

Table 6.8: 5 Factor solution for the NEO-PI-R using varimax and Procrustes rotation

	Varimax Rotation					McCrae & Costa (1992)					Procrustes Rotation					
Scale	Factor 1	Factor 2	Factor 3	Factor 4	Factor 5	Factor 1	Factor 2	Factor 3	Factor 4	Factor 5	Factor 1	Factor 2	Factor 3	Factor 4	Factor 5	Cong
Neuroticism																
Anxiety	-.02	.77	.03	-.12	.13	.81	.02	-.01	-.01	-.10	.78	-.10	.05	.02	.01	.98**
Angry Hostility	.03	.68	-.45	.09	-.08	.63	-.03	.01	-.48	-.08	.65	.04	-.13	-.49	.04	.97**
Depression	-.21	.82	.06	-.13	.07	.80	-.10	.02	-.03	-.26	.83	-.12	-.02	.05	-.18	.99**
Self-Consciousness	-.05	.74	.17	-.24	.01	.73	-.18	-.09	.04	-.16	.75	-.21	-.07	.17	-.01	.97**
Impulsiveness	-.28	.44	-.10	.36	-.02	.49	.35	.02	-.21	-.32	.43	.34	-.07	-.16	-.29	.99**
Vulnerability	-.37	.68	.15	.03	-.08	.70	-.15	-.09	.04	-.38	.68	.04	-.15	.12	-.35	.96**
Extraversion																
Warmth	.01	-.05	.42	.67	.24	-.12	.66	.18	.38	.13	-.02	.72	.21	.34	-.01	.97**
Gregariousness	-.12	-.14	.06	.75	-.01	-.18	.66	.04	.07	-.03	-.15	.74	-.01	-.03	-.16	.97**
Assertiveness	.41	-.26	-.33	.48	.04	-.32	.44	.23	-.32	.32	-.29	.45	.07	-.38	.37	.97**
Activity	.41	-.06	-.10	.54	.17	.04	.54	.16	-.27	.42	-.07	.54	.16	-.17	.38	.98**
Excitement-Seeking	-.17	.00	-.16	.61	.11	.00	.58	.11	-.38	-.06	-.00	.58	.11	-.23	-.20	.96**
Positive Emotions	.09	-.18	.22	.64	.28	-.04	.74	.19	.10	.10	-.16	.67	.27	.15	.06	.98**
Openness to Experience																
Fantasy	-.28	.08	.05	.04	.67	.18	.18	.58	-.14	-.31	.16	.06	.66	.08	-.26	.93*
Aesthetics	.10	.13	.17	.09	.75	.14	.04	.73	.17	.14	.21	.14	.72	.18	.12	.99**
Feelings	.15	.28	.02	.26	.66	.37	.41	.50	-.01	.12	.34	.29	.61	-.00	.16	.98**
Actions	.01	-.38	.07	.26	.34	-.19	.22	.57	.04	-.04	-.34	.27	.37	.07	-.00	.91*
Ideas	.19	-.19	-.06	-.04	.72	-.15	-.01	.75	-.09	.16	-.12	-.02	.74	-.02	.20	.99**

Values	-.02	-.09	-.04	.13	.52	-.13	.08	.49	-.07	-.15	-.04	.14	.53	-.03	-.02	.94**
Agreeableness																
Trust	-.10	-.31	.57	.35	.05	-.35	.22	.15	.56	.03	-.29	.41	.05	.54	-0.11	.93*
Straightforwardness	.13	-.05	.67	-.07	-.12	-.03	-.15	-.11	.68	.24	-.04	.02	-.15	.67	.14	.96**
Altruism	.19	.07	.65	.28	.18	-.06	.52	-.05	.57	.27	.10	.37	.13	.61	.19	.93*
Compliance	-.07	-.13	.71	-.35	.04	-.16	-.08	-.00	.77	.01	-.09	-.26	.03	.76	-.04	.97**
Modesty	-.07	.28	.62	-.14	.01	.19	-.12	-.18	.59	-.08	.30	-.06	-.05	.62	-.04	.96**
Tender-Mindedness	.11	.12	.63	.18	.05	.04	.27	.13	.62	.00	.14	.27	-.00	.60	.12	.96**
Conscientiousness																
Competence	.73	-.26	-.07	.10	.16	-.41	.17	.13	.03	.64	-.27	.12	.17	-.08	.72	.97**
Order	.71	.06	.07	-.13	-.15	-.04	.06	-.19	.01	.70	.02	-.09	-.17	.06	.71	.97**
Dutifulness	.71	-.08	.24	-.02	.10	-.20	-.04	.01	.29	.68	-.08	.04	.08	.23	.71	.97**
Achievement Striving	.84	-.03	-.07	.12	.10	-.09	.23	.15	-.13	.74	-.05	.15	.09	-.10	.83	.99**
Self-Discipline	.78	-.23	.01	.02	-.01	-.33	.17	-.08	.06	.75	-.26	.05	-.00	-.00	.77	.98**
Deliberation	.61	-.06	.20	-.36	-.08	-.23	-.28	-.04	.22	.57	-.08	-.31	-.09	.23	.63	.97**
FACTOR CONG											.97**	.96**	.96**	.98**	.97**	
% VARIANCE EXPLAINED																
	17.86	12.78	11.07	9.19	5.83											

