

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

		Statistic ^a	df1	df2	Sig.
Precision	Welch	.363	1	76.357	.549
Recall	Welch	.173	1	74.401	.678
FMeasure	Welch	.265	1	75.495	.608
Duration	Welch	.245	1	76.031	.622
FirstActDet	Welch	4.138	1	76.659	.045
LastActDet	Welch	.055	1	76.615	.815
ProcDur	Welch	3.134	1	75.557	.081
FixRel	Welch	11.925	1	74.219	.001
FixIrrel	Welch	6.798	1	67.833	.011
AvDurRelFix	Welch	1.787	1	74.207	.185
AvDurIrrelFix	Welch	3.161	1	75.603	.079
TotSac	Welch	.765	1	75.600	.385
Sac2Key	Welch	.101	1	73.269	.752
AvAttention	Welch	5.467	1	76.778	.022
AvMentWL	Welch	.003	1	76.930	.956
AvFam	Welch	.219	1	75.721	.641
AvSCL	Welch	.210	1	75.208	.648
HRVar_RMSSD	Welch	.642	1	71.251	.426
HRVar_NN50	Welch	4.238	1	75.153	.043
NASA_MD	Welch	8.643	1	76.871	.004
NASA_PD	Welch	7.071	1	74.406	.010
NASA_TD	Welch	1.441	1	76.528	.234
NASA_Performance	Welch	7.784	1	74.670	.007
NASA_Effort	Welch	4.596	1	76.855	.035
NASA_Frustration	Welch	4.060	1	76.155	.047
NASA_Score	Welch	3.180	1	72.429	.079

a. Asymptotically F distributed.

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

		Sum of Squares	df	Mean Square	F	Sig.
Precision	Between Groups	.018	1	.018	.358	.552
	Within Groups	3.982	77	.052		
	Total	4.001	78			
Recall	Between Groups	.009	1	.009	.174	.678
	Within Groups	3.876	77	.050		
	Total	3.884	78			
FMeasure	Between Groups	.013	1	.013	.263	.609
	Within Groups	3.730	77	.048		
	Total	3.743	78			
Duration	Between Groups	3321.755	1	3321.755	.242	.624
	Within Groups	1057001.081	77	13727.287		
	Total	1060322.835	78			
FirstActDet	Between Groups	13853.282	1	13853.282	4.055	.048
	Within Groups	263048.186	77	3416.210		
	Total	276901.468	78			
LastActDet	Between Groups	799.016	1	799.016	.054	.817
	Within Groups	1141539.820	77	14825.192		
	Total	1142338.835	78			
ProcDur	Between Groups	862.468	1	862.468	3.110	.082
	Within Groups	21353.532	77	277.319		
	Total	22216.000	78			
FixRel	Between Groups	109.118	1	109.118	11.954	.001
	Within Groups	702.858	77	9.128		
	Total	811.976	78			
FixIrrel	Between Groups	169775.116	1	169775.116	7.035	.010
	Within Groups	1858184.724	77	24132.269		
	Total	2027959.839	78			
AvDurRelFix	Between Groups	4505.614	1	4505.614	1.791	.185
	Within Groups	193674.114	77	2515.248		
	Total	198179.727	78			
AvDurIrrelFix	Between Groups	81338.618	1	81338.618	3.136	.081
	Within Groups	1997206.411	77	25937.746		
	Total	2078545.028	78			
TotSac	Between Groups	91.166	1	91.166	.759	.386
	Within Groups	9254.378	77	120.187		
	Total	9345.544	78			
Sac2Key	Between Groups	8.675	1	8.675	.101	.751
	Within Groups	6590.540	77	85.591		
	Total	6599.215	78			
AvAttention	Between Groups	.214	1	.214	5.345	.023
	Within Groups	3.076	77	.040		
	Total	3.290	78			
AvMentWL	Between Groups	.000	1	.000	.003	.957
	Within Groups	2.627	77	.034		
	Total	2.627	78			
AvFam	Between Groups	.006	1	.006	.217	.642
	Within Groups	1.972	77	.026		
	Total	1.978	78			
AvSCL	Between Groups	4424.444	1	4424.444	.209	.649
	Within Groups	1627538.290	77	21136.861		

	Total	1631962.734	78			
HRVar_RMSSD	Between Groups	284.717	1	284.717	.654	.421
	Within Groups	33505.792	77	435.140		
	Total	33790.509	78			
HRVar_NN50	Between Groups	1549.162	1	1549.162	4.220	.043
	Within Groups	28266.611	77	367.099		
	Total	29815.774	78			
NASA_MD	Between Groups	690.610	1	690.610	8.312	.005
	Within Groups	6397.997	77	83.091		
	Total	7088.608	78			
NASA_PD	Between Groups	1611.893	1	1611.893	6.633	.012
	Within Groups	18712.791	77	243.023		
	Total	20324.684	78			
NASA_TD	Between Groups	330.243	1	330.243	1.415	.238
	Within Groups	17968.492	77	233.357		
	Total	18298.734	78			
NASA_Performance	Between Groups	3594.113	1	3594.113	7.779	.007
	Within Groups	35577.406	77	462.044		
	Total	39171.519	78			
NASA_Effort	Between Groups	661.613	1	661.613	4.418	.039
	Within Groups	11532.057	77	149.767		
	Total	12193.671	78			
NASA_Frustration	Between Groups	1499.130	1	1499.130	4.006	.049
	Within Groups	28817.959	77	374.259		
	Total	30317.089	78			
NASA_Score	Between Groups	306.187	1	306.187	3.221	.077
	Within Groups	7319.850	77	95.063		
	Total	7626.037	78			

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

Dependent Variable	Task	Motivation	Mean	Std. Error	95% Confidence Interval	
					Lower Bound	Upper Bound
Precision	ARNE Modify	Abby	.735 ^a	.061	.614	.857
		Tim	.730 ^a	.047	.635	.825
	ALCO Modify	Abby	.866 ^a	.056	.753	.979
		Tim	.860 ^a	.057	.746	.975
Recall	ARNE Modify	Abby	.704 ^a	.069	.566	.842
		Tim	.717 ^a	.054	.609	.824
	ALCO Modify	Abby	.846 ^a	.064	.718	.974
		Tim	.911 ^a	.065	.781	1.042
FMeasure	ARNE Modify	Abby	.714 ^a	.064	.586	.841
		Tim	.720 ^a	.050	.620	.819
	ALCO Modify	Abby	.852 ^a	.059	.733	.970
		Tim	.881 ^a	.060	.761	1.002
Duration	ARNE Modify	Abby	576.810 ^a	34.937	506.637	646.983
		Tim	590.456 ^a	27.257	535.709	645.202
	ALCO Modify	Abby	519.018 ^a	32.486	453.767	584.269
		Tim	491.524 ^a	33.002	425.237	557.811
FirstActDet	ARNE Modify	Abby	121.833 ^a	14.553	92.603	151.063
		Tim	132.641 ^a	11.354	109.836	155.445
	ALCO Modify	Abby	52.445 ^a	13.532	25.266	79.625
		Tim	100.286 ^a	13.747	72.674	127.897
LastActDet	ARNE Modify	Abby	549.464 ^a	35.029	479.107	619.821
		Tim	571.546 ^a	27.328	516.656	626.437
	ALCO Modify	Abby	494.075 ^a	32.572	428.653	559.497
		Tim	472.000 ^a	33.089	405.539	538.461
ProcDur	ARNE Modify	Abby	27.345 ^a	1.880	23.568	31.122
		Tim	18.909 ^a	1.467	15.963	21.856
	ALCO Modify	Abby	24.943 ^a	1.749	21.431	28.455
		Tim	19.524 ^a	1.776	15.956	23.092
FixRel	ARNE Modify	Abby	10.160 ^a	.231	9.697	10.623
		Tim	10.294 ^a	.180	9.933	10.656
	ALCO Modify	Abby	4.018 ^a	.214	3.588	4.449
		Tim	4.155 ^a	.218	3.717	4.592
FixIrrel	ARNE Modify	Abby	250.417 ^a	22.187	205.854	294.981
		Tim	308.308 ^a	17.309	273.541	343.075
	ALCO Modify	Abby	5.520 ^a	20.631	-35.918	46.957
		Tim	3.043 ^a	20.958	-39.052	45.139
AvDurRelFix	ARNE Modify	Abby	88.407 ^a	11.708	64.891	111.923
		Tim	109.202 ^a	9.134	90.855	127.548
	ALCO Modify	Abby	146.857 ^a	10.887	124.990	168.724
		Tim	125.292 ^a	11.060	103.078	147.506
AvDurIrrelFix	ARNE Modify	Abby	201.693 ^a	33.692	134.021	269.364
		Tim		26.285	207.014	312.604

