

**Robust Tests of Equality of Means - use case templates,
GenderMag motivation facet, understanding task**

		Statistic ^a	df1	df2	Sig.
Precision	Welch	3.141	1	65.898	.081
Recall	Welch	.074	1	59.835	.787
FMeasure	Welch	1.309	1	62.597	.257
Duration	Welch	.965	1	64.992	.329
FirstActDet	Welch	.001	1	66.645	.977
LastActDet	Welch	1.688	1	62.711	.199
ProcDur	Welch	5.220	1	61.669	.026
FixRel	Welch	1.148	1	69.756	.288
FixIrrel	Welch	.230	1	68.543	.633
AvDurRelFix	Welch	.120	1	66.667	.730
AvDurIrrelFix	Welch	.737	1	71.694	.394
TotSac	Welch	.066	1	66.147	.798
Sac2Key	Welch	.599	1	56.618	.442
AvAttention	Welch	.338	1	67.165	.563
AvMentWL	Welch	.274	1	67.718	.602
AvFam	Welch	.197	1	76.838	.658
AvSCL	Welch	3.450	1	58.458	.068
HRVar_RMSSD	Welch	4.074	1	76.221	.047
HRVar_NN50	Welch	4.964	1	68.748	.029
NASA_MD	Welch	.001	1	48.430	.970
NASA_PD	Welch	.002	1	64.711	.961
NASA_TD	Welch	.900	1	52.204	.347
NASA_Performance	Welch	8.526	1	71.596	.005
NASA_Effort	Welch	.045	1	47.176	.834
NASA_Frustration	Welch	3.718	1	58.165	.059
NASA_Score	Welch	2.776	1	54.748	.101

a. Asymptotically F distributed.

ANOVA - use case templates, GenderMag motivation facet, understanding task

		Sum of Squares	df	Mean Square	F	Sig.
Precision	Between Groups	.114	1	.114	3.161	.079
	Within Groups	2.815	78	.036		
	Total	2.930	79			
Recall	Between Groups	.002	1	.002	.078	.781
	Within Groups	2.343	78	.030		
	Total	2.345	79			
FMeasure	Between Groups	.042	1	.042	1.355	.248
	Within Groups	2.447	78	.031		
	Total	2.490	79			
Duration	Between Groups	9603.352	1	9603.352	.979	.326
	Within Groups	765245.135	78	9810.835		
	Total	774848.488	79			
FirstActDet	Between Groups	2.700	1	2.700	.001	.977
	Within Groups	252223.500	78	3233.635		
	Total	252226.200	79			
LastActDet	Between Groups	18550.533	1	18550.533	1.746	.190
	Within Groups	828768.854	78	10625.242		
	Total	847319.388	79			
ProcDur	Between Groups	1459.519	1	1459.519	5.447	.022
	Within Groups	20900.281	78	267.952		
	Total	22359.800	79			
FixRel	Between Groups	.606	1	.606	1.115	.294
	Within Groups	42.409	78	.544		
	Total	43.016	79			
FixIrrel	Between Groups	4483.519	1	4483.519	.226	.636
	Within Groups	1546334.043	78	19824.795		
	Total	1550817.562	79			
AvDurRelFix	Between Groups	301.626	1	301.626	.120	.730
	Within Groups	195932.530	78	2511.956		
	Total	196234.156	79			
AvDurIrrelFix	Between Groups	14650.974	1	14650.974	.703	.404
	Within Groups	1625985.407	78	20845.967		
	Total	1640636.381	79			
TotSac	Between Groups	8.008	1	8.008	.066	.798
	Within Groups	9431.792	78	120.920		
	Total	9439.800	79			
Sac2Key	Between Groups	44.408	1	44.408	.653	.422
	Within Groups	5304.792	78	68.010		
	Total	5349.200	79			
AvAttention	Between Groups	.014	1	.014	.336	.564
	Within Groups	3.270	78	.042		
	Total	3.284	79			
AvMentWL	Between Groups	.007	1	.007	.271	.604
	Within Groups	1.941	78	.025		
	Total	1.948	79			
AvFam	Between Groups	.006	1	.006	.176	.676
	Within Groups	2.669	78	.034		
	Total	2.675	79			
AvSCL	Between Groups	65917.969	1	65917.969	3.701	.058
	Within Groups	1389102.781	78	17809.010		

	Total	1455020.750	79			
HRVar_RMSSD	Between Groups	1601.512	1	1601.512	3.678	.059
	Within Groups	33968.067	78	435.488		
	Total	35569.578	79			
HRVar_NN50	Between Groups	1703.437	1	1703.437	4.869	.030
	Within Groups	27289.356	78	349.864		
	Total	28992.793	79			
NASA_MD	Between Groups	.208	1	.208	.002	.968
	Within Groups	9888.542	78	126.776		
	Total	9888.750	79			
NASA_PD	Between Groups	.469	1	.469	.002	.960
	Within Groups	14719.531	78	188.712		
	Total	14720.000	79			
NASA_TD	Between Groups	262.552	1	262.552	1.022	.315
	Within Groups	20036.198	78	256.874		
	Total	20298.750	79			
NASA_Performance	Between Groups	2950.208	1	2950.208	8.140	.006
	Within Groups	28269.792	78	362.433		
	Total	31220.000	79			
NASA_Effort	Between Groups	11.719	1	11.719	.053	.818
	Within Groups	17130.469	78	219.621		
	Total	17142.188	79			
NASA_Frustration	Between Groups	1417.969	1	1417.969	3.999	.049
	Within Groups	27657.031	78	354.577		
	Total	29075.000	79			
NASA_Score	Between Groups	303.478	1	303.478	3.078	.083
	Within Groups	7690.958	78	98.602		
	Total	7994.436	79			

Task * Motivation - use case templates, GenderMag motivation facet, understanding task

Dependent Variable	Task	Motivation	Mean	Std. Error	95% Confidence Interval	
					Lower Bound	Upper Bound
Precision	ARNE Understand	Abby	.806 ^a	.055	.695	.916
		Tim	.700 ^a	.040	.620	.781
	ALCO Understand	Abby	.936 ^a	.045	.845	1.026
		Tim	.915 ^a	.049	.818	1.012
Recall	ARNE Understand	Abby	.786 ^a	.056	.675	.898
		Tim	.785 ^a	.041	.704	.867
	ALCO Understand	Abby	.937 ^a	.046	.846	1.028
		Tim	.931 ^a	.049	.833	1.029
FMeasure	ARNE Understand	Abby	.790 ^a	.054	.683	.897
		Tim	.735 ^a	.039	.657	.814
	ALCO Understand	Abby	.935 ^a	.044	.847	1.023
		Tim	.922 ^a	.047	.828	1.017
Duration	ARNE Understand	Abby	238.667 ^a	35.368	167.788	309.545
		Tim	262.378 ^a	25.770	210.733	314.022
	ALCO Understand	Abby	253.420 ^a	28.955	195.393	311.447
		Tim	320.050 ^a	31.161	257.603	382.497
FirstActDet	ARNE Understand	Abby	71.500 ^a	19.033	33.358	109.642
		Tim	33.989 ^a	13.868	6.197	61.781
	ALCO Understand	Abby	53.073 ^a	15.582	21.847	84.300
		Tim	58.813 ^a	16.769	25.207	92.418
LastActDet	ARNE Understand	Abby	215.417 ^a	35.470	144.334	286.499
		Tim	252.617 ^a	25.844	200.823	304.410
	ALCO Understand	Abby	224.020 ^a	29.039	165.825	282.215
		Tim	304.553 ^a	31.251	241.926	367.181
ProcDur	ARNE Understand	Abby	23.250 ^a	2.004	19.235	27.265
		Tim	9.761 ^a	1.460	6.835	12.687
	ALCO Understand	Abby	29.400 ^a	1.640	26.113	32.687
		Tim	15.497 ^a	1.765	11.959	19.035
FixRel	ARNE Understand	Abby	10.084 ^a	.235	9.614	10.555
		Tim	10.248 ^a	.171	9.905	10.591
	ALCO Understand	Abby	10.990 ^a	.192	10.605	11.376
		Tim	10.856 ^a	.207	10.441	11.271
FixIrrel	ARNE Understand	Abby	302.510 ^a	44.849	212.631	392.390
		Tim	179.986 ^a	32.679	114.497	245.476
	ALCO Understand	Abby	284.153 ^a	36.718	210.570	357.737
		Tim	288.544 ^a	39.514	209.355	367.732
AvDurRelFix	ARNE Understand	Abby	104.761 ^a	15.856	72.985	136.538
		Tim	62.005 ^a	11.553	38.851	85.159
	ALCO Understand	Abby	99.313 ^a	12.981	73.298	125.329
		Tim	101.681 ^a	13.970	73.684	129.678
AvDurIrrelFix	ARNE Understand	Abby	254.346 ^a	44.475	165.216	343.477
		Tim		32.406	69.394	199.281