*p < 0.05

** p < 0.01

Table 6.11: 4 Factor solution for the CPAI-2 using varimax and Procrustes rotation

	Varimax Rotated				Cheung, et al (2008)				Procrustes Rotated				
Scale	Factor 1	Factor 2	Factor 3	Factor 4	Factor 1	Factor 2	Factor 3	Factor 4	Factor 1	Factor 2	Factor 3	Factor 4	Cong
Social Potency													
Novelty	.34	.72	-.16	-.01	.79	.09	-.12	-.12	.78	.20	-0.08	-.10	.99**
Diversity	.15	.69	.24	-.03	.78	-.04	.15	-.07	.67	.08	0.30	.07	.95**
Divergent Thinking	.08	.80	.04	.08	.74	.02	-.08	.12	.78	.05	0.09	.17	.97**
Leadership	.40	.59	-.39	.06	.70	.10	-.29	.05	.68	.28	-0.32	-.14	.95**
Logical vs Affective Orientation	.20	.56	-.04	.31	.63	.30	.00	.15	.56	.28	-0.06	.23	.99**
Aesthetics	-.08	.61	.08	-.09	.58	-.05	.11	.12	.58	-.16	0.15	.09	.98**
Extraversion vs Introversion	.23	.45	.06	-.24	.43	.14	.04	-.04	.49	.03	0.16	-.22	.90*
Enterprise	.75	.42	-.10	.00	.52	.53	.03	-.23	.54	.58	-0.03	-.34	.99**
Dependability													
Responsibility	.22	.17	.02	.66	.09	.68	.03	.35	.15	.53	-0.12	.45	.95**
Emotionality	-.64	.04	-.20	-.27	-.01	-.67	-.30	-.10	-.02	-.70	-0.15	.09	.95**
Inferiority vs Self-Acceptance	-.78	-.22	-.17	-.11	-.35	-.70	-.28	.10	-.31	-.71	-0.19	.25	.98**
Practical Mindedness	.31	.06	.29	.49	-.02	.62	.28	.29	.04	.55	0.18	.30	.99**
Optimism	.73	.27	.03	.16	.30	.66	.22	-.07	.36	.68	0.05	-.20	.96**
Meticulousness	.02	-.03	.13	.66	.04	.50	.00	.34	-.09	.39	-0.04	.54	.92*
Face	-.56	-.09	-.26	.07	.05	-.50	-.28	.19	-.15	-.45	-0.30	.28	.93*
Internal / External LOC	.48	.21	.22	-.06	.17	.43	.33	-.17	.26	.37	0.27	-.22	.97**

Family Orientation	.28	-.10	.39	.30	.02	.46	.38	.20	-.12	.44	0.31	.16	.97**
Accommodation													
Defensiveness	-.31	-.17	-.65	.21	.08	-.30	-.72	.18	-.16	-.20	-0.71	.16	.95**
Graciousness vs Meanness	.47	.10	.62	-.07	.06	.39	.70	-.05	.11	.41	0.65	-.15	.99**
Interpersonal Tolerance	.24	.44	.60	-.07	.40	.20	.53	-.19	.41	.19	0.64	.02	.95**
Self vs Social Orientation	-.04	.12	-.28	.23	.15	-.14	-.42	.12	.12	.05	-0.32	.17	.89*
Veraciousness vs Slickness	-.04	-.02	.75	.12	-.09	.38	.47	.20	-.12	.11	0.69	.28	.88*
Interpersonal Relatedness													
Traditionalism vs Modernity	-.09	-.32	-.27	.51	-.30	.09	-.28	.46	-.34	.20	-0.42	.34	.95**
Relationship Orientation	-.43	.13	.04	.24	.08	-.03	.05	.56	.03	-.24	-0.03	.45	.90*
Social Sensitivity	-.15	.54	.30	.16	.39	-.03	-.01	.54	.46	-.05	0.29	.37	.86
Discipline	-.21	-.12	-.23	.69	-.05	.06	-.37	.68	-.18	.18	-0.41	.59	.97**
Harmony	-.04	.30	.50	.35	.08	.28	.36	.47	.20	.18	0.42	.46	.97**
Thrift vs Extravagance	-.37	.19	.00	.36	-.06	.08	-.10	.52	.10	-.13	-0.09	.52	.88*
FACTOR CONG									.97**	.95**	.94**	.93*	
% VARIANCE EXPLAINED	22.63	9.66	9.32	7.79									