	ALCO Modify	Abby	259.809 ^a			
		Tim	436.570 ^a	31.328	373.645	499.496
			371.875 ^a	31.826	307.951	435.799
TotSac	ARNE Modify	Abby	83.167 ^a	3.340	76.458	89.875
		Tim	81.204 ^a	2.606	75.970	86.437
	ALCO Modify	Abby	87.467 ^a	3.106	81.230	93.705
		Tim	89.619 ^a	3.155	83.282	95.956
Sac2Key	ARNE Modify	Abby	9.357 ^a	2.760	3.813	14.901
		Tim	13.193 ^a	2.153	8.867	17.518
	ALCO Modify	Abby	15.323 ^a	2.567	10.168	20.479
		Tim	19.429 ^a	2.607	14.192	24.666
AvAttention	ARNE Modify	Abby	.690 ^a	.046	.598	.783
		Tim	.620 ^a	.036	.547	.692
	ALCO Modify	Abby	.664 ^a	.043	.578	.750
		Tim	.700 ^a	.043	.613	.787
AvMentWL	ARNE Modify	Abby	.696 ^a	.055	.585	.807
		Tim	.580 ^a	.043	.494	.667
	ALCO Modify	Abby	.548 ^a	.051	.445	.651
		Tim	.667 ^a	.052	.562	.772
AvFam	ARNE Modify	Abby	.782 ^a	.046	.690	.874
		Tim	.680 ^a	.036	.608	.752
	ALCO Modify	Abby	.566 ^a	.043	.481	.652
		Tim	.657 ^a	.043	.570	.744
AvSCL	ARNE Modify	Abby	488.083 ^a	39.016	409.718	566.449
		Tim	530.154 ^a	30.439	469.015	591.292
	ALCO Modify	Abby	537.706 ^a	36.279	464.837	610.575
		Tim	480.452 ^a	36.855	406.427	554.478
HRVar_RMSSD	ARNE Modify	Abby	27.058 ^a	6.260	14.485	39.631
		Tim	36.605 ^a	4.884	26.796	46.414
	ALCO Modify	Abby	35.123 ^a	5.821	23.432	46.814
		Tim	26.141 ^a	5.913	14.264	38.018
HRVar_NN50	ARNE Modify	Abby	12.721 ^a	6.580	-.495	25.937
		Tim	32.337 ^a	5.133	22.026	42.647
	ALCO Modify	Abby	29.410 ^a	6.118	17.121	41.699
		Tim	24.448 ^a	6.215	11.963	36.932
NASA_MD	ARNE Modify	Abby	42.500 ^a	2.175	38.131	46.869
		Tim	47.815 ^a	1.697	44.407	51.223
	ALCO Modify	Abby	40.473 ^a	2.022	36.411	44.536
		Tim	49.405 ^a	2.055	45.278	53.531
NASA_PD	ARNE Modify	Abby	21.071 ^a	3.665	13.709	28.434
		Tim	15.130 ^a	2.860	9.386	20.873
	ALCO Modify	Abby	13.587 ^a	3.408	6.741	20.433
		Tim	10.476 ^a	3.462	3.522	17.431
NASA_TD	ARNE Modify	Abby	35.893 ^a	3.061	29.745	42.040
		Tim	15.731 ^a	2.388	10.935	20.528
	ALCO	Abby	16.807 ^a	2.846	11.090	22.523

	Modify	Tim	18.810 ^a	2.891	13.002	24.617
NASA_Performance	ARNE Modify	Abby	60.833 ^a	6.585	47.607	74.059
		Tim	49.704 ^a	5.137	39.385	60.022
	ALCO Modify	Abby	63.345 ^a	6.123	51.046	75.643
		Tim	51.429 ^a	6.220	38.935	63.922
NASA_Effort	ARNE Modify	Abby	39.881 ^a	3.444	32.963	46.799
		Tim	45.167 ^a	2.687	39.770	50.564
	ALCO Modify	Abby	38.580 ^a	3.203	32.147	45.012
		Tim	46.071 ^a	3.253	39.537	52.606
NASA_Frustration	ARNE Modify	Abby	35.357 ^a	5.730	23.847	46.867
		Tim	16.722 ^a	4.471	7.743	25.702
	ALCO Modify	Abby	25.492 ^a	5.328	14.790	36.195
		Tim	20.357 ^a	5.413	9.485	31.230
NASA_Score	ARNE Modify	Abby	39.256 ^a	2.699	33.834	44.678
		Tim	31.711 ^a	2.106	27.482	35.941
	ALCO Modify	Abby	33.047 ^a	2.510	28.006	38.089
		Tim	32.758 ^a	2.550	27.636	37.879

a. Based on modified population marginal mean.

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

		Statistic ^a	df1	df2	Sig.
Precision	Welch	.822	1	70.979	.368
Recall	Welch	.120	1	66.769	.730
FMeasure	Welch	.476	1	69.062	.493
Duration	Welch	5.094	1	72.515	.027
FirstActDet	Welch	.028	1	53.903	.867
LastActDet	Welch	2.864	1	71.771	.095
ProcDur	Welch	10.625	1	67.352	.002
FixRel	Welch	5.916	1	63.269	.018
FixIrrel	Welch	.447	1	65.434	.506
AvDurRelFix	Welch	11.242	1	52.402	.001
AvDurIrrelFix	Welch	11.931	1	57.165	.001
TotSac	Welch	2.263	1	63.625	.137
Sac2Key	Welch	5.227	1	72.600	.025
AvAttention	Welch	56.744	1	75.857	.000
AvMentWL	Welch	4.802	1	76.993	.031
AvFam	Welch	8.438	1	70.578	.005
AvSCL	Welch	5.903	1	70.688	.018
HRVar_RMSSD	Welch	6.414	1	51.875	.014
HRVar_NN50	Welch	1.056	1	59.646	.308
NASA_MD	Welch	4.572	1	45.453	.038
NASA_PD	Welch	10.923	1	76.385	.001
NASA_TD	Welch	1.992	1	41.768	.166
NASA_Performance	Welch	.520	1	73.818	.473
NASA_Effort	Welch	1.442	1	48.957	.236
NASA_Frustration	Welch	.606	1	64.020	.439
NASA_Score	Welch	.077	1	55.915	.782

a. Asymptotically F distributed.

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

		Sum of Squares	df	Mean Square	F	Sig.
Precision	Between Groups	.038	1	.038	.743	.391
	Within Groups	3.962	77	.051		
	Total	4.001	78			
Recall	Between Groups	.006	1	.006	.114	.737
	Within Groups	3.879	77	.050		
	Total	3.884	78			
FMeasure	Between Groups	.021	1	.021	.440	.509
	Within Groups	3.722	77	.048		
	Total	3.743	78			
Duration	Between Groups	58773.818	1	58773.818	4.519	.037
	Within Groups	1001549.018	77	13007.130		
	Total	1060322.835	78			
FirstActDet	Between Groups	109.685	1	109.685	.031	.862
	Within Groups	276791.783	77	3594.698		
	Total	276901.468	78			
LastActDet	Between Groups	36824.035	1	36824.035	2.565	.113
	Within Groups	1105514.800	77	14357.335		
	Total	1142338.835	78			
ProcDur	Between Groups	2554.011	1	2554.011	10.002	.002
	Within Groups	19661.989	77	255.351		
	Total	22216.000	78			
FixRel	Between Groups	56.952	1	56.952	5.808	.018
	Within Groups	755.024	77	9.806		
	Total	811.976	78			
FixIrrel	Between Groups	11233.982	1	11233.982	.429	.514
	Within Groups	2016725.857	77	26191.245		
	Total	2027959.839	78			
AvDurRelFix	Between Groups	27435.050	1	27435.050	12.372	.001
	Within Groups	170744.677	77	2217.463		
	Total	198179.727	78			
AvDurIrrelFix	Between Groups	289697.241	1	289697.241	12.470	.001
	Within Groups	1788847.788	77	23231.789		
	Total	2078545.028	78			
TotSac	Between Groups	261.242	1	261.242	2.214	.141
	Within Groups	9084.302	77	117.978		
	Total	9345.544	78			
Sac2Key	Between Groups	374.415	1	374.415	4.631	.035
	Within Groups	6224.800	77	80.842		
	Total	6599.215	78			
AvAttention	Between Groups	1.258	1	1.258	47.665	.000
	Within Groups	2.032	77	.026		
	Total	3.290	78			
AvMentWL	Between Groups	.124	1	.124	3.821	.054
	Within Groups	2.503	77	.033		
	Total	2.627	78			
AvFam	Between Groups	.179	1	.179	7.665	.007
	Within Groups	1.799	77	.023		
	Total	1.978	78			
AvSCL	Between Groups	106117.645	1	106117.645	5.355	.023
	Within Groups	1525845.089	77	19816.170		
	Total					

