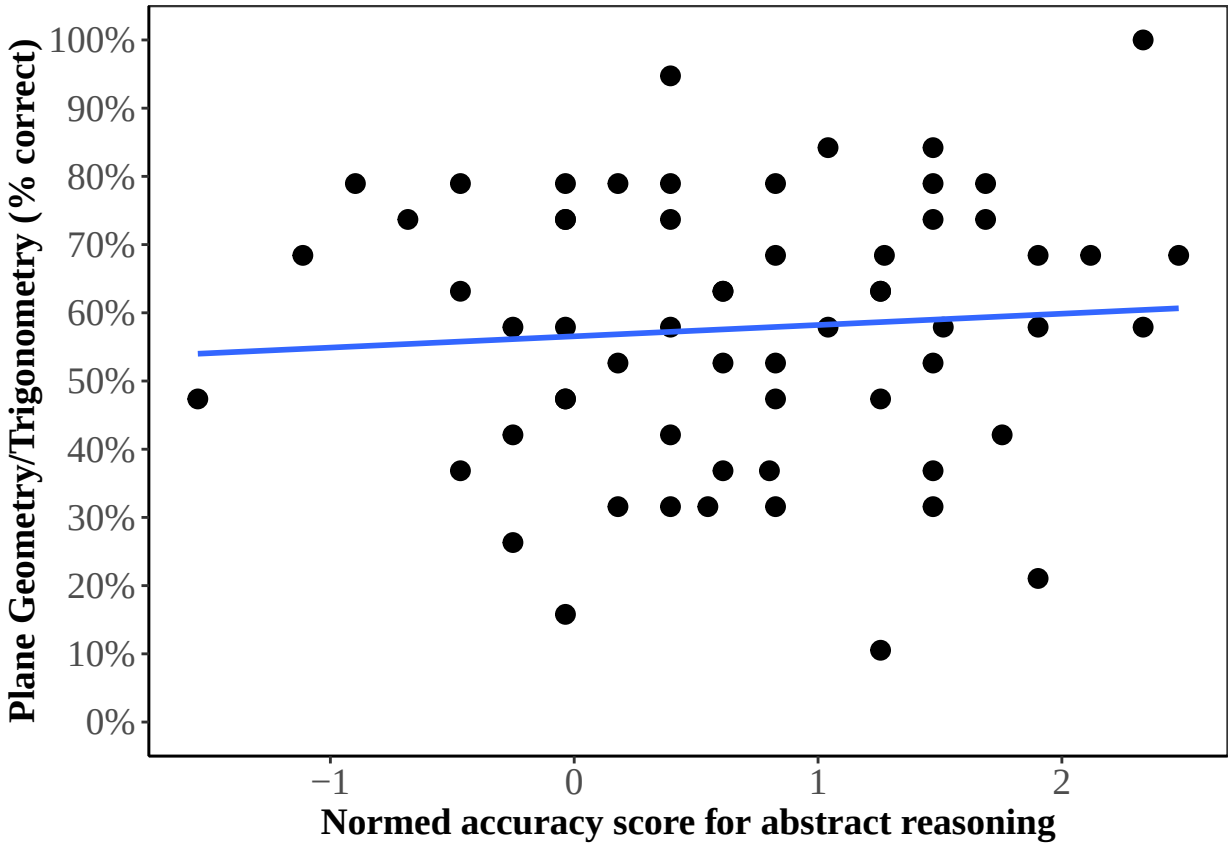

```
##
##  Pearson's product-moment correlation
##
## data:  GT_DF$LAN_Az and GT_DF$GTscore
## t = 1.2934, df = 59, p-value = 0.2009
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.08951866  0.40109470
## sample estimates:
##       cor
## 0.1660452
```

Verbal reasoning speed



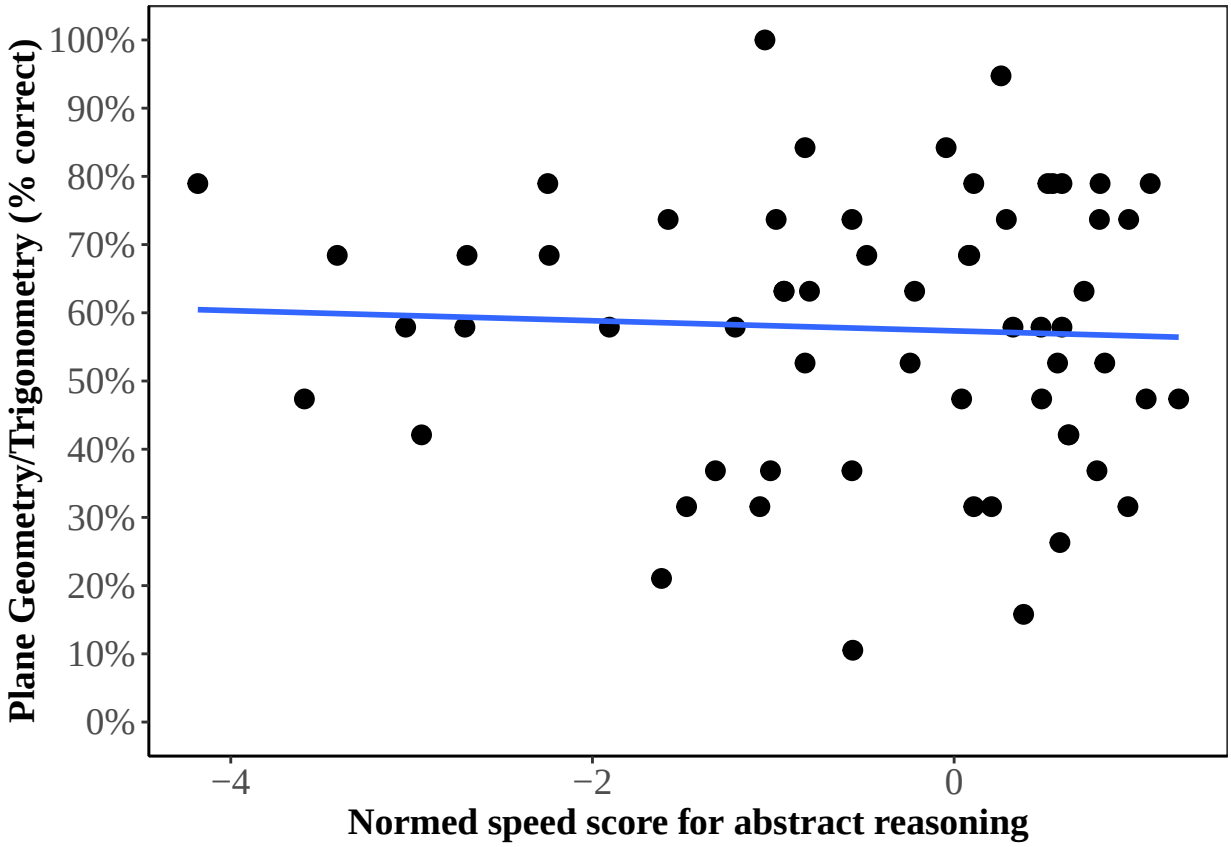

```
##
##  Pearson's product-moment correlation
##
## data:  GT_DF$LAN_Sz and GT_DF$GTscore
## t = 0.64725, df = 59, p-value = 0.52
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.1714792  0.3288350
## sample estimates:
##       cor
## 0.08396738
```

Abstract reasoning accuracy



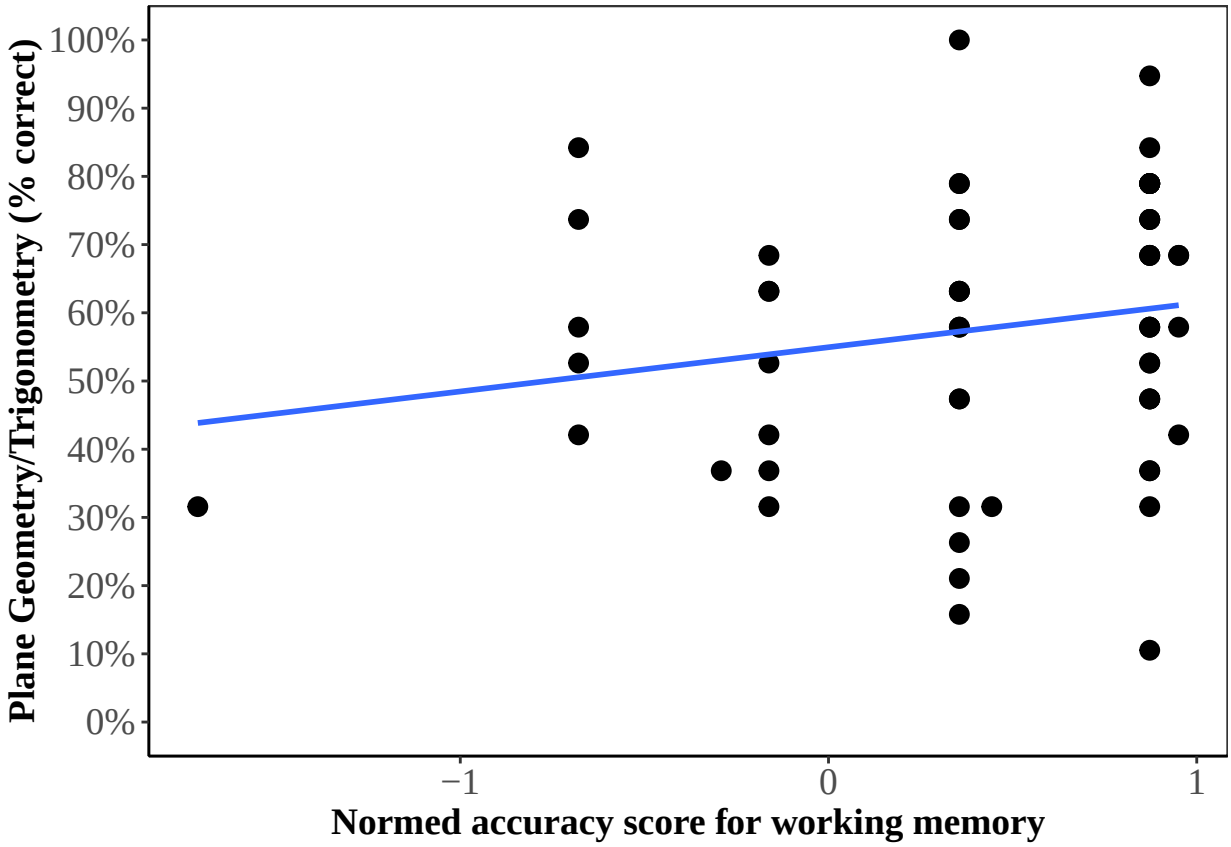

```
##
##  Pearson's product-moment correlation
##
## data:  GT_DF$NVR_Az and GT_DF$GTscore
## t = 0.58306, df = 59, p-value = 0.5621
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.1795533  0.3213849
## sample estimates:
##       cor
## 0.07568981
```

Abstract reasoning speed




```
##
##  Pearson's product-moment correlation
##
## data:  GT_DF$NVR_Sz and GT_DF$GTscore
## t = -0.38334, df = 59, p-value = 0.7028
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.2979256  0.2045438
## sample estimates:
##         cor
## -0.04984439
```