*p < 0.05

** p < 0.01

Table 6.18: Factor analysis using Procrustes rotation for gender and the NEO-PI-R

	Varimax Rotation - Male					Varimax Rotation – Female					Procrustes Rotation					
Scale	Factor 1	Factor 2	Factor 3	Factor 4	Factor 5	Factor 1	Factor 2	Factor 3	Factor 4	Factor 5	Factor 1	Factor 2	Factor 3	Factor 4	Factor 5	Cong
Neuroticism																
Anxiety	-.10	.79	-.00	-.10	-.01	-.03	.75	-.15	-.01	.21	-.05	.75	-.11	-.09	.21	.95**
Angry Hostility	-.17	.58	-.51	.09	0.00	.08	.69	.06	-.43	-.09	.02	.63	-.50	.14	-.10	.96**
Depression	-.24	.83	-.03	-.06	0.06	-.24	.80	-.13	.08	.07	-.24	.81	-.01	-.11	.05	1.00**
Self-Consciousness	.00	.79	.06	-.09	-.05	-.11	.72	-.28	.21	.04	-.08	.76	.11	-.24	.03	.97**
Impulsiveness	-.47	.27	.05	.18	0.02	-.24	.44	.36	-.21	-.02	-.32	.38	-.23	.36	-.05	.82
Vulnerability	-.45	.63	.17	-.00	-.17	-.40	.65	.02	.08	-.05	-.41	.64	.02	-.00	-.08	.98**
Extraversion																
Warmth	-.08	-.13	.42	.63	.17	-.00	-.08	.72	.35	.26	-.10	-.08	.40	.70	.23	.99**
Gregariousness	-.06	-.13	.05	.73	-.09	-.16	-.15	.76	.01	.01	-.28	-.21	.08	.70	-.03	.95**
Assertiveness	.27	-.47	-.30	.45	.10	.45	-.18	.49	-.33	-.00	.35	-.25	-.30	.55	.00	.94*
Activity	.33	-.05	-.10	.69	.01	.42	-.07	.51	-.14	.21	.32	-.12	-.12	.58	.21	.95**
Excitement-Seeking	.06	.18	-.11	.69	.11	-.27	-.05	.58	-.19	.11	-.37	-.12	-.14	.54	.07	.70
Positive Emotions	.08	-.24	.21	.67	.21	.12	-.22	.64	.15	.28	.01	-.25	.21	.63	.26	.99**
Openness to Experience																
Fantasy	-.42	-.00	-.11	.01	.63	-.22	.12	.11	.16	.66	-.27	.14	.17	.10	.64	.89*
Aesthetics	.13	.19	.12	.24	.63	.05	.07	.07	.12	.79	-.01	.09	.12	.10	.78	.95**
Feelings	.01	.17	-.02	.36	.76	.15	.30	.24	-.00	.60	.07	.28	-.03	.31	.59	.98**

Actions	.29	-.11	.14	.33	.36	-.12	-.52	.21	-.06	.32	-.15	-.53	.02	.16	.31	.47
Ideas	.13	-.16	.01	-.03	.71	.24	-.17	-.02	-.04	.73	.20	-.16	-.03	.04	.74	.99**
Values	.03	-.09	.07	-.10	.47	-.05	-.15	.17	-.14	.57	-.11	-.17	-.11	.17	.56	.81
Agreeableness																
Trust	-.07	-.24	.66	.30	-.10	-.12	-.38	.38	.48	.11	-.15	-.34	.54	.31	.09	.94**
Straightforwardness	.09	.03	.66	-.05	.07	.13	-.13	-.06	.64	-.20	.19	-.05	.64	-.08	-.19	.91*
Altruism	-.07	-.03	.67	.22	.32	.27	.07	.35	.63	.13	.23	.12	.62	.37	.13	.85
Compliance	.05	-.00	.75	-.29	-.16	-.08	-.17	-.33	.69	.12	.01	-.05	.69	-.37	.14	.92*
Modesty	-.11	.38	.62	-.14	.10	-.09	.20	-.15	.58	-.02	-.04	.27	.54	-.17	-.02	.97**
Tender-Mindedness	.09	.15	.70	.26	.05	.11	.12	.19	.59	.06	.10	.18	.57	.19	.06	.99**
Conscientiousness																
Competence	.71	-.35	-.10	.27	.07	.72	-.20	.05	-.05	.20	.70	-.20	-.06	.16	.24	.95**
Order	.73	.19	-.01	-.05	-.01	.70	.02	-.13	.09	-.20	.72	.05	.04	-.02	-.16	.96**
Dutifulness	.65	-.18	.10	.14	.35	.71	-.03	-.04	.33	-.00	.72	.02	.29	.06	.04	.85
Achievement Striving	.83	-.09	-.08	.25	.05	.82	-.01	.07	-.11	.14	.78	-.01	-.14	.21	.18	.98**
Self-Discipline	.80	-.27	.01	.09	.02	.76	-.22	-.01	-.01	-.00	.76	-.20	-.03	.10	.04	1.00**
Deliberation	.73	-.09	.26	-.16	-.11	.58	-.01	-.39	.21	-.06	.65	.06	.15	-.30	-.02	.95**
FACTOR CONG											.92*	.92*	.95**	.95**	.89*	
% VARIANCE EXPLAINED	20.27	13.06	10.68	8.48	6.45	17.42	13.36	10.39	9.74	5.88						