	Total	1631962.734	78			
HRVar_RMSSD	Between Groups	2853.292	1	2853.292	7.102	.009
	Within Groups	30937.217	77	401.782		
	Total	33790.509	78			
HRVar_NN50	Between Groups	410.761	1	410.761	1.076	.303
	Within Groups	29405.013	77	381.883		
	Total	29815.774	78			
NASA_MD	Between Groups	470.904	1	470.904	5.479	.022
	Within Groups	6617.704	77	85.944		
	Total	7088.608	78			
NASA_PD	Between Groups	2003.918	1	2003.918	8.422	.005
	Within Groups	18320.765	77	237.932		
	Total	20324.684	78			
NASA_TD	Between Groups	579.006	1	579.006	2.516	.117
	Within Groups	17719.728	77	230.126		
	Total	18298.734	78			
NASA_Performance	Between Groups	229.274	1	229.274	.453	.503
	Within Groups	38942.245	77	505.743		
	Total	39171.519	78			
NASA_Effort	Between Groups	256.239	1	256.239	1.653	.202
	Within Groups	11937.432	77	155.032		
	Total	12193.671	78			
NASA_Frustration	Between Groups	230.609	1	230.609	.590	.445
	Within Groups	30086.480	77	390.734		
	Total	30317.089	78			
NASA_Score	Between Groups	8.074	1	8.074	.082	.776
	Within Groups	7617.963	77	98.935		
	Total	7626.037	78			

Task * InformationProcessing - use case templates, GenderMag information processing facet, modification task						
Dependent Variable	Task	InformationProcessing	Mean	Std. Error	95% Confidence Interval	
					Lower Bound	Upper Bound
Precision	ARNE Modify	Abby	.689 ^a	.053	.583	.796
		Tim	.787 ^a	.052	.683	.892
	ALCO Modify	Abby	.963 ^a	.063	.838	1.089
		Tim	.777 ^a	.052	.672	.882
Recall	ARNE Modify	Abby	.647 ^a	.060	.526	.767
		Tim	.794 ^a	.059	.675	.912
	ALCO Modify	Abby	.950 ^a	.071	.808	1.092
		Tim	.822 ^a	.059	.703	.941
FMeasure	ARNE Modify	Abby	.664 ^a	.056	.553	.776
		Tim	.785 ^a	.055	.676	.895
	ALCO Modify	Abby	.952 ^a	.066	.821	1.084
		Tim	.795 ^a	.055	.685	.905
Duration	ARNE Modify	Abby	544.122 ^a	30.595	482.671	605.574
		Tim	636.381 ^a	30.023	576.079	696.683
	ALCO Modify	Abby	480.667 ^a	36.104	408.149	553.185
		Tim	524.397 ^a	30.114	463.912	584.881
FirstActDet	ARNE Modify	Abby	125.678 ^a	12.744	100.081	151.275
		Tim	130.786 ^a	12.506	105.667	155.904
	ALCO Modify	Abby	62.500 ^a	15.039	32.293	92.707
		Tim	91.668 ^a	12.544	66.473	116.862
LastActDet	ARNE Modify	Abby	525.315 ^a	30.675	463.702	586.928
		Tim	608.905 ^a	30.101	548.444	669.365
	ALCO Modify	Abby	460.875 ^a	36.199	388.167	533.583
		Tim	500.457 ^a	30.193	439.814	561.101
ProcDur	ARNE Modify	Abby	18.807 ^a	1.647	15.500	22.115
		Tim	27.476 ^a	1.616	24.231	30.722
	ALCO Modify	Abby	19.792 ^a	1.943	15.889	23.695
		Tim	23.939 ^a	1.621	20.684	27.195
FixRel	ARNE Modify	Abby	10.422 ^a	.202	10.017	10.828
		Tim	9.996 ^a	.198	9.598	10.394
	ALCO Modify	Abby	4.423 ^a	.238	3.945	4.902
		Tim	3.808 ^a	.199	3.408	4.207
FixIrrel	ARNE Modify	Abby	245.058 ^a	19.429	206.033	284.083
		Tim	331.739 ^a	19.066	293.443	370.034
	ALCO Modify	Abby	7.004 ^a	22.928	-39.049	53.057
		Tim	1.771 ^a	19.124	-36.640	40.182
AvDurRelFix	ARNE Modify	Abby	86.489 ^a	10.253	65.895	107.082
		Tim	117.610 ^a	10.061	97.401	137.818
	ALCO Modify	Abby	112.479 ^a	12.099	88.177	136.781
		Tim	154.758 ^a	10.092	134.489	175.028
AvDurIrrelFix	ARNE Modify	Abby	196.781 ^a	29.504	137.520	256.042

	Modify	Tim	282.729 ^a	28.952	224.576	340.881
	ALCO Modify	Abby	333.437 ^a	34.817	263.505	403.370
		Tim	460.275 ^a	29.040	401.946	518.603
TotSac	ARNE Modify	Abby	81.889 ^a	2.925	76.014	87.764
		Tim	82.286 ^a	2.870	76.521	88.051
	ALCO Modify	Abby	88.625 ^a	3.452	81.692	95.558
		Tim	88.627 ^a	2.879	82.845	94.409
Sac2Key	ARNE Modify	Abby	10.248 ^a	2.417	5.393	15.103
		Tim	13.143 ^a	2.372	8.379	17.907
	ALCO Modify	Abby	14.875 ^a	2.852	9.146	20.604
		Tim	19.813 ^a	2.379	15.034	24.592
AvAttention	ARNE Modify	Abby	.749 ^a	.040	.668	.830
		Tim	.524 ^a	.040	.444	.603
	ALCO Modify	Abby	.742 ^a	.048	.646	.837
		Tim	.634 ^a	.040	.554	.713
AvMentWL	ARNE Modify	Abby	.694 ^a	.048	.597	.791
		Tim	.550 ^a	.047	.455	.645
	ALCO Modify	Abby	.679 ^a	.057	.564	.794
		Tim	.554 ^a	.048	.459	.650
AvFam	ARNE Modify	Abby	.794 ^a	.040	.713	.875
		Tim	.636 ^a	.039	.556	.715
	ALCO Modify	Abby	.679 ^a	.047	.584	.774
		Tim	.561 ^a	.040	.481	.640
AvSCL	ARNE Modify	Abby	554.144 ^a	34.167	485.518	622.770
		Tim	457.238 ^a	33.528	389.895	524.581
	ALCO Modify	Abby	584.000 ^a	40.320	503.016	664.984
		Tim	440.772 ^a	33.629	373.225	508.318
HRVar_RMSSD	ARNE Modify	Abby	35.016 ^a	5.482	24.005	46.026
		Tim	29.102 ^a	5.379	18.297	39.906
	ALCO Modify	Abby	40.120 ^a	6.469	27.127	53.113
		Tim	21.858 ^a	5.396	11.021	32.695
HRVar_NN50	ARNE Modify	Abby	19.573 ^a	5.762	7.999	31.146
		Tim	29.132 ^a	5.654	17.775	40.489
	ALCO Modify	Abby	27.320 ^a	6.800	13.662	40.978
		Tim	26.239 ^a	5.671	14.848	37.631
NASA_MD	ARNE Modify	Abby	46.148 ^a	1.905	42.323	49.974
		Tim	44.643 ^a	1.869	40.889	48.397
	ALCO Modify	Abby	46.875 ^a	2.248	42.360	51.390
		Tim	43.918 ^a	1.875	40.152	47.683
NASA_PD	ARNE Modify	Abby	15.685 ^a	3.210	9.238	22.132
		Tim	20.357 ^a	3.150	14.030	26.684
	ALCO Modify	Abby	6.875 ^a	3.788	-.733	14.483
		Tim	16.229 ^a	3.159	9.884	22.575
NASA_TD	ARNE Modify	Abby	30.870 ^a	2.680	25.487	36.254
		Tim	16.429 ^a	2.630	11.146	21.711
	ALCO	Abby	24.375 ^a	3.163	18.022	30.728

