

HR Prediction Model Results

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Setup

Wiri MSE Model

```
wiri_model_mse <- lmerTest::lmer(MSE ~ Emotion * Intensity * DataSubset + (1|Fold), data = all_data[all,])

## fixed-effect model matrix is rank deficient so dropping 12 columns / coefficients
summary(wiri_model_mse)

## Linear mixed model fit by maximum likelihood . t-tests use Satterthwaite's
## method [lmerModLmerTest]
## Formula: MSE ~ Emotion * Intensity * DataSubset + (1 | Fold)
## Data: all_data[all_data$Dataset == "Wiri", ]
##
##          AIC          BIC      logLik deviance df.resid
## 932076.6 933307.1 -465901.3 931802.6      58653
##
## Scaled residuals:
##      Min       1Q   Median       3Q      Max
## -4.6862 -0.5293 -0.0494  0.4493  9.8855
##
## Random effects:
## Groups   Name                Variance Std.Dev.
## Fold     (Intercept)         37029    192.4
## Residual                    447404    668.9
## Number of obs: 58790, groups: Fold, 5
##
## Fixed effects:
##
##              Estimate Std. Error      df
## (Intercept)    1706.1501     97.6540     8.2737
## EmotionMana   -2285.9042    122.1207  58784.9999
## EmotionPouri   -135.5429     66.0872  58785.0000
## EmotionRihariha  322.4098     61.2978  58785.0000
## EmotionRiri    -720.7607     62.0587  58785.0000
## EmotionTeKore  -547.2291     70.8306  58785.0000
## EmotionUruwehi -841.0633     58.7059  58785.0001
## IntensityL2    -46.8664     84.2713  58785.0000
## IntensityL3      6.1218     72.9811  58785.0001
## IntensityL4   -403.3179     87.8808  58784.9998
## IntensityL5   -571.2084     79.9468  58785.0000
## IntensityL6   2512.2448     89.9771  58784.9998
```

## IntensityL7	84.6260	87.8808	58785.0001
## DataSubsettrain	61.3740	49.9722	58785.0003
## DataSubsetval	54.3626	59.9791	58785.0031
## EmotionMana:IntensityL2	2235.9409	162.0990	58785.0000
## EmotionPouri:IntensityL2	-157.5248	111.4640	58785.0000
## EmotionRihariha:IntensityL2	-424.7183	107.3538	58785.0000
## EmotionRiri:IntensityL2	135.8009	110.7430	58785.0000
## EmotionTeKore:IntensityL2	-253.5973	110.5674	58785.0000
## EmotionUruwehi:IntensityL2	544.9528	106.7719	58785.0000
## EmotionPouri:IntensityL3	-222.4676	104.2946	58785.0000
## EmotionRihariha:IntensityL3	-236.9912	100.1933	58785.0001
## EmotionRiri:IntensityL3	-350.2198	105.4245	58785.0001
## EmotionTeKore:IntensityL3	458.2288	98.2647	58785.0000
## EmotionUruwehi:IntensityL3	433.6015	105.4332	58785.0000
## EmotionMana:IntensityL4	2776.5414	195.9647	58785.0000
## EmotionPouri:IntensityL4	26.2729	122.1934	58784.9998
## EmotionRihariha:IntensityL4	-678.8003	120.8865	58784.9999
## EmotionRiri:IntensityL4	1234.4242	121.2741	58784.9999
## EmotionTeKore:IntensityL4	557.2470	113.3426	58784.9999
## EmotionUruwehi:IntensityL4	660.8146	111.1442	58784.9999
## EmotionPouri:IntensityL5	942.0127	111.8882	58785.0000
## EmotionRihariha:IntensityL5	1152.7286	113.9718	58785.0000
## EmotionRiri:IntensityL5	1534.8331	108.8147	58785.0000
## EmotionTeKore:IntensityL5	467.7859	123.4639	58784.9999
## EmotionUruwehi:IntensityL5	1162.1443	120.7912	58785.0001
## EmotionPouri:IntensityL6	-787.4145	127.6647	58784.9999
## EmotionRihariha:IntensityL6	-1025.2132	121.2186	58784.9999
## EmotionRiri:IntensityL6	95.5626	124.1338	58784.9999
## EmotionTeKore:IntensityL6	-1714.4759	121.9542	58784.9999
## EmotionUruwehi:IntensityL6	646.8212	132.4628	58784.9999
## EmotionPouri:IntensityL7	222.0008	123.3841	58785.0001
## EmotionRihariha:IntensityL7	-18.3672	109.4612	58785.0000
## EmotionRiri:IntensityL7	1091.7403	114.1186	58785.0001
## EmotionTeKore:IntensityL7	793.2360	122.8151	58785.0000
## EmotionUruwehi:IntensityL7	1440.8129	106.7412	58785.0001
## EmotionMana:DataSubsettrain	-166.9513	133.7235	58785.0000
## EmotionPouri:DataSubsettrain	-131.5601	70.5696	58785.0002
## EmotionRihariha:DataSubsettrain	-168.2894	66.1779	58785.0003
## EmotionRiri:DataSubsettrain	-97.9240	66.9603	58785.0002
## EmotionTeKore:DataSubsettrain	41.8488	75.8476	58785.0002
## EmotionUruwehi:DataSubsettrain	-49.4250	63.3168	58785.0007
## EmotionMana:DataSubsetval	-158.8142	163.6692	58785.0006
## EmotionPouri:DataSubsetval	-120.4208	82.5705	58785.0029
## EmotionRihariha:DataSubsetval	-165.1124	79.0314	58785.0032
## EmotionRiri:DataSubsetval	-88.4585	79.8810	58785.0017
## EmotionTeKore:DataSubsetval	30.5301	89.2223	58785.0025
## EmotionUruwehi:DataSubsetval	-40.4949	75.4796	58785.0072
## IntensityL2:DataSubsettrain	-80.9528	89.5509	58785.0001
## IntensityL3:DataSubsettrain	-86.2884	79.0888	58785.0003
## IntensityL4:DataSubsettrain	-105.7778	93.3901	58785.0002
## IntensityL5:DataSubsettrain	-116.7942	86.5132	58785.0002
## IntensityL6:DataSubsettrain	62.8152	95.1384	58785.0000
## IntensityL7:DataSubsettrain	70.2210	92.4463	58785.0004
## IntensityL2:DataSubsetval	-64.5535	103.7912	58785.0012