*p < 0.05

** p < 0.01

Table 6.21: Factor analysis using Procrustes rotation for gender and the CPAI-2

	Varimax Rotation - Male				Varimax Rotation – Female				Procrustes Rotation				
Scale	Factor 1	Factor 2	Factor 3	Factor 4	Factor 1	Factor 2	Factor 3	Factor 4	Factor 1	Factor 2	Factor 3	Factor 4	Cong
Social Potency													
Novelty	.16	.72	.42	-.06	.40	.67	.13	.01	.18	.68	.36	.04	.99**
Diversity	.27	.35	.63	-.22	.17	.66	.20	-.09	.14	.40	.55	-.19	.98**
Divergent Thinking	.08	.51	.65	-.03	.10	.80	.10	.07	.03	.47	.66	-.03	1.00**
Leadership	.22	.75	.17	.17	.45	.57	-.35	.11	.14	.74	.18	.22	.99**
Logical vs Affective Orientation	.31	.11	.54	.10	.16	.63	.09	.32	.13	.35	.59	.23	.89*
Aesthetics	-.18	.15	.58	.04	-.03	.63	.10	-.16	-.08	.36	.49	-.24	.83
Extraversion vs Introversion	.05	.71	.12	-.22	.34	.36	-.03	-.25	.20	.46	.11	-.22	.94**
Enterprise	.65	.57	.08	-.06	.74	.40	-.03	-.01	.56	.62	.12	.03	.99**
Dependability													
Responsibility	.34	-.16	.36	.62	.32	.16	.12	.59	.37	.06	.29	.51	.96**
Emotionality	-.65	-.23	.06	-.08	-.60	.11	-.36	-.20	-.72	.03	-.03	-.12	.92*
Inferiority vs Self-Acceptance	-.80	-.29	-.07	-.01	-.79	-.18	-.21	-.01	-.75	-.36	-.08	.02	.99**
Practical Mindedness	.62	-.16	.17	.22	.37	.06	.32	.43	.51	-.06	.25	.31	.96**
Optimism	.65	.52	.03	.14	.72	.21	.18	.09	.68	.35	.12	.06	.97**
Meticulousness	.16	-.33	.22	.61	.10	-.03	.28	.62	.29	-.26	.29	.48	.96**

Face	-.52	.08	.03	.28	-.59	-.10	-.24	.14	-.59	-.24	-.03	.18	.86
Internal / External LOC	.58	.09	.28	-.15	.38	.20	.28	-.16	.42	.17	.17	-.24	.95**
Family Orientation	.52	-.12	.04	.04	.21	-.10	.48	.22	.46	-.29	.19	.06	.91*
Accommodation													
Defensiveness	-.52	-.03	-.22	.61	-.24	-.15	-.62	.31	-.46	.09	-.30	.51	.98**
Graciousness vs Meanness	.67	.10	.10	-.33	.43	.08	.61	-.23	.63	-.05	.22	-.41	.97**
Interpersonal Tolerance	.26	.22	.62	-.42	.28	.34	.60	-.20	.47	.04	.46	-.41	.92*
Self vs Social Orientation	.01	-.34	.01	.05	-.07	.27	.20	-.36	-.16	.18	.22	.37	-.21
Veraciousness vs Slickness	.20	-.38	.30	-.40	.03	-.02	.70	.02	.38	-.41	.36	-.23	.93*
Interpersonal Relatedness													
Traditionalism vs Modernity	-.01	.24	-.28	.52	-.13	-.38	-.14	.58	-.06	-.34	-.16	.61	.62
Relationship Orientation	-.35	-.01	.22	.08	-.41	.12	.09	.30	-.29	-.23	.32	.21	.85
Social Sensitivity	-.20	.50	.47	-.00	-.04	.49	.37	.14	.09	.04	.62	-.04	.65
Discipline	-.17	-.08	.09	.73	-.13	-.14	-.11	.73	-.07	-.24	.08	.72	.97**
Harmony	-.19	-.06	.67	.04	-.02	.24	.59	.26	.27	-.26	.58	.00	.94**
Thrift vs Extravagance	-.35	-.09	.48	.10	-.18	.13	.09	.45	-.17	-.05	.22	.42	.69
FACTOR CONG									.96**	.79	.96**	.92*	
% VARIANCE EXPLAINED	23.79	11.08	9.18	8.18	22.95	10.18	9.49	6.55					