	Modify	Tim	12.323 ^a	2.638	7.024	17.621
NASA_Performance	ARNE Modify	Abby	57.944 ^a	5.766	46.362	69.527
		Tim	50.238 ^a	5.659	38.872	61.604
	ALCO Modify	Abby	63.958 ^a	6.805	50.290	77.626
		Tim	50.903 ^a	5.676	39.502	62.303
NASA_Effort	ARNE Modify	Abby	43.037 ^a	3.016	36.979	49.095
		Tim	42.619 ^a	2.960	36.674	48.564
	ALCO Modify	Abby	42.708 ^a	3.559	35.559	49.857
		Tim	42.532 ^a	2.969	36.570	48.495
NASA_Frustration	ARNE Modify	Abby	30.333 ^a	5.018	20.254	40.413
		Tim	17.857 ^a	4.924	7.966	27.748
	ALCO Modify	Abby	33.333 ^a	5.922	21.439	45.228
		Tim	13.636 ^a	4.939	3.716	23.557
NASA_Score	ARNE Modify	Abby	37.336 ^a	2.364	32.589	42.084
		Tim	32.024 ^a	2.320	27.365	36.683
	ALCO Modify	Abby	36.354 ^a	2.790	30.751	41.957
		Tim	29.924 ^a	2.327	25.250	34.597

a. Based on modified population marginal mean.

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

		Statistic ^a	df1	df2	Sig.
Precision	Welch	5.487	1	76.838	.022
Recall	Welch	4.029	1	76.697	.048
FMeasure	Welch	5.006	1	76.746	.028
Duration	Welch	.911	1	75.058	.343
FirstActDet	Welch	3.213	1	60.072	.078
LastActDet	Welch	.595	1	75.356	.443
ProcDur	Welch	1.122	1	74.783	.293
FixRel	Welch	2.323	1	75.631	.132
FixIrrel	Welch	.906	1	73.912	.344
AvDurRelFix	Welch	5.776	1	72.531	.019
AvDurIrrelFix	Welch	6.298	1	74.736	.014
TotSac	Welch	2.646	1	73.479	.108
Sac2Key	Welch	.113	1	68.471	.738
AvAttention	Welch	13.787	1	72.488	.000
AvMentWL	Welch	.660	1	75.926	.419
AvFam	Welch	.819	1	76.916	.368
AvSCL	Welch	.152	1	76.660	.698
HRVar_RMSSD	Welch	.001	1	70.728	.980
HRVar_NN50	Welch	.038	1	73.230	.846
NASA_MD	Welch	2.842	1	68.890	.096
NASA_PD	Welch	4.891	1	76.692	.030
NASA_TD	Welch	.490	1	56.143	.487
NASA_Performance	Welch	1.373	1	75.822	.245
NASA_Effort	Welch	1.124	1	73.326	.293
NASA_Frustration	Welch	.309	1	75.340	.580
NASA_Score	Welch	.022	1	67.978	.883

a. Asymptotically F distributed.

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

		Sum of Squares	df	Mean Square	F	Sig.
Precision	Between Groups	.260	1	.260	5.357	.023
	Within Groups	3.740	77	.049		
	Total	4.001	78			
Recall	Between Groups	.189	1	.189	3.946	.051
	Within Groups	3.695	77	.048		
	Total	3.884	78			
FMeasure	Between Groups	.224	1	.224	4.898	.030
	Within Groups	3.519	77	.046		
	Total	3.743	78			
Duration	Between Groups	12359.753	1	12359.753	.908	.344
	Within Groups	1047963.083	77	13609.910		
	Total	1060322.835	78			
FirstActDet	Between Groups	11807.804	1	11807.804	3.430	.068
	Within Groups	265093.664	77	3442.775		
	Total	276901.468	78			
LastActDet	Between Groups	8710.085	1	8710.085	.592	.444
	Within Groups	1133628.750	77	14722.451		
	Total	1142338.835	78			
ProcDur	Between Groups	318.501	1	318.501	1.120	.293
	Within Groups	21897.499	77	284.383		
	Total	22216.000	78			
FixRel	Between Groups	23.591	1	23.591	2.304	.133
	Within Groups	788.385	77	10.239		
	Total	811.976	78			
FixIrrel	Between Groups	23690.562	1	23690.562	.910	.343
	Within Groups	2004269.278	77	26029.471		
	Total	2027959.839	78			
AvDurRelFix	Between Groups	13987.562	1	13987.562	5.847	.018
	Within Groups	184192.166	77	2392.106		
	Total	198179.727	78			
AvDurIrrelFix	Between Groups	156989.164	1	156989.164	6.291	.014
	Within Groups	1921555.864	77	24955.271		
	Total	2078545.028	78			
TotSac	Between Groups	312.608	1	312.608	2.665	.107
	Within Groups	9032.936	77	117.311		
	Total	9345.544	78			
Sac2Key	Between Groups	9.948	1	9.948	.116	.734
	Within Groups	6589.267	77	85.575		
	Total	6599.215	78			
AvAttention	Between Groups	.505	1	.505	13.962	.000
	Within Groups	2.785	77	.036		
	Total	3.290	78			
AvMentWL	Between Groups	.021	1	.021	.626	.431
	Within Groups	2.606	77	.034		
	Total	2.627	78			
AvFam	Between Groups	.020	1	.020	.798	.375
	Within Groups	1.957	77	.025		
	Total	1.978	78			
AvSCL	Between Groups	3074.380	1	3074.380	.145	.704
	Within Groups	1628888.354	77	21154.394		

	Total	1631962.734	78			
HRVar_RMSSD	Between Groups	.297	1	.297	.001	.979
	Within Groups	33790.212	77	438.834		
	Total	33790.509	78			
HRVar_NN50	Between Groups	14.869	1	14.869	.038	.845
	Within Groups	29800.905	77	387.025		
	Total	29815.774	78			
NASA_MD	Between Groups	259.651	1	259.651	2.928	.091
	Within Groups	6828.957	77	88.688		
	Total	7088.608	78			
NASA_PD	Between Groups	1190.300	1	1190.300	4.790	.032
	Within Groups	19134.383	77	248.498		
	Total	20324.684	78			
NASA_TD	Between Groups	125.333	1	125.333	.531	.468
	Within Groups	18173.401	77	236.018		
	Total	18298.734	78			
NASA_Performance	Between Groups	679.384	1	679.384	1.359	.247
	Within Groups	38492.135	77	499.898		
	Total	39171.519	78			
NASA_Effort	Between Groups	176.810	1	176.810	1.133	.290
	Within Groups	12016.860	77	156.063		
	Total	12193.671	78			
NASA_Frustration	Between Groups	120.577	1	120.577	.307	.581
	Within Groups	30196.512	77	392.162		
	Total	30317.089	78			
NASA_Score	Between Groups	2.240	1	2.240	.023	.881
	Within Groups	7623.798	77	99.010		
	Total	7626.037	78			