Working memory accuracy



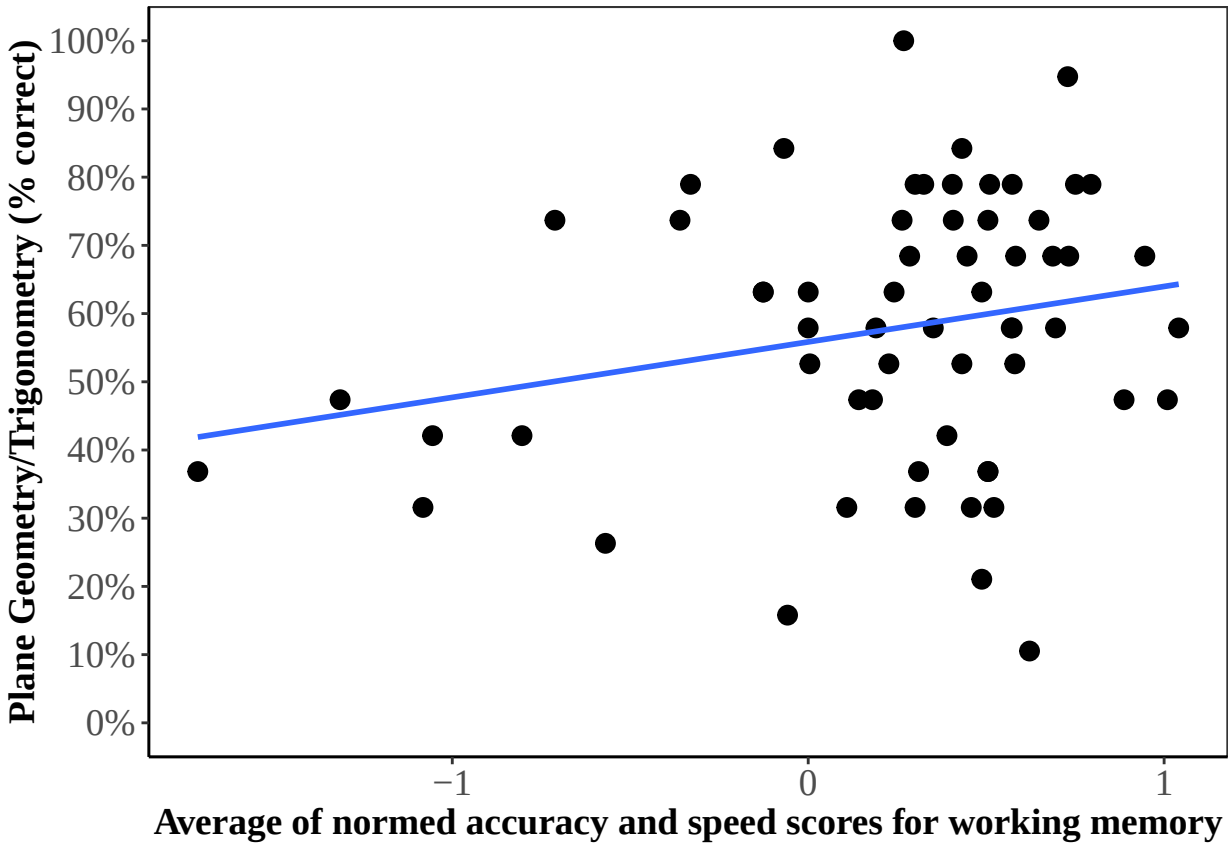

```
##
##  Pearson's product-moment correlation
##
## data:  GT_DF$WM_Az and GT_DF$GTscore
## t = 1.4824, df = 59, p-value = 0.1436
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.0654518  0.4212134
## sample estimates:
##       cor
## 0.1894922
```

Working memory speed


```
##
##  Pearson's product-moment correlation
##
## data:  GT_DF$WM_Sz and GT_DF$GTscore
## t = 1.2177, df = 59, p-value = 0.2282
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.09915101  0.39290767
## sample estimates:
##       cor
## 0.1565792
```

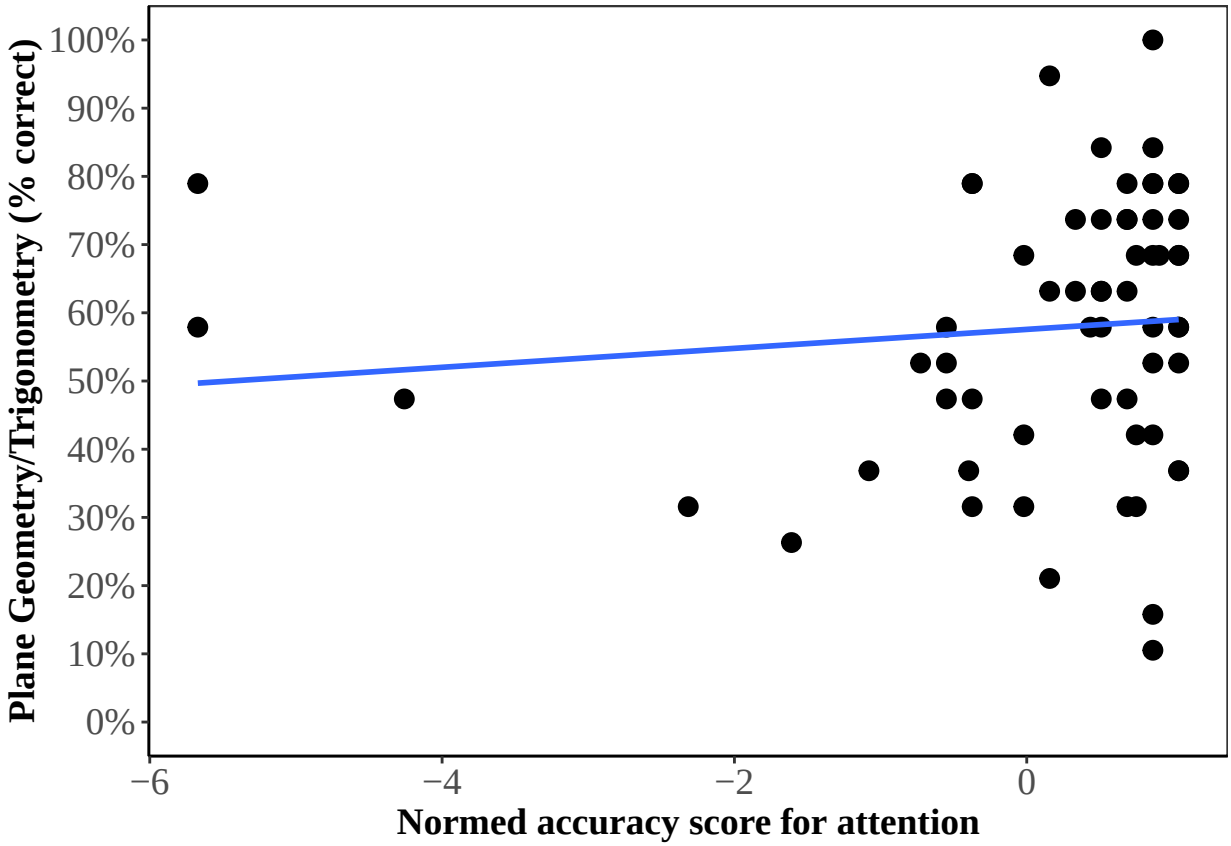
Working memory efficiency (p = 0.07)

Average of normed accuracy and speed scores for working memory.



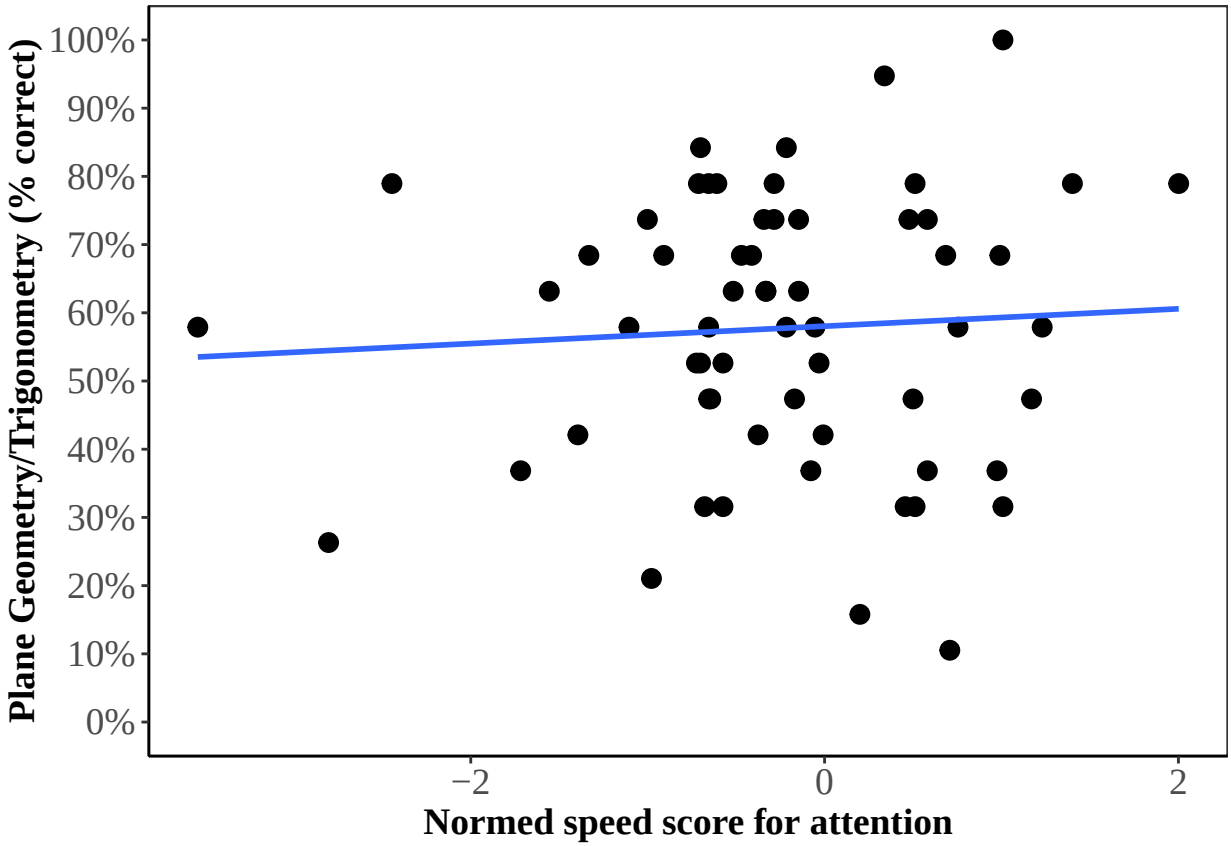

```
##
##  Pearson's product-moment correlation
##
## data:  GT_DF$WM_EFFICIENCY and GT_DF$GTscore
## t = 1.8259, df = 59, p-value = 0.07293
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.02182318  0.45650331
## sample estimates:
##       cor
## 0.2312685
```

Attention accuracy



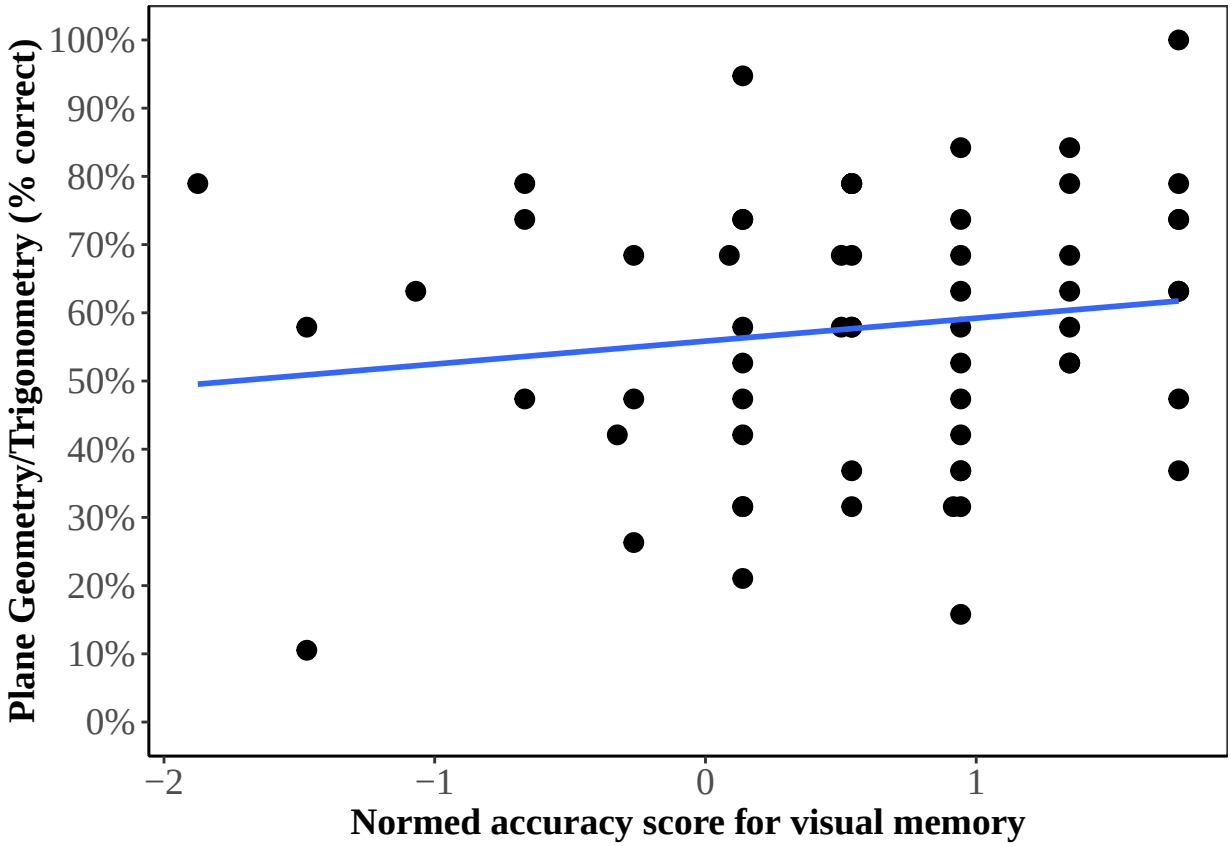

```
##
##  Pearson's product-moment correlation
##
## data:  GT_DF$ATT_Az and GT_DF$GTscore
## t = 0.76631, df = 59, p-value = 0.4465
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.1564595  0.3425304
## sample estimates:
##       cor
## 0.09927255
```

