Advanced Analysis

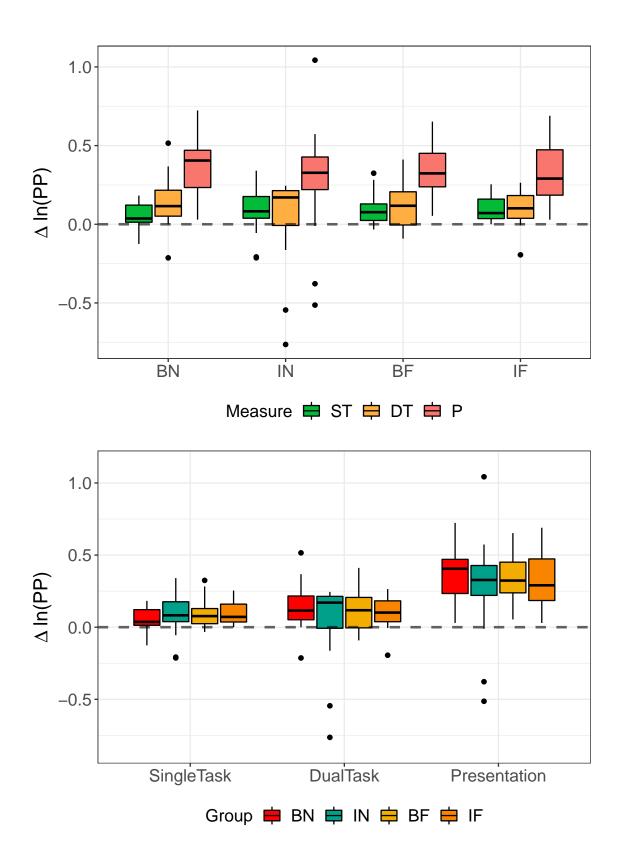
PP, 4 Groups:

Stress Levels Across Activities

Our Linear Model:

```
\Delta ln(\bar{PP}) = 1 + Group + Activity + 1|Subject
```

```
## Linear mixed-effects model fit by REML
## Data: diff_df
##
         AIC
                  BIC
                        logLik
##
    -178.948 -147.112 98.47402
##
## Random effects:
## Formula: ~1 | Subject
##
          (Intercept) Residual
## StdDev: 0.138271 0.1254413
##
## Fixed effects: PP ~ 1 + Group + Activity
                    Value Std.Error DF
                                         t-value p-value
## (Intercept) 0.10039584 0.04146835 192 2.421023 0.0164
## GroupIN
             -0.04785667 0.05256399 62 -0.910446 0.3661
## GroupBF
              0.00482909 0.05549157 62 0.087024 0.9309
## GroupIF
              -0.00466546 0.05383780 62 -0.086658 0.9312
## ActivityB -0.03929932 0.02194253 192 -1.791012 0.0749
## ActivityDT 0.01469432 0.02183652 192 0.672924 0.5018
               0.24369816 0.02205159 192 11.051272 0.0000
## ActivityP
## Correlation:
             (Intr) GropIN GropBF GropIF ActvtB ActvDT
##
## GroupIN
             -0.708
## GroupBF
             -0.670 0.529
## GroupIF
             -0.690 0.545 0.516
## ActivityB -0.258 -0.004 -0.004 -0.004
## ActivityDT -0.263 0.000 0.000 0.000 0.498
## ActivityP -0.263 0.007 0.000 0.000 0.493 0.495
## Standardized Within-Group Residuals:
          Min
                       Q1
                                 Med
                                              QЗ
## -3.69297959 -0.40330059 -0.04953458 0.42425698 4.32262164
## Number of Observations: 261
## Number of Groups: 66
```