## IntensityL3:DataSubsetval	-75.3594	95.0871	58785.0022
## IntensityL4:DataSubsetval	-85.9974	108.2498	58785.0037
## IntensityL5:DataSubsetval	-116.1148	103.7487	58785.0022
## IntensityL6:DataSubsetval	64.2819	109.1685	58785.0020
## IntensityL7:DataSubsetval	62.1321	104.9593	58785.0041
## EmotionMana:IntensityL2:DataSubsettrain	171.7204	175.2714	58785.0003
## EmotionPouri:IntensityL2:DataSubsettrain	-28.4098	118.2265	58785.0002
## EmotionRihariha:IntensityL2:DataSubsettrain	214.0793	114.6611	58785.0003
## EmotionRiri:IntensityL2:DataSubsettrain	213.5249	117.8390	58785.0001
## EmotionTeKore:IntensityL2:DataSubsettrain	-30.7328	117.7539	58785.0001
## EmotionUruwehi:IntensityL2:DataSubsettrain	5.7503	113.5362	58785.0003
## EmotionPouri:IntensityL3:DataSubsettrain	106.5866	112.0427	58785.0001
## EmotionRihariha:IntensityL3:DataSubsettrain	133.7939	108.8157	58785.0003
## EmotionRiri:IntensityL3:DataSubsettrain	123.8580	113.1344	58785.0003
## EmotionTeKore:IntensityL3:DataSubsettrain	-114.9626	105.6298	58785.0003
## EmotionUruwehi:IntensityL3:DataSubsettrain	38.0948	112.9127	58785.0002
## EmotionMana:IntensityL4:DataSubsettrain	144.2067	209.9380	58785.0002
## EmotionPouri:IntensityL4:DataSubsettrain	185.8736	129.4078	58785.0000
## EmotionRihariha:IntensityL4:DataSubsettrain	82.5469	128.4928	58785.0001
## EmotionRiri:IntensityL4:DataSubsettrain	86.8963	128.9713	58785.0001
## EmotionTeKore:IntensityL4:DataSubsettrain	66.6511	120.9488	58785.0000
## EmotionUruwehi:IntensityL4:DataSubsettrain	96.7016	118.9361	58785.0006
## EmotionPouri:IntensityL5:DataSubsettrain	202.9605	120.5987	58785.0002
## EmotionRihariha:IntensityL5:DataSubsettrain	358.1277	122.8987	58785.0003
## EmotionRiri:IntensityL5:DataSubsettrain	9.7689	117.8369	58785.0000
## EmotionTeKore:IntensityL5:DataSubsettrain	-0.3798	130.8196	58785.0003
## EmotionUruwehi:IntensityL5:DataSubsettrain	264.0449	128.7241	58785.0003
## EmotionPouri:IntensityL6:DataSubsettrain	-35.1019	135.4273	58785.0001
## EmotionRihariha:IntensityL6:DataSubsettrain	605.5067	129.3811	58785.0000
## EmotionRiri:IntensityL6:DataSubsettrain	-542.3013	131.7092	58784.9999
## EmotionTeKore:IntensityL6:DataSubsettrain	-224.4917	129.1412	58785.0000
## EmotionUruwehi:IntensityL6:DataSubsettrain	202.0492	142.6279	58785.0010
## EmotionPouri:IntensityL7:DataSubsettrain	-115.5478	129.6465	58785.0004
## EmotionRihariha:IntensityL7:DataSubsettrain	37.6677	115.9516	58785.0003
## EmotionRiri:IntensityL7:DataSubsettrain	68.3071	121.1136	58785.0003
## EmotionTeKore:IntensityL7:DataSubsettrain	-171.4834	129.3190	58785.0003
## EmotionUruwehi:IntensityL7:DataSubsettrain	-72.0899	113.0417	58785.0006
## EmotionMana:IntensityL2:DataSubsetval	150.9751	209.8878	58785.0036
## EmotionPouri:IntensityL2:DataSubsetval	-58.5277	136.5198	58785.0025
## EmotionRihariha:IntensityL2:DataSubsetval	196.3584	134.2180	58785.0033
## EmotionRiri:IntensityL2:DataSubsetval	197.7816	136.9391	58785.0014
## EmotionTeKore:IntensityL2:DataSubsetval	-32.3515	137.0715	58785.0011
## EmotionUruwehi:IntensityL2:DataSubsetval	-22.6178	131.7628	58785.0026
## EmotionPouri:IntensityL3:DataSubsetval	92.0633	132.5982	58785.0011
## EmotionRihariha:IntensityL3:DataSubsetval	136.4401	131.3301	58785.0028
## EmotionRiri:IntensityL3:DataSubsetval	107.2472	133.6223	58785.0029
## EmotionTeKore:IntensityL3:DataSubsetval	-108.2633	125.1519	58785.0028
## EmotionUruwehi:IntensityL3:DataSubsetval	34.3255	132.8488	58785.0019
## EmotionMana:IntensityL4:DataSubsetval	98.5884	247.1646	58785.0024
## EmotionPouri:IntensityL4:DataSubsetval	152.1085	148.9703	58785.0018
## EmotionRihariha:IntensityL4:DataSubsetval	65.8953	149.0012	58785.0025
## EmotionRiri:IntensityL4:DataSubsetval	65.1795	149.7083	58785.0026
## EmotionTeKore:IntensityL4:DataSubsetval	49.6040	141.3331	58785.0015
## EmotionUruwehi:IntensityL4:DataSubsetval	71.8765	139.7320	58785.0080

## EmotionPouri:IntensityL5:DataSubsetval	190.0080	143.5954	58785.0026
## EmotionRihariha:IntensityL5:DataSubsetval	372.0462	146.4516	58785.0028
## EmotionRiri:IntensityL5:DataSubsetval	23.4388	141.4931	58785.0000
## EmotionTeKore:IntensityL5:DataSubsetval	19.8746	150.7501	58785.0037
## EmotionUruwehi:IntensityL5:DataSubsetval	251.4557	150.0281	58785.0027
## EmotionPouri:IntensityL6:DataSubsetval	-31.6361	156.4222	58785.0034
## EmotionRihariha:IntensityL6:DataSubsetval	590.5602	151.2484	58785.0007
## EmotionRiri:IntensityL6:DataSubsetval	-538.4383	152.1895	58785.0003
## EmotionTeKore:IntensityL6:DataSubsetval	-204.1388	148.6322	58785.0014
## EmotionUruwehi:IntensityL6:DataSubsetval	236.6508	169.5105	58785.0116
## EmotionPouri:IntensityL7:DataSubsetval	-102.3853	146.8416	58785.0041
## EmotionRihariha:IntensityL7:DataSubsetval	72.8412	133.5449	58785.0034
## EmotionRiri:IntensityL7:DataSubsetval	51.4588	140.0181	58785.0023
## EmotionTeKore:IntensityL7:DataSubsetval	-156.0156	147.1169	58785.0034
## EmotionUruwehi:IntensityL7:DataSubsetval	-41.3341	130.1281	58785.0067
##	t value	Pr(> t)	
## (Intercept)	17.471	8.02e-08	***
## EmotionMana	-18.718	< 2e-16	***
## EmotionPouri	-2.051	0.040274	*
## EmotionRihariha	5.260	1.45e-07	***
## EmotionRiri	-11.614	< 2e-16	***
## EmotionTeKore	-7.726	1.13e-14	***
## EmotionUruwehi	-14.327	< 2e-16	***
## IntensityL2	-0.556	0.578119	
## IntensityL3	0.084	0.933150	
## IntensityL4	-4.589	4.45e-06	***
## IntensityL5	-7.145	9.11e-13	***
## IntensityL6	27.921	< 2e-16	***
## IntensityL7	0.963	0.335570	
## DataSubsettrain	1.228	0.219391	
## DataSubsetval	0.906	0.364749	
## EmotionMana:IntensityL2	13.794	< 2e-16	***
## EmotionPouri:IntensityL2	-1.413	0.157592	
## EmotionRihariha:IntensityL2	-3.956	7.62e-05	***
## EmotionRiri:IntensityL2	1.226	0.220101	
## EmotionTeKore:IntensityL2	-2.294	0.021817	*
## EmotionUruwehi:IntensityL2	5.104	3.34e-07	***
## EmotionPouri:IntensityL3	-2.133	0.032923	*
## EmotionRihariha:IntensityL3	-2.365	0.018017	*
## EmotionRiri:IntensityL3	-3.322	0.000894	***
## EmotionTeKore:IntensityL3	4.663	3.12e-06	***
## EmotionUruwehi:IntensityL3	4.113	3.92e-05	***
## EmotionMana:IntensityL4	14.169	< 2e-16	***
## EmotionPouri:IntensityL4	0.215	0.829760	
## EmotionRihariha:IntensityL4	-5.615	1.97e-08	***
## EmotionRiri:IntensityL4	10.179	< 2e-16	***
## EmotionTeKore:IntensityL4	4.916	8.83e-07	***
## EmotionUruwehi:IntensityL4	5.946	2.77e-09	***
## EmotionPouri:IntensityL5	8.419	< 2e-16	***
## EmotionRihariha:IntensityL5	10.114	< 2e-16	***
## EmotionRiri:IntensityL5	14.105	< 2e-16	***
## EmotionTeKore:IntensityL5	3.789	0.000151	***
## EmotionUruwehi:IntensityL5	9.621	< 2e-16	***
## EmotionPouri:IntensityL6	-6.168	6.97e-10	***