Attention speed



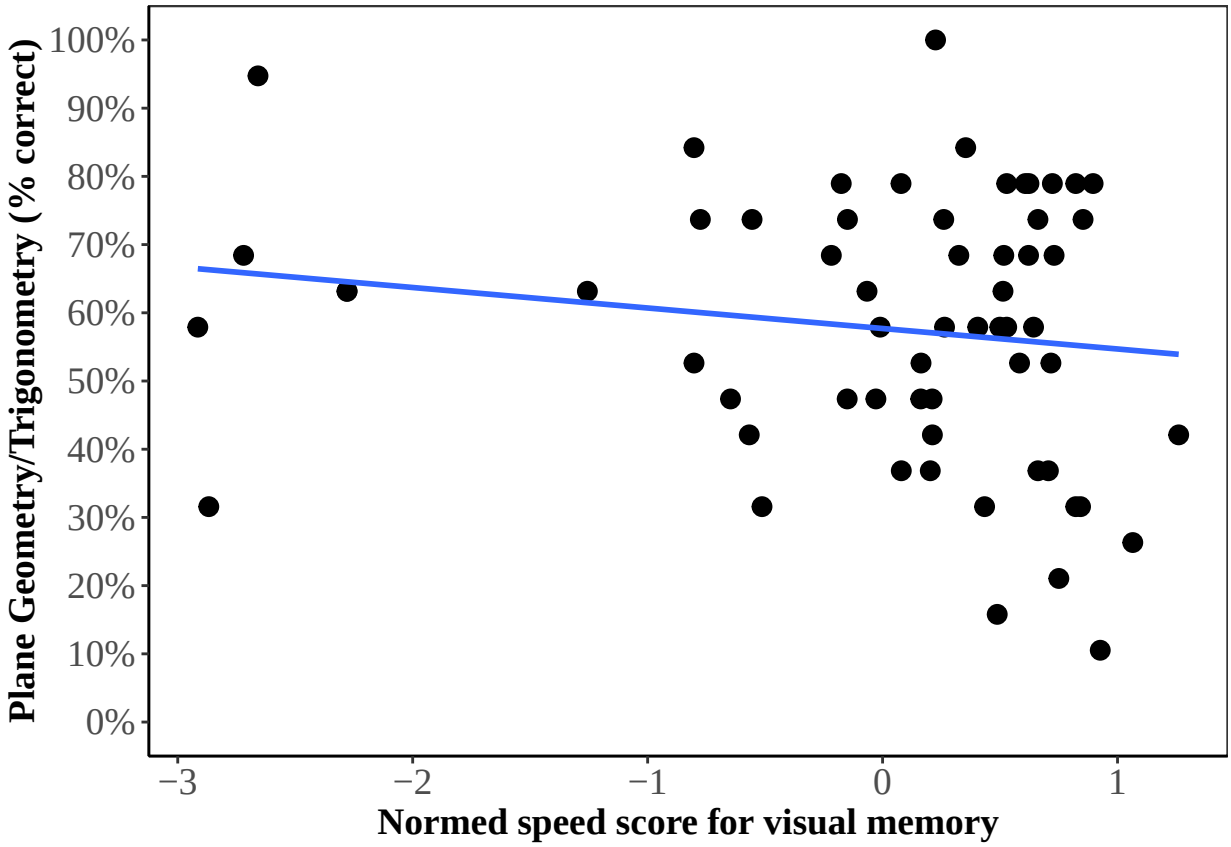

```
##
##  Pearson's product-moment correlation
##
## data:  GT_DF$ATT_Sz and GT_DF$GTscore
## t = 0.49213, df = 59, p-value = 0.6245
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.1909563  0.3107562
## sample estimates:
##       cor
## 0.06393905
```

Visual memory accuracy



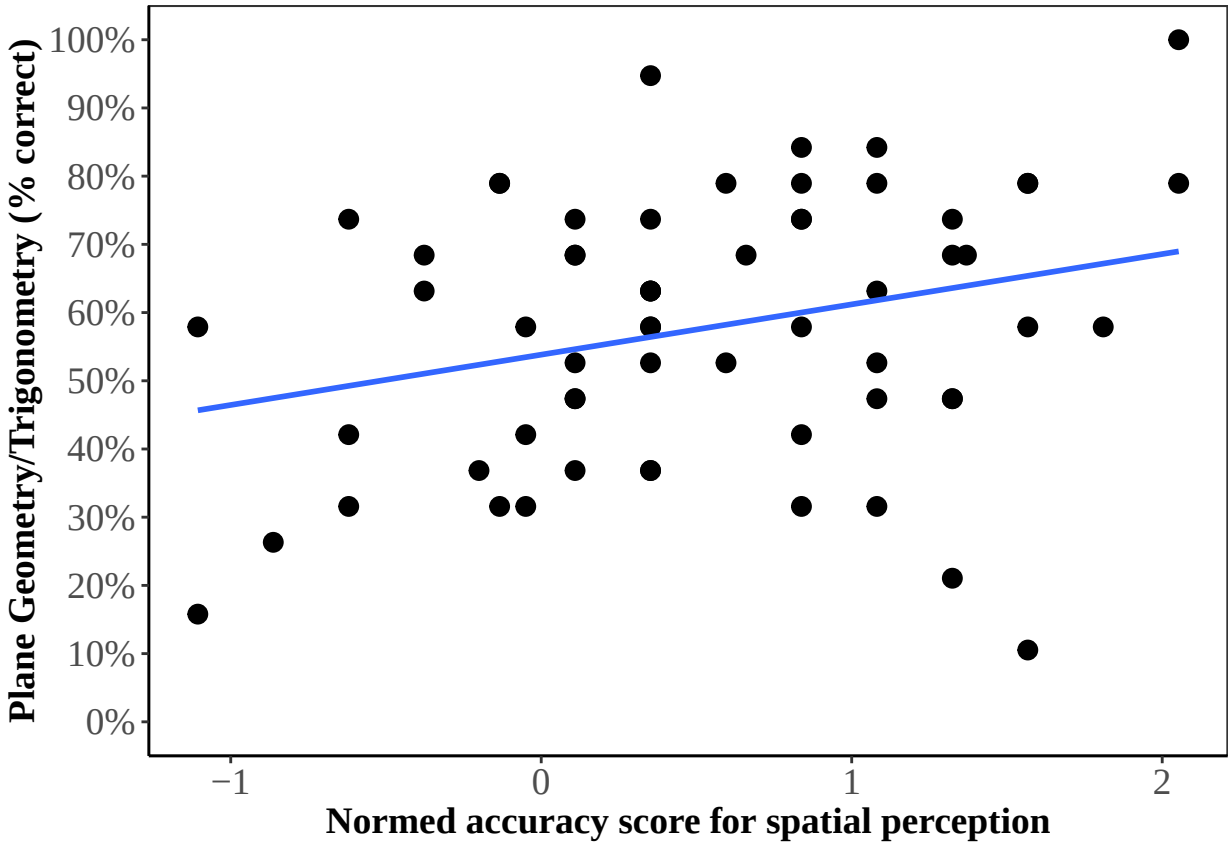

```
##
##  Pearson's product-moment correlation
##
## data:  GT_DF$SMEM_Az and GT_DF$GTscore
## t = 1.13, df = 59, p-value = 0.2631
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.1103215  0.3833146
## sample estimates:
##       cor
## 0.1455426
```

Visual memory speed



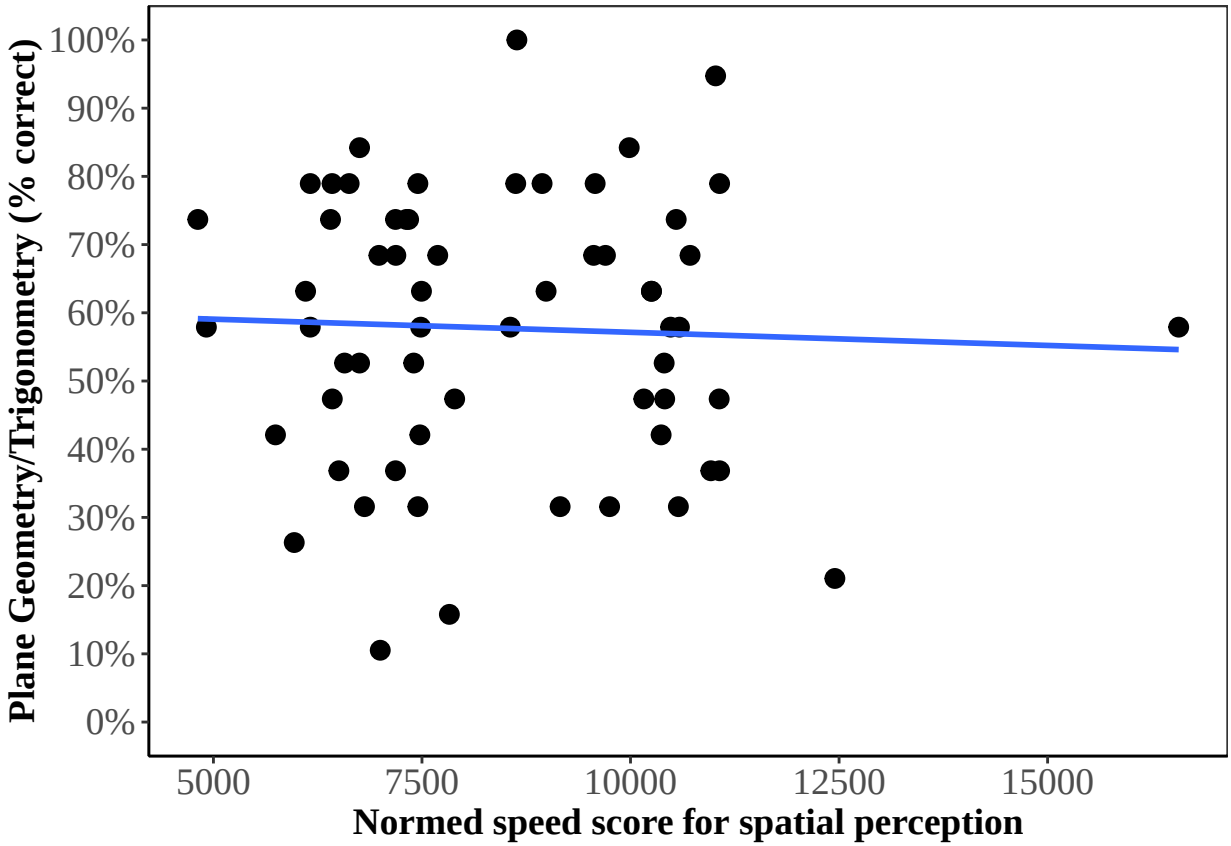

```
##
##  Pearson's product-moment correlation
##
## data:  GT_DF$SMEM_Sz and GT_DF$GTscore
## t = -1.1993, df = 59, p-value = 0.2352
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.3909003  0.1014987
## sample estimates:
##       cor
## -0.154265
```

Spatial perception accuracy ($p < 0.05$)




```
##
##  Pearson's product-moment correlation
##
## data:  GT_DF$SPA_Az and GT_DF$GTscore
## t = 2.2615, df = 59, p-value = 0.02743
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  0.03296079 0.49878278
## sample estimates:
##       cor
## 0.2824372
```

