

Appendix A1

Table A1.1. General linear model results for Fisher-transformed correlations between true scores and proportion scores.

Source	DF	SS	Mean Square	F Value	Pr > F	
Model	107	1151.87	10.77	9139.07	<.0001	
Error	53786	63.36	0.00			
Corrected Total	53893	1215.22				
R-Square	Coeff Var	Root MSE	Mean			
0.947865	2.82689	0.03	1.21			
Proportion of Variation Accounted for						
Eta-Squared	0.95					
ω^2	0.95					
95% CI	(0.95,0.95)					

Source	DF	Type III SS	Mean Square	F Value	Pr > F	Semi partial Eta-Squared
SS	2	0.03	0.01	11.91	<.0001	0.00
NI	2	1009.57	504.78	428538.00	<.0001	0.83
IM	2	123.54	61.77	52438.70	<.0001	0.10
DF	1	1.55	1.55	1313.22	<.0001	0.00
PD	1	6.57	6.57	5575.44	<.0001	0.01
SS*NI	4	0.01	0.00	1.58	0.18	0.00
SS*IM	4	0.03	0.01	5.58	0.00	0.00
SS*DF	2	0.00	0.00	0.74	0.48	0.00
SS*PD	2	0.00	0.00	0.61	0.54	0.00
NI*IM	4	3.13	0.78	663.30	<.0001	0.00
NI*DF	2	0.55	0.27	232.48	<.0001	0.00
NI*PD	2	3.37	1.69	1431.70	<.0001	0.00
IM*DF	2	0.21	0.11	90.36	<.0001	0.00
IM*PD	2	0.23	0.11	96.39	<.0001	0.00
DF*PD	1	2.26	2.26	1920.44	<.0001	0.00
SS*NI*IM	8	0.01	0.00	1.18	0.30	0.00
SS*NI*DF	4	0.00	0.00	0.32	0.86	0.00
SS*NI*PD	4	0.00	0.00	0.42	0.79	0.00
SS*IM*DF	4	0.00	0.00	0.10	0.98	0.00
SS*IM*PD	4	0.00	0.00	0.44	0.78	0.00
SS*DF*PD	2	0.00	0.00	1.18	0.31	0.00
NI*IM*DF	4	0.03	0.01	6.69	<.0001	0.00
NI*IM*PD	4	0.06	0.02	13.79	<.0001	0.00
NI*DF*PD	2	0.65	0.33	277.08	<.0001	0.00
IM*DF*PD	2	0.01	0.01	5.72	0.00	0.00
SS*NI*IM*DF	8	0.00	0.00	0.51	0.85	0.00
SS*NI*IM*PD	8	0.04	0.00	4.00	<.0001	0.00
SS*NI*DF*PD	4	0.01	0.00	2.44	0.04	0.00
SS*IM*DF*PD	4	0.00	0.00	0.34	0.85	0.00
NI*IM*DF*PD	4	0.01	0.00	1.30	0.27	0.00
SS*NI*IM*DF*PD	8	0.02	0.00	1.79	0.07	0.00

Note: Under "Source," the following abbreviations are used: SS =sample size; NI = number of items; IM = impact condition; DF = DIF magnitude; PD = percent of items with DIF.

Table A1.2. General linear model results for Fisher-transformed correlations between true scores and unconditional scores.

Source	DF	SS	Mean Square	F Value	Pr > F	
Model	107	1974.68	18.45	15009.30	<.0001	
Error	53786	66.13	0.00			
Corrected Total	53893	2040.81				
R-Square	Coeff Var	Root MSE	Mean			
0.967595	2.75742	0.04	1.27			
Proportion of Variation Accounted for						
Eta-Squared	0.97					
ω^2	0.97					
95% CI	(0.97,0.97)					