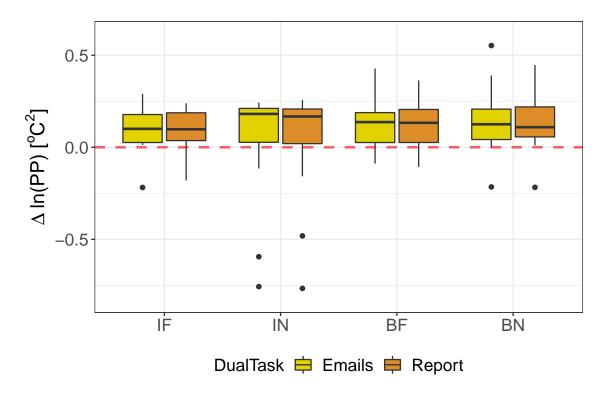


Stress Levels for Dual Task

Number of Observations: 130

Number of Groups: 65

```
Our Linear Model:
                    \Delta ln(\bar{PP}) = 1 + Group + DualTask + 1|Subject
## Linear mixed-effects model fit by REML
## Data: total_df
##
          AIC
                    BIC
                          logLik
##
     -238.7776 -218.9794 126.3888
##
## Random effects:
## Formula: ~1 | Subject
##
          (Intercept)
                        Residual
## StdDev: 0.1872633 0.02677144
##
## Fixed effects: PP ~ 1 + Group + DualTask
                       Value Std.Error DF
                                              t-value p-value
## (Intercept)
                 0.14163189 0.04865428 64 2.9109850 0.0050
## GroupIN
                 -0.08806844 0.06500959 61 -1.3546992 0.1805
## GroupBF
                 -0.01400555 0.06994389 61 -0.2002397 0.8420
                 -0.04123247 0.06667535 61 -0.6184065 0.5386
## GroupIF
## DualTaskReport -0.00249349 0.00469602 64 -0.5309799 0.5973
## Correlation:
##
                  (Intr) GropIN GropBF GropIF
## GroupIN
                 -0.747
## GroupBF
                 -0.694 0.519
## GroupIF
                 -0.728 0.545 0.506
## DualTaskReport -0.048 0.000 0.000 0.000
##
## Standardized Within-Group Residuals:
           Min
                           Q1
                                        Med
                                                        QЗ
                                                                     Max
## -2.383599e+00 -4.505942e-01 -1.059742e-05 3.762150e-01 2.069535e+00
```



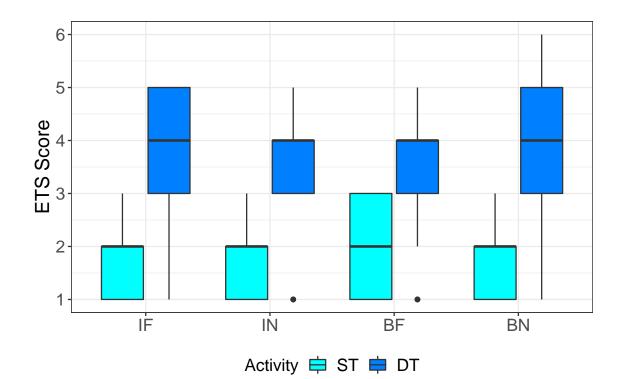
- ## Paired t-test
- ## For IF, p = 0.674 > 0.05
- ## Paired t-test
- ## For IN, p = 0.744 > 0.05
- ## Paired t-test
- ## For BF, p = 0.4738 > 0.05
- ## Paired t-test
- ## For BN, p = 0.4718 > 0.05

Linear Modelling for Writing Quality

Our Linear Model:

WritingQuality = 1 + Group + Activity + 1 | Subject

```
## Linear mixed-effects model fit by REML
## Data: full_df
##
         AIC
              BIC
                        logLik
##
    1102.172 1132.016 -544.0862
##
## Random effects:
## Formula: ~1 | Subject
          (Intercept) Residual
## StdDev: 0.815559 0.5654234
##
## Fixed effects: Score ~ 1 + Group + Activity
##
                  Value Std.Error DF t-value p-value
## (Intercept) 1.9320463 0.21820388 464 8.85432 0.0000
            0.0734389 0.29057887 61 0.25273 0.8013
## GroupIN
## GroupBF
              0.0258916 0.31216072 61 0.08294 0.9342
## GroupIF
              0.0881311 0.29856835 61 0.29518 0.7689
## ActivityDT 1.7245283 0.04912084 464 35.10787 0.0000
## Correlation:
##
             (Intr) GropIN GropBF GropIF
## GroupIN
             -0.741
## GroupBF
             -0.690 0.518
## GroupIF
             -0.722 0.542 0.504
## ActivityDT -0.113 0.000 0.000 0.000
##
## Standardized Within-Group Residuals:
## Min
                    Q1
                              Med
                                          QЗ
                                                   Max
## -2.5214114 -0.5577613 -0.0315706 0.5336138 2.3043000
## Number of Observations: 530
## Number of Groups: 65
```



Activity	Group	n
ST	BN	63
ST	IN	81
ST	BF	58
ST	IF	63
DT	BN	63
DT	IN	81
DT	BF	58
DT	IF	63

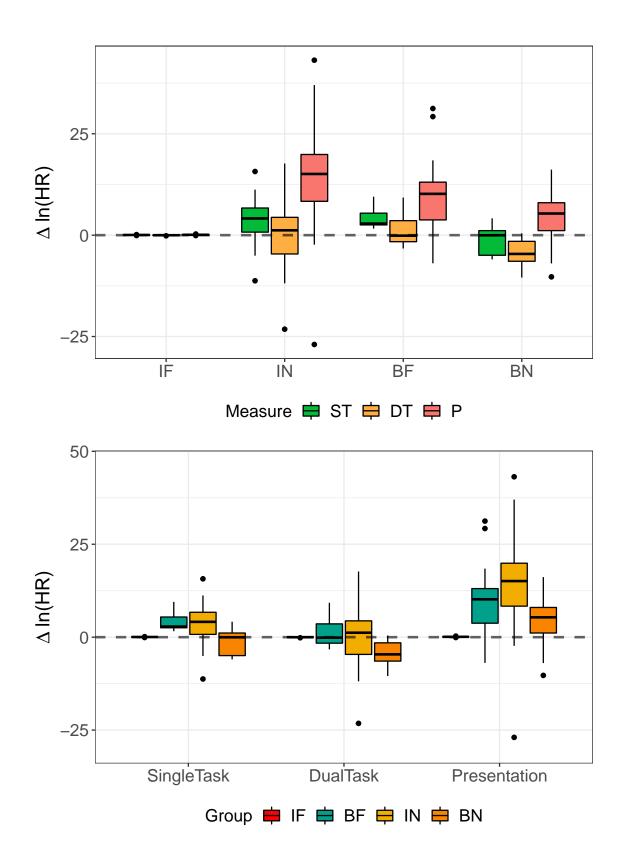
HR, 4 Groups:

Stress Levels Across Activities

Number of Observations: 213

Number of Groups: 55

```
Our Linear Model:
                      \Delta \bar{HR} = 1 + Group + Activity + 1|Subject
## Linear mixed-effects model fit by REML
## Data: diff_df
##
         AIC
                  BIC
                         logLik
##
    1397.593 1427.544 -689.7966
##
## Random effects:
## Formula: ~1 | Subject
##
          (Intercept) Residual
               4.7485 5.453409
## StdDev:
##
## Fixed effects: HR ~ 1 + Group + Activity
                  Value Std.Error DF t-value p-value
## (Intercept) -0.558257 1.652845 155 -0.337755 0.7360
## GroupIN
             3.792501 2.060187 51 1.840853 0.0715
## GroupBF
               5.188135 2.115775 51 2.452120 0.0177
## GroupIF
               0.718798 2.201960 51 0.326435 0.7454
## ActivityB -2.449953 1.045858 155 -2.342529 0.0204
## ActivityDT -2.983310 1.039924 155 -2.868776 0.0047
               5.470081 1.078582 155 5.071547 0.0000
## ActivityP
## Correlation:
             (Intr) GropIN GropBF GropIF ActvtB ActvDT
##
## GroupIN
             -0.687
## GroupBF
             -0.666 0.535
## GroupIF
             -0.640 0.514 0.501
## ActivityB -0.315 0.005 0.000 0.000
## ActivityDT -0.315 0.000 0.000 0.000 0.497
## ActivityP -0.299 0.003 -0.013 -0.006 0.479 0.482
## Standardized Within-Group Residuals:
##
          Min
                       Q1
                                  Med
                                               QЗ
## -3.46501284 -0.47250644 0.06466967 0.43791557 5.00418600
```

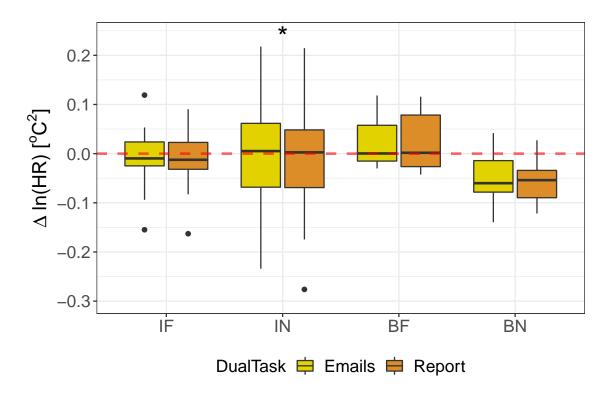


Stress Levels for Dual Task

```
Our Linear Model:
```

```
\Delta \bar{HR} = 1 + Group + DualTask + 1|Subject
```

```
## Linear mixed-effects model fit by REML
## Data: total_df
##
          AIC
                   BIC
                         logLik
##
    -344.4591 -326.016 179.2295
##
## Random effects:
## Formula: ~1 | Subject
##
          (Intercept)
                      Residual
## StdDev: 0.07447717 0.01528277
## Fixed effects: HR ~ 1 + Group + DualTask
                              Std.Error DF
                       Value
                                             t-value p-value
## (Intercept)
                 -0.04759271 0.020924305 53 -2.274518 0.0270
## GroupIN
                 0.03980732 0.028100549 50 1.416603 0.1628
## GroupBF
                  0.07322944 0.029518263 50 2.480818 0.0165
                  0.03915708 0.030126951 50 1.299736 0.1997
## GroupIF
## DualTaskReport -0.00555952 0.002941171 53 -1.890241 0.0642
## Correlation:
##
                 (Intr) GropIN GropBF GropIF
## GroupIN
                 -0.741
## GroupBF
                 -0.705 0.525
## GroupIF
                 -0.691 0.515 0.490
## DualTaskReport -0.070 0.000 0.000 0.000
##
## Standardized Within-Group Residuals:
                       Q1
                                  Med
                                               QЗ
          Min
                                                          Max
## -1.90592838 -0.38237059 0.04371162 0.38197252 2.07495035
## Number of Observations: 108
## Number of Groups: 54
```