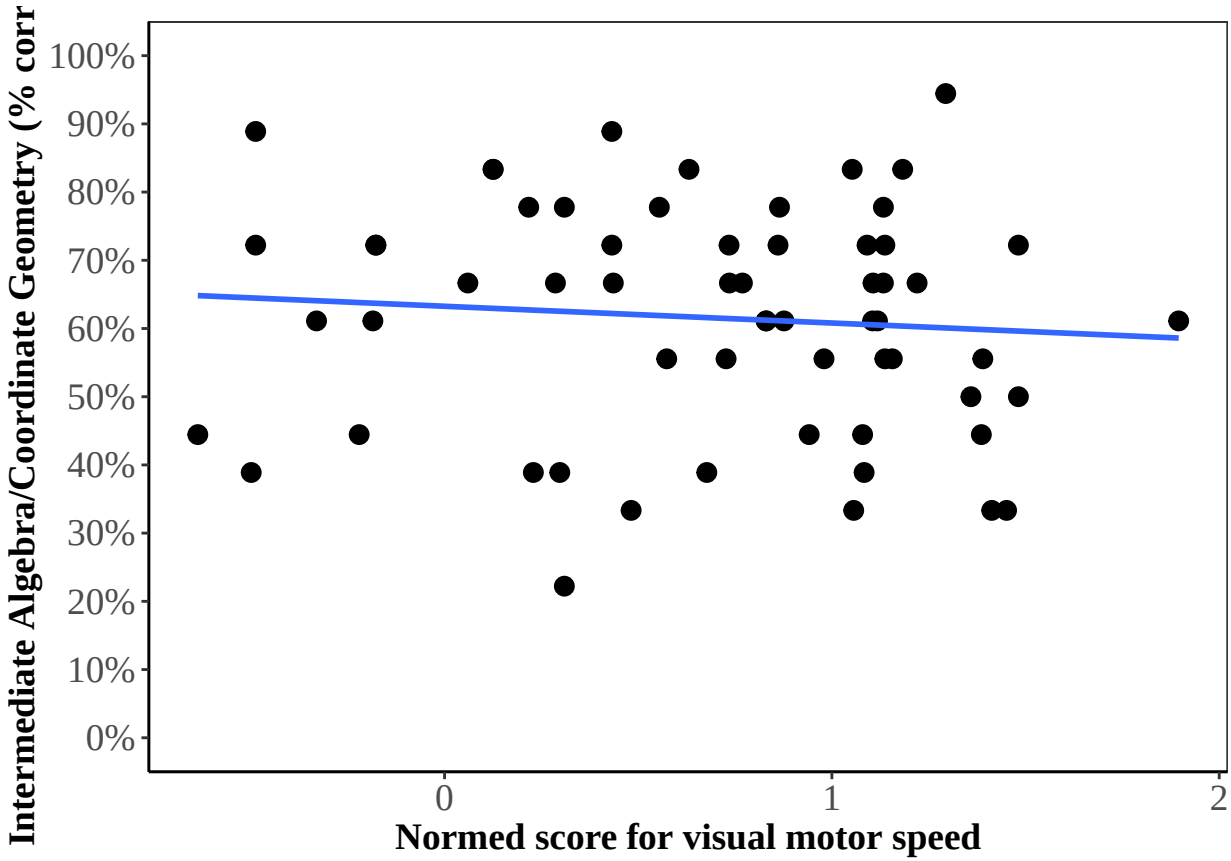
Spatial perception speed




```
##
##  Pearson's product-moment correlation
##
## data:  GT_DF$SPA_Sz and GT_DF$GTscore
## t = -0.32039, df = 59, p-value = 0.7498
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.2904475  0.2123746
## sample estimates:
##        cor
## -0.0416749
```

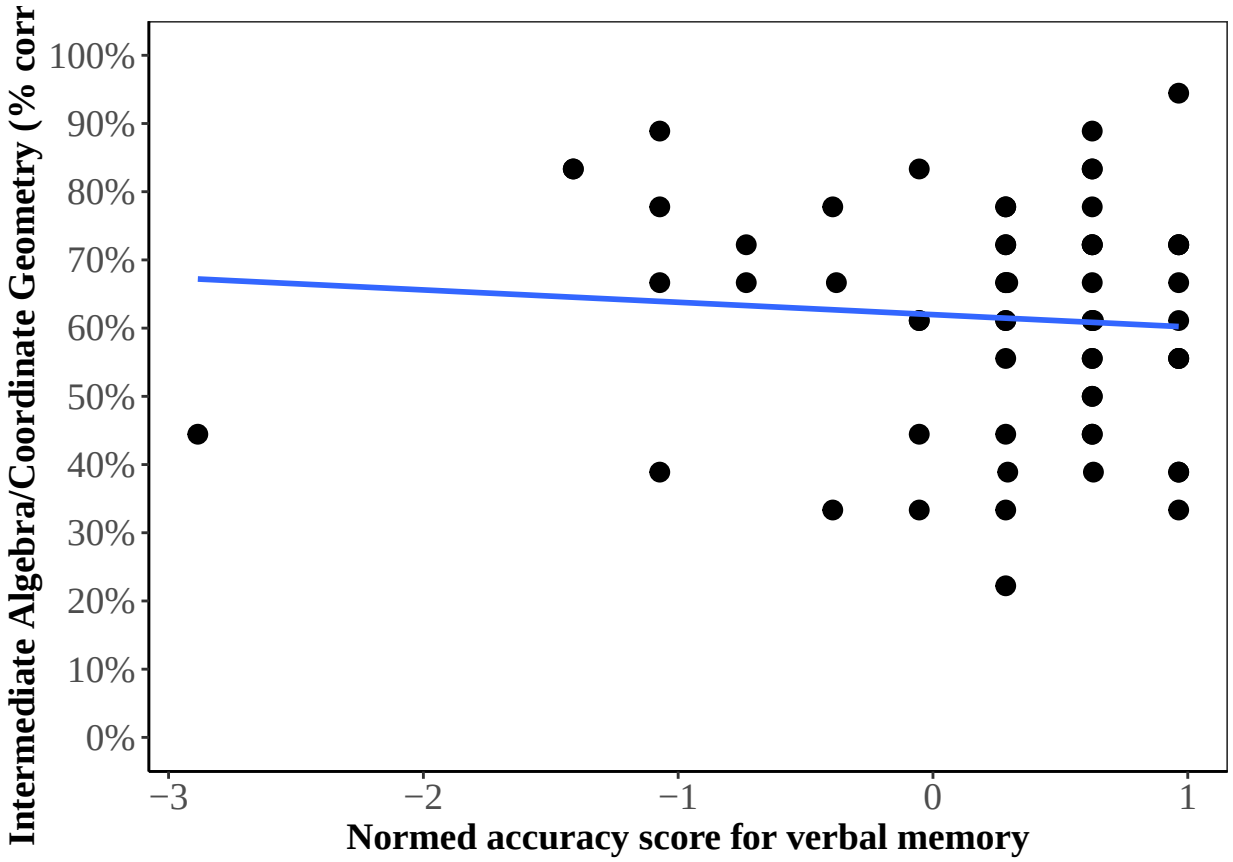
AG/ Intermediate Algebra/Coordinate Geometry Subsection

Visual motor speed



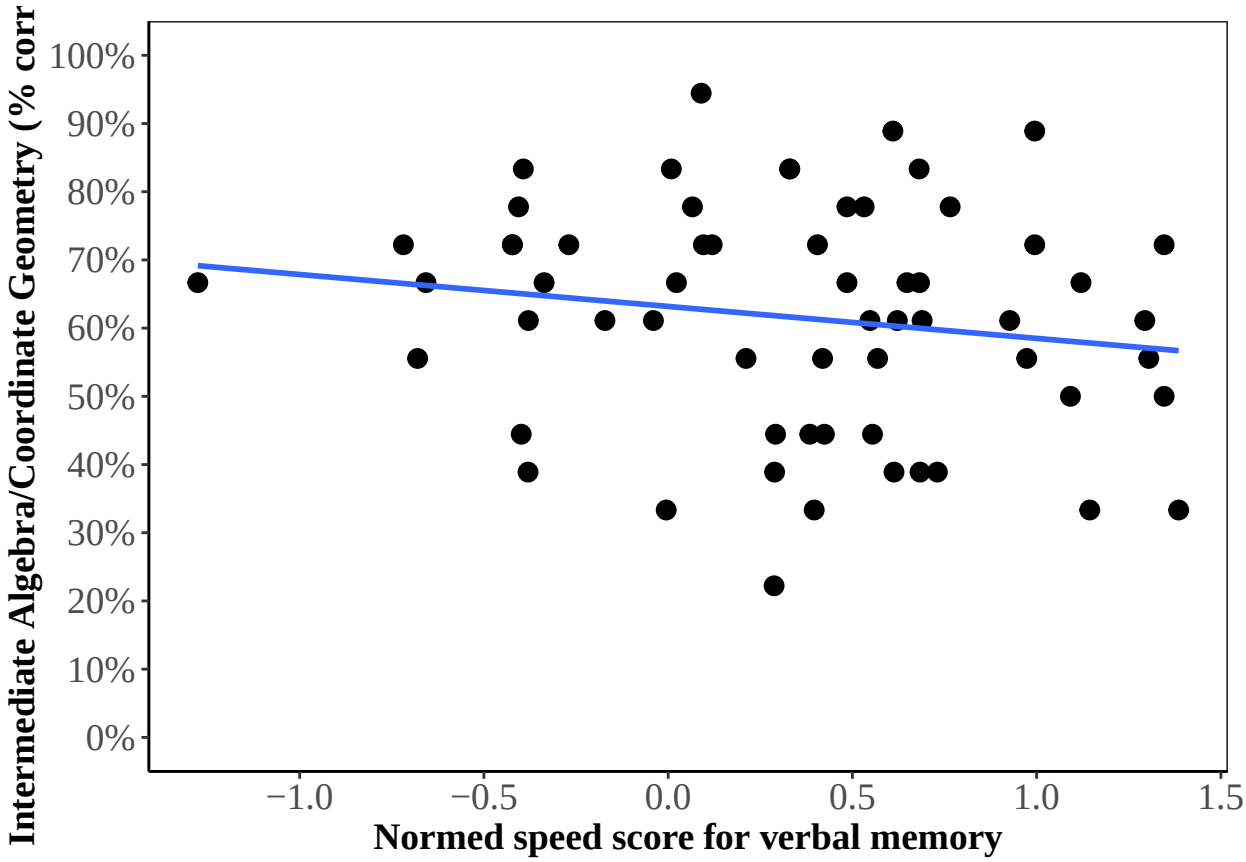

```
##
##  Pearson's product-moment correlation
##
## data:  AG_DF$SM_Sz and AG_DF$AGscore
## t = -0.67276, df = 59, p-value = 0.5037
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.3317824  0.1682664
## sample estimates:
##         cor
## -0.08725146
```

Verbal memory accuracy



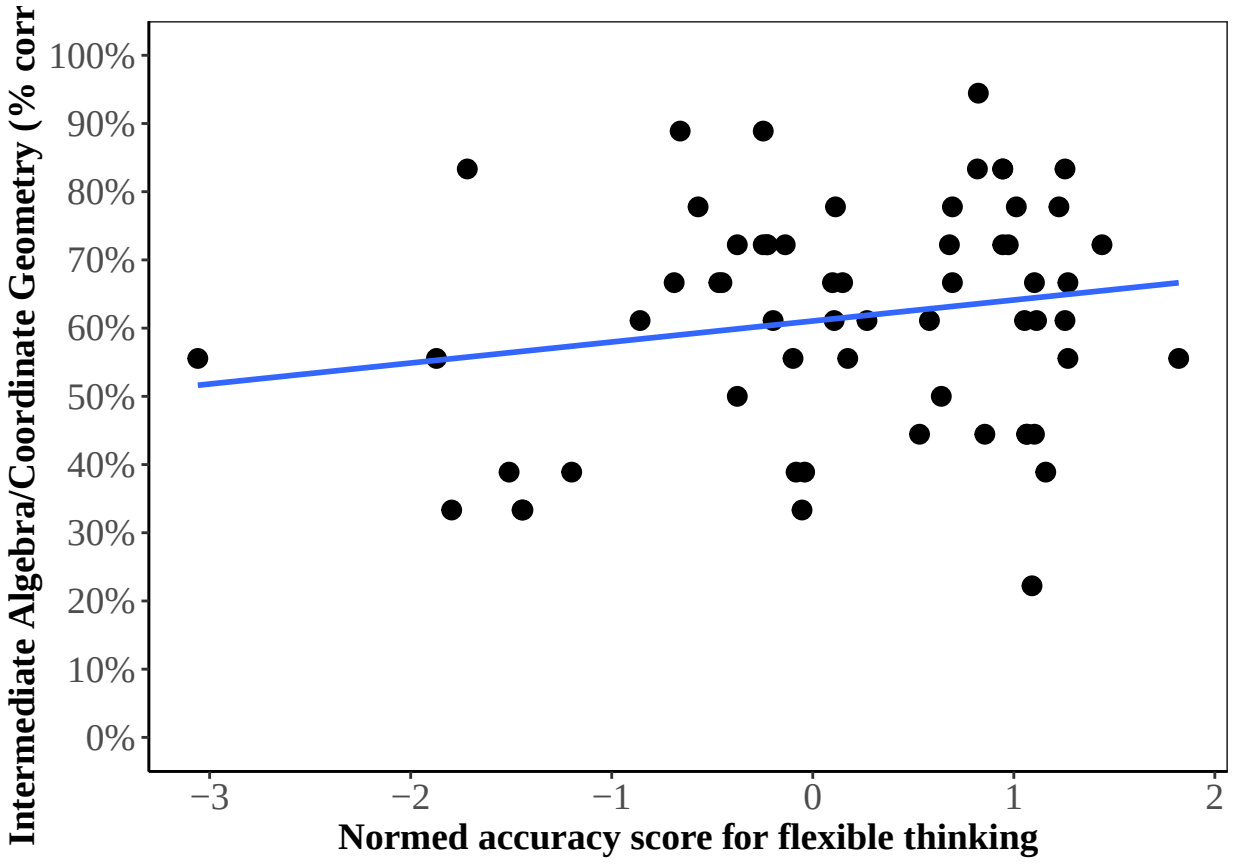

```
##
##  Pearson's product-moment correlation
##
## data:  AG_DF$VMEM_Az and AG_DF$AGscore
## t = -0.63418, df = 59, p-value = 0.5284
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.3273215  0.1731250
## sample estimates:
##         cor
## -0.08228301
```