## EmotionRihariha:IntensityL6	-8.458	< 2e-16	***
## EmotionRiri:IntensityL6	0.770	0.441401	
## EmotionTeKore:IntensityL6	-14.058	< 2e-16	***
## EmotionUruwehi:IntensityL6	4.883	1.05e-06	***
## EmotionPouri:IntensityL7	1.799	0.071982	.
## EmotionRihariha:IntensityL7	-0.168	0.866744	
## EmotionRiri:IntensityL7	9.567	< 2e-16	***
## EmotionTeKore:IntensityL7	6.459	1.06e-10	***
## EmotionUruwehi:IntensityL7	13.498	< 2e-16	***
## EmotionMana:DataSubsettrain	-1.248	0.211860	
## EmotionPouri:DataSubsettrain	-1.864	0.062290	.
## EmotionRihariha:DataSubsettrain	-2.543	0.010994	*
## EmotionRiri:DataSubsettrain	-1.462	0.143632	
## EmotionTeKore:DataSubsettrain	0.552	0.581123	
## EmotionUruwehi:DataSubsettrain	-0.781	0.435042	
## EmotionMana:DataSubsetval	-0.970	0.331883	
## EmotionPouri:DataSubsetval	-1.458	0.144736	
## EmotionRihariha:DataSubsetval	-2.089	0.036694	*
## EmotionRiri:DataSubsetval	-1.107	0.268135	
## EmotionTeKore:DataSubsetval	0.342	0.732216	
## EmotionUruwehi:DataSubsetval	-0.537	0.591614	
## IntensityL2:DataSubsettrain	-0.904	0.366007	
## IntensityL3:DataSubsettrain	-1.091	0.275263	
## IntensityL4:DataSubsettrain	-1.133	0.257368	
## IntensityL5:DataSubsettrain	-1.350	0.177016	
## IntensityL6:DataSubsettrain	0.660	0.509096	
## IntensityL7:DataSubsettrain	0.760	0.447504	
## IntensityL2:DataSubsetval	-0.622	0.533974	
## IntensityL3:DataSubsetval	-0.793	0.428055	
## IntensityL4:DataSubsetval	-0.794	0.426946	
## IntensityL5:DataSubsetval	-1.119	0.263063	
## IntensityL6:DataSubsetval	0.589	0.555976	
## IntensityL7:DataSubsetval	0.592	0.553877	
## EmotionMana:IntensityL2:DataSubsettrain	0.980	0.327219	
## EmotionPouri:IntensityL2:DataSubsettrain	-0.240	0.810099	
## EmotionRihariha:IntensityL2:DataSubsettrain	1.867	0.061898	.
## EmotionRiri:IntensityL2:DataSubsettrain	1.812	0.069991	.
## EmotionTeKore:IntensityL2:DataSubsettrain	-0.261	0.794100	
## EmotionUruwehi:IntensityL2:DataSubsettrain	0.051	0.959607	
## EmotionPouri:IntensityL3:DataSubsettrain	0.951	0.341454	
## EmotionRihariha:IntensityL3:DataSubsettrain	1.230	0.218872	
## EmotionRiri:IntensityL3:DataSubsettrain	1.095	0.273615	
## EmotionTeKore:IntensityL3:DataSubsettrain	-1.088	0.276443	
## EmotionUruwehi:IntensityL3:DataSubsettrain	0.337	0.735830	
## EmotionMana:IntensityL4:DataSubsettrain	0.687	0.492148	
## EmotionPouri:IntensityL4:DataSubsettrain	1.436	0.150911	
## EmotionRihariha:IntensityL4:DataSubsettrain	0.642	0.520600	
## EmotionRiri:IntensityL4:DataSubsettrain	0.674	0.500464	
## EmotionTeKore:IntensityL4:DataSubsettrain	0.551	0.581589	
## EmotionUruwehi:IntensityL4:DataSubsettrain	0.813	0.416190	
## EmotionPouri:IntensityL5:DataSubsettrain	1.683	0.092392	.
## EmotionRihariha:IntensityL5:DataSubsettrain	2.914	0.003570	**
## EmotionRiri:IntensityL5:DataSubsettrain	0.083	0.933930	
## EmotionTeKore:IntensityL5:DataSubsettrain	-0.003	0.997684	

```

## EmotionUruwehi:IntensityL5:DataSubsettrain    2.051 0.040247 *
## EmotionPouri:IntensityL6:DataSubsettrain     -0.259 0.795486
## EmotionRihariha:IntensityL6:DataSubsettrain   4.680 2.87e-06 ***
## EmotionRiri:IntensityL6:DataSubsettrain       -4.117 3.84e-05 ***
## EmotionTeKore:IntensityL6:DataSubsettrain     -1.738 0.082156 .
## EmotionUruwehi:IntensityL6:DataSubsettrain    1.417 0.156600
## EmotionPouri:IntensityL7:DataSubsettrain      -0.891 0.372797
## EmotionRihariha:IntensityL7:DataSubsettrain    0.325 0.745291
## EmotionRiri:IntensityL7:DataSubsettrain        0.564 0.572762
## EmotionTeKore:IntensityL7:DataSubsettrain     -1.326 0.184828
## EmotionUruwehi:IntensityL7:DataSubsettrain    -0.638 0.523653
## EmotionMana:IntensityL2:DataSubsetval         0.719 0.471951
## EmotionPouri:IntensityL2:DataSubsetval        -0.429 0.668134
## EmotionRihariha:IntensityL2:DataSubsetval     1.463 0.143478
## EmotionRiri:IntensityL2:DataSubsetval         1.444 0.148659
## EmotionTeKore:IntensityL2:DataSubsetval       -0.236 0.813419
## EmotionUruwehi:IntensityL2:DataSubsetval      -0.172 0.863709
## EmotionPouri:IntensityL3:DataSubsetval        0.694 0.487495
## EmotionRihariha:IntensityL3:DataSubsetval     1.039 0.298851
## EmotionRiri:IntensityL3:DataSubsetval         0.803 0.422201
## EmotionTeKore:IntensityL3:DataSubsetval       -0.865 0.387012
## EmotionUruwehi:IntensityL3:DataSubsetval      0.258 0.796114
## EmotionMana:IntensityL4:DataSubsetval         0.399 0.689985
## EmotionPouri:IntensityL4:DataSubsetval        1.021 0.307227
## EmotionRihariha:IntensityL4:DataSubsetval     0.442 0.658312
## EmotionRiri:IntensityL4:DataSubsetval         0.435 0.663291
## EmotionTeKore:IntensityL4:DataSubsetval       0.351 0.725611
## EmotionUruwehi:IntensityL4:DataSubsetval      0.514 0.606982
## EmotionPouri:IntensityL5:DataSubsetval        1.323 0.185768
## EmotionRihariha:IntensityL5:DataSubsetval     2.540 0.011075 *
## EmotionRiri:IntensityL5:DataSubsetval         0.166 0.868430
## EmotionTeKore:IntensityL5:DataSubsetval       0.132 0.895113
## EmotionUruwehi:IntensityL5:DataSubsetval      1.676 0.093732 .
## EmotionPouri:IntensityL6:DataSubsetval        -0.202 0.839724
## EmotionRihariha:IntensityL6:DataSubsetval     3.905 9.45e-05 ***
## EmotionRiri:IntensityL6:DataSubsetval        -3.538 0.000404 ***
## EmotionTeKore:IntensityL6:DataSubsetval       -1.373 0.169618
## EmotionUruwehi:IntensityL6:DataSubsetval      1.396 0.162695
## EmotionPouri:IntensityL7:DataSubsetval        -0.697 0.485649
## EmotionRihariha:IntensityL7:DataSubsetval     0.545 0.585451
## EmotionRiri:IntensityL7:DataSubsetval         0.368 0.713236
## EmotionTeKore:IntensityL7:DataSubsetval      -1.060 0.288928
## EmotionUruwehi:IntensityL7:DataSubsetval     -0.318 0.750758
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

##
## Correlation matrix not shown by default, as p = 135 > 12.
## Use print(x, correlation=TRUE) or
##     vcov(x)         if you need it

## fit warnings:
## fixed-effect model matrix is rank deficient so dropping 12 columns / coefficients