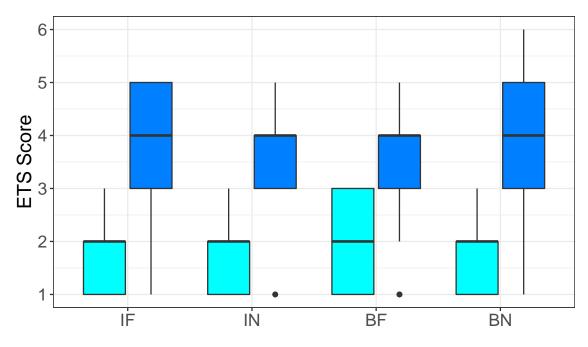
```
## Paired t-test
## For IF, p = 0.4269 > 0.05
## Paired t-test
## For IN, p = 0.0397 < 0.05 *
## Paired t-test
## For BF, p = 0.8595 > 0.05
## Paired t-test
## For BN, p = 0.573 > 0.05
```

Linear Modelling for Writing Quality

Our Linear Model:

WritingQuality = 1 + Group + Activity + 1 | Subject

```
## Linear mixed-effects model fit by REML
## Data: full_df
##
         AIC
              BIC
                        logLik
##
    1102.172 1132.016 -544.0862
##
## Random effects:
## Formula: ~1 | Subject
         (Intercept) Residual
## StdDev: 0.815559 0.5654234
##
## Fixed effects: Score ~ 1 + Group + Activity
##
                  Value Std.Error DF t-value p-value
## (Intercept) 1.9320463 0.21820388 464 8.85432 0.0000
## GroupIN
            0.0734389 0.29057887 61 0.25273 0.8013
## GroupBF
              0.0258916 0.31216072 61 0.08294 0.9342
## GroupIF
              0.0881311 0.29856835 61 0.29518 0.7689
## ActivityDT 1.7245283 0.04912084 464 35.10787 0.0000
## Correlation:
##
             (Intr) GropIN GropBF GropIF
## GroupIN
             -0.741
## GroupBF
             -0.690 0.518
## GroupIF
             -0.722 0.542 0.504
## ActivityDT -0.113 0.000 0.000 0.000
##
## Standardized Within-Group Residuals:
## Min
                    Q1
                              Med
                                          QЗ
                                                   Max
## -2.5214114 -0.5577613 -0.0315706 0.5336138 2.3043000
## Number of Observations: 530
## Number of Groups: 65
```



Activity	ST	DT
ACLIVILY	SI	וט

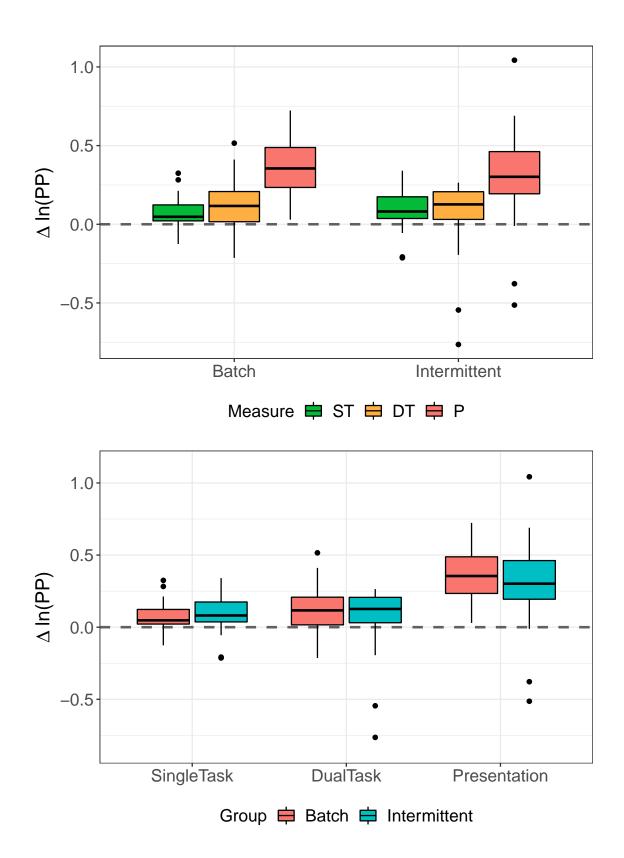
Activity	Group	n
ST	BN	63
ST	IN	81
ST	BF	58
ST	IF	63
DT	BN	63
DT	IN	81
DT	BF	58
DT	IF	63

PP, 2 Groups:

Stress Levels Across Activities

Number of Groups: 66

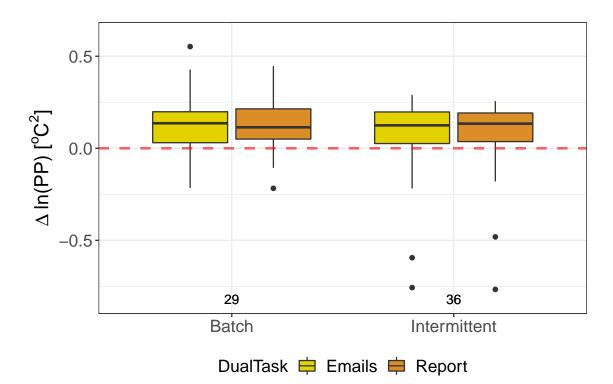
```
Our Linear Model:
                     \Delta ln(\bar{PP}) = 1 + Group + Activity + 1|Subject
## Linear mixed-effects model fit by REML
## Data: diff_df
##
          AIC
                    BIC
                           logLik
##
    -190.2974 -165.4812 102.1487
##
## Random effects:
## Formula: ~1 | Subject
##
           (Intercept) Residual
## StdDev: 0.1366331 0.1254346
##
## Fixed effects: PP ~ 1 + Group + Activity
                           Value Std.Error DF
                                                 t-value p-value
## (Intercept)
                     0.10277792 0.03054843 192 3.364426 0.0009
## GroupIntermittent -0.02981584 0.03721068 64 -0.801271 0.4259
## ActivityB
                    -0.03929974 0.02194106 192 -1.791151 0.0748
## ActivityDT
                     0.01469432 0.02183537 192 0.672960 0.5018
## ActivityP
                     0.24382752 0.02204962 192 11.058130 0.0000
## Correlation:
##
                     (Intr) GrpInt ActvtB ActvDT
## GroupIntermittent -0.664
## ActivityB
                    -0.354 -0.003
## ActivityDT
                    -0.357 0.000 0.498
                    -0.357 0.005 0.493 0.495
## ActivityP
##
## Standardized Within-Group Residuals:
         Min
                     Q1
                               Med
                                            QЗ
                                                      Max
## -3.7336040 -0.4020245 -0.0522257 0.4340779 4.3003452
## Number of Observations: 261
```



Stress Levels for Dual Task

Number of Groups: 65

```
Our Linear Model:
                     \Delta ln(\bar{PP}) = 1 + Group + DualTask + 1|Subject
## Linear mixed-effects model fit by REML
  Data: total_df
##
          AIC
                     BIC
                           logLik
##
    -249.3766 -235.1557 129.6883
##
## Random effects:
## Formula: ~1 | Subject
##
           (Intercept)
                         Residual
## StdDev: 0.1851428 0.02677144
##
## Fixed effects: PP ~ 1 + Group + DualTask
                           Value Std.Error DF
                                                t-value p-value
## (Intercept)
                     0.13487059 0.03463907 64 3.893597 0.0002
## GroupIntermittent -0.05919015 0.04643780 63 -1.274612 0.2071
## DualTaskReport
                    -0.00249349 0.00469602 64 -0.530980 0.5973
## Correlation:
##
                     (Intr) GrpInt
## GroupIntermittent -0.742
## DualTaskReport
                     -0.068 0.000
##
## Standardized Within-Group Residuals:
                          Q1
##
           Min
                                                    QЗ
                                                                Max
                                      Med
## -2.397230806 -0.449512451 0.006490064 0.371394466 2.075242947
##
## Number of Observations: 130
```



```
## Paired t-test
```

For Batch, p = 0.2975 > 0.05

Paired t-test

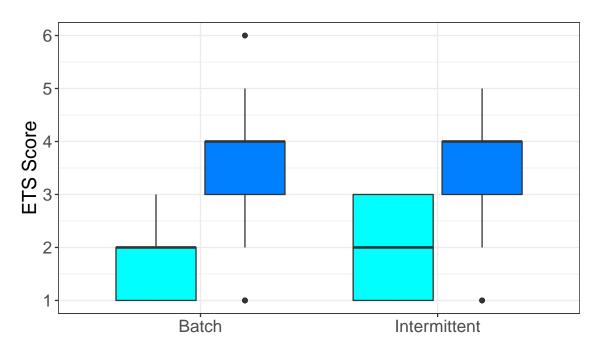
For Intermittent, p = 0.6066 > 0.05

Linear Modelling for Writing Quality

Our Linear Model:

WritingQuality = 1 + Group + Activity + 1 | Subject

```
## Linear mixed-effects model fit by REML
## Data: full_df
##
    AIC
             BIC logLik
    1097.074 1118.41 -543.5368
##
##
## Random effects:
## Formula: ~1 | Subject
         (Intercept) Residual
## StdDev: 0.80255 0.5654072
##
## Fixed effects: Score ~ 1 + Group + Activity
##
                      Value Std.Error DF t-value p-value
## (Intercept)
                 1.9728343 0.14429314 464 13.67241 0.0000
## GroupIntermittent 0.0189786 0.20613928 63 0.09207 0.9269
## ActivityDT
               1.7245283 0.04911944 464 35.10887 0.0000
## Correlation:
                   (Intr) GrpInt
##
## GroupIntermittent -0.68
## ActivityDT
              -0.17
                          0.00
##
## Standardized Within-Group Residuals:
   Min Q1
                          Med
                                            QЗ
## -2.52259635 -0.55343079 -0.01988021 0.52746772 2.29769169
## Number of Observations: 530
## Number of Groups: 65
```