Verbal memory speed



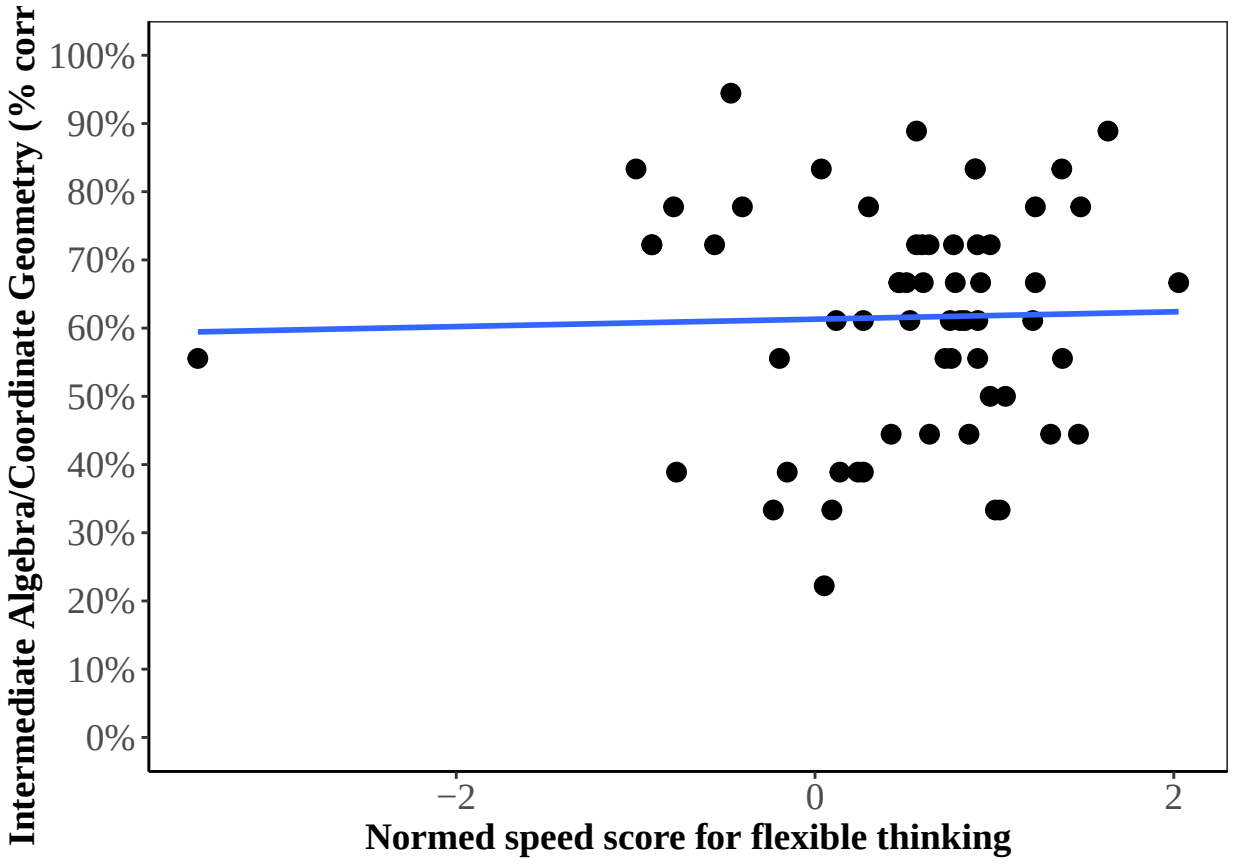

```
##
##  Pearson's product-moment correlation
##
## data:  AG_DF$VMEM_Sz and AG_DF$AGscore
## t = -1.2978, df = 59, p-value = 0.1994
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.40156962  0.08895706
## sample estimates:
##       cor
## -0.1665956
```

Flexible thinking accuracy



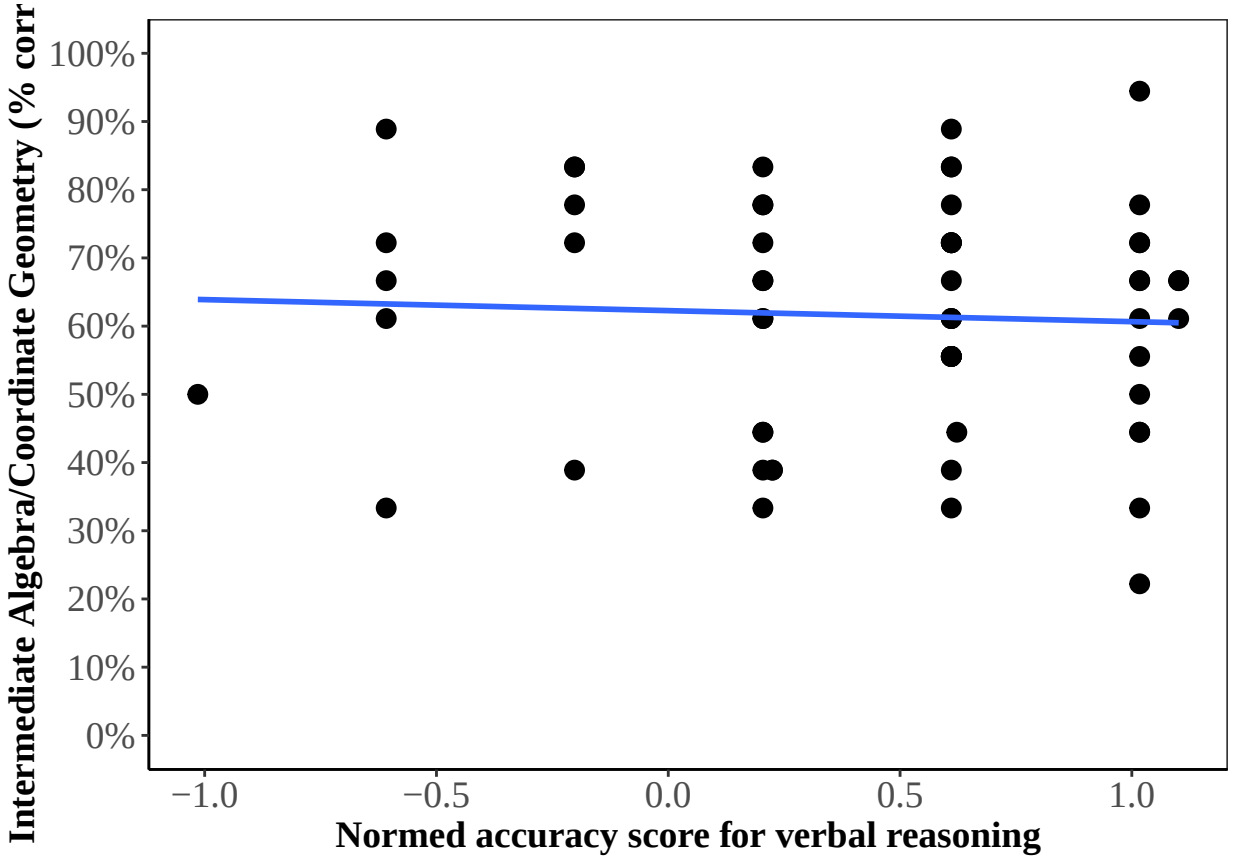

```
##
##  Pearson's product-moment correlation
##
## data:  AG_DF$ABF_Az and AG_DF$AGscore
## t = 1.4449, df = 59, p-value = 0.1538
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.07022327  0.41726241
## sample estimates:
##       cor
## 0.1848666
```

Flexible thinking speed



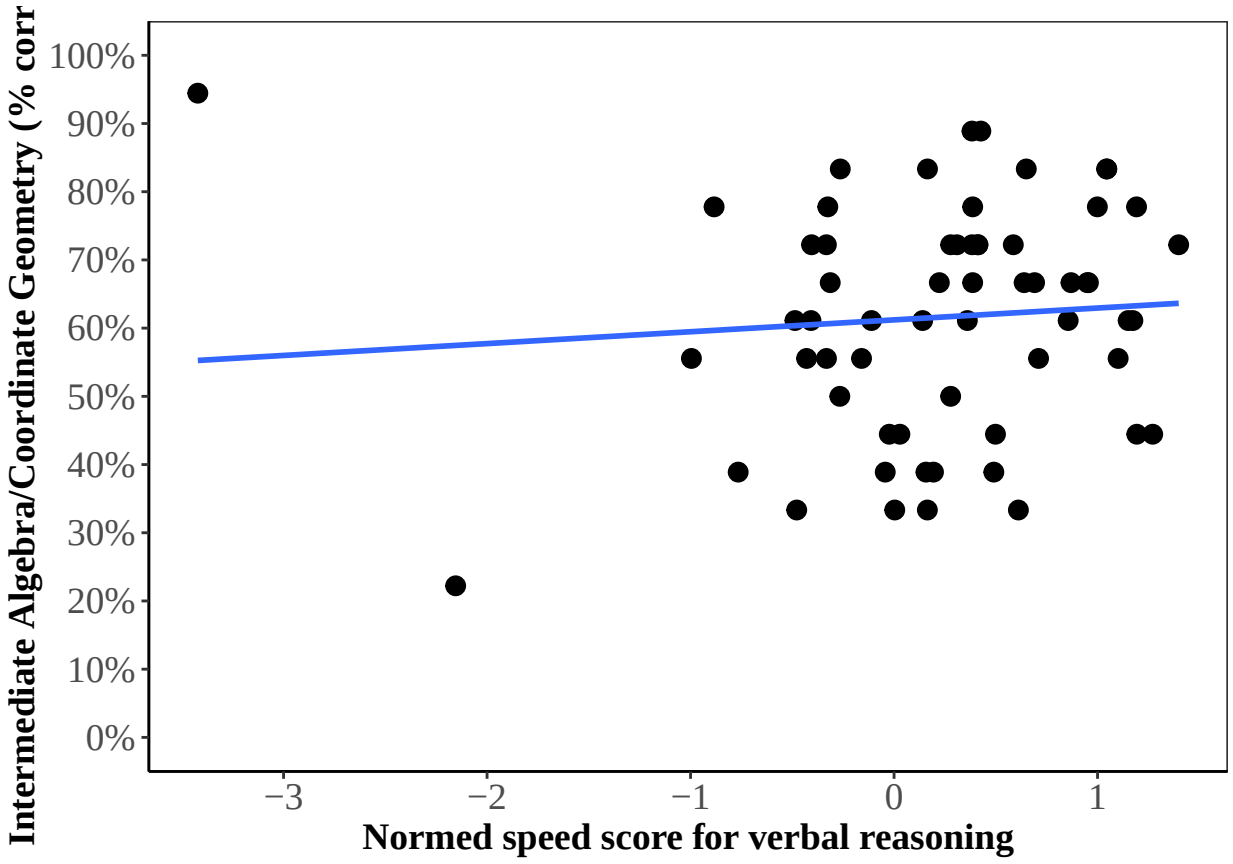

```
##
##  Pearson's product-moment correlation
##
## data:  AG_DF$ABF_Sz and AG_DF$AGscore
## t = 0.21016, df = 59, p-value = 0.8343
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.2260274  0.2772612
## sample estimates:
##        cor
## 0.02735003
```