	ALCO Understand	Abby	134.337 ^a			
		Tim	283.527 ^a	36.411	210.556	356.497
TotSac	ARNE Understand	Abby	287.794 ^a	39.185	209.265	366.322
		Tim	82.431 ^a	3.668	75.080	89.781
	ALCO Understand	Abby	93.200 ^a	2.673	87.844	98.556
		Tim	88.987 ^a	3.003	82.969	95.005
Sac2Key	ARNE Understand	Abby	92.369 ^a	3.232	85.892	98.845
		Tim	9.236 ^a	2.701	3.823	14.649
	ALCO Understand	Abby	15.800 ^a	1.968	11.856	19.744
		Tim	13.047 ^a	2.211	8.615	17.478
AvAttention	ARNE Understand	Abby	16.344 ^a	2.380	11.575	21.113
		Tim	.671 ^a	.057	.557	.784
	ALCO Understand	Abby	.609 ^a	.041	.527	.692
		Tim	.569 ^a	.046	.476	.662
AvMentWL	ARNE Understand	Abby	.473 ^a	.050	.373	.573
		Tim	.554 ^a	.053	.448	.661
	ALCO Understand	Abby	.583 ^a	.039	.506	.661
		Tim	.506 ^a	.044	.419	.593
AvFam	ARNE Understand	Abby	.472 ^a	.047	.378	.566
		Tim	.854 ^a	.048	.759	.950
	ALCO Understand	Abby	.872 ^a	.035	.803	.942
		Tim	.632 ^a	.039	.554	.710
AvSCL	ARNE Understand	Abby	.575 ^a	.042	.491	.659
		Tim	556.389 ^a	46.043	464.116	648.662
	ALCO Understand	Abby	562.528 ^a	33.549	495.295	629.761
		Tim	522.107 ^a	37.695	446.564	597.650
HRVar_RMSSD	ARNE Understand	Abby	596.019 ^a	40.566	514.722	677.316
		Tim	27.697 ^a	6.462	14.748	40.647
	ALCO Understand	Abby	37.773 ^a	4.708	28.337	47.208
		Tim	25.388 ^a	5.290	14.786	35.990
HRVar_NN50	ARNE Understand	Abby	37.127 ^a	5.693	25.718	48.537
		Tim	18.599 ^a	6.641	5.290	31.908
	ALCO Understand	Abby	24.514 ^a	4.839	14.817	34.212
		Tim	15.409 ^a	5.437	4.513	26.305
NASA_MD	ARNE Understand	Abby	26.740 ^a	5.851	15.014	38.466
		Tim	37.014 ^a	3.576	29.847	44.181
	ALCO Understand	Abby	39.278 ^a	2.606	34.056	44.500
		Tim	34.700 ^a	2.928	28.833	40.567
NASA_PD	ARNE Understand	Abby	40.750 ^a	3.151	34.436	47.064
		Tim	12.569 ^a	4.549	3.452	21.687
	ALCO Understand	Abby	10.222 ^a	3.315	3.579	16.865
		Tim	14.667 ^a	3.725	7.202	22.131
NASA_TD	ARNE Understand	Abby	14.969 ^a	4.008	6.936	23.002
		Tim	24.931 ^a	5.285	14.338	35.523
	ALCO	Abby	16.611 ^a	3.851	8.893	24.329
		Tim	20.300 ^a	4.327	11.628	28.972

	Understand	Tim	15.812 ^a	4.657	6.480	25.145
NASA_Performance	ARNE Understand	Abby	79.028 ^a	6.957	65.085	92.970
		Tim	65.000 ^a	5.069	54.841	75.159
	ALCO Understand	Abby	77.400 ^a	5.696	65.986	88.814
		Tim	61.031 ^a	6.130	48.747	73.315
NASA_Effort	ARNE Understand	Abby	36.875 ^a	4.531	27.794	45.956
		Tim	38.417 ^a	3.302	31.800	45.033
	ALCO Understand	Abby	31.100 ^a	3.710	23.665	38.535
		Tim	37.312 ^a	3.992	29.312	45.313
NASA_Frustration	ARNE Understand	Abby	32.639 ^a	6.218	20.177	45.100
		Tim	24.472 ^a	4.531	15.392	33.552
	ALCO Understand	Abby	37.633 ^a	5.091	27.431	47.835
		Tim	26.500 ^a	5.478	15.521	37.479
NASA_Score	ARNE Understand	Abby	37.176 ^a	3.355	30.451	43.900
		Tim	32.333 ^a	2.445	27.434	37.233
	ALCO Understand	Abby	35.967 ^a	2.747	30.461	41.472
		Tim	32.729 ^a	2.956	26.805	38.654

a. Based on modified population marginal mean.

**Robust Tests of Equality of Means - use case templates,
GenderMag information processing facet, understanding task**

		Statistic ^a	df1	df2	Sig.
Precision	Welch	1.528	1	52.885	.222
Recall	Welch	.270	1	48.987	.606
FMeasure	Welch	.944	1	49.875	.336
Duration	Welch	7.039	1	51.070	.011
FirstActDet	Welch	1.570	1	67.415	.214
LastActDet	Welch	4.169	1	52.760	.046
ProcDur	Welch	9.224	1	54.297	.004
FixRel	Welch	.347	1	52.713	.558
FixIrrel	Welch	10.622	1	69.920	.002
AvDurRelFix	Welch	11.983	1	73.173	.001
AvDurIrrelFix	Welch	15.460	1	68.563	.000
TotSac	Welch	.830	1	57.565	.366
Sac2Key	Welch	4.406	1	53.049	.041
AvAttention	Welch	44.334	1	45.113	.000
AvMentWL	Welch	7.494	1	41.005	.009
AvFam	Welch	21.275	1	51.511	.000
AvSCL	Welch	2.918	1	47.890	.094
HRVar_RMSSD	Welch	6.548	1	69.715	.013
HRVar_NN50	Welch	.792	1	60.601	.377
NASA_MD	Welch	.172	1	76.560	.680
NASA_PD	Welch	8.389	1	36.039	.006
NASA_TD	Welch	1.171	1	77.095	.283
NASA_Performance	Welch	.060	1	41.795	.808
NASA_Effort	Welch	.139	1	74.559	.710
NASA_Frustration	Welch	.232	1	52.988	.632
NASA_Score	Welch	.066	1	62.569	.798

a. Asymptotically F distributed.

ANOVA - use case templates, GenderMag information processing facet, understanding task

		Sum of Squares	df	Mean Square	F	Sig.
Precision	Between Groups	.060	1	.060	1.631	.205
	Within Groups	2.870	78	.037		
	Total	2.930	79			
Recall	Between Groups	.009	1	.009	.303	.584
	Within Groups	2.336	78	.030		
	Total	2.345	79			
FMeasure	Between Groups	.033	1	.033	1.047	.309
	Within Groups	2.457	78	.031		
	Total	2.490	79			
Duration	Between Groups	69498.341	1	69498.341	7.685	.007
	Within Groups	705350.146	78	9042.951		
	Total	774848.487	79			
FirstActDet	Between Groups	4506.765	1	4506.765	1.419	.237
	Within Groups	247719.435	78	3175.890		
	Total	252226.200	79			
LastActDet	Between Groups	45778.553	1	45778.553	4.455	.038
	Within Groups	801540.834	78	10276.165		
	Total	847319.388	79			
ProcDur	Between Groups	2466.726	1	2466.726	9.672	.003
	Within Groups	19893.074	78	255.039		
	Total	22359.800	79			
FixRel	Between Groups	.203	1	.203	.371	.544
	Within Groups	42.812	78	.549		
	Total	43.016	79			
FixIrrel	Between Groups	165593.903	1	165593.903	9.324	.003
	Within Groups	1385223.659	78	17759.278		
	Total	1550817.562	79			
AvDurRelFix	Between Groups	22483.291	1	22483.291	10.093	.002
	Within Groups	173750.865	78	2227.575		
	Total	196234.156	79			
AvDurIrrelFix	Between Groups	246465.361	1	246465.361	13.789	.000
	Within Groups	1394171.019	78	17873.987		
	Total	1640636.381	79			
TotSac	Between Groups	100.246	1	100.246	.837	.363
	Within Groups	9339.554	78	119.738		
	Total	9439.800	79			
Sac2Key	Between Groups	303.449	1	303.449	4.691	.033
	Within Groups	5045.751	78	64.689		
	Total	5349.200	79			
AvAttention	Between Groups	1.323	1	1.323	52.650	.000
	Within Groups	1.961	78	.025		
	Total	3.284	79			
AvMentWL	Between Groups	.212	1	.212	9.528	.003
	Within Groups	1.736	78	.022		
	Total	1.948	79			
AvFam	Between Groups	.611	1	.611	23.097	.000
	Within Groups	2.064	78	.026		
	Total	2.675	79			
AvSCL	Between Groups	59507.168	1	59507.168	3.326	.072