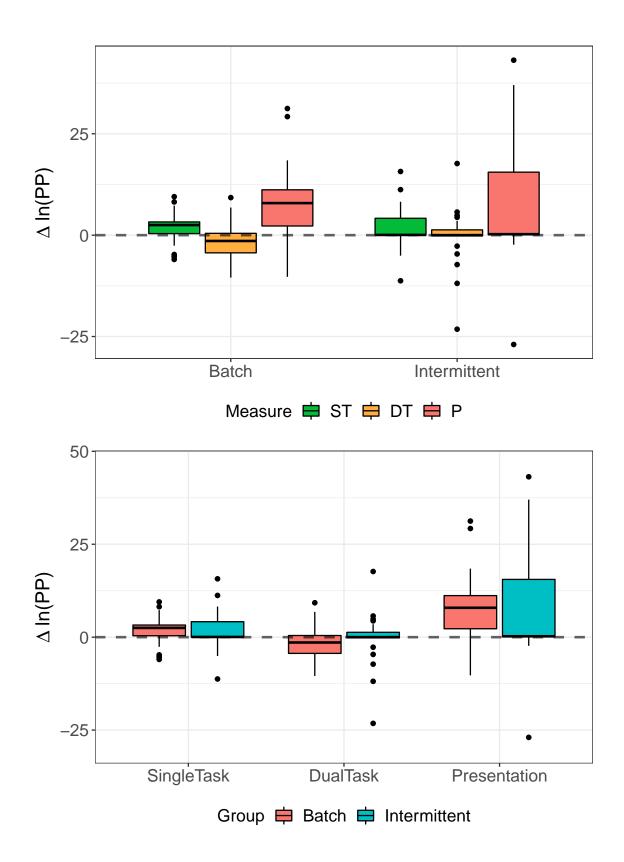
Activity 🖨 ST 🖨 DT

Activity	Group	n
ST	Batch	144
ST	Intermittent	121
DT	Batch	144
DT	Intermittent	121

HR, 2 Groups:

Stress Levels Across Activities

```
Our Linear Model:
                       \Delta \bar{HR} = 1 + Group + Activity + 1|Subject
## Linear mixed-effects model fit by REML
## Data: diff_df
##
         AIC
                  BIC
                         logLik
##
    1408.064 1431.427 -697.0319
##
## Random effects:
## Formula: ~1 | Subject
##
          (Intercept) Residual
## StdDev: 5.107801 5.452549
##
## Fixed effects: HR ~ 1 + Group + Activity
                        Value Std.Error DF
                                             t-value p-value
## (Intercept)
                    2.143937 1.285510 155 1.667771 0.0974
## GroupIntermittent -0.238614 1.568514 53 -0.152127 0.8797
## ActivityB
                    -2.454762 1.045728 155 -2.347419 0.0202
## ActivityDT
                    -2.983310 1.039760 155 -2.869229 0.0047
## ActivityP
                    5.491541 1.078591 155 5.091401 0.0000
## Correlation:
##
                    (Intr) GrpInt ActvtB ActvDT
## GroupIntermittent -0.621
## ActivityB
                    -0.404 0.004
## ActivityDT
                    -0.404 0.000 0.497
## ActivityP
                    -0.395 0.008 0.479 0.482
##
## Standardized Within-Group Residuals:
           Min
                         Q1
                                                   QЗ
                                     Med
                                                               Max
## -3.307528856 -0.434774431 0.008940345 0.374207295 5.009845308
##
## Number of Observations: 213
## Number of Groups: 55
```



Stress Levels for Dual Task

Our Linear Model:

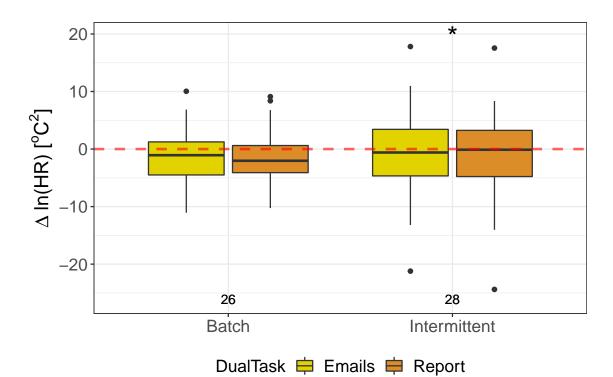
##

Number of Observations: 108

Number of Groups: 54

```
\Delta \bar{HR} = 1 + Group + DualTask + 1|Subject
## Linear mixed-effects model fit by REML
   Data: total_df
##
          AIC
                   BIC
                          logLik
##
     564.7997 578.0695 -277.3999
##
## Random effects:
## Formula: ~1 | Subject
##
           (Intercept) Residual
             6.339725 1.169079
## StdDev:
##
## Fixed effects: HR ~ 1 + Group + DualTask
                          Value Std.Error DF
                                                 t-value p-value
                    -0.9641354 1.2588841 53 -0.7658651 0.4472
## (Intercept)
## GroupIntermittent 0.0997138 1.7412561 52 0.0572655 0.9546
## DualTaskReport
                     -0.3896584 0.2249894 53 -1.7318966 0.0891
## Correlation:
##
                     (Intr) GrpInt
## GroupIntermittent -0.717
## DualTaskReport
                     -0.089 0.000
##
## Standardized Within-Group Residuals:
                        Q1
##
          Min
                                   Med
                                                 QЗ
                                                            Max
```

-2.08303345 -0.40857887 0.05106419 0.38434907 2.30886567



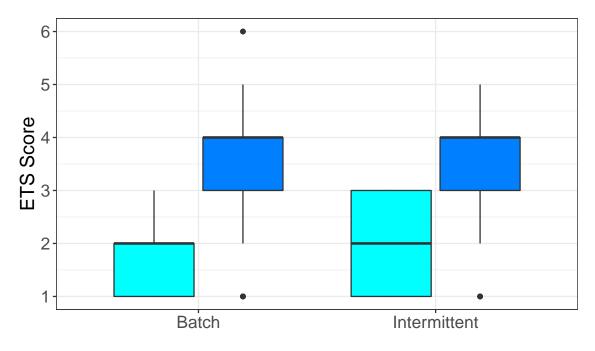
```
## Paired t-test
## For Batch, p = 0.6287 > 0.05
## Paired t-test
## For Intermittent, p = 0.0401 < 0.05 *</pre>
```

Linear Modelling for Writing Quality

Our Linear Model:

WritingQuality = 1 + Group + Activity + 1|Subject

```
## Linear mixed-effects model fit by REML
## Data: full_df
##
    AIC BIC logLik
    1097.074 1118.41 -543.5368
##
##
## Random effects:
## Formula: ~1 | Subject
         (Intercept) Residual
## StdDev: 0.80255 0.5654072
##
## Fixed effects: Score ~ 1 + Group + Activity
##
                      Value Std.Error DF t-value p-value
## (Intercept)
                 1.9728343 0.14429314 464 13.67241 0.0000
## GroupIntermittent 0.0189786 0.20613928 63 0.09207 0.9269
## ActivityDT
               1.7245283 0.04911944 464 35.10887 0.0000
## Correlation:
                   (Intr) GrpInt
##
## GroupIntermittent -0.68
## ActivityDT
              -0.17
                          0.00
##
## Standardized Within-Group Residuals:
   Min
               Q1
                          Med
                                            QЗ
## -2.52259635 -0.55343079 -0.01988021 0.52746772 2.29769169
## Number of Observations: 530
## Number of Groups: 65
```



Activity 🖨 ST 🖨 DT

Activity	Group	n
ST	Batch	144
ST	Intermittent	121
DT	Batch	144
DT	Intermittent	121

Let's Get to 10 * with Four Groups

Our Linear Model:

```
\Delta ln(PP) = 1 + ETSScore + Group + Activity + 1|Subject
```

```
## Linear mixed-effects model fit by REML
## Data: full_df
##
          AIC
                    BIC logLik
##
    -97.37338 -74.68312 56.68669
##
## Random effects:
## Formula: ~1 | Subject
          (Intercept) Residual
## StdDev: 0.1160218 0.1047286
##
## Fixed effects: PP ~ 1 + ETSScore + Group + Activity
##
                    Value Std.Error DF t-value p-value
## (Intercept) 0.07830843 0.04478419 65 1.7485732 0.0851
## ETSScore 0.00632252 0.01347347 65 0.4692574 0.6405
## GroupIN
              -0.02413960 0.04745506 61 -0.5086834 0.6128
## GroupBF
              -0.00071965 0.05114987 61 -0.0140695 0.9888
## GroupIF
               0.00261483 0.04877144 61 0.0536139 0.9574
## ActivityDT 0.00308268 0.03020997 65 0.1020418 0.9190
## Correlation:
##
             (Intr) ETSScr GropIN GropBF GropIF
## ETSScore
            -0.573
## GroupIN
             -0.584 - 0.017
             -0.548 -0.006 0.520
## GroupBF
## GroupIF
           -0.565 -0.023 0.546 0.506
## ActivityDT 0.334 -0.797 0.014 0.005 0.018
##
## Standardized Within-Group Residuals:
                      Q1
          Min
                                 Med
                                              Q3
                                                         Max
## -4.25944641 -0.30605522 -0.01964231 0.33825689 2.33237928
## Number of Observations: 132
## Number of Groups: 65
```

Hey! Let's ANOVA!