Source	DF	Type III SS	Mean Square	F Value	Pr > F	Semipartial Eta-Squared
SS	2	0.03	0.02	13.12	<.0001	0.00
NI	2	1710.67	855.34	695642.00	<.0001	0.84
IM	2	214.16	107.08	87086.80	<.0001	0.10
DF	1	9.30	9.30	7567.57	<.0001	0.00
PD	1	15.66	15.66	12740.20	<.0001	0.01
SS*NI	4	0.01	0.00	2.09	0.08	0.00
SS*IM	4	0.03	0.01	6.03	<.0001	0.00
SS*DF	2	0.00	0.00	1.12	0.33	0.00
SS*PD	2	0.00	0.00	0.76	0.47	0.00
NI*IM	4	6.63	1.66	1348.43	<.0001	0.00
NI*DF	2	3.22	1.61	1310.51	<.0001	0.00
NI*PD	2	6.79	3.39	2759.89	<.0001	0.00
IM*DF	2	0.27	0.14	110.56	<.0001	0.00
IM*PD	2	0.12	0.06	48.02	<.0001	0.00
DF*PD	1	6.27	6.27	5099.53	<.0001	0.00
SS*NI*IM	8	0.01	0.00	0.83	0.58	0.00
SS*NI*DF	4	0.00	0.00	0.32	0.87	0.00
SS*NI*PD	4	0.00	0.00	0.82	0.51	0.00
SS*IM*DF	4	0.00	0.00	0.33	0.86	0.00
SS*IM*PD	4	0.00	0.00	0.67	0.61	0.00
SS*DF*PD	2	0.00	0.00	1.38	0.25	0.00
NI*IM*DF	4	0.04	0.01	8.41	<.0001	0.00
NI*IM*PD	4	0.18	0.04	36.28	<.0001	0.00
NI*DF*PD	2	1.40	0.70	570.25	<.0001	0.00
IM*DF*PD	2	0.01	0.00	3.89	0.02	0.00
SS*NI*IM*DF	8	0.01	0.00	0.73	0.67	0.00
SS*NI*IM*PD	8	0.04	0.01	4.11	<.0001	0.00
SS*NI*DF*PD	4	0.01	0.00	2.41	0.05	0.00
SS*IM*DF*PD	4	0.00	0.00	0.35	0.84	0.00
NI*IM*DF*PD	4	0.03	0.01	6.79	<.0001	0.00
SS*NI*IM*DF*PD	8	0.01	0.00	1.52	0.14	0.00

Note: Under "Source," the following abbreviations are used: SS =sample size; NI = number of items; IM = impact condition; DF = DIF magnitude; PD = percent of items with DIF.

Table A1.3. General linear model results for Fisher-transformed correlations between true scores and impact-only scores.

Source	DF	SS	Mean Square	F Value	Pr > F	
Model	107	1718.23	16.06	10212.10	<.0001	
Error	53786	84.58	0.00			
Corrected Total	53893	1802.81				
R-Square	Coeff Var	Root MSE	Mean			
0.953086	2.94758	0.04	1.35			
Proportion of Variation Accounted for						
Eta-Squared	0.95					
ω^2	0.95					
95% CI	(0.95,0.95)					

Source	DF	Type III SS	Mean Square	F Value	Pr > F	Semipartial Eta-Squared
SS	2	1.18	0.59	375.29	<.0001	0.00
NI	2	1441.87	720.93	458471.00	<.0001	0.80
IM	2	30.24	15.12	9616.31	<.0001	0.02
DF	1	84.68	84.68	53850.60	<.0001	0.05
PD	1	122.57	122.57	77947.70	<.0001	0.07
SS*NI	4	0.17	0.04	27.64	<.0001	0.00
SS*IM	4	0.01	0.00	1.56	0.18	0.00
SS*DF	2	0.01	0.00	2.78	0.06	0.00
SS*PD	2	0.00	0.00	1.52	0.22	0.00
NI*IM	4	0.67	0.17	106.77	<.0001	0.00
NI*DF	2	2.96	1.48	939.80	<.0001	0.00
NI*PD	2	1.84	0.92	585.10	<.0001	0.00
IM*DF	2	0.10	0.05	32.69	<.0001	0.00
IM*PD	2	0.00	0.00	0.46	0.63	0.00
DF*PD	1	33.87	33.87	21539.20	<.0001	0.02
SS*NI*IM	8	0.01	0.00	0.48	0.87	0.00
SS*NI*DF	4	0.00	0.00	0.07	0.99	0.00
SS*NI*PD	4	0.02	0.01	3.53	0.01	0.00
SS*IM*DF	4	0.01	0.00	0.82	0.51	0.00
SS*IM*PD	4	0.01	0.00	1.08	0.36	0.00
SS*DF*PD	2	0.01	0.00	3.16	0.04	0.00
NI*IM*DF	4	0.02	0.01	3.84	0.00	0.00
NI*IM*PD	4	0.01	0.00	1.24	0.29	0.00
NI*DF*PD	2	0.29	0.14	91.26	<.0001	0.00
IM*DF*PD	2	0.02	0.01	5.06	0.01	0.00
SS*NI*IM*DF	8	0.02	0.00	1.75	0.08	0.00
SS*NI*IM*PD	8	0.03	0.00	2.37	0.02	0.00
SS*NI*DF*PD	4	0.02	0.00	2.63	0.03	0.00
SS*IM*DF*PD	4	0.01	0.00	1.02	0.39	0.00
NI*IM*DF*PD	4	0.01	0.00	1.22	0.30	0.00
SS*NI*IM*DF*PD	8	0.02	0.00	1.29	0.24	0.00