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

Dependent Variable	Task	SelfEfficacy	Mean	Std. Error	95% Confidence Interval	
					Lower Bound	Upper Bound
Precision	ARNE Modify	Abby	.796 ^a	.049	.698	.895
		Tim	.625 ^a	.058	.510	.741
	ALCO Modify	Abby	.873 ^a	.054	.765	.981
		Tim	.847 ^a	.060	.727	.967
Recall	ARNE Modify	Abby	.753 ^a	.056	.641	.864
		Tim	.641 ^a	.065	.510	.773
	ALCO Modify	Abby	.893 ^a	.061	.770	1.015
		Tim	.863 ^a	.068	.727	.999
FMeasure	ARNE Modify	Abby	.770 ^a	.051	.667	.873
		Tim	.630 ^a	.061	.508	.751
	ALCO Modify	Abby	.878 ^a	.056	.765	.991
		Tim	.851 ^a	.063	.725	.977
Duration	ARNE Modify	Abby	575.050 ^a	28.293	518.221	631.879
		Tim	600.211 ^a	33.306	533.314	667.108
	ALCO Modify	Abby	497.458 ^a	31.037	435.119	559.797
		Tim	515.022 ^a	34.474	445.778	584.266
FirstActDet	ARNE Modify	Abby	144.217 ^a	11.785	120.545	167.888
		Tim	100.739 ^a	13.873	72.874	128.604
	ALCO Modify	Abby	78.875 ^a	12.928	52.908	104.842
		Tim	77.135 ^a	14.360	48.292	105.978
LastActDet	ARNE Modify	Abby	550.992 ^a	28.368	494.013	607.970
		Tim	580.042 ^a	33.393	512.969	647.114
	ALCO Modify	Abby	474.406 ^a	31.118	411.904	536.909
		Tim	494.640 ^a	34.565	425.214	564.066
ProcDur	ARNE Modify	Abby	24.058 ^a	1.523	21.000	27.117
		Tim	20.169 ^a	1.793	16.569	23.770
	ALCO Modify	Abby	23.052 ^a	1.670	19.697	26.407
		Tim	20.382 ^a	1.856	16.655	24.109
FixRel	ARNE Modify	Abby	10.172 ^a	.187	9.797	10.547
		Tim	10.341 ^a	.220	9.900	10.783
	ALCO Modify	Abby	4.098 ^a	.205	3.686	4.509
		Tim	4.082 ^a	.228	3.625	4.539
FixIrrel	ARNE Modify	Abby	284.993 ^a	17.968	248.904	321.083
		Tim	279.627 ^a	21.151	237.144	322.110
	ALCO Modify	Abby	4.945 ^a	19.710	-34.644	44.533
		Tim	2.973 ^a	21.893	-41.001	46.946
AvDurRelFix	ARNE Modify	Abby	100.317 ^a	9.482	81.272	119.361
		Tim	99.750 ^a	11.161	77.332	122.168
	ALCO Modify	Abby	120.693 ^a	10.401	99.802	141.584
		Tim	158.528 ^a	11.553	135.323	181.733
AvDurlrrelFix	ARNE Modify	Abby	236.392 ^a	27.285	181.589	291.196
		Tim		32.119	166.523	295.547

	ALCO Modify	Abby	231.035 ^a			
		Tim	358.078 ^a	29.930	297.961	418.195
			471.585 ^a	33.246	404.809	538.360
TotSac	ARNE Modify	Abby	81.283 ^a	2.705	75.851	86.716
		Tim	83.361 ^a	3.184	76.966	89.756
	ALCO Modify	Abby	86.885 ^a	2.967	80.926	92.845
		Tim	91.411 ^a	3.296	84.791	98.031
Sac2Key	ARNE Modify	Abby	11.833 ^a	2.235	7.343	16.323
		Tim	10.983 ^a	2.631	5.698	16.269
	ALCO Modify	Abby	17.406 ^a	2.452	12.481	22.331
		Tim	17.738 ^a	2.724	12.267	23.209
AvAttention	ARNE Modify	Abby	.617 ^a	.037	.542	.692
		Tim	.707 ^a	.044	.619	.795
	ALCO Modify	Abby	.794 ^a	.041	.712	.876
		Tim	.507 ^a	.045	.416	.598
AvMentWL	ARNE Modify	Abby	.614 ^a	.045	.524	.704
		Tim	.659 ^a	.053	.553	.765
	ALCO Modify	Abby	.630 ^a	.049	.532	.729
		Tim	.583 ^a	.055	.473	.692
AvFam	ARNE Modify	Abby	.714 ^a	.037	.639	.789
		Tim	.743 ^a	.044	.655	.830
	ALCO Modify	Abby	.622 ^a	.041	.540	.704
		Tim	.605 ^a	.045	.514	.696
AvSCL	ARNE Modify	Abby	505.908 ^a	31.597	442.444	569.372
		Tim	521.481 ^a	37.194	446.774	596.188
	ALCO Modify	Abby	500.583 ^a	34.660	430.966	570.200
		Tim	516.947 ^a	38.499	439.619	594.275
HRVar_RMSSD	ARNE Modify	Abby	27.744 ^a	5.069	17.562	37.927
		Tim	40.235 ^a	5.967	28.249	52.221
	ALCO Modify	Abby	28.952 ^a	5.561	17.783	40.121
		Tim	32.422 ^a	6.177	20.015	44.828
HRVar_NN50	ARNE Modify	Abby	22.528 ^a	5.329	11.825	33.231
		Tim	25.799 ^a	6.273	13.200	38.398
	ALCO Modify	Abby	25.984 ^a	5.845	14.244	37.725
		Tim	27.944 ^a	6.493	14.903	40.985
NASA_MD	ARNE Modify	Abby	48.333 ^a	1.761	44.795	51.871
		Tim	40.750 ^a	2.073	36.585	44.915
	ALCO Modify	Abby	46.198 ^a	1.932	42.317	50.079
		Tim	43.818 ^a	2.146	39.507	48.129
NASA_PD	ARNE Modify	Abby	17.417 ^a	2.968	11.454	23.379
		Tim	18.250 ^a	3.494	11.231	25.269
	ALCO Modify	Abby	7.448 ^a	3.256	.908	13.988
		Tim	19.055 ^a	3.617	11.790	26.319
NASA_TD	ARNE Modify	Abby	29.208 ^a	2.479	24.230	34.187
		Tim	16.792 ^a	2.918	10.931	22.652
	ALCO	Abby	16.615 ^a	2.719	11.153	22.076

	Modify	Tim	19.918 ^a	3.020	13.852	25.984
NASA_Performance	ARNE Modify	Abby	57.083 ^a	5.333	46.372	67.794
		Tim	50.389 ^a	6.277	37.780	62.998
	ALCO Modify	Abby	56.719 ^a	5.850	44.969	68.468
		Tim	57.264 ^a	6.498	44.213	70.315
NASA_Effort	ARNE Modify	Abby	45.000 ^a	2.789	39.398	50.602
		Tim	39.278 ^a	3.283	32.683	45.873
	ALCO Modify	Abby	42.656 ^a	3.060	36.511	48.802
		Tim	42.545 ^a	3.399	35.719	49.372
NASA_Frustration	ARNE Modify	Abby	30.000 ^a	4.641	20.679	39.321
		Tim	16.333 ^a	5.463	5.361	27.306
	ALCO Modify	Abby	23.750 ^a	5.091	13.525	33.975
		Tim	21.091 ^a	5.655	9.733	32.448
NASA_Score	ARNE Modify	Abby	37.840 ^a	2.186	33.450	42.231
		Tim	30.299 ^a	2.573	25.130	35.467
	ALCO Modify	Abby	32.231 ^a	2.398	27.414	37.047
		Tim	33.948 ^a	2.664	28.599	39.298

a. Based on modified population marginal mean.

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

		Statistic ^a	df1	df2	Sig.
Precision	Welch	27.060	1	72.531	.000
Recall	Welch	4.264	1	75.878	.042
FMeasure	Welch	13.476	1	72.408	.000
Duration	Welch	5.447	1	72.341	.022
FirstActDet	Welch	19.719	1	63.569	.000
LastActDet	Welch	14.406	1	72.743	.000
ProcDur	Welch	391.636	1	34.547	.000
FixRel	Welch	.950	1	55.563	.334
FixIrrel	Welch	1.419	1	44.984	.240
AvDurRelFix	Welch	26.044	1	62.050	.000
AvDurIrrelFix	Welch	22.631	1	61.271	.000
TotSac	Welch	15.762	1	76.350	.000
Sac2Key	Welch	16.954	1	74.675	.000
AvAttention	Welch	.272	1	57.705	.604
AvMentWL	Welch	19.694	1	70.672	.000
AvFam	Welch	11.921	1	58.362	.001
AvSCL	Welch	.600	1	62.116	.441
HRVar_RMSSD	Welch	66.228	1	58.693	.000
HRVar_NN50	Welch	7.361	1	64.336	.009
NASA_MD	Welch	21.220	1	48.254	.000
NASA_PD	Welch	11.935	1	38.650	.001
NASA_TD	Welch	11.364	1	38.893	.002
NASA_Performance	Welch	9.927	1	67.820	.002
NASA_Effort	Welch	18.385	1	57.860	.000
NASA_Frustration	Welch	8.325	1	56.274	.006
NASA_Score	Welch	5.498	1	49.217	.023

a. Asymptotically F distributed.