	Within Groups	1395513.582	78	17891.200		
	Total	1455020.750	79			
HRVar_RMSSD	Between Groups	2446.824	1	2446.824	5.762	.019
	Within Groups	33122.755	78	424.651		
	Total	35569.578	79			
HRVar_NN50	Between Groups	284.042	1	284.042	.772	.382
	Within Groups	28708.751	78	368.061		
	Total	28992.793	79			
NASA_MD	Between Groups	17.283	1	17.283	.137	.713
	Within Groups	9871.467	78	126.557		
	Total	9888.750	79			
NASA_PD	Between Groups	1932.170	1	1932.170	11.785	.001
	Within Groups	12787.830	78	163.947		
	Total	14720.000	79			
NASA_TD	Between Groups	236.512	1	236.512	.920	.341
	Within Groups	20062.238	78	257.208		
	Total	20298.750	79			
NASA_Performance	Between Groups	29.872	1	29.872	.075	.785
	Within Groups	31190.128	78	399.873		
	Total	31220.000	79			
NASA_Effort	Between Groups	25.149	1	25.149	.115	.736
	Within Groups	17117.039	78	219.449		
	Total	17142.188	79			
NASA_Frustration	Between Groups	92.039	1	92.039	.248	.620
	Within Groups	28982.961	78	371.576		
	Total	29075.000	79			
NASA_Score	Between Groups	6.483	1	6.483	.063	.802
	Within Groups	7987.953	78	102.410		
	Total	7994.436	79			

Task * InformationProcessing - use case templates, GenderMag information processing facet, understanding task						
Dependent Variable	Task	InformationProcessing	Mean	Std. Error	95% Confidence Interval	
					Lower Bound	Upper Bound
Precision	ARNE Understand	Abby	.749 ^a	.039	.671	.827
		Tim	.773 ^a	.063	.647	.900
	ALCO Understand	Abby	.975 ^a	.048	.879	1.071
		Tim	.862 ^a	.050	.762	.962
Recall	ARNE Understand	Abby	.780 ^a	.039	.701	.859
		Tim	.815 ^a	.064	.687	.943
	ALCO Understand	Abby	.983 ^a	.048	.886	1.081
		Tim	.875 ^a	.050	.775	.976
FMeasure	ARNE Understand	Abby	.758 ^a	.038	.682	.834
		Tim	.787 ^a	.061	.664	.909
	ALCO Understand	Abby	.978 ^a	.047	.885	1.072
		Tim	.868 ^a	.048	.771	.965
Duration	ARNE Understand	Abby	235.393 ^a	24.978	185.337	285.450
		Tim	326.167 ^a	40.466	245.071	407.263
	ALCO Understand	Abby	256.086 ^a	30.807	194.347	317.825
		Tim	339.150 ^a	31.884	275.252	403.048
FirstActDet	ARNE Understand	Abby	52.127 ^a	13.441	25.189	79.064
		Tim	55.833 ^a	21.776	12.193	99.474
	ALCO Understand	Abby	40.924 ^a	16.579	7.700	74.148
		Tim	74.900 ^a	17.158	40.514	109.286
LastActDet	ARNE Understand	Abby	220.020 ^a	25.050	169.819	270.221
		Tim	304.000 ^a	40.583	222.670	385.330
	ALCO Understand	Abby	237.686 ^a	30.896	175.769	299.603
		Tim	315.454 ^a	31.976	251.372	379.536
ProcDur	ARNE Understand	Abby	15.373 ^a	1.415	12.537	18.209
		Tim	22.167 ^a	2.293	17.572	26.761
	ALCO Understand	Abby	18.400 ^a	1.745	14.902	21.898
		Tim	23.696 ^a	1.806	20.076	27.316
FixRel	ARNE Understand	Abby	10.187 ^a	.166	9.855	10.520
		Tim	10.060 ^a	.269	9.521	10.599
	ALCO Understand	Abby	11.144 ^a	.205	10.734	11.554
		Tim	10.632 ^a	.212	10.208	11.057
FixIrrel	ARNE Understand	Abby	228.373 ^a	31.674	164.897	291.849
		Tim	305.625 ^a	51.314	202.789	408.461
	ALCO Understand	Abby	254.631 ^a	39.066	176.341	332.921
		Tim	324.450 ^a	40.432	243.422	405.478
AvDurRelFix	ARNE Understand	Abby	78.289 ^a	11.198	55.847	100.730
		Tim	108.855 ^a	18.142	72.498	145.212
	ALCO Understand	Abby	88.160 ^a	13.812	60.480	115.839
		Tim	115.483 ^a	14.295	86.836	144.130
AvDurIrrelFix	ARNE Understand	Abby	181.889 ^a	31.410	118.943	244.836

	Understand	Tim	256.605 ^a	50.887	154.626	358.584
	ALCO Understand	Abby	254.183 ^a	38.740	176.546	331.821
		Tim	323.450 ^a	40.095	243.098	403.802
TotSac	ARNE Understand	Abby	87.412 ^a	2.590	82.220	92.603
		Tim	89.833 ^a	4.197	81.423	98.244
	ALCO Understand	Abby	90.648 ^a	3.195	84.245	97.051
		Tim	91.558 ^a	3.307	84.931	98.185
Sac2Key	ARNE Understand	Abby	12.155 ^a	1.908	8.332	15.978
		Tim	14.333 ^a	3.090	8.140	20.527
	ALCO Understand	Abby	14.133 ^a	2.353	9.418	18.848
		Tim	16.175 ^a	2.435	11.295	21.055
AvAttention	ARNE Understand	Abby	.681 ^a	.040	.601	.762
		Tim	.433 ^a	.065	.304	.563
	ALCO Understand	Abby	.670 ^a	.049	.571	.768
		Tim	.324 ^a	.051	.222	.426
AvMentWL	ARNE Understand	Abby	.582 ^a	.038	.507	.658
		Tim	.500 ^a	.061	.378	.622
	ALCO Understand	Abby	.546 ^a	.046	.453	.639
		Tim	.415 ^a	.048	.318	.511
AvFam	ARNE Understand	Abby	.883 ^a	.034	.815	.950
		Tim	.767 ^a	.055	.657	.876
	ALCO Understand	Abby	.646 ^a	.042	.563	.729
		Tim	.540 ^a	.043	.454	.627
AvSCL	ARNE Understand	Abby	573.817 ^a	32.517	508.651	638.983
		Tim	487.667 ^a	52.681	382.092	593.241
	ALCO Understand	Abby	566.676 ^a	40.106	486.301	647.051
		Tim	568.658 ^a	41.509	485.473	651.844
HRVar_RMSSD	ARNE Understand	Abby	34.071 ^a	4.564	24.926	43.217
		Tim	26.053 ^a	7.393	11.237	40.870
	ALCO Understand	Abby	34.534 ^a	5.629	23.254	45.814
		Tim	30.370 ^a	5.825	18.695	42.044
HRVar_NN50	ARNE Understand	Abby	21.942 ^a	4.690	12.543	31.341
		Tim	19.630 ^a	7.598	4.402	34.858
	ALCO Understand	Abby	22.230 ^a	5.785	10.637	33.823
		Tim	22.559 ^a	5.987	10.561	34.558
NASA_MD	ARNE Understand	Abby	38.942 ^a	2.526	33.880	44.003
		Tim	34.167 ^a	4.092	25.967	42.366
	ALCO Understand	Abby	38.143 ^a	3.115	31.900	44.385
		Tim	38.750 ^a	3.224	32.289	45.211
NASA_PD	ARNE Understand	Abby	9.175 ^a	3.213	2.736	15.614
		Tim	22.500 ^a	5.205	12.068	32.932
	ALCO Understand	Abby	7.762 ^a	3.963	-.180	15.704
		Tim	23.125 ^a	4.101	14.906	31.344
NASA_TD	ARNE Understand	Abby	21.758 ^a	3.733	14.278	29.239
		Tim	15.833 ^a	6.047	3.714	27.952
	ALCO	Abby	17.571 ^a	4.604	8.345	26.798