Verbal reasoning accuracy



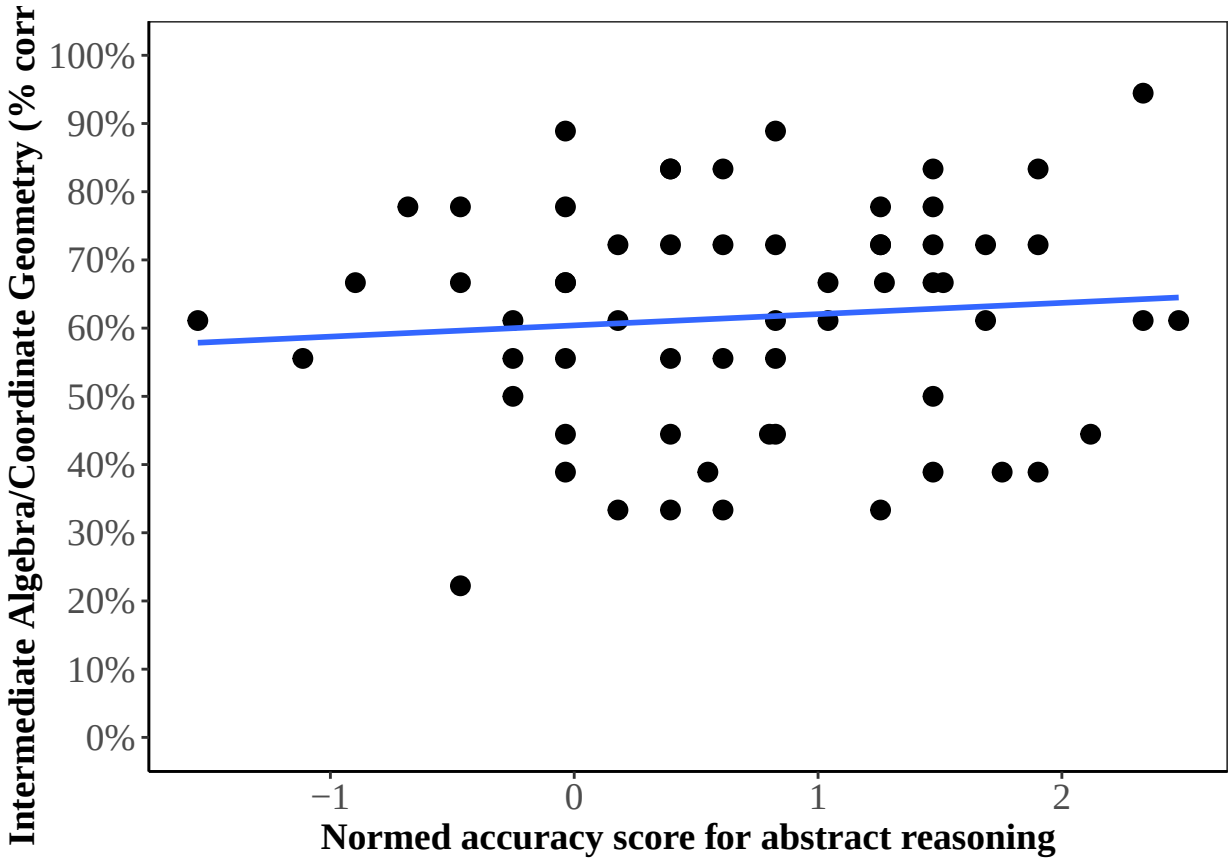

```
##
##  Pearson's product-moment correlation
##
## data:  AG_DF$LAN_Az and AG_DF$AGscore
## t = -0.39198, df = 59, p-value = 0.6965
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.2989488  0.2034673
## sample estimates:
##         cor
## -0.05096476
```

Verbal reasoning speed



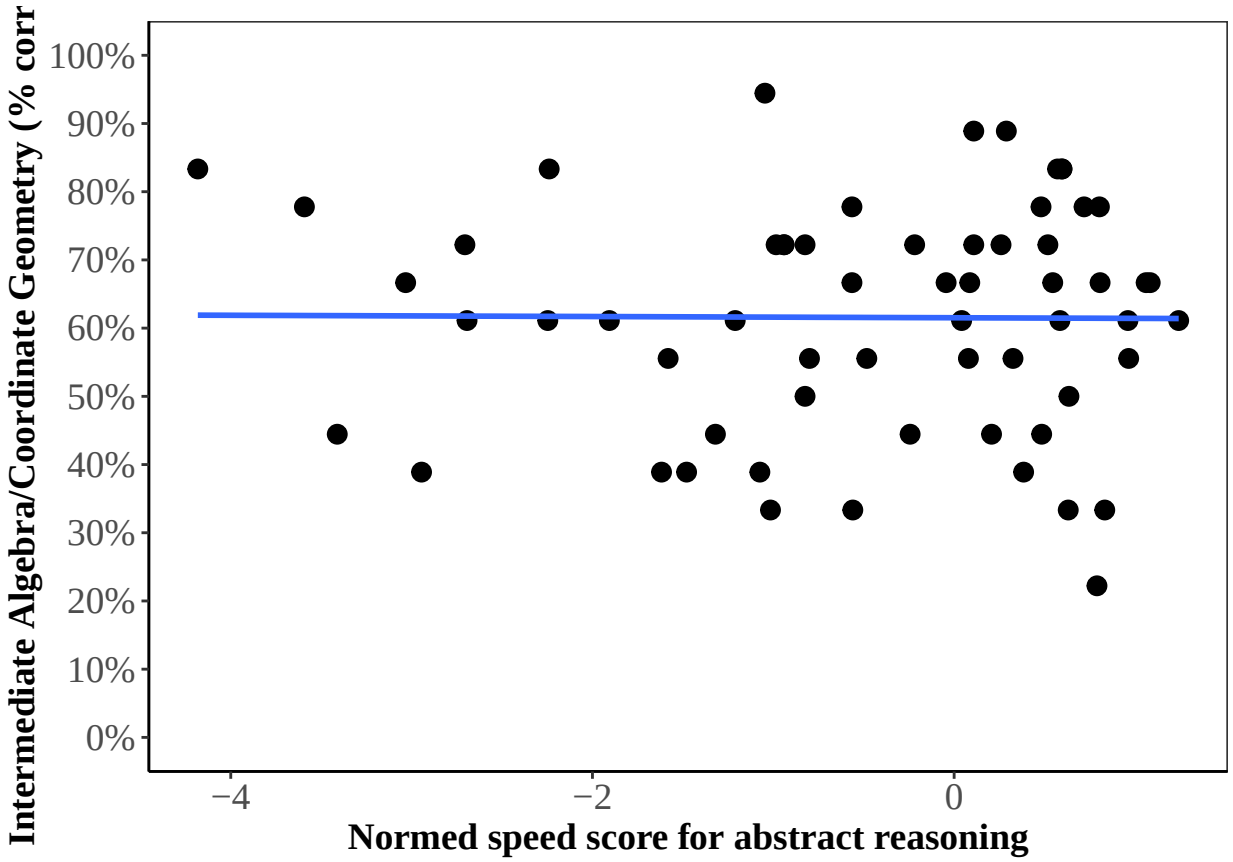

```
##
##  Pearson's product-moment correlation
##
## data:  AG_DF$LAN_Sz and AG_DF$AGscore
## t = 0.64827, df = 59, p-value = 0.5193
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.1713515  0.3289523
## sample estimates:
##       cor
## 0.08409801
```

Abstract reasoning accuracy



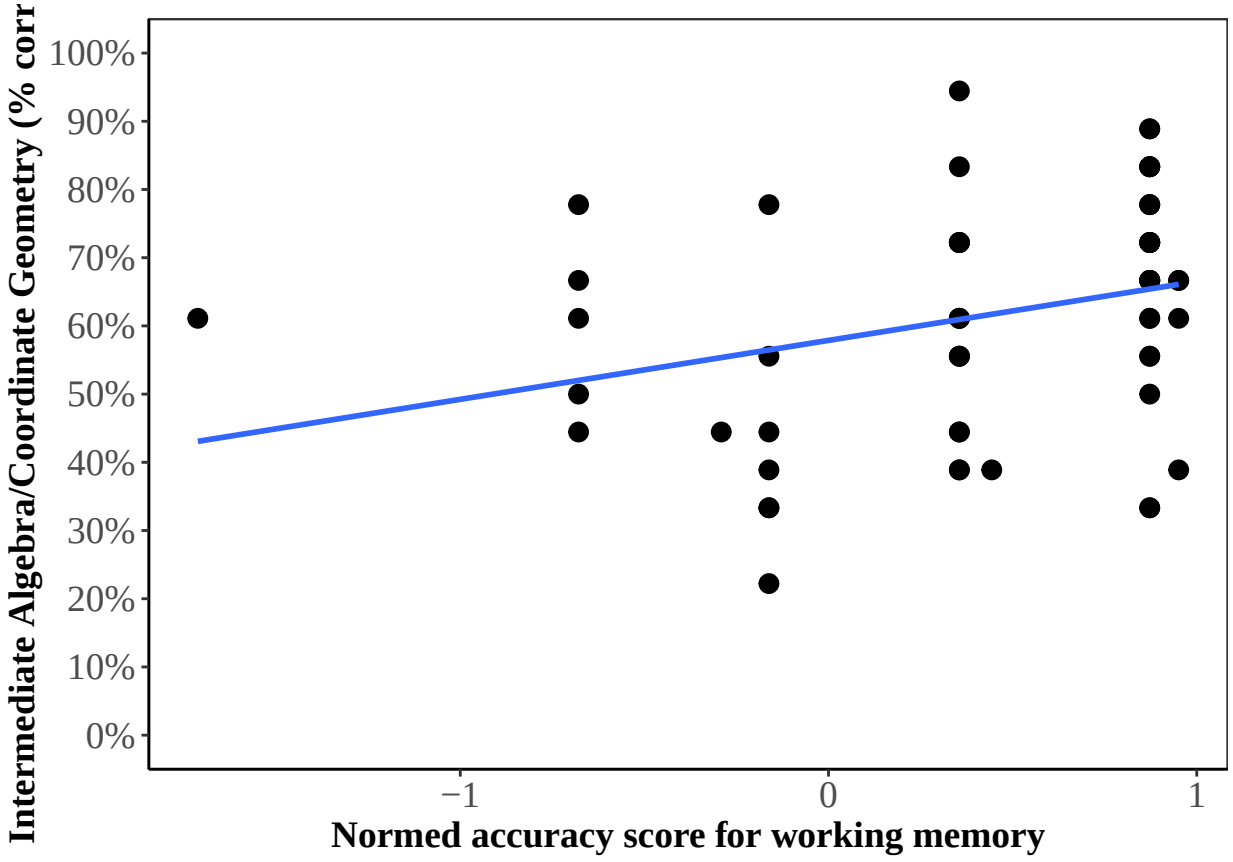

```
##
##  Pearson's product-moment correlation
##
## data:  AG_DF$NVR_Az and AG_DF$AGscore
## t = 0.68682, df = 59, p-value = 0.4949
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.1664941  0.3334041
## sample estimates:
##       cor
## 0.08906068
```

Abstract reasoning speed




```
##
##  Pearson's product-moment correlation
##
## data:  AG_DF$NVR_Sz and AG_DF$AGscore
## t = -0.055009, df = 59, p-value = 0.9563
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.2585159  0.2451014
## sample estimates:
##          cor
## -0.007161383
```

Working memory accuracy ($p < 0.05$)