```

Wiri Correlation Model

```
wiri_model_correlation <- lmerTest::lmer(Correlation ~ Emotion * Intensity * DataSubset + (1|Fold), data)

## fixed-effect model matrix is rank deficient so dropping 12 columns / coefficients
summary(wiri_model_correlation)

## Linear mixed model fit by maximum likelihood . t-tests use Satterthwaite's
## method [lmerModLmerTest]
## Formula: Correlation ~ Emotion * Intensity * DataSubset + (1 | Fold)
## Data: all_data[all_data$Dataset == "Wiri", ]
##
##          AIC          BIC    logLik deviance df.resid
## 66051.9    67282.4 -32889.0  65777.9     58653
##
## Scaled residuals:
##      Min       1Q   Median       3Q      Max
## -2.52937 -0.69355  0.00101  0.71117  2.39984
##
## Random effects:
## Groups Name Variance Std.Dev.
## Fold (Intercept) 6.193e-05 0.007869
## Residual 1.792e-01 0.423341
## Number of obs: 58790, groups: Fold, 5
##
## Fixed effects:
##
##              Estimate Std. Error      df
## (Intercept)    6.507e-02  2.942e-02 1.250e+04
## EmotionMana   -2.022e-02  7.729e-02 5.878e+04
## EmotionPouri  -3.233e-02  4.183e-02 5.878e+04
## EmotionRihariha -9.066e-02  3.880e-02 5.878e+04
## EmotionRiri    -6.234e-03  3.928e-02 5.878e+04
## EmotionTeKore  -6.756e-02  4.483e-02 5.878e+04
## EmotionUruwehi -1.027e-01  3.716e-02 5.878e+04
## IntensityL2    -3.730e-03  5.334e-02 5.878e+04
## IntensityL3    -7.807e-02  4.619e-02 5.878e+04
## IntensityL4    -4.269e-02  5.562e-02 5.878e+04
## IntensityL5     2.949e-02  5.060e-02 5.878e+04
## IntensityL6    -7.003e-02  5.695e-02 5.878e+04
## IntensityL7    -4.037e-02  5.562e-02 5.878e+04
## DataSubsettrain -1.705e-02  3.163e-02 5.879e+04
## DataSubsetval   9.633e-03  3.796e-02 5.879e+04
## EmotionMana:IntensityL2  6.384e-02  1.026e-01 5.878e+04
## EmotionPouri:IntensityL2 -8.806e-02  7.055e-02 5.878e+04
## EmotionRihariha:IntensityL2 -1.811e-02  6.795e-02 5.878e+04
## EmotionRiri:IntensityL2 -1.772e-02  7.009e-02 5.878e+04
## EmotionTeKore:IntensityL2  3.812e-02  6.998e-02 5.878e+04
## EmotionUruwehi:IntensityL2  4.849e-02  6.758e-02 5.878e+04
## EmotionPouri:IntensityL3  7.398e-02  6.601e-02 5.878e+04
## EmotionRihariha:IntensityL3  1.416e-01  6.341e-02 5.878e+04
## EmotionRiri:IntensityL3 -4.879e-02  6.672e-02 5.878e+04
## EmotionTeKore:IntensityL3  1.492e-01  6.219e-02 5.878e+04
## EmotionUruwehi:IntensityL3  9.939e-02  6.673e-02 5.878e+04
## EmotionMana:IntensityL4 -1.882e-01  1.240e-01 5.878e+04
```

## EmotionPouri:IntensityL4	-3.573e-02	7.734e-02	5.878e+04
## EmotionRihariha:IntensityL4	1.427e-02	7.651e-02	5.878e+04
## EmotionRiri:IntensityL4	1.972e-01	7.676e-02	5.878e+04
## EmotionTeKore:IntensityL4	3.792e-02	7.174e-02	5.878e+04
## EmotionUruwehi:IntensityL4	1.344e-01	7.034e-02	5.878e+04
## EmotionPouri:IntensityL5	4.072e-02	7.082e-02	5.878e+04
## EmotionRihariha:IntensityL5	-5.481e-02	7.213e-02	5.878e+04
## EmotionRiri:IntensityL5	1.117e-01	6.887e-02	5.878e+04
## EmotionTeKore:IntensityL5	1.202e-01	7.814e-02	5.878e+04
## EmotionUruwehi:IntensityL5	1.881e-02	7.645e-02	5.878e+04
## EmotionPouri:IntensityL6	1.329e-01	8.080e-02	5.878e+04
## EmotionRihariha:IntensityL6	1.965e-01	7.672e-02	5.878e+04
## EmotionRiri:IntensityL6	-5.011e-02	7.857e-02	5.878e+04
## EmotionTeKore:IntensityL6	6.158e-02	7.719e-02	5.878e+04
## EmotionUruwehi:IntensityL6	2.071e-01	8.384e-02	5.878e+04
## EmotionPouri:IntensityL7	-3.971e-02	7.809e-02	5.878e+04
## EmotionRihariha:IntensityL7	6.618e-02	6.928e-02	5.878e+04
## EmotionRiri:IntensityL7	2.381e-02	7.223e-02	5.878e+04
## EmotionTeKore:IntensityL7	2.167e-03	7.773e-02	5.878e+04
## EmotionUruwehi:IntensityL7	1.735e-01	6.756e-02	5.878e+04
## EmotionMana:DataSubsettrain	-4.662e-02	8.463e-02	5.879e+04
## EmotionPouri:DataSubsettrain	6.067e-02	4.466e-02	5.879e+04
## EmotionRihariha:DataSubsettrain	1.009e-01	4.188e-02	5.879e+04
## EmotionRiri:DataSubsettrain	-7.148e-03	4.238e-02	5.879e+04
## EmotionTeKore:DataSubsettrain	-2.706e-02	4.800e-02	5.879e+04
## EmotionUruwehi:DataSubsettrain	7.626e-02	4.007e-02	5.879e+04
## EmotionMana:DataSubsetval	-8.127e-03	1.036e-01	5.879e+04
## EmotionPouri:DataSubsetval	3.746e-04	5.226e-02	5.879e+04
## EmotionRihariha:DataSubsetval	7.703e-02	5.002e-02	5.879e+04
## EmotionRiri:DataSubsetval	-6.547e-03	5.056e-02	5.879e+04
## EmotionTeKore:DataSubsetval	6.313e-04	5.647e-02	5.879e+04
## EmotionUruwehi:DataSubsetval	5.220e-02	4.777e-02	5.879e+04
## IntensityL2:DataSubsettrain	-3.435e-02	5.668e-02	5.879e+04
## IntensityL3:DataSubsettrain	8.359e-02	5.006e-02	5.879e+04
## IntensityL4:DataSubsettrain	6.102e-02	5.911e-02	5.879e+04
## IntensityL5:DataSubsettrain	-7.523e-02	5.475e-02	5.879e+04
## IntensityL6:DataSubsettrain	6.063e-02	6.021e-02	5.879e+04
## IntensityL7:DataSubsettrain	1.969e-02	5.851e-02	5.879e+04
## IntensityL2:DataSubsetval	-5.013e-02	6.569e-02	5.879e+04
## IntensityL3:DataSubsetval	5.467e-02	6.018e-02	5.879e+04
## IntensityL4:DataSubsetval	3.765e-02	6.851e-02	5.879e+04
## IntensityL5:DataSubsetval	-5.233e-02	6.566e-02	5.879e+04
## IntensityL6:DataSubsetval	1.521e-02	6.909e-02	5.879e+04
## IntensityL7:DataSubsetval	-1.061e-02	6.643e-02	5.879e+04
## EmotionMana:IntensityL2:DataSubsettrain	8.147e-02	1.109e-01	5.879e+04
## EmotionPouri:IntensityL2:DataSubsettrain	7.929e-02	7.483e-02	5.879e+04
## EmotionRihariha:IntensityL2:DataSubsettrain	-1.864e-02	7.257e-02	5.879e+04
## EmotionRiri:IntensityL2:DataSubsettrain	4.784e-02	7.458e-02	5.879e+04
## EmotionTeKore:IntensityL2:DataSubsettrain	2.678e-02	7.453e-02	5.879e+04
## EmotionUruwehi:IntensityL2:DataSubsettrain	-3.340e-02	7.186e-02	5.879e+04
## EmotionPouri:IntensityL3:DataSubsettrain	-1.420e-01	7.091e-02	5.879e+04
## EmotionRihariha:IntensityL3:DataSubsettrain	-2.006e-01	6.887e-02	5.879e+04
## EmotionRiri:IntensityL3:DataSubsettrain	3.203e-02	7.160e-02	5.879e+04
## EmotionTeKore:IntensityL3:DataSubsettrain	-3.909e-02	6.685e-02	5.879e+04