	Understand	Tim	17.500 ^a	4.765	7.951	27.049
NASA_Performance	ARNE Understand	Abby	72.083 ^a	4.913	62.237	81.930
		Tim	71.667 ^a	7.960	55.715	87.619
	ALCO Understand	Abby	65.143 ^a	6.060	52.998	77.287
		Tim	69.875 ^a	6.272	57.306	82.444
NASA_Effort	ARNE Understand	Abby	37.842 ^a	3.200	31.428	44.255
		Tim	36.667 ^a	5.185	26.277	47.057
	ALCO Understand	Abby	33.429 ^a	3.947	25.518	41.339
		Tim	36.667 ^a	4.085	28.480	44.853
NASA_Frustration	ARNE Understand	Abby	29.433 ^a	4.391	20.633	38.234
		Tim	24.167 ^a	7.115	9.909	38.424
	ALCO Understand	Abby	28.952 ^a	5.416	18.098	39.807
		Tim	32.917 ^a	5.606	21.683	44.151
NASA_Score	ARNE Understand	Abby	34.872 ^a	2.370	30.123	39.621
		Tim	34.167 ^a	3.839	26.473	41.861
	ALCO Understand	Abby	31.833 ^a	2.923	25.976	37.691
		Tim	36.472 ^a	3.025	30.410	42.534

a. Based on modified population marginal mean.

**Robust Tests of Equality of Means - use case templates,
GenderMag self-efficacy facet, understanding task**

		Statistic ^a	df1	df2	Sig.
Precision	Welch	3.970	1	74.835	.050
Recall	Welch	1.576	1	66.044	.214
FMeasure	Welch	2.967	1	70.818	.089
Duration	Welch	1.631	1	71.565	.206
FirstActDet	Welch	1.227	1	73.450	.272
LastActDet	Welch	1.126	1	73.032	.292
ProcDur	Welch	.989	1	70.154	.323
FixRel	Welch	3.735	1	61.951	.058
FixIrrel	Welch	.583	1	69.695	.448
AvDurRelFix	Welch	.597	1	70.127	.443
AvDurIrrelFix	Welch	1.646	1	71.034	.204
TotSac	Welch	.551	1	68.866	.460
Sac2Key	Welch	2.805	1	65.730	.099
AvAttention	Welch	2.546	1	74.966	.115
AvMentWL	Welch	2.315	1	62.128	.133
AvFam	Welch	7.713	1	68.022	.007
AvSCL	Welch	.178	1	70.241	.674
HRVar_RMSSD	Welch	1.596	1	75.558	.210
HRVar_NN50	Welch	.133	1	75.565	.716
NASA_MD	Welch	.042	1	77.983	.838
NASA_PD	Welch	2.535	1	59.289	.117
NASA_TD	Welch	4.327	1	73.983	.041
NASA_Performance	Welch	.674	1	64.573	.415
NASA_Effort	Welch	.971	1	77.331	.327
NASA_Frustration	Welch	5.267	1	74.118	.025
NASA_Score	Welch	2.063	1	77.773	.155

a. Asymptotically F distributed.

ANOVA - use case templates, GenderMag self-efficacy facet, understanding task

		Sum of Squares	df	Mean Square	F	Sig.
Precision	Between Groups	.138	1	.138	3.850	.053
	Within Groups	2.792	78	.036		
	Total	2.930	79			
Recall	Between Groups	.048	1	.048	1.635	.205
	Within Groups	2.297	78	.029		
	Total	2.345	79			
FMeasure	Between Groups	.092	1	.092	2.977	.088
	Within Groups	2.398	78	.031		
	Total	2.490	79			
Duration	Between Groups	15831.074	1	15831.074	1.627	.206
	Within Groups	759017.413	78	9730.992		
	Total	774848.487	79			
FirstActDet	Between Groups	3837.402	1	3837.402	1.205	.276
	Within Groups	248388.798	78	3184.472		
	Total	252226.200	79			
LastActDet	Between Groups	11884.813	1	11884.813	1.110	.295
	Within Groups	835434.574	78	10710.700		
	Total	847319.388	79			
ProcDur	Between Groups	282.378	1	282.378	.998	.321
	Within Groups	22077.422	78	283.044		
	Total	22359.800	79			
FixRel	Between Groups	2.089	1	2.089	3.981	.050
	Within Groups	40.927	78	.525		
	Total	43.016	79			
FixIrrel	Between Groups	11636.177	1	11636.177	.590	.445
	Within Groups	1539181.385	78	19733.095		
	Total	1550817.562	79			
AvDurRelFix	Between Groups	1501.986	1	1501.986	.602	.440
	Within Groups	194732.170	78	2496.566		
	Total	196234.156	79			
AvDurIrrelFix	Between Groups	33968.054	1	33968.054	1.649	.203
	Within Groups	1606668.327	78	20598.312		
	Total	1640636.381	79			
TotSac	Between Groups	67.401	1	67.401	.561	.456
	Within Groups	9372.399	78	120.159		
	Total	9439.800	79			
Sac2Key	Between Groups	192.837	1	192.837	2.917	.092
	Within Groups	5156.363	78	66.107		
	Total	5349.200	79			
AvAttention	Between Groups	.101	1	.101	2.465	.120
	Within Groups	3.183	78	.041		
	Total	3.284	79			
AvMentWL	Between Groups	.060	1	.060	2.464	.120
	Within Groups	1.888	78	.024		
	Total	1.948	79			
AvFam	Between Groups	.246	1	.246	7.896	.006
	Within Groups	2.429	78	.031		
	Total	2.675	79			
AvSCL	Between Groups	3345.681	1	3345.681	.180	.673
	Within Groups	1451675.069	78	18611.219		
	Total					

	Total	1455020.750	79			
HRVar_RMSSD	Between Groups	686.810	1	686.810	1.536	.219
	Within Groups	34882.769	78	447.215		
	Total	35569.578	79			
HRVar_NN50	Between Groups	47.614	1	47.614	.128	.721
	Within Groups	28945.180	78	371.092		
	Total	28992.793	79			
NASA_MD	Between Groups	4.863	1	4.863	.038	.845
	Within Groups	9883.887	78	126.717		
	Total	9888.750	79			
NASA_PD	Between Groups	501.330	1	501.330	2.750	.101
	Within Groups	14218.670	78	182.291		
	Total	14720.000	79			
NASA_TD	Between Groups	921.896	1	921.896	3.711	.058
	Within Groups	19376.854	78	248.421		
	Total	20298.750	79			
NASA_Performance	Between Groups	280.102	1	280.102	.706	.403
	Within Groups	30939.898	78	396.665		
	Total	31220.000	79			
NASA_Effort	Between Groups	188.000	1	188.000	.865	.355
	Within Groups	16954.188	78	217.361		
	Total	17142.188	79			
NASA_Frustration	Between Groups	1798.274	1	1798.274	5.142	.026
	Within Groups	27276.726	78	349.702		
	Total	29075.000	79			
NASA_Score	Between Groups	191.504	1	191.504	1.914	.170
	Within Groups	7802.931	78	100.038		
	Total	7994.436	79			

Task * SelfEfficacy - use case templates, GenderMag self-efficacy facet, understanding task