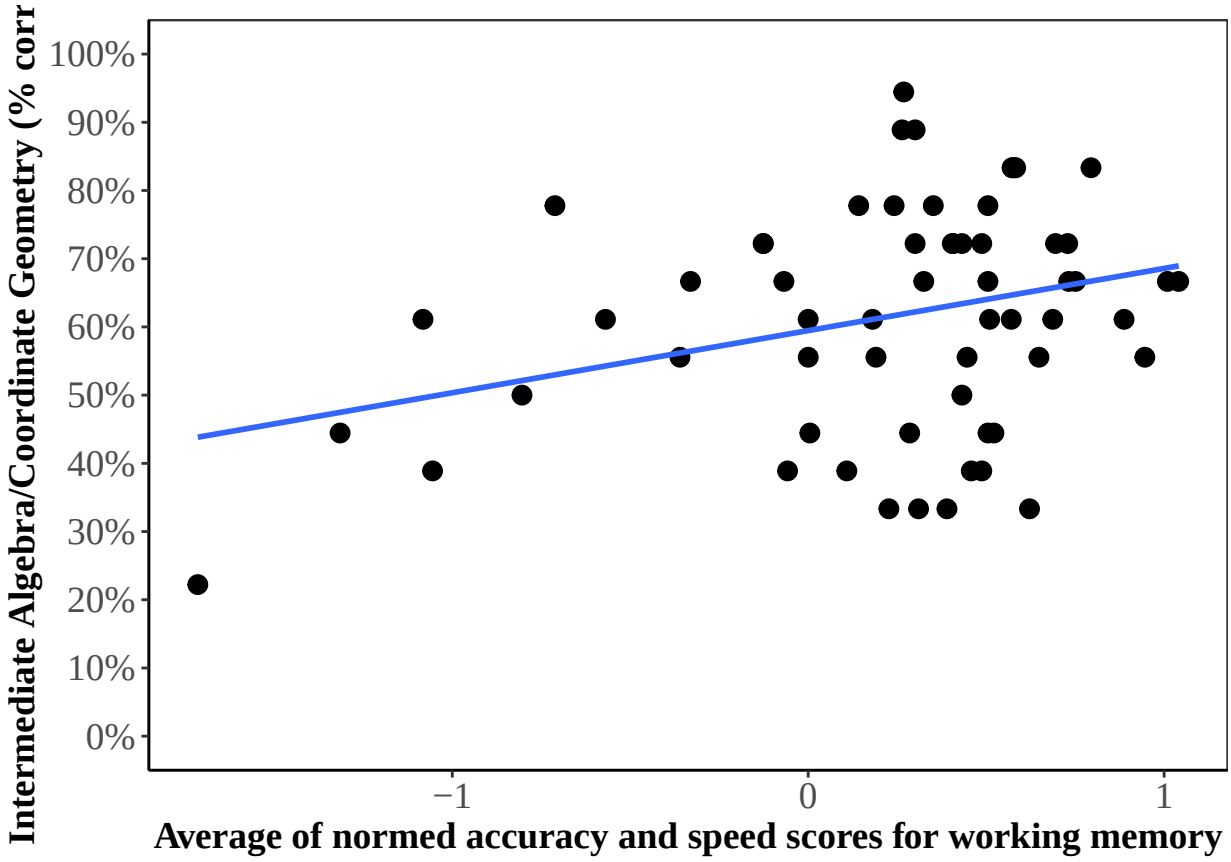

```
##
##  Pearson's product-moment correlation
##
## data:  AG_DF$WM_Az and AG_DF$AGscore
## t = 2.4009, df = 59, p-value = 0.01952
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  0.05029999 0.51171783
## sample estimates:
##       cor
## 0.2983418
```

Working memory speed


```
##
##  Pearson's product-moment correlation
##
## data:  AG_DF$WM_Sz and AG_DF$AGscore
## t = 1.3962, df = 59, p-value = 0.1679
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.07641755  0.41210561
## sample estimates:
##       cor
## 0.1788448
```

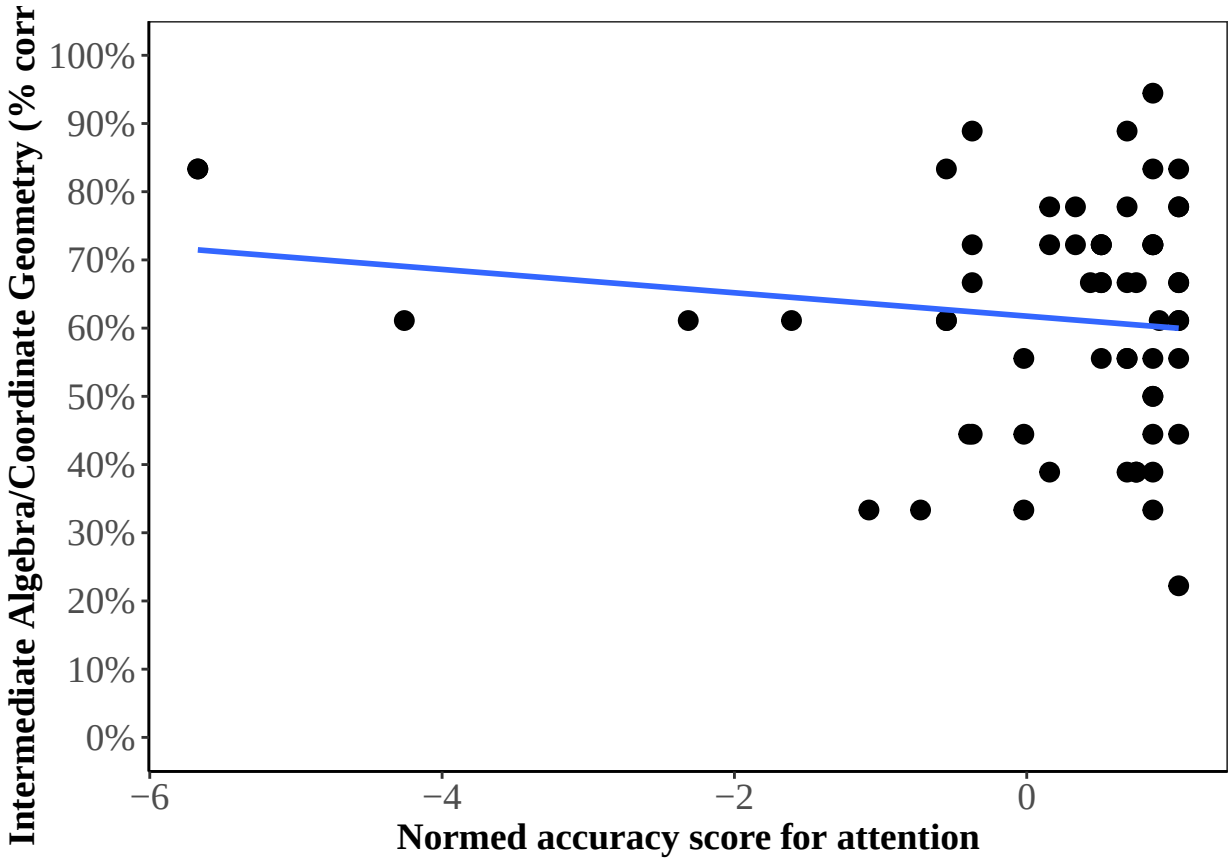
Working memory efficiency ($p < 0.05$)

Average of normed accuracy and speed scores for working memory.



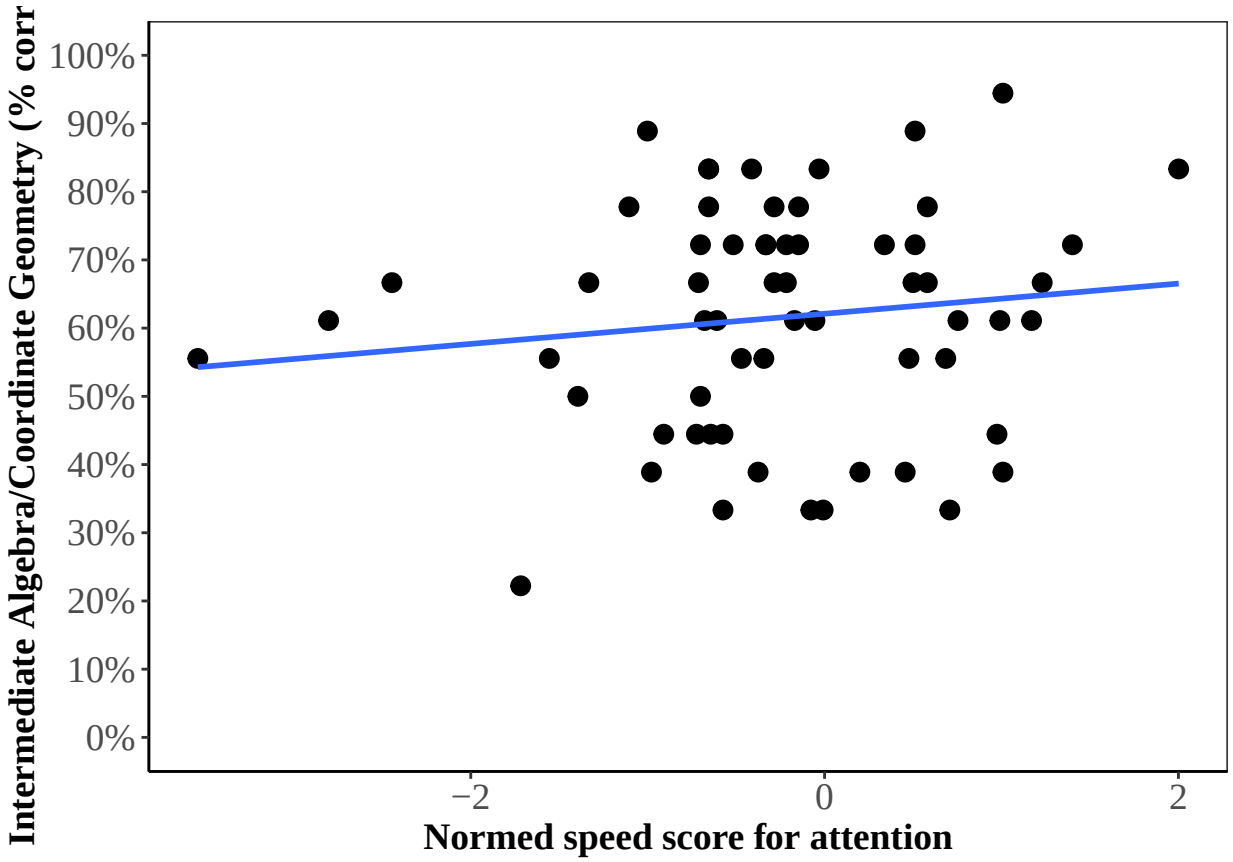

```
##
##  Pearson's product-moment correlation
##
## data:  AG_DF$WM_EFFICIENCY and AG_DF$AGscore
## t = 2.4711, df = 59, p-value = 0.01638
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  0.05897705 0.51811333
## sample estimates:
##       cor
## 0.3062495
```

Attention accuracy



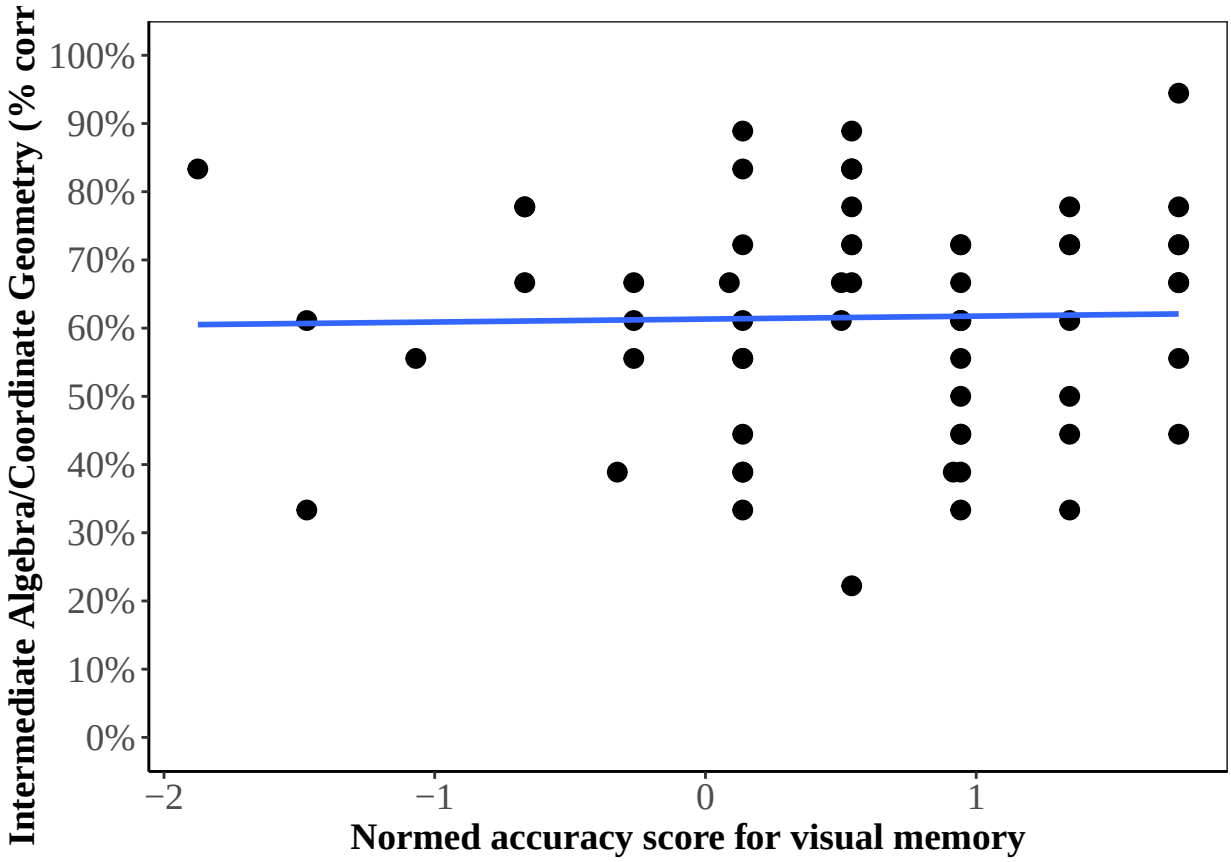

```
##
##  Pearson's product-moment correlation
##
## data:  AG_DF$ATT_Az and AG_DF$AGscore
## t = -1.122, df = 59, p-value = 0.2664
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.3824402  0.1113335
## sample estimates:
##        cor
## -0.1445396
```