Note: Under "Source," the following abbreviations are used: SS =sample size; NI = number of items; IM = impact condition; DF = DIF magnitude; PD = percent of items with DIF.

Table A1.4. General linear model results for Fisher-transformed correlations between true scores and impact-and-DIF scores.

Source	DF	SS	Mean Square	F Value	Pr > F	
Model	107	1825.24	17.06	10847.40	<.0001	
Error	53786	84.58	0.00			
Corrected Total	53893	1909.82				
R-Square	Coeff Var	Root MSE	Mean			
0.955712	2.80684	0.04	1.41			
Proportion of Variation Accounted for						
Eta-Squared	0.96					
ω^2	0.96					
95% CI	(0.96,0.96)					

Source	DF	Type III SS	Mean Square	F Value	Pr > F	Semipartial Eta-Squared
SS	2	6.20	3.10	1970.79	<.0001	0.00
NI	2	1787.52	893.76	568340.00	<.0001	0.94
IM	2	27.67	13.84	8797.69	<.0001	0.01
DF	1	0.14	0.14	89.27	<.0001	0.00
PD	1	2.70	2.70	1714.09	<.0001	0.00
SS*NI	4	0.37	0.09	58.44	<.0001	0.00
SS*IM	4	0.03	0.01	4.31	0.00	0.00
SS*DF	2	0.00	0.00	1.13	0.32	0.00
SS*PD	2	0.48	0.24	152.12	<.0001	0.00
NI*IM	4	0.82	0.20	129.74	<.0001	0.00
NI*DF	2	0.00	0.00	1.08	0.34	0.00
NI*PD	2	0.10	0.05	31.66	<.0001	0.00
IM*DF	2	0.39	0.20	124.31	<.0001	0.00
IM*PD	2	0.09	0.05	30.08	<.0001	0.00
DF*PD	1	0.03	0.03	21.96	<.0001	0.00
SS*NI*IM	8	0.01	0.00	0.93	0.49	0.00
SS*NI*DF	4	0.00	0.00	0.48	0.75	0.00
SS*NI*PD	4	0.02	0.00	3.13	0.01	0.00
SS*IM*DF	4	0.00	0.00	0.30	0.88	0.00
SS*IM*PD	4	0.03	0.01	5.34	0.00	0.00
SS*DF*PD	2	0.00	0.00	1.09	0.34	0.00
NI*IM*DF	4	0.00	0.00	0.55	0.70	0.00
NI*IM*PD	4	0.02	0.00	2.43	0.05	0.00
NI*DF*PD	2	0.01	0.01	4.54	0.01	0.00
IM*DF*PD	2	0.02	0.01	5.66	0.00	0.00
SS*NI*IM*DF	8	0.02	0.00	1.46	0.16	0.00
SS*NI*IM*PD	8	0.03	0.00	2.74	0.01	0.00
SS*NI*DF*PD	4	0.01	0.00	1.27	0.28	0.00
SS*IM*DF*PD	4	0.01	0.00	0.84	0.50	0.00
NI*IM*DF*PD	4	0.01	0.00	1.12	0.35	0.00
SS*NI*IM*DF*PD	8	0.02	0.00	1.33	0.22	0.00

Note: Under "Source," the following abbreviations are used: SS =sample size; NI = number of items; IM = impact condition; DF = DIF magnitude; PD = percent of items with DIF.