Dependent Variable	Task	SelfEfficacy	Mean	Std. Error	95% Confidence Interval	
					Lower Bound	Upper Bound
Precision	ARNE Understand	Abby	.735 ^a	.039	.656	.814
		Tim	.772 ^a	.056	.660	.883
	ALCO Understand	Abby	.931 ^a	.046	.840	1.022
		Tim	.905 ^a	.046	.813	.998
Recall	ARNE Understand	Abby	.766 ^a	.040	.687	.846
		Tim	.805 ^a	.056	.693	.917
	ALCO Understand	Abby	.933 ^a	.046	.841	1.025
		Tim	.936 ^a	.047	.842	1.029
FMeasure	ARNE Understand	Abby	.745 ^a	.038	.668	.822
		Tim	.781 ^a	.054	.672	.889
	ALCO Understand	Abby	.931 ^a	.044	.842	1.020
		Tim	.919 ^a	.045	.829	1.009
Duration	ARNE Understand	Abby	245.211 ^a	25.325	194.459	295.964
		Tim	255.833 ^a	35.688	184.314	327.353
	ALCO Understand	Abby	295.022 ^a	29.208	236.488	353.557
		Tim	293.075 ^a	29.581	233.793	352.357
FirstActDet	ARNE Understand	Abby	39.100 ^a	13.628	11.788	66.412
		Tim	66.389 ^a	19.205	27.901	104.876
	ALCO Understand	Abby	55.441 ^a	15.718	23.941	86.940
		Tim	59.225 ^a	15.919	27.323	91.127
LastActDet	ARNE Understand	Abby	228.700 ^a	25.398	177.801	279.599
		Tim	239.333 ^a	35.791	167.607	311.059
	ALCO Understand	Abby	270.944 ^a	29.292	212.241	329.648
		Tim	279.506 ^a	29.666	220.053	338.959
ProcDur	ARNE Understand	Abby	16.511 ^a	1.435	13.636	19.386
		Tim	16.500 ^a	2.022	12.448	20.552
	ALCO Understand	Abby	24.078 ^a	1.655	20.762	27.394
		Tim	13.569 ^a	1.676	10.210	16.927
FixRel	ARNE Understand	Abby	10.185 ^a	.168	9.848	10.522
		Tim	10.148 ^a	.237	9.673	10.623
	ALCO Understand	Abby	10.811 ^a	.194	10.423	11.200
		Tim	11.124 ^a	.196	10.731	11.518
FixIrrel	ARNE Understand	Abby	230.302 ^a	32.114	165.944	294.661
		Tim	252.194 ^a	45.255	161.501	342.888
	ALCO Understand	Abby	318.952 ^a	37.038	244.725	393.179
		Tim	214.638 ^a	37.511	139.463	289.812
AvDurRelFix	ARNE Understand	Abby	81.425 ^a	11.354	58.672	104.179
		Tim	85.341 ^a	16.000	53.277	117.405
	ALCO Understand	Abby	112.130 ^a	13.095	85.887	138.372
		Tim	75.213 ^a	13.262	48.635	101.790
AvDurIrrelFix	ARNE Understand	Abby	182.389 ^a	31.846	118.567	246.211
		Tim		44.878	116.357	296.231

	ALCO Understand	Abby	206.294 ^a			
		Tim	318.159 ^a	36.730	244.551	391.767
TotSac	ARNE Understand	Abby	89.408 ^a	2.627	84.145	94.672
		Tim	214.138 ^a	37.199	139.590	288.685
	ALCO Understand	Abby	90.370 ^a	3.029	84.300	96.441
		Tim	92.638 ^a	3.068	86.489	98.786
Sac2Key	ARNE Understand	Abby	11.147 ^a	1.934	7.271	15.023
		Tim	13.889 ^a	2.725	8.427	19.351
	ALCO Understand	Abby	13.881 ^a	2.231	9.411	18.352
		Tim	17.763 ^a	2.259	13.235	22.290
AvAttention	ARNE Understand	Abby	.619 ^a	.041	.538	.700
		Tim	.661 ^a	.057	.547	.776
	ALCO Understand	Abby	.481 ^a	.047	.387	.574
		Tim	.576 ^a	.047	.481	.671
AvMentWL	ARNE Understand	Abby	.593 ^a	.038	.517	.669
		Tim	.544 ^a	.054	.437	.652
	ALCO Understand	Abby	.464 ^a	.044	.376	.553
		Tim	.532 ^a	.045	.443	.621
AvFam	ARNE Understand	Abby	.882 ^a	.034	.814	.950
		Tim	.844 ^a	.048	.748	.941
	ALCO Understand	Abby	.576 ^a	.039	.497	.654
		Tim	.646 ^a	.040	.566	.725
AvSCL	ARNE Understand	Abby	521.750 ^a	32.969	455.678	587.822
		Tim	597.167 ^a	46.460	504.059	690.275
	ALCO Understand	Abby	566.093 ^a	38.025	489.890	642.296
		Tim	570.962 ^a	38.510	493.787	648.138
HRVar_RMSSD	ARNE Understand	Abby	33.409 ^a	4.627	24.137	42.682
		Tim	32.061 ^a	6.520	18.994	45.128
	ALCO Understand	Abby	30.510 ^a	5.336	19.816	41.205
		Tim	37.341 ^a	5.405	26.510	48.172
HRVar_NN50	ARNE Understand	Abby	21.005 ^a	4.755	11.475	30.535
		Tim	22.108 ^a	6.701	8.679	35.538
	ALCO Understand	Abby	20.897 ^a	5.485	9.905	31.888
		Tim	25.724 ^a	5.555	14.592	36.855
NASA_MD	ARNE Understand	Abby	40.458 ^a	2.561	35.327	45.590
		Tim	35.833 ^a	3.608	28.602	43.065
	ALCO Understand	Abby	37.889 ^a	2.953	31.970	43.807
		Tim	39.625 ^a	2.991	33.631	45.619
NASA_PD	ARNE Understand	Abby	10.014 ^a	3.258	3.485	16.542
		Tim	12.778 ^a	4.591	3.578	21.978
	ALCO Understand	Abby	14.537 ^a	3.757	7.008	22.066
		Tim	15.563 ^a	3.805	7.937	23.188
NASA_TD	ARNE Understand	Abby	27.653 ^a	3.785	20.068	35.237
		Tim	13.889 ^a	5.333	3.201	24.577
	ALCO	Abby	20.167 ^a	4.365	11.419	28.914

	Understand	Tim	11.625 ^a	4.421	2.766	20.484
NASA_Performance	ARNE Understand	Abby	73.750 ^a	4.982	63.767	83.733
		Tim	70.278 ^a	7.020	56.209	84.346
	ALCO Understand	Abby	69.889 ^a	5.745	58.375	81.403
		Tim	61.562 ^a	5.819	49.901	73.224
NASA_Effort	ARNE Understand	Abby	42.236 ^a	3.245	35.734	48.739
		Tim	33.056 ^a	4.572	23.892	42.219
	ALCO Understand	Abby	34.222 ^a	3.742	26.723	41.722
		Tim	36.500 ^a	3.790	28.905	44.095
NASA_Frustration	ARNE Understand	Abby	33.778 ^a	4.452	24.855	42.701
		Tim	23.333 ^a	6.274	10.759	35.908
	ALCO Understand	Abby	36.185 ^a	5.135	25.894	46.476
		Tim	18.625 ^a	5.201	8.202	29.048
NASA_Score	ARNE Understand	Abby	37.981 ^a	2.403	33.166	42.797
		Tim	31.528 ^a	3.386	24.742	38.313
	ALCO Understand	Abby	35.481 ^a	2.771	29.928	41.035
		Tim	30.583 ^a	2.806	24.959	36.208

a. Based on modified population marginal mean.

Robust Tests of Equality of Means - use case templates, GenderMag risk facet, understanding task

		Statistic ^a	df1	df2	Sig.
Precision	Welch	37.946	1	77.765	.000
Recall	Welch	7.948	1	71.145	.006
FMeasure	Welch	22.368	1	77.581	.000
Duration	Welch	5.929	1	73.250	.017
FirstActDet	Welch	13.598	1	42.145	.001
LastActDet	Welch	17.540	1	71.590	.000
ProcDur	Welch	376.071	1	28.504	.000
FixRel	Welch	.326	1	37.614	.571
FixIrrel	Welch	6.775	1	44.521	.013
AvDurRelFix	Welch	4.988	1	41.665	.031
AvDurIrrelFix	Welch	8.655	1	43.437	.005
TotSac	Welch	2.724	1	72.760	.103
Sac2Key	Welch	10.183	1	77.868	.002
AvAttention	Welch	2.264	1	40.410	.140
AvMentWL	Welch	8.354	1	43.548	.006
AvFam	Welch	12.296	1	41.147	.001
AvSCL	Welch	2.062	1	44.167	.158
HRVar_RMSSD	Welch	60.151	1	69.852	.000
HRVar_NN50	Welch	10.065	1	54.272	.002
NASA_MD	Welch	12.393	1	30.824	.001
NASA_PD	Welch	3.489	1	28.433	.072
NASA_TD	Welch	4.662	1	28.717	.039
NASA_Performance	Welch	3.632	1	48.692	.063
NASA_Effort	Welch	17.238	1	33.862	.000
NASA_Frustration	Welch	7.310	1	40.926	.010
NASA_Score	Welch	.640	1	32.905	.429

a. Asymptotically F distributed.