*p < 0.05

** p < 0.01

Table 6.24: Factor analysis using Procrustes rotation for population group and the NEO-PI-R

	Varimax Rotation – White					Varimax Rotation – Non-white					Procrustes Rotation					
Scale	Factor 1	Factor 2	Factor 3	Factor 4	Factor 5	Factor 1	Factor 2	Factor 3	Factor 4	Factor 5	Factor 1	Factor 2	Factor 3	Factor 4	Factor 5	Cong
Neuroticism																
Anxiety	-.09	.79	-.17	.01	.08	.03	-.01	.74	-.05	.10	.05	.69	-.19	.14	.17	.96**
Angry Hostility	.05	.73	.03	-.34	-.12	-.01	-.61	.54	.17	-.10	.05	.67	.01	-.48	-.09	.98**
Depression	-.19	.81	-.14	.07	.08	-.24	-.03	.83	-.10	-.01	-.23	.79	-.24	.13	.07	.99**
Self-Consciousness	-.13	.73	-.26	.13	.06	.02	.12	.78	-.14	-.08	.02	.70	-.30	.28	-.00	.96**
Impulsiveness	-.24	.53	.27	-.04	-.09	-.37	-.19	.23	.37	.01	-.30	.37	.36	-.15	-.01	.93*
Vulnerability	-.30	.73	-.09	.18	.02	-.47	.09	.55	.12	-.24	-.43	.58	.05	.19	-.20	.91*
Extraversion																
Warmth	-.14	-.01	.74	.33	.14	-.10	.48	-.07	.60	.29	-.03	-.04	.66	.44	.25	.96**
Gregariousness	-.11	-.09	.78	-.01	-.06	-.15	.09	-.21	.71	.04	-.05	-.06	.76	.03	-.04	1.00**
Assertiveness	.48	-.19	.48	-.32	-.05	.34	-.32	-.38	.45	.11	.40	-.24	.46	-.38	.02	.98**
Activity	.49	-.08	.47	-.07	.22	.33	-.13	-.11	.61	.08	.43	.02	.57	-.14	.00	.93*
Excitement-Seeking	-.18	-.06	.66	-.19	.03	-.20	-.21	.11	.59	.26	-.09	.27	.59	-.21	.21	.85
Positive Emotions	.13	-.19	.65	.20	.22	.05	.21	-.12	.65	.34	.14	-.04	.69	.16	.28	.98**
Openness to Experience																
Fantasy	-.28	.14	.01	-.04	.67	.29	.17	.05	.09	.60	-.27	.02	.19	.14	.60	.92*
Aesthetics	.15	.17	.07	.19	.75	.06	.14	.16	.16	.73	.10	.12	.19	.13	.72	.98**
Feelings	.27	.44	.22	-.01	.56	.04	.07	.16	.26	.67	.09	.15	.28	.06	.66	.89*

Actions	-.09	-.40	.42	.09	.32	.13	.00	-.26	.07	.47	.14	-.26	.15	-.07	.44	.77
Ideas	.15	-.23	-.09	-.11	.72	.24	.02	-.09	.06	.68	.25	-.13	.12	-.03	.66	.94*
Values	.02	-.09	.17	.06	.43	-.06	-.13	-.09	.02	.60	-.05	-.09	.10	-.18	.58	.88*
Agreeableness																
Trust	-.02	-.30	.45	.53	.04	-.16	.64	-.26	.23	.05	-.16	-.31	.34	.56	.03	.97**
Straightforwardness	.16	-.07	-.04	.67	-.29	.13	.66	.05	-.13	.05	.09	-.13	-.11	.66	.09	.85
Altruism	.16	.06	.35	.61	.13	.21	.67	.17	.30	.16	.24	.07	.27	.69	.16	.99**
Compliance	-.18	-.23	0.26	.66	.21	.06	.76	.08	-.30	-.09	-.02	-.13	-.28	.76	-.03	.92*
Modesty	-.10	.20	0.11	.71	-.07	-.04	.47	.45	-.17	.12	-.06	.30	-.22	.54	.19	.89*
Tender-Mindedness	.07	.09	.18	.68	-.17	.16	.54	.21	.29	-.08	.19	.15	.23	.58	-.07	.91*
Conscientiousness																
Competence	.74	-.20	.12	-.18	.12	.72	.06	-.30	.09	.16	.71	-.34	.07	.01	.12	.95**
Order	.64	.03	-.17	.10	-.15	.77	.02	.10	-.05	-.15	.75	.03	-.19	.07	-.14	1.00**
Dutifulness	.71	-.18	-.06	.15	.11	.72	.29	.07	.02	.08	.70	-.05	-.07	.31	.09	.96**
Achievement Striving	.84	.00	.13	-.06	.18	.83	-.11	-.05	.12	.04	.84	-.07	.01	-.09	.02	.97**
Self-Discipline	.75	-.24	.04	.08	-.04	.80	-.05	-.19	-.01	.07	.79	-.24	-.08	-.06	.05	.97**
Deliberation	.57	-.09	-.38	.12	-.09	.67	.26	.04	-.26	-.06	.61	-.11	-.35	.29	-.03	.97**
FACTOR CONG											.96**	.95**	.96**	.94**	.89*	
% VARIANCE EXPLAINED											19.12	12.23	10.47	9.75	6.60	17.23
											13.50	12.33	8.36	5.71		