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

		Sum of Squares	df	Mean Square	F	Sig.
Precision	Between Groups	.780	1	.780	18.656	.000
	Within Groups	3.220	77	.042		
	Total	4.001	78			
Recall	Between Groups	.150	1	.150	3.090	.083
	Within Groups	3.734	77	.048		
	Total	3.884	78			
FMeasure	Between Groups	.403	1	.403	9.278	.003
	Within Groups	3.341	77	.043		
	Total	3.743	78			
Duration	Between Groups	49210.008	1	49210.008	3.748	.057
	Within Groups	1011112.828	77	13131.335		
	Total	1060322.835	78			
FirstActDet	Between Groups	54051.890	1	54051.890	18.676	.000
	Within Groups	222849.579	77	2894.150		
	Total	276901.468	78			
LastActDet	Between Groups	130790.090	1	130790.090	9.956	.002
	Within Groups	1011548.746	77	13136.997		
	Total	1142338.835	78			
ProcDur	Between Groups	19548.468	1	19548.468	564.279	.000
	Within Groups	2667.532	77	34.643		
	Total	22216.000	78			
FixRel	Between Groups	10.240	1	10.240	.983	.324
	Within Groups	801.736	77	10.412		
	Total	811.976	78			
FixIrrel	Between Groups	43459.860	1	43459.860	1.686	.198
	Within Groups	1984499.980	77	25772.727		
	Total	2027959.839	78			
AvDurRelFix	Between Groups	48691.034	1	48691.034	25.080	.000
	Within Groups	149488.693	77	1941.412		
	Total	198179.727	78			
AvDurIrrelFix	Between Groups	461583.142	1	461583.142	21.981	.000
	Within Groups	1616961.886	77	20999.505		
	Total	2078545.028	78			
TotSac	Between Groups	1305.530	1	1305.530	12.503	.001
	Within Groups	8040.014	77	104.416		
	Total	9345.544	78			
Sac2Key	Between Groups	891.057	1	891.057	12.020	.001
	Within Groups	5708.158	77	74.132		
	Total	6599.215	78			
AvAttention	Between Groups	.012	1	.012	.275	.602
	Within Groups	3.278	77	.043		
	Total	3.290	78			
AvMentWL	Between Groups	.480	1	.480	17.196	.000
	Within Groups	2.148	77	.028		
	Total	2.627	78			
AvFam	Between Groups	.266	1	.266	11.957	.001
	Within Groups	1.712	77	.022		
	Total	1.978	78			
AvSCL	Between Groups	12154.820	1	12154.820	.578	.449
	Within Groups	1619807.914	77	21036.466		

	Total	1631962.734	78			
HRVar_RMSSD	Between Groups	11702.212	1	11702.212	40.794	.000
	Within Groups	22088.298	77	286.861		
	Total	33790.509	78			
HRVar_NN50	Between Groups	2456.373	1	2456.373	6.913	.010
	Within Groups	27359.401	77	355.317		
	Total	29815.774	78			
NASA_MD	Between Groups	1687.901	1	1687.901	24.065	.000
	Within Groups	5400.707	77	70.139		
	Total	7088.608	78			
NASA_PD	Between Groups	3455.356	1	3455.356	15.772	.000
	Within Groups	16869.328	77	219.082		
	Total	20324.684	78			
NASA_TD	Between Groups	2974.872	1	2974.872	14.948	.000
	Within Groups	15323.862	77	199.011		
	Total	18298.734	78			
NASA_Performance	Between Groups	4086.191	1	4086.191	8.968	.004
	Within Groups	35085.328	77	455.654		
	Total	39171.519	78			
NASA_Effort	Between Groups	2366.619	1	2366.619	18.544	.000
	Within Groups	9827.052	77	127.624		
	Total	12193.671	78			
NASA_Frustration	Between Groups	3029.916	1	3029.916	8.550	.005
	Within Groups	27287.172	77	354.379		
	Total	30317.089	78			
NASA_Score	Between Groups	564.543	1	564.543	6.156	.015
	Within Groups	7061.494	77	91.708		
	Total	7626.037	78			

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

Dependent Variable	Task	RiskPersona	Mean	Std. Error	95% Confidence Interval	
					Lower Bound	Upper Bound
Precision	ARNE Modify	Abby	.859 ^a	.061	.736	.981
		Tim	.634 ^a	.047	.540	.728
	ALCO Modify	Abby	.893 ^a	.065	.763	1.024
		Tim	.837 ^a	.050	.737	.937
Recall	ARNE Modify	Abby	.756 ^a	.069	.617	.895
		Tim	.676 ^a	.053	.569	.783
	ALCO Modify	Abby	.882 ^a	.074	.734	1.030
		Tim	.880 ^a	.057	.767	.994
FMeasure	ARNE Modify	Abby	.803 ^a	.064	.675	.932
		Tim	.650 ^a	.049	.552	.749
	ALCO Modify	Abby	.881 ^a	.068	.744	1.018
		Tim	.856 ^a	.052	.751	.961
Duration	ARNE Modify	Abby	567.714 ^a	35.205	497.004	638.425
		Tim	597.530 ^a	27.047	543.203	651.856
	ALCO Modify	Abby	488.867 ^a	37.562	413.422	564.312
		Tim	517.368 ^a	28.774	459.573	575.163
FirstActDet	ARNE Modify	Abby	153.000 ^a	14.664	123.546	182.454
		Tim	108.400 ^a	11.266	85.771	131.029
	ALCO Modify	Abby	101.900 ^a	15.646	70.474	133.326
		Tim	57.896 ^a	11.986	33.822	81.970
LastActDet	ARNE Modify	Abby	525.071 ^a	35.297	454.175	595.968
		Tim	590.519 ^a	27.118	536.049	644.988
	ALCO Modify	Abby	450.033 ^a	37.660	374.390	525.676
		Tim	509.750 ^a	28.850	451.804	567.696
ProcDur	ARNE Modify	Abby	42.643 ^a	1.895	38.837	46.449
		Tim	7.011 ^a	1.456	4.087	9.935
	ALCO Modify	Abby	38.833 ^a	2.022	34.773	42.894
		Tim	7.618 ^a	1.549	4.507	10.729
FixRel	ARNE Modify	Abby	10.042 ^a	.232	9.575	10.509
		Tim	10.386 ^a	.179	10.028	10.745
	ALCO Modify	Abby	3.831 ^a	.248	3.333	4.329
		Tim	4.315 ^a	.190	3.934	4.697
FixIrrel	ARNE Modify	Abby	330.560 ^a	22.357	285.655	375.465
		Tim	245.975 ^a	17.177	211.475	280.475
	ALCO Modify	Abby	4.695 ^a	23.854	-43.217	52.606
		Tim	3.750 ^a	18.273	-32.952	40.453
AvDurRelFix	ARNE Modify	Abby	115.121 ^a	11.798	91.425	138.818
		Tim	88.424 ^a	9.064	70.218	106.630
	ALCO Modify	Abby	145.300 ^a	12.588	120.017	170.583
		Tim	126.626 ^a	9.643	107.258	145.994
AvDurIrrelFix	ARNE Modify	Abby	281.836 ^a	33.950	213.646	350.026
		Tim		26.083	145.086	249.866