ANOVA - use case templates, GenderMag risk facet, understanding task

		Sum of Squares	df	Mean Square	F	Sig.
Precision	Between Groups	.615	1	.615	20.736	.000
	Within Groups	2.314	78	.030		
	Total	2.930	79			
Recall	Between Groups	.148	1	.148	5.269	.024
	Within Groups	2.197	78	.028		
	Total	2.345	79			
FMeasure	Between Groups	.356	1	.356	13.028	.001
	Within Groups	2.133	78	.027		
	Total	2.490	79			
Duration	Between Groups	36056.601	1	36056.601	3.807	.055
	Within Groups	738791.887	78	9471.691		
	Total	774848.487	79			
FirstActDet	Between Groups	38419.736	1	38419.736	14.016	.000
	Within Groups	213806.464	78	2741.109		
	Total	252226.200	79			
LastActDet	Between Groups	109303.334	1	109303.334	11.552	.001
	Within Groups	738016.054	78	9461.744		
	Total	847319.388	79			
ProcDur	Between Groups	19803.467	1	19803.467	604.252	.000
	Within Groups	2556.333	78	32.774		
	Total	22359.800	79			
FixRel	Between Groups	.206	1	.206	.375	.542
	Within Groups	42.810	78	.549		
	Total	43.016	79			
FixIrrel	Between Groups	121835.176	1	121835.176	6.650	.012
	Within Groups	1428982.386	78	18320.287		
	Total	1550817.562	79			
AvDurRelFix	Between Groups	12253.951	1	12253.951	5.195	.025
	Within Groups	183980.205	78	2358.721		
	Total	196234.156	79			
AvDurIrrelFix	Between Groups	164325.713	1	164325.713	8.682	.004
	Within Groups	1476310.668	78	18927.060		
	Total	1640636.381	79			
TotSac	Between Groups	208.610	1	208.610	1.763	.188
	Within Groups	9231.190	78	118.349		
	Total	9439.800	79			
Sac2Key	Between Groups	358.438	1	358.438	5.602	.020
	Within Groups	4990.762	78	63.984		
	Total	5349.200	79			
AvAttention	Between Groups	.099	1	.099	2.426	.123
	Within Groups	3.185	78	.041		
	Total	3.284	79			
AvMentWL	Between Groups	.189	1	.189	8.361	.005
	Within Groups	1.759	78	.023		
	Total	1.948	79			
AvFam	Between Groups	.381	1	.381	12.956	.001
	Within Groups	2.294	78	.029		
	Total	2.675	79			
AvSCL	Between Groups	37054.821	1	37054.821	2.038	.157
	Within Groups	1417965.929	78	18179.050		

	Total	1455020.750	79			
HRVar_RMSSD	Between Groups	9613.926	1	9613.926	28.891	.000
	Within Groups	25955.652	78	332.765		
	Total	35569.578	79			
HRVar_NN50	Between Groups	2815.097	1	2815.097	8.388	.005
	Within Groups	26177.696	78	335.611		
	Total	28992.793	79			
NASA_MD	Between Groups	1843.810	1	1843.810	17.877	.000
	Within Groups	8044.940	78	103.140		
	Total	9888.750	79			
NASA_PD	Between Groups	990.536	1	990.536	5.627	.020
	Within Groups	13729.464	78	176.019		
	Total	14720.000	79			
NASA_TD	Between Groups	1760.952	1	1760.952	7.409	.008
	Within Groups	18537.798	78	237.664		
	Total	20298.750	79			
NASA_Performance	Between Groups	1268.810	1	1268.810	3.304	.073
	Within Groups	29951.190	78	383.990		
	Total	31220.000	79			
NASA_Effort	Between Groups	3795.015	1	3795.015	22.178	.000
	Within Groups	13347.173	78	171.118		
	Total	17142.187	79			
NASA_Frustration	Between Groups	2625.000	1	2625.000	7.741	.007
	Within Groups	26450.000	78	339.103		
	Total	29075.000	79			
NASA_Score	Between Groups	86.330	1	86.330	.851	.359
	Within Groups	7908.106	78	101.386		
	Total	7994.436	79			

Task * Risk - use case templates, GenderMag risk facet, understanding task

Dependent Variable	Task	Risk	Mean	Std. Error	95% Confidence Interval	
					Lower Bound	Upper Bound
Precision	ARNE Understand	Abby	.929 ^a	.065	.798	1.059
		Tim	.665 ^a	.039	.586	.745
	ALCO Understand	Abby	.970 ^a	.052	.866	1.074
		Tim	.894 ^a	.046	.802	.985
Recall	ARNE Understand	Abby	.852 ^a	.066	.720	.983
		Tim	.753 ^a	.040	.673	.833
	ALCO Understand	Abby	.965 ^a	.052	.860	1.070
		Tim	.914 ^a	.046	.821	1.007
FMeasure	ARNE Understand	Abby	.887 ^a	.063	.761	1.014
		Tim	.700 ^a	.038	.623	.777
	ALCO Understand	Abby	.966 ^a	.050	.865	1.067
		Tim	.903 ^a	.045	.814	.992
Duration	ARNE Understand	Abby	194.250 ^a	41.711	110.658	277.842
		Tim	278.658 ^a	25.342	227.872	329.445
	ALCO Understand	Abby	256.440 ^a	33.320	189.665	323.215
		Tim	318.163 ^a	29.408	259.228	377.097
FirstActDet	ARNE Understand	Abby	88.750 ^a	22.447	43.766	133.734
		Tim	34.742 ^a	13.637	7.412	62.072
	ALCO Understand	Abby	79.560 ^a	17.931	43.626	115.494
		Tim	42.258 ^a	15.825	10.544	73.973
LastActDet	ARNE Understand	Abby	155.625 ^a	41.832	71.792	239.458
		Tim	273.213 ^a	25.415	222.280	324.145
	ALCO Understand	Abby	216.025 ^a	33.416	149.057	282.993
		Tim	309.550 ^a	29.492	250.446	368.654
ProcDur	ARNE Understand	Abby	38.625 ^a	2.363	33.889	43.361
		Tim	5.446 ^a	1.436	2.569	8.323
	ALCO Understand	Abby	40.415 ^a	1.888	36.632	44.198
		Tim	8.612 ^a	1.666	5.274	11.951
FixRel	ARNE Understand	Abby	10.198 ^a	.277	9.643	10.753
		Tim	10.150 ^a	.168	9.813	10.488
	ALCO Understand	Abby	10.717 ^a	.221	10.273	11.160
		Tim	11.027 ^a	.195	10.636	11.418
FixIrrel	ARNE Understand	Abby	245.625 ^a	52.894	139.624	351.626
		Tim	239.060 ^a	32.136	174.659	303.461
	ALCO Understand	Abby	342.530 ^a	42.253	257.854	427.206
		Tim	252.058 ^a	37.291	177.325	326.792
AvDurRelFix	ARNE Understand	Abby	83.355 ^a	18.700	45.879	120.831
		Tim	83.397 ^a	11.361	60.628	106.166
	ALCO Understand	Abby	119.750 ^a	14.938	89.813	149.687
		Tim	88.908 ^a	13.184	62.487	115.330
AvDurIrrelFix	ARNE Understand	Abby	197.355 ^a	52.453	92.238	302.472
		Tim		31.868	128.971	256.699