## EmotionUruwehi:IntensityL3:DataSubsettrain	-8.611e-02	7.146e-02	5.879e+04
## EmotionMana:IntensityL4:DataSubsettrain	1.869e-01	1.329e-01	5.879e+04
## EmotionPouri:IntensityL4:DataSubsettrain	-4.757e-02	8.190e-02	5.879e+04
## EmotionRihariha:IntensityL4:DataSubsettrain	-3.097e-02	8.132e-02	5.879e+04
## EmotionRiri:IntensityL4:DataSubsettrain	-2.672e-01	8.163e-02	5.879e+04
## EmotionTeKore:IntensityL4:DataSubsettrain	9.391e-03	7.655e-02	5.879e+04
## EmotionUruwehi:IntensityL4:DataSubsettrain	-1.397e-01	7.528e-02	5.879e+04
## EmotionPouri:IntensityL5:DataSubsettrain	-7.168e-02	7.633e-02	5.879e+04
## EmotionRihariha:IntensityL5:DataSubsettrain	7.686e-02	7.778e-02	5.879e+04
## EmotionRiri:IntensityL5:DataSubsettrain	-7.541e-02	7.458e-02	5.878e+04
## EmotionTeKore:IntensityL5:DataSubsettrain	-5.998e-02	8.280e-02	5.879e+04
## EmotionUruwehi:IntensityL5:DataSubsettrain	2.120e-02	8.147e-02	5.879e+04
## EmotionPouri:IntensityL6:DataSubsettrain	-1.250e-01	8.571e-02	5.879e+04
## EmotionRihariha:IntensityL6:DataSubsettrain	-1.910e-01	8.189e-02	5.879e+04
## EmotionRiri:IntensityL6:DataSubsettrain	7.555e-02	8.336e-02	5.879e+04
## EmotionTeKore:IntensityL6:DataSubsettrain	-2.264e-02	8.173e-02	5.879e+04
## EmotionUruwehi:IntensityL6:DataSubsettrain	-1.900e-01	9.027e-02	5.879e+04
## EmotionPouri:IntensityL7:DataSubsettrain	2.466e-02	8.205e-02	5.879e+04
## EmotionRihariha:IntensityL7:DataSubsettrain	-7.183e-02	7.339e-02	5.879e+04
## EmotionRiri:IntensityL7:DataSubsettrain	1.740e-02	7.665e-02	5.879e+04
## EmotionTeKore:IntensityL7:DataSubsettrain	8.393e-02	8.185e-02	5.879e+04
## EmotionUruwehi:IntensityL7:DataSubsettrain	-1.062e-01	7.154e-02	5.879e+04
## EmotionMana:IntensityL2:DataSubsetval	-3.622e-02	1.328e-01	5.879e+04
## EmotionPouri:IntensityL2:DataSubsetval	1.027e-01	8.640e-02	5.879e+04
## EmotionRihariha:IntensityL2:DataSubsetval	-4.279e-02	8.495e-02	5.879e+04
## EmotionRiri:IntensityL2:DataSubsetval	-1.776e-02	8.667e-02	5.879e+04
## EmotionTeKore:IntensityL2:DataSubsetval	-8.424e-03	8.675e-02	5.879e+04
## EmotionUruwehi:IntensityL2:DataSubsetval	-1.055e-02	8.339e-02	5.879e+04
## EmotionPouri:IntensityL3:DataSubsetval	-8.583e-02	8.392e-02	5.879e+04
## EmotionRihariha:IntensityL3:DataSubsetval	-1.492e-01	8.312e-02	5.879e+04
## EmotionRiri:IntensityL3:DataSubsetval	4.352e-02	8.457e-02	5.879e+04
## EmotionTeKore:IntensityL3:DataSubsetval	-5.769e-02	7.921e-02	5.879e+04
## EmotionUruwehi:IntensityL3:DataSubsetval	-2.129e-02	8.408e-02	5.879e+04
## EmotionMana:IntensityL4:DataSubsetval	1.021e-01	1.564e-01	5.879e+04
## EmotionPouri:IntensityL4:DataSubsetval	1.941e-02	9.428e-02	5.879e+04
## EmotionRihariha:IntensityL4:DataSubsetval	-1.422e-02	9.430e-02	5.879e+04
## EmotionRiri:IntensityL4:DataSubsetval	-2.568e-01	9.475e-02	5.879e+04
## EmotionTeKore:IntensityL4:DataSubsetval	-2.225e-02	8.945e-02	5.879e+04
## EmotionUruwehi:IntensityL4:DataSubsetval	-1.056e-01	8.844e-02	5.879e+04
## EmotionPouri:IntensityL5:DataSubsetval	-2.646e-02	9.088e-02	5.879e+04
## EmotionRihariha:IntensityL5:DataSubsetval	6.210e-02	9.269e-02	5.879e+04
## EmotionRiri:IntensityL5:DataSubsetval	-8.836e-02	8.955e-02	5.879e+04
## EmotionTeKore:IntensityL5:DataSubsetval	-1.214e-01	9.541e-02	5.879e+04
## EmotionUruwehi:IntensityL5:DataSubsetval	-1.827e-02	9.495e-02	5.879e+04
## EmotionPouri:IntensityL6:DataSubsetval	-4.391e-02	9.900e-02	5.879e+04
## EmotionRihariha:IntensityL6:DataSubsetval	-1.532e-01	9.573e-02	5.879e+04
## EmotionRiri:IntensityL6:DataSubsetval	1.067e-01	9.632e-02	5.879e+04
## EmotionTeKore:IntensityL6:DataSubsetval	-3.045e-02	9.407e-02	5.879e+04
## EmotionUruwehi:IntensityL6:DataSubsetval	-1.396e-01	1.073e-01	5.879e+04
## EmotionPouri:IntensityL7:DataSubsetval	5.950e-02	9.294e-02	5.879e+04
## EmotionRihariha:IntensityL7:DataSubsetval	-4.039e-02	8.452e-02	5.879e+04
## EmotionRiri:IntensityL7:DataSubsetval	-1.294e-02	8.862e-02	5.879e+04
## EmotionTeKore:IntensityL7:DataSubsetval	5.608e-02	9.311e-02	5.879e+04
## EmotionUruwehi:IntensityL7:DataSubsetval	-9.318e-02	8.236e-02	5.879e+04