*p < 0.05

** p < 0.01

Table 6.27: Factor analysis using Procrustes rotation for population group and the CPAI-2

Scale	Varimax Rotation – White				Varimax Rotation – Non-White				Procrustes Rotation				Cong
	Factor 1	Factor 2	Factor 3	Factor 4	Factor 1	Factor 2	Factor 3	Factor 4	Factor 1	Factor 2	Factor 3	Factor 4	
Social Potency													
Novelty	.67	-.14	.43	-.11	-.23	.76	.02	-.11	.57	-.15	.55	-.07	.98**
Diversity	.36	.18	.60	-.19	-.13	.69	.02	.27	.34	.15	.65	-.11	.99**
Divergent Thinking	.42	-.13	.69	.05	-.06	.77	.15	.13	.37	-.00	.71	.03	.98**
Leadership	.74	-.23	.25	-.01	-.25	.64	.09	-.43	.64	-.39	.33	.06	.96**
Logical vs Affective Orientation	.46	-.13	.39	.28	-.18	.57	.33	.05	.42	.05	.49	.24	.95**
Aesthetics	.05	-.03	.66	-.04	.04	.60	-.17	.07	.20	-.10	.54	-.25	.90*
Extraversion vs Introversion	.33	.14	.27	-.25	-.21	.50	.28	.00	.38	-.05	.32	-.35	.93*
Enterprise	.85	.07	.15	-.10	-.72	.41	.07	-.15	.84	.09	.06	-.01	.99**
Dependability													
Responsibility	.23	.18	.20	.67	-.24	.19	.62	-.06	.35	.10	.14	.58	.97**
Emotionality	-.56	-.47	.06	-.16	.59	.08	-.29	-.14	-.44	-.43	.18	-.23	.97**
Inferiority vs Self-Acceptance	-.71	-.41	-.06	-.05	.83	-.20	-.13	-.05	-.77	-.37	.08	-.03	.98**
Practical Mindedness	.28	.48	.09	.42	.30	.10	.46	.24	.26	.38	.13	.38	.99**
Optimism	.76	.28	.05	.05	.67	.32	.19	-.02	.73	.22	.06	.10	1.00**
Meticulousness	-.10	.20	.06	.64	-.08	.02	.67	.09	.10	.20	.10	.63	.96**
Face	-.39	-.37	-.11	.11	.67	-.05	.07	-.18	-.52	-.42	.13	.16	.93*

Internal / External LOC	.48	.24	-.05	.05	-.54	.20	-.05	.20	.48	.35	.05	-.15	92*
Family Orientation	.09	.50	.11	.14	-.32	-.24	.44	.26	.11	.48	-.17	.39	81
Accommodation													
Defensiveness	-.25	-.65	.01	.31	.32	-.18	.15	-.68	-.13	-.67	-.26	.29	.93*
Graciousness vs Meanness	.29	.70	.06	-.20	-.55	.07	-.01	.56	.32	.70	.07	-.14	1.00**
Interpersonal Tolerance	.24	.56	.47	-.15	-.29	.40	-.07	.61	.23	.57	.45	-.23	.99**
Self vs Social Orientation	.05	-.37	.15	.31	-.02	.08	.20	.26	.15	-.20	.00	.23	.88*
Veraciousness vs Slickness	-.15	.75	.04	.10	.05	-.02	.13	.73	-.26	.64	.26	.02	.93*
Interpersonal Relatedness													
Traditionalism vs Modernity	-.01	-.13	-.27	.48	.20	-.31	.54	-.25	-.19	-.16	-.21	.62	.95**
Relationship Orientation	-.32	-.06	.39	.10	.46	.06	.29	.11	-.37	-.07	.28	.29	.91*
Social Sensitivity	.10	.25	.51	.07	.25	.54	.19	.32	-.06	.09	.69	.09	.91*
Discipline	-.07	-.18	-.15	.74	.30	-.09	.71	-.23	-.17	-.20	.04	.76	.96**
Harmony	.01	.40	.56	.19	.03	.17	.40	.55	-.09	.49	.40	.29	.95**
Thrift vs Extravagance	-.23	-.16	.25	.32	.36	.20	.39	.07	-.21	-.07	.37	.38	.96**
FACTOR CONG									.97**	.97**	.92*	.95**	
% VARIANCE EXPLAINED	23.27	9.77	8.89	7.23	21.94	10.53	9.78	8.45					