Our ANOVA Model:

```
\Delta ln(\bar{PP}) = 1 + StressFactor + IntermittentFactor
```

```
##
                      Df Sum Sq Mean Sq F value Pr(>F)
                       1 0.0059 0.00592
## StressFactor
                                          0.166 0.685
## IntermittentFactor 1 0.0548 0.05480
                                          1.540 0.219
                      63 2.2425 0.03560
## Residuals
    Tukey multiple comparisons of means
##
       95% family-wise confidence level
##
## Fit: aov(formula = PP ~ 1 + StressFactor + IntermittentFactor, data = diff_df, na.action = na.om
##
## $StressFactor
##
                  diff
                               lwr
                                         upr
                                                 p adj
## High-Low 0.01895161 -0.07390701 0.1118102 0.6847714
##
## $IntermittentFactor
##
                                        diff
                                                  lwr
                                                                     p adj
## Intermittent-Non-Intermittent -0.05784808 -0.15105 0.03535383 0.2194568
```

Now a Linear Model Very Close to the ANOVA One Above:

Our Linear Model:

```
\Delta ln(PP) = 1 + StressIndicator + IntermittencyIndicator + 1|Subjects
```

```
## Linear mixed-effects model fit by REML
## Data: diff_df
                    BIC logLik
##
         AIC
    -11.56681 -0.8511323 10.7834
##
##
## Random effects:
## Formula: ~1 | Subject
          (Intercept) Residual
## StdDev: 0.1766541 0.06624529
##
## Fixed effects: PP ~ 1 + StressFactor + IntermittentFactor
##
                                      Value Std.Error DF
                                                             t-value
## (Intercept)
                                 0.12437204 0.04155398 63 2.9930235
## StressFactorHigh
                                 0.01735531 0.04648567 63 0.3733476
## IntermittentFactorIntermittent -0.05789242 0.04665752 63 -1.2407949
##
                                p-value
## (Intercept)
                                 0.0039
## StressFactorHigh
                                 0.7101
## IntermittentFactorIntermittent 0.2193
## Correlation:
##
                                 (Intr) StrsFH
## StressFactorHigh
                                -0.559
## IntermittentFactorIntermittent -0.627 0.028
##
## Standardized Within-Group Residuals:
## Min
                       Q1
                          Med
                                              QЗ
## -1.54542253 -0.12218771 0.03174836 0.21097440 0.72781883
## Number of Observations: 66
## Number of Groups: 66
```

Hey! Let's ANOVA 2: With Interaction Effects

Our ANOVA Model:

 $\Delta ln(\bar{PP}) = 1 + StressFactor + IntermittentFactor + StressFactor * IntermittentFactor * IntermittentFact$

```
##
                                  Df Sum Sq Mean Sq F value Pr(>F)
                                   1 0.0059 0.00592
## StressFactor
                                                      0.165 0.686
## IntermittentFactor
                                   1 0.0548 0.05480
                                                      1.529 0.221
## StressFactor:IntermittentFactor 1 0.0203 0.02032
                                                      0.567 0.454
## Residuals
                                  62 2.2222 0.03584
##
    Tukey multiple comparisons of means
##
       95% family-wise confidence level
##
## Fit: aov(formula = PP ~ 1 + StressFactor * IntermittentFactor, data = diff_df, na.action = na.om
## $StressFactor
##
                 diff
                             lwr
                                       upr
## High-Low 0.01895161 -0.0742573 0.1121605 0.6858197
##
## $IntermittentFactor
                                       diff
                                                   lwr
                                                              upr
                                                                      p adj
## Intermittent-Non-Intermittent -0.05784808 -0.1514016 0.03570542 0.2211031
## $`StressFactor:IntermittentFactor`
##
                                                    diff
                                                                lwr
## High: Non-Intermittent-Low: Non-Intermittent -0.02105726 -0.2035659
## Low:Intermittent-Low:Non-Intermittent -0.09226156 -0.2648975
## High:Intermittent-Low:Non-Intermittent
                                             -0.04279667 -0.2198561
## Low:Intermittent-High:Non-Intermittent
                                             -0.07120430 -0.2438402
## High:Intermittent-High:Non-Intermittent
                                             -0.02173941 -0.1987988
## High:Intermittent-Low:Intermittent
                                            0.04946489 -0.1173997
##
                                                    upr
                                                            p adj
## High: Non-Intermittent-Low: Non-Intermittent 0.16145142 0.9900928
## Low:Intermittent-Low:Non-Intermittent 0.08037437 0.4974272
## High:Intermittent-Low:Non-Intermittent
                                             0.13426276 0.9192577
## Low:Intermittent-High:Non-Intermittent 0.10143163 0.6975664
## High:Intermittent-High:Non-Intermittent 0.15532002 0.9881176
## High:Intermittent-Low:Intermittent
                                             0.21632947 0.8620509
```