	t value	Pr(> t)	
## (Intercept)	2.211	0.02702	*
## EmotionMana	-0.262	0.79361	
## EmotionPouri	-0.773	0.43962	
## EmotionRihariha	-2.337	0.01945	*
## EmotionRiri	-0.159	0.87389	
## EmotionTeKore	-1.507	0.13182	
## EmotionUruwehi	-2.764	0.00572	**
## IntensityL2	-0.070	0.94424	
## IntensityL3	-1.690	0.09100	.
## IntensityL4	-0.768	0.44274	
## IntensityL5	0.583	0.55996	
## IntensityL6	-1.230	0.21881	
## IntensityL7	-0.726	0.46796	
## DataSubsettrain	-0.539	0.58973	
## DataSubsetval	0.254	0.79967	
## EmotionMana:IntensityL2	0.622	0.53380	
## EmotionPouri:IntensityL2	-1.248	0.21194	
## EmotionRihariha:IntensityL2	-0.267	0.78983	
## EmotionRiri:IntensityL2	-0.253	0.80038	
## EmotionTeKore:IntensityL2	0.545	0.58589	
## EmotionUruwehi:IntensityL2	0.718	0.47307	
## EmotionPouri:IntensityL3	1.121	0.26243	
## EmotionRihariha:IntensityL3	2.232	0.02560	*
## EmotionRiri:IntensityL3	-0.731	0.46467	
## EmotionTeKore:IntensityL3	2.399	0.01644	*
## EmotionUruwehi:IntensityL3	1.489	0.13639	
## EmotionMana:IntensityL4	-1.518	0.12914	
## EmotionPouri:IntensityL4	-0.462	0.64412	
## EmotionRihariha:IntensityL4	0.187	0.85204	
## EmotionRiri:IntensityL4	2.569	0.01021	*
## EmotionTeKore:IntensityL4	0.529	0.59709	
## EmotionUruwehi:IntensityL4	1.910	0.05615	.
## EmotionPouri:IntensityL5	0.575	0.56532	
## EmotionRihariha:IntensityL5	-0.760	0.44739	
## EmotionRiri:IntensityL5	1.622	0.10480	
## EmotionTeKore:IntensityL5	1.538	0.12410	
## EmotionUruwehi:IntensityL5	0.246	0.80568	
## EmotionPouri:IntensityL6	1.645	0.10001	
## EmotionRihariha:IntensityL6	2.561	0.01042	*
## EmotionRiri:IntensityL6	-0.638	0.52358	
## EmotionTeKore:IntensityL6	0.798	0.42500	
## EmotionUruwehi:IntensityL6	2.470	0.01350	*
## EmotionPouri:IntensityL7	-0.508	0.61111	
## EmotionRihariha:IntensityL7	0.955	0.33942	
## EmotionRiri:IntensityL7	0.330	0.74171	
## EmotionTeKore:IntensityL7	0.028	0.97776	
## EmotionUruwehi:IntensityL7	2.568	0.01023	*
## EmotionMana:DataSubsettrain	-0.551	0.58178	
## EmotionPouri:DataSubsettrain	1.358	0.17438	
## EmotionRihariha:DataSubsettrain	2.408	0.01604	*
## EmotionRiri:DataSubsettrain	-0.169	0.86606	
## EmotionTeKore:DataSubsettrain	-0.564	0.57295	
## EmotionUruwehi:DataSubsettrain	1.903	0.05705	.

## EmotionMana:DataSubsetval	-0.078	0.93747	
## EmotionPouri:DataSubsetval	0.007	0.99428	
## EmotionRihariha:DataSubsetval	1.540	0.12355	
## EmotionRiri:DataSubsetval	-0.129	0.89697	
## EmotionTeKore:DataSubsetval	0.011	0.99108	
## EmotionUruwehi:DataSubsetval	1.093	0.27452	
## IntensityL2:DataSubsettrain	-0.606	0.54453	
## IntensityL3:DataSubsettrain	1.670	0.09494	.
## IntensityL4:DataSubsettrain	1.032	0.30193	
## IntensityL5:DataSubsettrain	-1.374	0.16948	
## IntensityL6:DataSubsettrain	1.007	0.31398	
## IntensityL7:DataSubsettrain	0.337	0.73643	
## IntensityL2:DataSubsetval	-0.763	0.44538	
## IntensityL3:DataSubsetval	0.908	0.36370	
## IntensityL4:DataSubsetval	0.549	0.58269	
## IntensityL5:DataSubsetval	-0.797	0.42551	
## IntensityL6:DataSubsetval	0.220	0.82578	
## IntensityL7:DataSubsetval	-0.160	0.87314	
## EmotionMana:IntensityL2:DataSubsettrain	0.734	0.46267	
## EmotionPouri:IntensityL2:DataSubsettrain	1.060	0.28933	
## EmotionRihariha:IntensityL2:DataSubsettrain	-0.257	0.79734	
## EmotionRiri:IntensityL2:DataSubsettrain	0.641	0.52126	
## EmotionTeKore:IntensityL2:DataSubsettrain	0.359	0.71939	
## EmotionUruwehi:IntensityL2:DataSubsettrain	-0.465	0.64209	
## EmotionPouri:IntensityL3:DataSubsettrain	-2.002	0.04530	*
## EmotionRihariha:IntensityL3:DataSubsettrain	-2.913	0.00358	**
## EmotionRiri:IntensityL3:DataSubsettrain	0.447	0.65466	
## EmotionTeKore:IntensityL3:DataSubsettrain	-0.585	0.55873	
## EmotionUruwehi:IntensityL3:DataSubsettrain	-1.205	0.22821	
## EmotionMana:IntensityL4:DataSubsettrain	1.406	0.15960	
## EmotionPouri:IntensityL4:DataSubsettrain	-0.581	0.56141	
## EmotionRihariha:IntensityL4:DataSubsettrain	-0.381	0.70336	
## EmotionRiri:IntensityL4:DataSubsettrain	-3.274	0.00106	**
## EmotionTeKore:IntensityL4:DataSubsettrain	0.123	0.90237	
## EmotionUruwehi:IntensityL4:DataSubsettrain	-1.856	0.06345	.
## EmotionPouri:IntensityL5:DataSubsettrain	-0.939	0.34768	
## EmotionRihariha:IntensityL5:DataSubsettrain	0.988	0.32309	
## EmotionRiri:IntensityL5:DataSubsettrain	-1.011	0.31199	
## EmotionTeKore:IntensityL5:DataSubsettrain	-0.724	0.46884	
## EmotionUruwehi:IntensityL5:DataSubsettrain	0.260	0.79472	
## EmotionPouri:IntensityL6:DataSubsettrain	-1.458	0.14481	
## EmotionRihariha:IntensityL6:DataSubsettrain	-2.333	0.01965	*
## EmotionRiri:IntensityL6:DataSubsettrain	0.906	0.36479	
## EmotionTeKore:IntensityL6:DataSubsettrain	-0.277	0.78178	
## EmotionUruwehi:IntensityL6:DataSubsettrain	-2.105	0.03530	*
## EmotionPouri:IntensityL7:DataSubsettrain	0.301	0.76375	
## EmotionRihariha:IntensityL7:DataSubsettrain	-0.979	0.32766	
## EmotionRiri:IntensityL7:DataSubsettrain	0.227	0.82043	
## EmotionTeKore:IntensityL7:DataSubsettrain	1.026	0.30513	
## EmotionUruwehi:IntensityL7:DataSubsettrain	-1.485	0.13766	
## EmotionMana:IntensityL2:DataSubsetval	-0.273	0.78512	
## EmotionPouri:IntensityL2:DataSubsetval	1.188	0.23473	
## EmotionRihariha:IntensityL2:DataSubsetval	-0.504	0.61446	
## EmotionRiri:IntensityL2:DataSubsetval	-0.205	0.83760	