*p < 0.05

** p < 0.01

Table 6.30: Factor analysis using Procrustes rotation for home language and the NEO-PI-R

	Varimax Rotation – English1					Varimax Rotation – English2					Procrustes Rotation					
Scale	Factor 1	Factor 2	Factor 3	Factor 4	Factor 5	Factor 1	Factor 2	Factor 3	Factor 4	Factor 5	Factor 1	Factor 2	Factor 3	Factor 4	Factor 5	Cong
Neuroticism																
Anxiety	-.02	.79	-.16	.04	.10	-.07	-.01	.67	.25	-.04	-.02	.66	-.09	.02	.28	.96**
Angry Hostility	.00	.71	.07	-.41	-.11	.09	-.53	.57	.03	.19	.12	.61	.11	-.49	-.01	.97**
Depression	-.20	.82	-.13	.06	.10	-.26	.03	.79	-.03	-.12	-.23	.78	-.21	.09	.03	.99**
Self-Consciousness	-.07	.74	-.26	.15	.08	-.01	.18	.73	-.21	-.14	-.00	.70	-.24	.23	-.16	.94**
Impulsiveness	-.26	.46	.35	-.04	.06	-.37	-.23	.29	.00	.41	-.34	.37	.38	-.21	-.01	.94**
Vulnerability	-.36	.68	-.02	.19	.05	-.40	.01	.57	-.17	.16	-.39	.60	.09	.06	-.13	.97**
Extraversion																
Warmth	.05	-.02	.71	.40	.20	-.09	.49	-.18	.37	.49	-.04	-.16	.55	.46	.34	.94**
Gregariousness	.12	-.12	.76	.07	-.01	-.15	.06	-.26	.10	.65	-.12	-.18	.69	.04	.04	.99**
Assertiveness	.38	-.27	.54	-.35	-.02	.47	-.27	-.22	.26	.30	.49	-.20	.33	-.29	.17	.92*
Activity	.44	-.12	.51	.05	.21	.35	-.17	-.01	.01	.68	.37	.07	.66	-.17	-.09	.85
Excitement-Seeking	-.16	-.04	.62	-.16	.11	-.21	-.13	.09	.10	.65	-.17	.18	.64	-.12	.04	.94**
Positive Emotions	.11	-.21	.63	.24	.28	.03	.19	-.09	.36	.64	.08	-.04	.68	.17	.29	.97*
Openness to Experience																
Fantasy	-.23	.09	.02	-.01	.71	-.39	.23	.05	.56	.12	-.34	.06	.19	.21	.59	.90*
Aesthetics	.11	.14	.08	.18	.76	.08	.14	.14	.72	.15	.15	.14	.20	.11	.70	.98**

Feelings	.23	.33	.29	.08	.58	.00	-.00	.19	.76	.18	.08	.19	.23	-.02	.74	.94**
Actions	.01	-.40	.27	.12	.32	.01	-.04	-.38	.42	.14	.03	-.36	.22	-.08	.39	.93*
Ideas	.21	-.20	-.05	-.06	.70	.13	.01	-.13	.68	.04	.18	-.15	.12	-.03	.65	.97**
Values	-.02	-.07	.17	-.01	.53	-.01	-.13	-.26	.43	-.03	.02	-.26	.05	-.16	.42	.85
Agreeableness																
Trust	-.05	.32	.37	.56	.07	-.22	.60	-.31	.01	.25	-.22	-.30	.30	.58	.02	.97**
Straightforwardness	.13	-.02	-.04	.69	-.22	.16	.63	-.13	.04	-.22	.16	-.21	-.20	.62	.07	.86
Altruism	.21	.05	.30	.66	.15	.15	.67	-.12	.19	.21	.18	.09	.22	.67	.19	.99**
Compliance	-.08	-.17	-.35	.70	.16	-.04	.69	.04	-.16	-.34	-.06	-.03	-.35	.70	-.09	.94**
Modesty	-.09	.29	-.16	.67	-.06	.03	.53	.24	.09	-.18	.04	.18	-.19	.54	.14	.93*
Tender-Mindedness	.08	.10	.20	.61	.15	.20	.65	.25	-.09	.22	.22	.22	.17	.67	-.10	.92*
Conscientiousness																
Competence	.75	-.26	.12	-.05	.11	.66	-.13	-.22	.31	.01	.67	-.24	.04	-.16	.24	.97**
Order	.72	.06	-.16	.02	-.12	.67	.17	-.13	-.23	.01	.65	.09	-.05	.19	-.27	.94**
Dutifulness	.74	-.10	.00	.24	.10	.65	.25	-.06	.03	-.11	.64	-.12	-.12	.24	-.00	.98**
Achievement Striving	.84	-.04	.13	-.04	.11	.84	-.17	-.00	.08	.07	.84	-.02	.04	-.18	.00	.97**
Self-Discipline	.80	-.23	.02	-.02	-.01	.74	.08	-.20	-.00	.01	.73	-.23	.01	.06	-.07	.99**
Deliberation	.61	-.04	-.39	.19	-.04	.64	.18	-.04	-.10	-.30	.62	-.12	-.33	.18	-.11	.99**
FACTOR CONG											.98**	.96**	.96**	.95**	.88	
% VARIANCE EXPLAINED																
	19.01	12.83	11.23	9.19	6.18	15.54	13.66	11.45	8.48	5.78						