	ALCO Understand	Abby	192.835 ^a			
		Tim	341.770 ^a	41.900	257.800	425.740
TotSac	ARNE Understand	Abby	87.083 ^a	4.326	78.414	95.753
		Tim	251.392 ^a	36.980	177.281	325.502
	ALCO Understand	Abby	87.950 ^a	3.456	81.025	94.875
		Tim	93.017 ^a	3.050	86.904	99.129
Sac2Key	ARNE Understand	Abby	7.167 ^a	3.186	.783	13.551
		Tim	15.194 ^a	1.935	11.315	19.072
	ALCO Understand	Abby	11.870 ^a	2.545	6.770	16.970
		Tim	17.079 ^a	2.246	12.578	21.580
AvAttention	ARNE Understand	Abby	.612 ^a	.067	.479	.746
		Tim	.654 ^a	.041	.573	.735
	ALCO Understand	Abby	.457 ^a	.053	.350	.564
		Tim	.543 ^a	.047	.449	.638
AvMentWL	ARNE Understand	Abby	.550 ^a	.063	.424	.676
		Tim	.578 ^a	.038	.502	.655
	ALCO Understand	Abby	.424 ^a	.050	.323	.524
		Tim	.524 ^a	.044	.435	.612
AvFam	ARNE Understand	Abby	.850 ^a	.056	.737	.963
		Tim	.870 ^a	.034	.801	.938
	ALCO Understand	Abby	.548 ^a	.045	.459	.638
		Tim	.628 ^a	.040	.548	.707
AvSCL	ARNE Understand	Abby	469.958 ^a	54.302	361.135	578.782
		Tim	604.208 ^a	32.991	538.092	670.324
	ALCO Understand	Abby	566.850 ^a	43.378	479.919	653.781
		Tim	568.054 ^a	38.284	491.331	644.777
HRVar_RMSSD	ARNE Understand	Abby	18.309 ^a	7.621	3.037	33.582
		Tim	39.948 ^a	4.630	30.669	49.227
	ALCO Understand	Abby	19.012 ^a	6.088	6.812	31.212
		Tim	41.112 ^a	5.373	30.344	51.879
HRVar_NN50	ARNE Understand	Abby	9.438 ^a	7.832	-6.258	25.135
		Tim	27.616 ^a	4.759	18.080	37.152
	ALCO Understand	Abby	12.857 ^a	6.257	.318	25.395
		Tim	28.335 ^a	5.522	17.269	39.402
NASA_MD	ARNE Understand	Abby	29.583 ^a	4.218	21.131	38.035
		Tim	42.427 ^a	2.562	37.292	47.562
	ALCO Understand	Abby	28.200 ^a	3.369	21.448	34.952
		Tim	44.813 ^a	2.973	38.854	50.771
NASA_PD	ARNE Understand	Abby	11.667 ^a	5.365	.914	22.419
		Tim	11.260 ^a	3.260	4.728	17.793
	ALCO Understand	Abby	24.250 ^a	4.286	15.661	32.839
		Tim	8.979 ^a	3.783	1.398	16.560
NASA_TD	ARNE Understand	Abby	32.083 ^a	6.233	19.591	44.575
		Tim	15.115 ^a	3.787	7.525	22.704
	ALCO	Abby	22.800 ^a	4.979	12.821	32.779

	Understand	Tim	14.250 ^a	4.395	5.443	23.057
NASA_Performance	ARNE Understand	Abby	80.417 ^a	8.205	63.974	96.860
		Tim	67.813 ^a	4.985	57.822	77.803
	ALCO Understand	Abby	76.050 ^a	6.554	62.915	89.185
		Tim	61.875 ^a	5.785	50.282	73.468
NASA_Effort	ARNE Understand	Abby	28.125 ^a	5.344	17.415	38.835
		Tim	42.406 ^a	3.247	35.899	48.913
	ALCO Understand	Abby	22.100 ^a	4.269	13.545	30.655
		Tim	42.937 ^a	3.768	35.387	50.488
NASA_Frustration	ARNE Understand	Abby	38.958 ^a	7.333	24.262	53.655
		Tim	23.354 ^a	4.455	14.425	32.283
	ALCO Understand	Abby	37.800 ^a	5.858	26.060	49.540
		Tim	26.396 ^a	5.170	16.034	36.757
NASA_Score	ARNE Understand	Abby	36.806 ^a	3.957	28.875	44.736
		Tim	33.729 ^a	2.404	28.911	38.547
	ALCO Understand	Abby	35.200 ^a	3.161	28.865	41.535
		Tim	33.208 ^a	2.790	27.617	38.800

a. Based on modified population marginal mean.

Robust Tests of Equality of Means - use case templates, GenderMag learning style facet, understanding task

		Statistic ^a	df1	df2	Sig.
Precision	Welch	.068	1	40.433	.795
Recall	Welch	.535	1	52.616	.468
FMeasure	Welch	.022	1	44.610	.882
Duration	Welch	.595	1	36.689	.445
FirstActDet	Welch	2.164	1	45.658	.148
LastActDet	Welch	.906	1	37.480	.347
ProcDur	Welch	2.029	1	48.697	.161
FixRel	Welch	.185	1	37.197	.669
FixIrrel	Welch	.235	1	45.307	.630
AvDurRelFix	Welch	.136	1	46.601	.714
AvDurIrrelFix	Welch	.525	1	47.599	.472
TotSac	Welch	1.778	1	44.716	.189
Sac2Key	Welch	.195	1	47.694	.661
AvAttention	Welch	.544	1	48.611	.464
AvMentWL	Welch	.078	1	43.969	.781
AvFam	Welch	.009	1	45.851	.925
AvSCL	Welch	3.689	1	50.233	.060
HRVar_RMSSD	Welch	.090	1	40.325	.766
HRVar_NN50	Welch	.001	1	40.102	.972
NASA_MD	Welch	.063	1	48.830	.803
NASA_PD	Welch	.849	1	39.437	.363
NASA_TD	Welch	.001	1	56.310	.973
NASA_Performance	Welch	.000	1	46.177	.990
NASA_Effort	Welch	.046	1	48.042	.831
NASA_Frustration	Welch	.004	1	50.169	.947
NASA_Score	Welch	.015	1	50.869	.903

a. Asymptotically F distributed.

ANOVA - use case templates, GenderMag learning style facet, understanding task

		Sum of Squares	df	Mean Square	F	Sig.
Precision	Between Groups	.003	1	.003	.073	.787
	Within Groups	2.927	78	.038		
	Total	2.930	79			
Recall	Between Groups	.014	1	.014	.457	.501
	Within Groups	2.332	78	.030		
	Total	2.345	79			
FMeasure	Between Groups	.001	1	.001	.022	.883
	Within Groups	2.489	78	.032		
	Total	2.490	79			
Duration	Between Groups	6909.315	1	6909.315	.702	.405
	Within Groups	767939.173	78	9845.374		
	Total	774848.487	79			
FirstActDet	Between Groups	6545.152	1	6545.152	2.078	.153
	Within Groups	245681.048	78	3149.757		
	Total	252226.200	79			
LastActDet	Between Groups	11206.501	1	11206.501	1.045	.310
	Within Groups	836112.887	78	10719.396		
	Total	847319.387	79			
ProcDur	Between Groups	517.038	1	517.038	1.846	.178
	Within Groups	21842.762	78	280.035		
	Total	22359.800	79			
FixRel	Between Groups	.119	1	.119	.215	.644
	Within Groups	42.897	78	.550		
	Total	43.016	79			
FixIrrel	Between Groups	4503.944	1	4503.944	.227	.635
	Within Groups	1546313.618	78	19824.534		
	Total	1550817.562	79			
AvDurRelFix	Between Groups	323.183	1	323.183	.129	.721
	Within Groups	195910.973	78	2511.679		
	Total	196234.156	79			
AvDurIrrelFix	Between Groups	10167.820	1	10167.820	.486	.488
	Within Groups	1630468.561	78	20903.443		
	Total	1640636.381	79			
TotSac	Between Groups	205.800	1	205.800	1.738	.191
	Within Groups	9234.000	78	118.385		
	Total	9439.800	79			
Sac2Key	Between Groups	12.343	1	12.343	.180	.672
	Within Groups	5336.857	78	68.421		
	Total	5349.200	79			
AvAttention	Between Groups	.021	1	.021	.495	.484
	Within Groups	3.263	78	.042		
	Total	3.284	79			
AvMentWL	Between Groups	.002	1	.002	.077	.782
	Within Groups	1.946	78	.025		
	Total	1.948	79			
AvFam	Between Groups	.000	1	.000	.009	.927
	Within Groups	2.675	78	.034		
	Total	2.675	79			
AvSCL	Between Groups	58575.238	1	58575.238	3.272	.074
	Within Groups	1396445.512	78	17903.148		

	Total	1455020.750	79			
HRVar_RMSSD	Between Groups	43.947	1	43.947	.096	.757
	Within Groups	35525.631	78	455.457		
	Total	35569.578	79			
HRVar_NN50	Between Groups	.504	1	.504	.001	.971
	Within Groups	28992.289	78	371.696		
	Total	28992.793	79			
NASA_MD	Between Groups	7.202	1	7.202	.057	.812
	Within Groups	9881.548	78	126.687		
	Total	9888.750	79			
NASA_PD	Between Groups	173.571	1	173.571	.931	.338
	Within Groups	14546.429	78	186.493		
	Total	14720.000	79			
NASA_TD	Between Groups	.238	1	.238	.001	.976
	Within Groups	20298.512	78	260.237		
	Total	20298.750	79			
NASA_Performance	Between Groups	.060	1	.060	.000	.990
	Within Groups	31219.940	78	400.256		
	Total	31220.000	79			
NASA_Effort	Between Groups	9.301	1	9.301	.042	.838
	Within Groups	17132.887	78	219.652		
	Total	17142.188	79			
NASA_Frustration	Between Groups	1.488	1	1.488	.004	.950
	Within Groups	29073.512	78	372.737		
	Total	29075.000	79			
NASA_Score	Between Groups	1.343	1	1.343	.013	.909
	Within Groups	7993.093	78	102.476		
	Total	7994.436	79			