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## EmotionTeKore:IntensityL2:DataSubsetval      -0.097  0.92265
## EmotionUruwehi:IntensityL2:DataSubsetval     -0.126  0.89936
## EmotionPouri:IntensityL3:DataSubsetval       -1.023  0.30644
## EmotionRihariha:IntensityL3:DataSubsetval    -1.794  0.07275 .
## EmotionRiri:IntensityL3:DataSubsetval        0.515  0.60681
## EmotionTeKore:IntensityL3:DataSubsetval     -0.728  0.46644
## EmotionUruwehi:IntensityL3:DataSubsetval    -0.253  0.80013
## EmotionMana:IntensityL4:DataSubsetval        0.653  0.51391
## EmotionPouri:IntensityL4:DataSubsetval       0.206  0.83688
## EmotionRihariha:IntensityL4:DataSubsetval    -0.151  0.88014
## EmotionRiri:IntensityL4:DataSubsetval       -2.710  0.00673 **
## EmotionTeKore:IntensityL4:DataSubsetval     -0.249  0.80357
## EmotionUruwehi:IntensityL4:DataSubsetval    -1.194  0.23244
## EmotionPouri:IntensityL5:DataSubsetval      -0.291  0.77090
## EmotionRihariha:IntensityL5:DataSubsetval    0.670  0.50289
## EmotionRiri:IntensityL5:DataSubsetval       -0.987  0.32382
## EmotionTeKore:IntensityL5:DataSubsetval     -1.273  0.20311
## EmotionUruwehi:IntensityL5:DataSubsetval    -0.192  0.84741
## EmotionPouri:IntensityL6:DataSubsetval      -0.443  0.65742
## EmotionRihariha:IntensityL6:DataSubsetval   -1.600  0.10955
## EmotionRiri:IntensityL6:DataSubsetval       1.108  0.26786
## EmotionTeKore:IntensityL6:DataSubsetval     -0.324  0.74614
## EmotionUruwehi:IntensityL6:DataSubsetval    -1.301  0.19327
## EmotionPouri:IntensityL7:DataSubsetval      0.640  0.52206
## EmotionRihariha:IntensityL7:DataSubsetval   -0.478  0.63273
## EmotionRiri:IntensityL7:DataSubsetval       -0.146  0.88392
## EmotionTeKore:IntensityL7:DataSubsetval     0.602  0.54696
## EmotionUruwehi:IntensityL7:DataSubsetval   -1.131  0.25790
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

##
## Correlation matrix not shown by default, as p = 135 > 12.
## Use print(x, correlation=TRUE) or
##     vcov(x)           if you need it

## fit warnings:
## fixed-effect model matrix is rank deficient so dropping 12 columns / coefficients
```

eMotion MSE Model

```
eMotion_model_mse <- lmerTest::lmer(MSE ~ Emotion * DataSubset + (1|Fold), data = all_data[all_data$Dataset == "eMotion", ])
```

```
summary(eMotion_model_mse)
```

```
## Linear mixed model fit by maximum likelihood . t-tests use Satterthwaite's
## method [lmerModLmerTest]
## Formula: MSE ~ Emotion * DataSubset + (1 | Fold)
## Data: all_data[all_data$Dataset == "eMotion", ]
##
##           AIC          BIC      logLik   deviance  df.resid
## 1148636.4 1148767.8 -574304.2 1148608.4      88086
##
## Scaled residuals:
```

```

##      Min      1Q  Median      3Q      Max
## -0.7879 -0.4384 -0.2852  0.0672 26.6518
##
## Random effects:
##   Groups   Name      Variance Std.Dev.
##   Fold     (Intercept)  218.5    14.78
##   Residual                26888.1  163.98
## Number of obs: 88100, groups: Fold, 4
##
## Fixed effects:
##                                     Estimate Std. Error      df t value
## (Intercept)                      101.437      8.198    5.989  12.373
## EmotionConversation_2              -5.524      5.032 88096.000  -1.098
## EmotionConversation_3              -3.810      4.868 88096.000  -0.783
## EmotionConversation_4              -4.361      5.015 88096.000  -0.870
## DataSubsettrain                    -11.397      3.777 88096.001  -3.018
## DataSubsetval                      3.499      4.386 88096.013   0.798
## EmotionConversation_2:DataSubsettrain  5.824      5.350 88096.001   1.089
## EmotionConversation_3:DataSubsettrain  2.982      5.201 88096.001   0.573
## EmotionConversation_4:DataSubsettrain  4.411      5.351 88096.001   0.824
## EmotionConversation_2:DataSubsetval    6.271      6.206 88096.012   1.011
## EmotionConversation_3:DataSubsetval    2.570      6.096 88096.012   0.422
## EmotionConversation_4:DataSubsetval    2.474      6.241 88096.016   0.396
##                                     Pr(>|t|)
## (Intercept)                      1.72e-05 ***
## EmotionConversation_2              0.27226
## EmotionConversation_3              0.43383
## EmotionConversation_4              0.38454
## DataSubsettrain                    0.00255 **
## DataSubsetval                      0.42491
## EmotionConversation_2:DataSubsettrain 0.27632
## EmotionConversation_3:DataSubsettrain 0.56641
## EmotionConversation_4:DataSubsettrain 0.40984
## EmotionConversation_2:DataSubsetval    0.31222
## EmotionConversation_3:DataSubsetval    0.67330
## EmotionConversation_4:DataSubsetval    0.69182
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##              (Intr) EmtC_2 EmtC_3 EmtC_4 DtSbstt DtSbstv
## EmtnCnvrstn_2      -0.305
## EmtnCnvrstn_3      -0.315  0.514
## EmtnCnvrstn_4      -0.306  0.499  0.516
## DataSbsttrn        -0.407  0.662  0.685  0.665
## DataSbstv          -0.350  0.570  0.590  0.572  0.760
## EmtnCnvrstn_2:DtSbstt 0.287 -0.941 -0.483 -0.469 -0.706 -0.536
## EmtnCnvrstn_3:DtSbstt 0.295 -0.481 -0.936 -0.483 -0.726 -0.552
## EmtnCnvrstn_4:DtSbstt 0.287 -0.467 -0.483 -0.937 -0.706 -0.536
## EmtnCnvrstn_2:DtSbstv 0.247 -0.811 -0.417 -0.404 -0.537 -0.707
## EmtnCnvrstn_3:DtSbstv 0.252 -0.410 -0.799 -0.412 -0.547 -0.719
## EmtnCnvrstn_4:DtSbstv 0.246 -0.401 -0.414 -0.804 -0.534 -0.703
##              EmtnCnvrstn_2:DtSbstt EmtnCnvrstn_3:DtSbstt
## EmtnCnvrstn_2

```