*p < 0.05

** p < 0.01

Table 6.33: Factor analysis using Procrustes rotation for home language and the CPAI-2

	Varimax Rotation – English1				Varimax Rotation – English2				Procrustes Rotation				
Scale	Factor 1	Factor 2	Factor 3	Factor 4	Factor 1	Factor 2	Factor 3	Factor 4	Factor 1	Factor 2	Factor 3	Factor 4	Cong
Social Potency													
Novelty	.40	.68	-.21	-.04	.79	.10	-.01	-.06	.35	.67	-.24	-.01	1.00**
Diversity	.20	.68	.21	-.03	.71	.14	-.11	.24	.19	.74	.04	.01	.97**
Divergent Thinking	.13	.81	-.06	.05	.71	.11	.07	.26	.17	.73	-.03	.18	.98**
Leadership	.49	.49	-.41	-.02	.76	-.04	.18	-.13	.29	.60	-.43	.13	.94**
Logical vs Affective Orientation	.26	.51	-.15	.32	.63	.20	.17	.23	.24	.63	-.00	.27	.96**
Aesthetics	-.07	.60	.08	.01	.64	-.15	-.27	-.04	.08	.61	-.24	-.28	.77
Extraversion vs Introversion	.23	.43	.08	-.28	.54	.13	-.23	-.10	.30	.47	-.10	-.23	.95**
Enterprise	.80	.31	-.16	-.04	.65	.52	.00	-.18	.70	.48	-.03	.02	.96**
Dependability													
Responsibility	.25	.14	.05	.69	.31	.23	.59	-.03	.34	.16	-.18	.57	.93*
Emotionality	-.67	-.03	-.18	-.20	.14	-.67	-.20	-.02	-.49	.17	-.39	-.29	.88*
Inferiority vs Self-Acceptance	-.81	-.17	-.18	-.10	-.41	-.68	-.01	.25	-.79	-.23	-.11	-.02	.99**
Practical Mindedness	.36	.08	.31	.51	.05	.42	.28	.21	.25	.07	.28	.39	1.00**
Optimism	.77	.26	-.01	.08	.31	.62	.15	-.08	.63	.20	.16	.20	.95**
Meticulousness	-.01	.03	.12	.68	-.10	.29	.62	.10	.19	-.16	.07	.65	.92*
Face	-.55	-.12	-.22	.02	-.07	.62	.27	.13	-.56	-.03	-.35	.21	.93*

Internal / External LOC	.48	.18	.24	-.00	.30	.45	-.15	-.26	.57	.16	.05	-.16	.90*
Family Orientation	.28	-.06	.36	.28	-.14	.53	.23	.23	.27	-.09	.44	.36	.99**
Accommodation													
Defensiveness	-.31	-.18	-.67	.23	-.16	-.60	.27	-.23	-.38	-.26	-.54	.08	.96**
Graciousness vs Meanness	.46	.13	.61	-.12	.08	.75	-.17	.17	.51	.14	.58	.01	.98**
Interpersonal Tolerance	.24	.55	.52	-.06	.20	.57	-.33	.39	.27	.37	.63	-.09	.96**
Self vs Social Orientation	-.01	.07	-.33	.31	.15	-.13	.30	-.24	.09	-.01	-.38	.18	.91*
Veraciousness vs Slickness	-.05	.03	.79	.17	-.08	.38	-.09	.41	.05	.10	.55	.11	.98**
Interpersonal Relatedness													
Traditionalism vs Modernity	-.07	-.35	-.23	.39	-.24	-.15	.70	.11	-.20	-.27	-.17	.67	.93*
Relationship Orientation	-.43	.21	-.05	.19	-.10	-.17	.19	.56	-.45	.12	.23	.35	.85
Social Sensitivity	-.09	.58	.22	.17	.38	-.01	-.09	.61	-.22	.61	.29	.13	.98**
Discipline	-.18	-.15	-.19	.68	-.05	-.23	.80	.03	-.16	-.15	-.36	.72	.98**
Harmony	.03	.36	.40	.34	.08	.26	.10	.72	-.15	.35	.56	.38	.96**
Thrift vs Extravagance	-.39	.13	-.00	.39	.34	-.17	.30	.30	-.17	.39	-.13	.36	.79
FACTOR CONG									.96**	.96**	.89*	.92*	
% VARIANCE EXPLAINED	23.21	9.51	9.06	8.04	21.93	11.26	10.36	7.22					

*p < 0.05

** p < 0.01