Task * LearningStyle - use case templates, GenderMag learning style facet, understanding task

Dependent Variable	Task	LearningStyle	Mean	Std. Error	95% Confidence Interval	
					Lower Bound	Upper Bound
Precision	ARNE Understand	Abby	.685 ^a	.046	.593	.777
		Tim	.802 ^a	.048	.705	.899
	ALCO Understand	Abby	.992 ^a	.063	.865	1.119
		Tim	.880 ^a	.040	.800	.960
Recall	ARNE Understand	Abby	.778 ^a	.046	.685	.871
		Tim	.791 ^a	.049	.693	.889
	ALCO Understand	Abby	.992 ^a	.064	.864	1.120
		Tim	.897 ^a	.040	.816	.978
FMeasure	ARNE Understand	Abby	.723 ^a	.045	.634	.812
		Tim	.791 ^a	.047	.697	.885
	ALCO Understand	Abby	.992 ^a	.061	.868	1.115
		Tim	.887 ^a	.039	.810	.965
Duration	ARNE Understand	Abby	290.667 ^a	29.404	231.739	349.594
		Tim	221.848 ^a	31.077	159.567	284.128
	ALCO Understand	Abby	319.280 ^a	40.628	237.860	400.700
		Tim	278.887 ^a	25.568	227.648	330.127
FirstActDet	ARNE Understand	Abby	45.000 ^a	15.823	13.289	76.711
		Tim	58.276 ^a	16.724	24.761	91.791
	ALCO Understand	Abby	39.400 ^a	21.863	-4.415	83.215
		Tim	67.358 ^a	13.759	39.784	94.932
LastActDet	ARNE Understand	Abby	278.440 ^a	29.489	219.343	337.537
		Tim	202.286 ^a	31.167	139.826	264.745
	ALCO Understand	Abby	297.560 ^a	40.745	215.906	379.214
		Tim	258.591 ^a	25.642	207.203	309.978
ProcDur	ARNE Understand	Abby	12.227 ^a	1.666	8.888	15.565
		Tim	19.562 ^a	1.761	16.034	23.090
	ALCO Understand	Abby	21.720 ^a	2.302	17.107	26.333
		Tim	20.297 ^a	1.449	17.394	23.200
FixRel	ARNE Understand	Abby	10.167 ^a	.195	9.775	10.558
		Tim	10.166 ^a	.206	9.752	10.579
	ALCO Understand	Abby	10.864 ^a	.270	10.323	11.405
		Tim	10.935 ^a	.170	10.595	11.275
FixIrrel	ARNE Understand	Abby	281.603 ^a	37.287	206.879	356.328
		Tim	212.423 ^a	39.409	133.447	291.400
	ALCO Understand	Abby	289.220 ^a	51.519	185.973	392.467
		Tim	285.377 ^a	32.422	220.401	350.353
AvDurRelFix	ARNE Understand	Abby	99.283 ^a	13.183	72.865	125.702
		Tim	72.026 ^a	13.933	44.104	99.948
	ALCO Understand	Abby	103.740 ^a	18.214	67.238	140.242
		Tim	98.915 ^a	11.463	75.943	121.887
AvDurIrrelFix	ARNE Understand	Abby	233.921 ^a	36.976	159.819	308.023
		Tim		39.080	87.753	244.389

	ALCO Understand	Abby	166.071 ^a			
		Tim	288.220 ^a	51.090	185.834	390.606
TotSac	ARNE Understand	Abby	284.860 ^a	32.152	220.426	349.295
		Tim				
	ALCO Understand	Abby	88.013 ^a	3.050	81.902	94.125
		Tim	87.674 ^a	3.223	81.215	94.133
Sac2Key	ARNE Understand	Abby	95.640 ^a	4.214	87.196	104.084
		Tim	88.210 ^a	2.652	82.896	93.525
	ALCO Understand	Abby	13.827 ^a	2.246	9.326	18.327
		Tim	11.583 ^a	2.373	6.827	16.340
AvAttention	ARNE Understand	Abby	13.400 ^a	3.103	7.182	19.618
		Tim	16.123 ^a	1.953	12.210	20.036
	ALCO Understand	Abby	.563 ^a	.047	.468	.657
		Tim	.695 ^a	.050	.596	.795
AvMentWL	ARNE Understand	Abby	.472 ^a	.065	.342	.602
		Tim	.534 ^a	.041	.452	.616
	ALCO Understand	Abby	.529 ^a	.044	.441	.618
		Tim	.597 ^a	.047	.503	.691
AvFam	ARNE Understand	Abby	.448 ^a	.061	.325	.571
		Tim	.508 ^a	.038	.431	.586
	ALCO Understand	Abby	.816 ^a	.040	.737	.895
		Tim	.897 ^a	.042	.813	.981
AvSCL	ARNE Understand	Abby	.548 ^a	.055	.438	.658
		Tim	.628 ^a	.034	.559	.697
	ALCO Understand	Abby	579.400 ^a	38.280	502.686	656.114
		Tim	545.214 ^a	40.458	464.135	626.294
HRVar_RMSSD	ARNE Understand	Abby	617.680 ^a	52.891	511.684	723.676
		Tim	536.285 ^a	33.286	469.580	602.991
	ALCO Understand	Abby	35.342 ^a	5.372	24.576	46.108
		Tim	30.873 ^a	5.678	19.494	42.252
HRVar_NN50	ARNE Understand	Abby	37.565 ^a	7.423	22.689	52.441
		Tim	29.516 ^a	4.671	20.155	38.878
	ALCO Understand	Abby	25.494 ^a	5.521	14.429	36.559
		Tim	18.744 ^a	5.835	7.050	30.439
NASA_MD	ARNE Understand	Abby	24.047 ^a	7.629	8.758	39.335
		Tim	21.341 ^a	4.801	11.720	30.963
	ALCO Understand	Abby	37.400 ^a	2.973	31.442	43.358
		Tim	38.679 ^a	3.142	32.381	44.976
NASA_PD	ARNE Understand	Abby	36.200 ^a	4.108	27.968	44.432
		Tim	39.812 ^a	2.585	34.632	44.993
	ALCO Understand	Abby	16.400 ^a	3.782	8.820	23.980
		Tim	7.821 ^a	3.998	-.190	15.833
NASA_TD	ARNE Understand	Abby	15.200 ^a	5.226	4.727	25.673
		Tim	14.635 ^a	3.289	8.044	21.226
	ALCO Understand	Abby	14.933 ^a	4.394	6.127	23.739
		Tim	24.940 ^a	4.644	15.633	34.248
	ALCO Understand	Abby	19.800 ^a	6.071	7.633	31.967

	Understand	Tim	16.125 ^a	3.821	8.468	23.782
NASA_Performance	ARNE Understand	Abby	68.267 ^a	5.784	56.675	79.858
		Tim	74.690 ^a	6.113	62.440	86.941
	ALCO Understand	Abby	71.400 ^a	7.992	55.384	87.416
		Tim	64.781 ^a	5.029	54.702	74.860
NASA_Effort	ARNE Understand	Abby	36.533 ^a	3.767	28.983	44.083
		Tim	38.440 ^a	3.982	30.461	46.420
	ALCO Understand	Abby	34.200 ^a	5.205	23.768	44.632
		Tim	35.375 ^a	3.276	28.810	41.940
NASA_Frustration	ARNE Understand	Abby	20.200 ^a	5.170	9.840	30.560
		Tim	34.524 ^a	5.464	23.574	45.474
	ALCO Understand	Abby	36.400 ^a	7.143	22.085	50.715
		Tim	27.271 ^a	4.495	18.262	36.279
NASA_Score	ARNE Understand	Abby	32.289 ^a	2.790	26.698	37.880
		Tim	36.516 ^a	2.948	30.607	42.425
	ALCO Understand	Abby	35.533 ^a	3.855	27.809	43.258
		Tim	33.000 ^a	2.426	28.139	37.861

a. Based on modified population marginal mean.