Attention speed



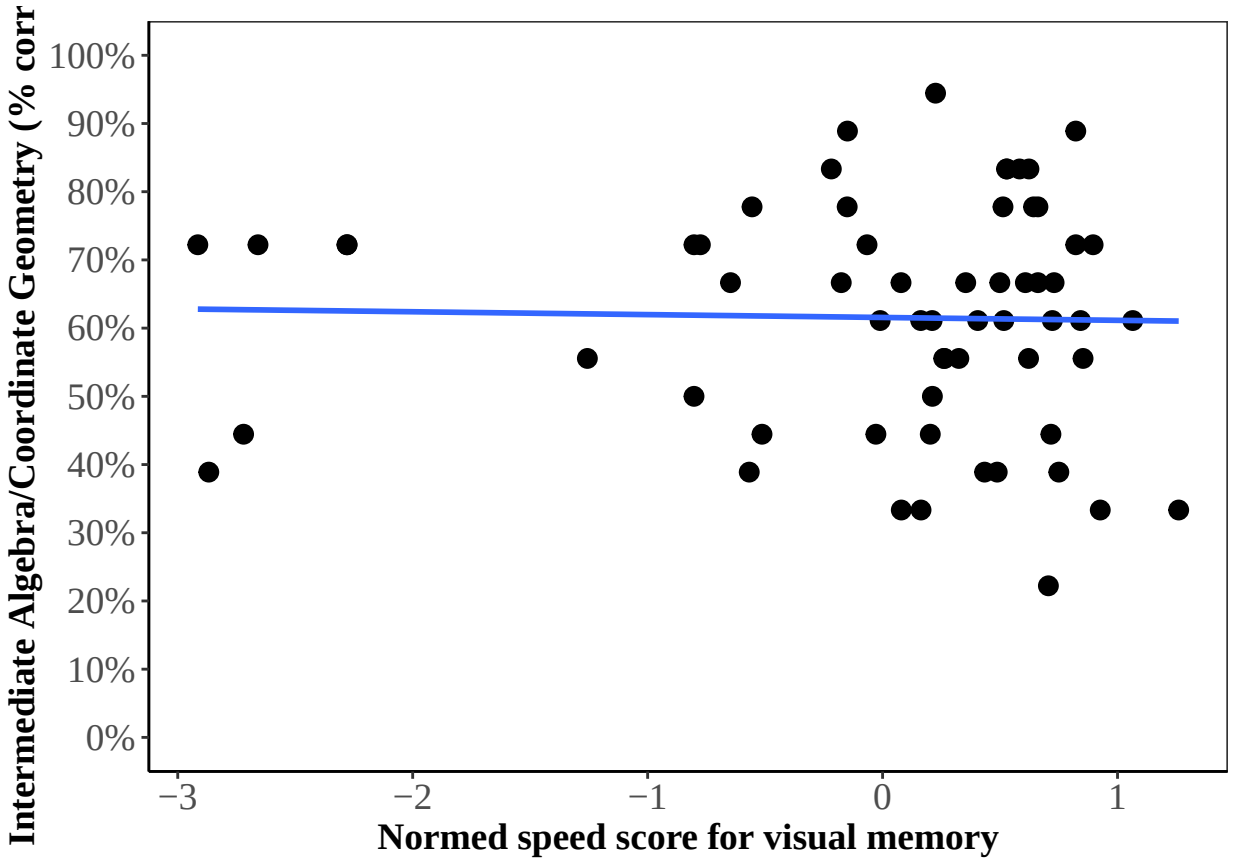

```
##
##  Pearson's product-moment correlation
##
## data:  AG_DF$ATT_Sz and AG_DF$AGscore
## t = 1.0159, df = 59, p-value = 0.3138
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.1248243  0.3706989
## sample estimates:
##       cor
## 0.1311179
```

Visual memory accuracy



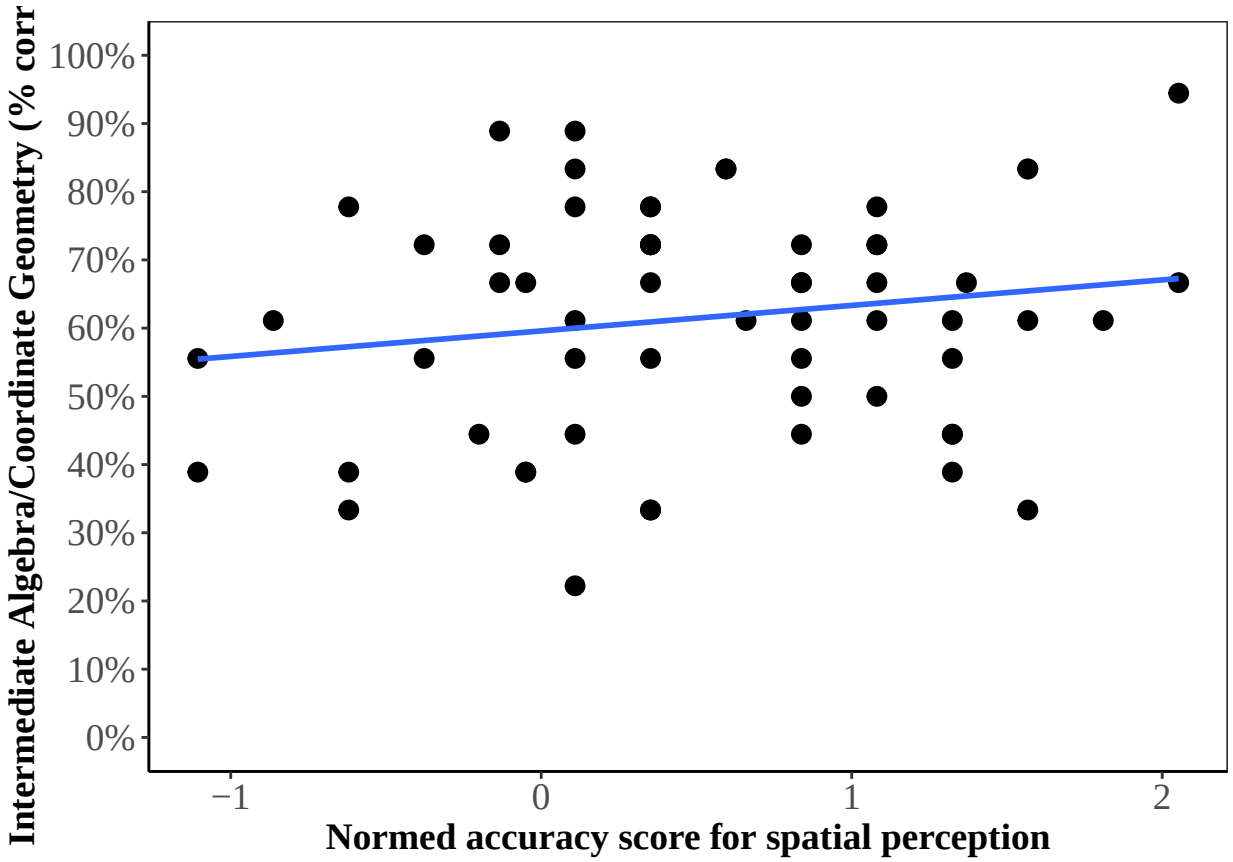

```
##
##  Pearson's product-moment correlation
##
## data:  AG_DF$SMEM_Az and AG_DF$AGscore
## t = 0.16976, df = 59, p-value = 0.8658
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.2310102  0.2724010
## sample estimates:
##        cor
## 0.02209594
```

Visual memory speed



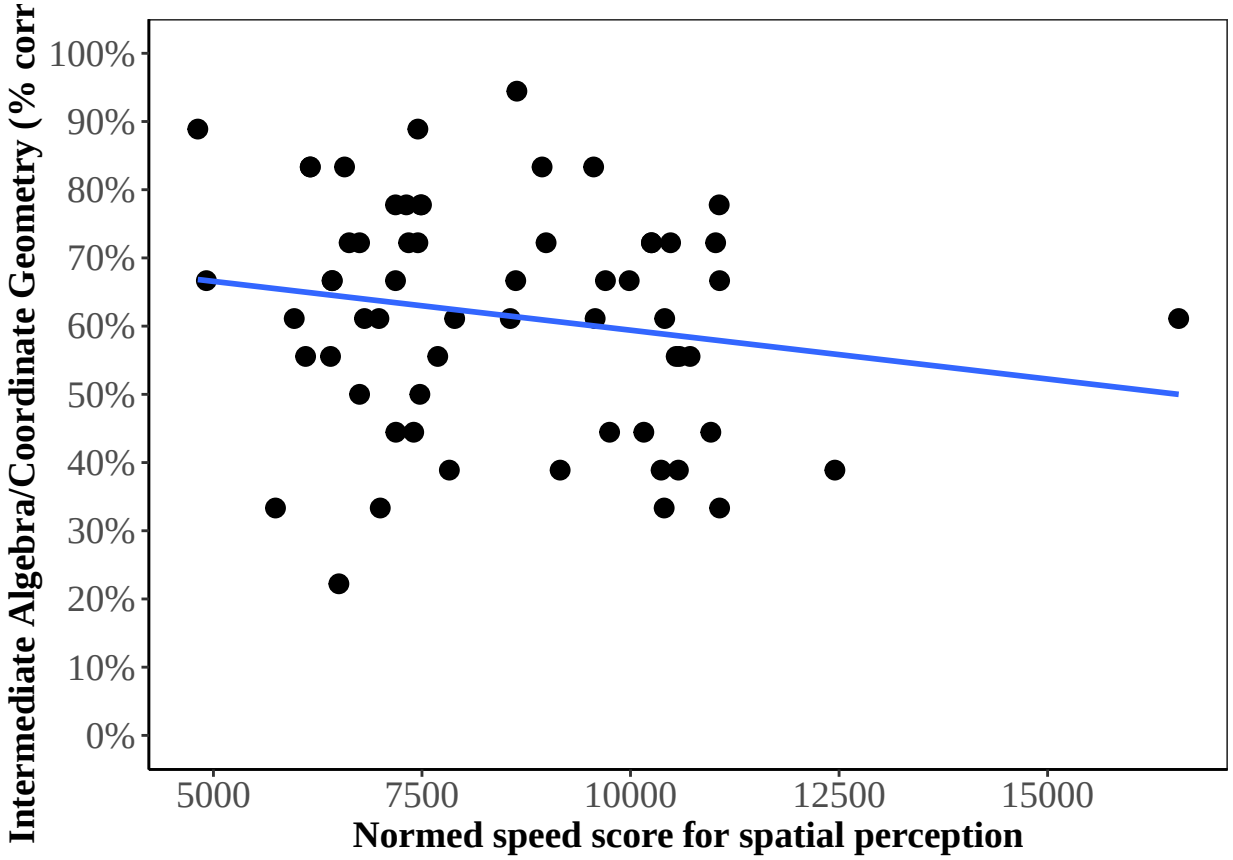

```
##
##  Pearson's product-moment correlation
##
## data:  AG_DF$SMEM_Sz and AG_DF$AGscore
## t = -0.19511, df = 59, p-value = 0.846
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.2754523  0.2278850
## sample estimates:
##         cor
## -0.02539292
```

Spatial perception accuracy




```
##
##  Pearson's product-moment correlation
##
## data:  AG_DF$SPA_Az and AG_DF$AGscore
## t = 1.3187, df = 59, p-value = 0.1924
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.08629409  0.40381802
## sample estimates:
##       cor
## 0.1692035
```

Spatial perception speed




```
##
##  Pearson's product-moment correlation
##
## data:  AG_DF$SPA_Sz and AG_DF$AGscore
## t = -1.4295, df = 59, p-value = 0.1581
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.41563566  0.07218136
## sample estimates:
##        cor
## -0.1829651
```

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