	ALCO Modify	Abby	197.476 ^a			
		Tim	431.900 ^a	36.223	359.144	504.656
TotSac	ARNE Modify	Abby	79.286 ^a	3.366	72.526	86.046
		Tim	84.222 ^a	2.586	79.029	89.416
	ALCO Modify	Abby	84.433 ^a	3.591	77.221	91.646
		Tim	92.220 ^a	2.751	86.695	97.745
Sac2Key	ARNE Modify	Abby	7.000 ^a	2.781	1.413	12.587
		Tim	15.026 ^a	2.137	10.734	19.318
	ALCO Modify	Abby	14.433 ^a	2.968	8.473	20.394
		Tim	20.192 ^a	2.273	15.625	24.758
AvAttention	ARNE Modify	Abby	.664 ^a	.046	.571	.757
		Tim	.640 ^a	.036	.568	.712
	ALCO Modify	Abby	.747 ^a	.049	.647	.846
		Tim	.629 ^a	.038	.553	.705
AvMentWL	ARNE Modify	Abby	.579 ^a	.056	.467	.690
		Tim	.672 ^a	.043	.586	.758
	ALCO Modify	Abby	.510 ^a	.059	.391	.629
		Tim	.699 ^a	.046	.608	.791
AvFam	ARNE Modify	Abby	.679 ^a	.046	.586	.771
		Tim	.761 ^a	.036	.689	.832
	ALCO Modify	Abby	.527 ^a	.049	.428	.626
		Tim	.691 ^a	.038	.615	.767
AvSCL	ARNE Modify	Abby	461.857 ^a	39.315	382.891	540.823
		Tim	550.552 ^a	30.205	489.883	611.221
	ALCO Modify	Abby	461.350 ^a	41.947	377.097	545.603
		Tim	545.900 ^a	32.134	481.358	610.443
HRVar_RMSSD	ARNE Modify	Abby	16.509 ^a	6.308	3.840	29.179
		Tim	44.810 ^a	4.846	35.076	54.543
	ALCO Modify	Abby	16.534 ^a	6.730	3.017	30.052
		Tim	42.074 ^a	5.156	31.719	52.429
HRVar_NN50	ARNE Modify	Abby	17.061 ^a	6.630	3.743	30.378
		Tim	28.961 ^a	5.094	18.730	39.193
	ALCO Modify	Abby	24.380 ^a	7.074	10.171	38.589
		Tim	28.759 ^a	5.419	17.874	39.644
NASA_MD	ARNE Modify	Abby	43.571 ^a	2.192	39.169	47.973
		Tim	46.981 ^a	1.684	43.599	50.364
	ALCO Modify	Abby	41.667 ^a	2.338	36.970	46.363
		Tim	48.382 ^a	1.791	44.784	51.980
NASA_PD	ARNE Modify	Abby	18.571 ^a	3.694	11.153	25.990
		Tim	17.074 ^a	2.838	11.374	22.774
	ALCO Modify	Abby	11.333 ^a	3.941	3.418	19.249
		Tim	12.408 ^a	3.019	6.344	18.472
NASA_TD	ARNE Modify	Abby	32.857 ^a	3.084	26.662	39.052
		Tim	18.093 ^a	2.370	13.333	22.852
	ALCO	Abby	20.083 ^a	3.291	13.474	26.693

	Modify	Tim	16.001 ^a	2.521	10.938	21.064
NASA_Performance	ARNE Modify	Abby	62.500 ^a	6.635	49.173	75.827
		Tim	48.407 ^a	5.098	38.168	58.647
	ALCO Modify	Abby	60.750 ^a	7.080	46.530	74.970
		Tim	53.653 ^a	5.423	42.760	64.546
NASA_Effort	ARNE Modify	Abby	39.643 ^a	3.471	32.672	46.614
		Tim	45.352 ^a	2.666	39.996	50.707
	ALCO Modify	Abby	38.333 ^a	3.703	30.896	45.771
		Tim	46.282 ^a	2.837	40.585	51.980
NASA_Frustration	ARNE Modify	Abby	31.071 ^a	5.774	19.473	42.670
		Tim	20.056 ^a	4.436	11.145	28.966
	ALCO Modify	Abby	25.833 ^a	6.161	13.459	38.208
		Tim	20.065 ^a	4.720	10.585	29.545
NASA_Score	ARNE Modify	Abby	38.036 ^a	2.720	32.572	43.499
		Tim	32.660 ^a	2.090	28.463	36.858
	ALCO Modify	Abby	33.000 ^a	2.902	27.171	38.829
		Tim	32.799 ^a	2.223	28.333	37.264

a. Based on modified population marginal mean.

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

		Statistic ^a	df1	df2	Sig.
Precision	Welch	2.027	1	50.884	.161
Recall	Welch	.475	1	52.017	.494
FMeasure	Welch	1.162	1	50.933	.286
Duration	Welch	2.419	1	55.478	.126
FirstActDet	Welch	.291	1	55.340	.592
LastActDet	Welch	2.910	1	53.232	.094
ProcDur	Welch	2.352	1	46.457	.132
FixRel	Welch	5.641	1	50.905	.021
FixIrrel	Welch	4.007	1	57.727	.050
AvDurRelFix	Welch	5.547	1	48.014	.023
AvDurIrrelFix	Welch	6.469	1	45.457	.014
TotSac	Welch	.104	1	58.210	.748
Sac2Key	Welch	2.516	1	48.686	.119
AvAttention	Welch	5.024	1	43.730	.030
AvMentWL	Welch	.887	1	48.605	.351
AvFam	Welch	.585	1	49.404	.448
AvSCL	Welch	10.541	1	49.599	.002
HRVar_RMSSD	Welch	.652	1	54.388	.423
HRVar_NN50	Welch	.474	1	49.270	.494
NASA_MD	Welch	.241	1	48.353	.626
NASA_PD	Welch	1.210	1	45.522	.277
NASA_TD	Welch	3.017	1	40.984	.090
NASA_Performance	Welch	1.714	1	45.367	.197
NASA_Effort	Welch	.251	1	52.061	.619
NASA_Frustration	Welch	5.567	1	47.696	.022
NASA_Score	Welch	3.317	1	43.653	.075

a. Asymptotically F distributed.

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

		Sum of Squares	df	Mean Square	F	Sig.
Precision	Between Groups	.101	1	.101	1.993	.162
	Within Groups	3.900	77	.051		
	Total	4.001	78			
Recall	Between Groups	.023	1	.023	.459	.500
	Within Groups	3.861	77	.050		
	Total	3.884	78			
FMeasure	Between Groups	.055	1	.055	1.142	.289
	Within Groups	3.688	77	.048		
	Total	3.743	78			
Duration	Between Groups	29818.951	1	29818.951	2.228	.140
	Within Groups	1030503.885	77	13383.167		
	Total	1060322.835	78			
FirstActDet	Between Groups	963.216	1	963.216	.269	.606
	Within Groups	275938.253	77	3583.614		
	Total	276901.468	78			
LastActDet	Between Groups	39608.791	1	39608.791	2.766	.100
	Within Groups	1102730.044	77	14321.169		
	Total	1142338.835	78			
ProcDur	Between Groups	693.687	1	693.687	2.482	.119
	Within Groups	21522.313	77	279.511		
	Total	22216.000	78			
FixRel	Between Groups	54.553	1	54.553	5.546	.021
	Within Groups	757.423	77	9.837		
	Total	811.976	78			
FixIrrel	Between Groups	90154.191	1	90154.191	3.582	.062
	Within Groups	1937805.648	77	25166.307		
	Total	2027959.839	78			
AvDurRelFix	Between Groups	13669.423	1	13669.423	5.705	.019
	Within Groups	184510.304	77	2396.238		
	Total	198179.727	78			
AvDurIrrelFix	Between Groups	172011.156	1	172011.156	6.947	.010
	Within Groups	1906533.873	77	24760.180		
	Total	2078545.028	78			
TotSac	Between Groups	11.196	1	11.196	.092	.762
	Within Groups	9334.348	77	121.225		
	Total	9345.544	78			
Sac2Key	Between Groups	212.350	1	212.350	2.560	.114
	Within Groups	6386.865	77	82.946		
	Total	6599.215	78			
AvAttention	Between Groups	.222	1	.222	5.567	.021
	Within Groups	3.068	77	.040		
	Total	3.290	78			
AvMentWL	Between Groups	.030	1	.030	.904	.345
	Within Groups	2.597	77	.034		
	Total	2.627	78			
AvFam	Between Groups	.015	1	.015	.588	.445
	Within Groups	1.963	77	.025		
	Total	1.978	78			
AvSCL	Between Groups	196997.596	1	196997.596	10.571	.002
	Within Groups	1434965.139	77	18635.911		
	Total					

	Total	1631962.734	78			
HRVar_RMSSD	Between Groups	265.353	1	265.353	.609	.437
	Within Groups	33525.156	77	435.392		
	Total	33790.509	78			
HRVar_NN50	Between Groups	183.981	1	183.981	.478	.491
	Within Groups	29631.793	77	384.828		
	Total	29815.774	78			
NASA_MD	Between Groups	22.642	1	22.642	.247	.621
	Within Groups	7065.965	77	91.766		
	Total	7088.608	78			
NASA_PD	Between Groups	336.784	1	336.784	1.297	.258
	Within Groups	19987.899	77	259.583		
	Total	20324.684	78			
NASA_TD	Between Groups	802.199	1	802.199	3.530	.064
	Within Groups	17496.535	77	227.228		
	Total	18298.734	78			
NASA_Performance	Between Groups	915.840	1	915.840	1.843	.179
	Within Groups	38255.679	77	496.827		
	Total	39171.519	78			
NASA_Effort	Between Groups	38.228	1	38.228	.242	.624
	Within Groups	12155.443	77	157.863		
	Total	12193.671	78			
NASA_Frustration	Between Groups	2108.380	1	2108.380	5.755	.019
	Within Groups	28208.708	77	366.347		
	Total	30317.089	78			
NASA_Score	Between Groups	347.906	1	347.906	3.681	.059
	Within Groups	7278.131	77	94.521		
	Total	7626.037	78			