```

## EmtnCnvr3_3
## EmtnCnvr3_4
## DataSbsttrn
## DataSubstvl
## EmtnCnvrstn_2:DtSbstt
## EmtnCnvrstn_3:DtSbstt 0.513
## EmtnCnvrstn_4:DtSbstt 0.498 0.512
## EmtnCnvrstn_2:DtSbstv 0.763 0.390
## EmtnCnvrstn_3:DtSbstv 0.386 0.747
## EmtnCnvrstn_4:DtSbstv 0.377 0.388
## EmtnCnvrstn_4:DtSbstt EmtnCnvrstn_2:DtSbstv
## EmtnCnvr3_2
## EmtnCnvr3_3
## EmtnCnvr3_4
## DataSbsttrn
## DataSubstvl
## EmtnCnvrstn_2:DtSbstt
## EmtnCnvrstn_3:DtSbstt
## EmtnCnvrstn_4:DtSbstt
## EmtnCnvrstn_2:DtSbstv 0.379
## EmtnCnvrstn_3:DtSbstv 0.386 0.508
## EmtnCnvrstn_4:DtSbstv 0.753 0.497
## EmtnCnvrstn_3:DtSbstv
## EmtnCnvr3_2
## EmtnCnvr3_3
## EmtnCnvr3_4
## DataSbsttrn
## DataSubstvl
## EmtnCnvrstn_2:DtSbstt
## EmtnCnvrstn_3:DtSbstt
## EmtnCnvrstn_4:DtSbstt
## EmtnCnvrstn_2:DtSbstv
## EmtnCnvrstn_3:DtSbstv
## EmtnCnvrstn_4:DtSbstv 0.506

```

eMotion Correlation Model

```
eMotion_model_correlation <- lmerTest::lmer(Correlation ~ Emotion * DataSubset + (1|Fold), data = all_d
```

```
summary(eMotion_model_correlation)
```

```

## Linear mixed model fit by maximum likelihood . t-tests use Satterthwaite's
## method [lmerModLmerTest]
## Formula: Correlation ~ Emotion * DataSubset + (1 | Fold)
## Data: all_data[all_data$Dataset == "eMotion", ]
##
## AIC BIC logLik deviance df.resid
## 113894.3 114028.9 -56933.2 113866.3 110111
##
## Scaled residuals:
## Min 1Q Median 3Q Max
## -2.53633 -0.61033 -0.01142 0.61461 2.39240
##

```

```

## Random effects:
## Groups      Name      Variance Std.Dev.
## Fold      (Intercept) 0.0003089 0.01758
## Residual              0.1646269 0.40574
## Number of obs: 110125, groups: Fold, 5
##
## Fixed effects:
##
##              Estimate Std. Error      df t value
## (Intercept)    3.153e-03  1.111e-02  1.903e+01   0.284
## EmotionConversation_2    3.441e-02  1.114e-02  1.101e+05   3.090
## EmotionConversation_3    2.952e-02  1.077e-02  1.101e+05   2.740
## EmotionConversation_4    1.543e-02  1.110e-02  1.101e+05   1.390
## DataSubsettrain    2.787e-02  8.358e-03  1.101e+05   3.334
## DataSubsetval   -3.434e-03  9.718e-03  1.101e+05  -0.353
## EmotionConversation_2:DataSubsettrain -1.895e-02  1.184e-02  1.101e+05  -1.600
## EmotionConversation_3:DataSubsettrain -2.164e-02  1.151e-02  1.101e+05  -1.880
## EmotionConversation_4:DataSubsettrain  6.155e-03  1.184e-02  1.101e+05   0.520
## EmotionConversation_2:DataSubsetval  -1.767e-02  1.374e-02  1.101e+05  -1.286
## EmotionConversation_3:DataSubsetval  -8.704e-03  1.348e-02  1.101e+05  -0.646
## EmotionConversation_4:DataSubsetval   2.497e-03  1.383e-02  1.101e+05   0.180
##
##              Pr(>|t|)
## (Intercept)    0.779613
## EmotionConversation_2    0.002004 **
## EmotionConversation_3    0.006141 **
## EmotionConversation_4    0.164537
## DataSubsettrain    0.000855 ***
## DataSubsetval    0.723836
## EmotionConversation_2:DataSubsettrain  0.109587
## EmotionConversation_3:DataSubsettrain  0.060137 .
## EmotionConversation_4:DataSubsettrain  0.603257
## EmotionConversation_2:DataSubsetval   0.198426
## EmotionConversation_3:DataSubsetval   0.518604
## EmotionConversation_4:DataSubsetval   0.856776
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##              (Intr) EmtC_2 EmtC_3 EmtC_4 DtSbstt DtSbstv
## EmtnCnvrstn_2    -0.498
## EmtnCnvrstn_3    -0.515  0.514
## EmtnCnvrstn_4    -0.500  0.499  0.516
## DataSbsttrn      -0.664  0.662  0.685  0.665
## DataSbstv        -0.571  0.570  0.589  0.572  0.759
## EmtnCnvrstn_2:DtSbstt  0.469 -0.941 -0.483 -0.469 -0.706 -0.536
## EmtnCnvrstn_3:DtSbstt  0.482 -0.481 -0.936 -0.483 -0.726 -0.551
## EmtnCnvrstn_4:DtSbstt  0.469 -0.468 -0.483 -0.937 -0.706 -0.536
## EmtnCnvrstn_2:DtSbstv  0.404 -0.811 -0.417 -0.404 -0.537 -0.707
## EmtnCnvrstn_3:DtSbstv  0.412 -0.411 -0.799 -0.412 -0.547 -0.721
## EmtnCnvrstn_4:DtSbstv  0.401 -0.400 -0.414 -0.802 -0.533 -0.702
##
##              EmtnCnvrstn_2:DtSbstt EmtnCnvrstn_3:DtSbstt
## EmtnCnvrstn_2
## EmtnCnvrstn_3
## EmtnCnvrstn_4
## DataSbsttrn

```

```

## DataSubstvl
## EmtnCnvrstn_2:DtSbstt
## EmtnCnvrstn_3:DtSbstt 0.512
## EmtnCnvrstn_4:DtSbstt 0.498 0.512
## EmtnCnvrstn_2:DtSbstv 0.762 0.390
## EmtnCnvrstn_3:DtSbstv 0.386 0.748
## EmtnCnvrstn_4:DtSbstv 0.376 0.387
## EmtnCnvrstn_4:DtSbstt EmtnCnvrstn_2:DtSbstv
## EmtnCnvrstn_2:DtSbstt
## EmtnCnvrstn_3:DtSbstt
## EmtnCnvrstn_4:DtSbstt
## EmtnCnvrstn_2:DtSbstv 0.379
## EmtnCnvrstn_3:DtSbstv 0.386 0.510
## EmtnCnvrstn_4:DtSbstv 0.752 0.497
## EmtnCnvrstn_3:DtSbstv
## EmtnCnvrstn_2:DtSbstt
## EmtnCnvrstn_3:DtSbstt
## EmtnCnvrstn_4:DtSbstt
## EmtnCnvrstn_2:DtSbstv
## EmtnCnvrstn_3:DtSbstv
## EmtnCnvrstn_4:DtSbstv 0.506

```