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

Dependent Variable	Task	LearningStyle	Mean	Std. Error	95% Confidence Interval	
					Lower Bound	Upper Bound
Precision	ARNE Modify	Abby	.743 ^a	.071	.599	.886
		Tim	.727 ^a	.044	.639	.816
	ALCO Modify	Abby	.872 ^a	.060	.751	.993
		Tim	.855 ^a	.054	.746	.964
Recall	ARNE Modify	Abby	.714 ^a	.081	.551	.876
		Tim	.710 ^a	.050	.610	.810
	ALCO Modify	Abby	.879 ^a	.068	.742	1.016
		Tim	.883 ^a	.061	.760	1.007
FMeasure	ARNE Modify	Abby	.723 ^a	.075	.573	.873
		Tim	.715 ^a	.046	.622	.807
	ALCO Modify	Abby	.873 ^a	.063	.746	1.000
		Tim	.863 ^a	.057	.749	.977
Duration	ARNE Modify	Abby	575.900 ^a	41.147	493.254	658.546
		Tim	588.388 ^a	25.334	537.503	639.273
	ALCO Modify	Abby	516.728 ^a	34.733	446.964	586.492
		Tim	493.487 ^a	31.276	430.668	556.306
FirstActDet	ARNE Modify	Abby	134.633 ^a	17.139	100.208	169.059
		Tim	124.858 ^a	10.553	103.662	146.053
	ALCO Modify	Abby	82.150 ^a	14.468	53.090	111.210
		Tim	74.825 ^a	13.028	48.658	100.992
LastActDet	ARNE Modify	Abby	555.967 ^a	41.255	473.104	638.829
		Tim	564.576 ^a	25.401	513.557	615.594
	ALCO Modify	Abby	494.617 ^a	34.824	424.670	564.564
		Tim	471.536 ^a	31.358	408.551	534.520
ProcDur	ARNE Modify	Abby	19.933 ^a	2.215	15.485	24.382
		Tim	23.812 ^a	1.364	21.073	26.551
	ALCO Modify	Abby	22.111 ^a	1.869	18.356	25.866
		Tim	21.951 ^a	1.683	18.570	25.332
FixRel	ARNE Modify	Abby	10.218 ^a	.272	9.672	10.763
		Tim	10.244 ^a	.167	9.908	10.580
	ALCO Modify	Abby	4.196 ^a	.229	3.736	4.657
		Tim	4.003 ^a	.206	3.588	4.417
FixIrrel	ARNE Modify	Abby	301.735 ^a	26.130	249.251	354.219
		Tim	274.456 ^a	16.088	242.142	306.771
	ALCO Modify	Abby	3.433 ^a	22.058	-40.871	47.737
		Tim	4.832 ^a	19.862	-35.062	44.726
AvDurRelFix	ARNE Modify	Abby	107.608 ^a	13.789	79.912	135.304
		Tim	96.693 ^a	8.490	79.641	113.746
	ALCO Modify	Abby	129.203 ^a	11.640	105.824	152.582
		Tim	140.424 ^a	10.481	119.372	161.476
AvDurIrrelFix	ARNE Modify	Abby	252.725 ^a	39.680	173.025	332.425

	Modify	Tim	226.046 ^a	24.431	176.975	275.117
	ALCO Modify	Abby	383.608 ^a	33.495	316.331	450.885
		Tim	417.271 ^a	30.161	356.691	477.851
TotSac	ARNE Modify	Abby	83.167 ^a	3.934	75.266	91.067
		Tim	81.561 ^a	2.422	76.696	86.425
	ALCO Modify	Abby	91.406 ^a	3.320	84.736	98.075
		Tim	86.244 ^a	2.990	80.238	92.249
Sac2Key	ARNE Modify	Abby	12.700 ^a	3.251	6.170	19.230
		Tim	10.976 ^a	2.002	6.956	14.996
	ALCO Modify	Abby	20.183 ^a	2.744	14.672	25.695
		Tim	15.263 ^a	2.471	10.300	20.226
AvAttention	ARNE Modify	Abby	.657 ^a	.054	.548	.766
		Tim	.648 ^a	.033	.581	.715
	ALCO Modify	Abby	.622 ^a	.046	.530	.714
		Tim	.736 ^a	.041	.654	.819
AvMentWL	ARNE Modify	Abby	.640 ^a	.065	.509	.771
		Tim	.627 ^a	.040	.546	.707
	ALCO Modify	Abby	.638 ^a	.055	.527	.748
		Tim	.590 ^a	.049	.491	.689
AvFam	ARNE Modify	Abby	.740 ^a	.054	.631	.849
		Tim	.718 ^a	.033	.651	.785
	ALCO Modify	Abby	.643 ^a	.046	.552	.735
		Tim	.591 ^a	.041	.509	.674
AvSCL	ARNE Modify	Abby	545.967 ^a	45.951	453.672	638.261
		Tim	496.194 ^a	28.292	439.368	553.020
	ALCO Modify	Abby	572.128 ^a	38.788	494.219	650.037
		Tim	450.948 ^a	34.927	380.794	521.102
HRVar_RMSSD	ARNE Modify	Abby	32.613 ^a	7.372	17.805	47.421
		Tim	32.344 ^a	4.539	23.227	41.462
	ALCO Modify	Abby	34.084 ^a	6.223	21.584	46.584
		Tim	27.032 ^a	5.604	15.776	38.287
HRVar_NN50	ARNE Modify	Abby	24.721 ^a	7.749	9.156	40.286
		Tim	23.316 ^a	4.771	13.732	32.899
	ALCO Modify	Abby	27.946 ^a	6.542	14.807	41.085
		Tim	25.703 ^a	5.890	13.872	37.534
NASA_MD	ARNE Modify	Abby	52.000 ^a	2.562	46.855	57.145
		Tim	42.530 ^a	1.577	39.362	45.698
	ALCO Modify	Abby	46.806 ^a	2.162	42.462	51.149
		Tim	43.977 ^a	1.947	40.066	47.888
NASA_PD	ARNE Modify	Abby	12.000 ^a	4.317	3.329	20.671
		Tim	20.333 ^a	2.658	14.995	25.672
	ALCO Modify	Abby	13.139 ^a	3.644	5.820	20.458
		Tim	10.860 ^a	3.281	4.270	17.451
NASA_TD	ARNE Modify	Abby	25.000 ^a	3.605	17.760	32.240
		Tim	24.348 ^a	2.219	19.891	28.806
	ALCO	Abby	27.028 ^a	3.043	20.916	33.140

	Modify	Tim	10.049 ^a	2.740	4.545	15.552
NASA_Performance	ARNE Modify	Abby	57.167 ^a	7.755	41.590	72.744
		Tim	53.394 ^a	4.775	43.803	62.985
	ALCO Modify	Abby	56.167 ^a	6.547	43.018	69.316
		Tim	57.581 ^a	5.895	45.741	69.421
NASA_Effort	ARNE Modify	Abby	49.333 ^a	4.056	41.186	57.481
		Tim	39.909 ^a	2.497	34.893	44.925
	ALCO Modify	Abby	44.583 ^a	3.424	37.706	51.461
		Tim	40.925 ^a	3.083	34.733	47.118
NASA_Frustration	ARNE Modify	Abby	26.500 ^a	6.749	12.944	40.056
		Tim	24.136 ^a	4.155	15.790	32.483
	ALCO Modify	Abby	29.167 ^a	5.697	17.724	40.609
		Tim	17.208 ^a	5.130	6.904	27.512
NASA_Score	ARNE Modify	Abby	37.000 ^a	3.179	30.615	43.385
		Tim	34.109 ^a	1.957	30.177	38.040
	ALCO Modify	Abby	36.148 ^a	2.684	30.758	41.538
		Tim	30.100 ^a	2.416	25.247	34.954

a. Based on modified population marginal mean.