

Faculty of Psychology and Educational Sciences
Academy year 2012-2013
Second examination period

ACADEMIC TENURE:
THE RESEARCHER PERSONALITY ARCHETYPE

Thesis submitted for the degree of Master of Psychology,
option Theoretical and Experimental Psychology
by Koen De Couck

Promotor: Prof. dr. Wouter Duyck
Co-Promotor: Prof. dr. Frederik Anseel

Table 1

Pearson correlations for the researcher sample

	articles	citation	h-index	age	QS	swl	IQ	O	C	E	A	N
articles		0.62 (<i>< .001</i>)	0.85 (<i>< .001</i>)	0.43 (<i>< .001</i>)	0.05 (0.56)	0.09 (0.88)	insuf	-0.09 (0.23)	-0.10 (0.18)	-0.17 (0.03)	-0.20 (0.01)	0.01 (0.85)
citations	0.62 (<i>< .001</i>)		0.74 (<i>< .001</i>)	0.31 (0.91)	0.02 (0.79)	0.07 (0.001)	insuf	-0.03 (0.68)	0.00 (0.99)	-0.14 (0.08)	-0.04 (0.65)	0.11 (0.17)
h-index	0.85 (<i>< .001</i>)	0.74 (<i>< .001</i>)		0.41 (<i>< .001</i>)	0.08 (0.36)	0.10 (0.88)	insuf	-0.06 (0.42)	-0.06 (0.41)	-0.19 (0.01)	-0.12 (0.13)	0.11 (0.14)
age	0.43 (<i>< .001</i>)	0.31 (0.001)	0.41 (<i>< .001</i>)		0.06 (0.003)	0.17 (0.03)	0.16 (0.22)	0.00 (0.96)	0.05 (0.001)	-0.04 (0.01)	0.04 (0.005)	-0.02 (0.23)
QS	0.05 (0.56)	0.02 (0.79)	0.08 (0.36)	0.06 (0.003)		0.15 (0.12)	-0.07 (0.70)	-0.02 (0.19)	-0.03 (0.05)	-0.02 (0.21)	-0.05 (0.005)	-0.01 (0.43)
SWL	0.09 (0.88)	0.07 (0.91)	0.10 (0.88)	0.17 (0.03)	0.15 (0.12)		-0.33 (0.21)	0.07 (0.29)	0.14 (0.04)	0.28 (<i>< .001</i>)	0.17 (0.01)	-0.36 (<i>< .001</i>)
IQ	insuf	insuf	insuf	0.16 (0.22)	-0.07 (0.70)	-0.33 (0.21)		-0.05 (0.73)	-0.09 (0.52)	0.01 (0.94)	0.18 (0.18)	-0.02 (0.90)
O	-0.09 (0.23)	-0.03 (0.68)	-0.06 (0.42)	0.00 (0.96)	-0.02 (0.19)	0.07 (0.29)	-0.05 (0.73)		0.55 (<i>< .001</i>)	0.58 (<i>< .001</i>)	0.57 (<i>< .001</i>)	0.37 (<i>< .001</i>)
C	-0.10 (0.18)	0.00 (0.99)	-0.06 (0.41)	0.05 (0.001)	-0.03 (0.05)	0.14 (0.04)	-0.09 (0.52)	0.55 (<i>< .001</i>)		0.57 (<i>< .001</i>)	0.60 (<i>< .001</i>)	0.25 (<i>< .001</i>)
E	-0.17 (0.03)	-0.14 (0.08)	-0.19 (0.01)	-0.04 (0.01)	-0.02 (0.21)	0.28 (<i>< .001</i>)	0.01 (0.94)	0.58 (<i>< .001</i>)	0.57 (<i>< .001</i>)		0.56 (<i>< .001</i>)	0.16 (<i>< .001</i>)
A	-0.20 (0.01)	-0.04 (0.65)	-0.12 (0.13)	0.04 (0.005)	-0.05 (0.005)	0.17 (0.01)	0.18 (0.18)	0.57 (<i>< .001</i>)	0.60 (<i>< .001</i>)	0.56 (<i>< .001</i>)		0.16 (<i>< .001</i>)
N	0.01 (0.85)	0.11 (0.17)	0.11 (0.14)	-0.02 (0.23)	-0.01 (0.43)	-0.36 (<i>< .001</i>)	-0.02 (0.90)	0.37 (<i>< .001</i>)	0.25 (<i>< .001</i>)	0.16 (<i>< .001</i>)	0.16 (<i>< .001</i>)	
net size	-0.16 (0.54)	-0.07 (0.80)	-0.16 (0.55)	-0.12 (0.002)	-0.11 (0.06)	-0.03 (0.89)	-0.27 (0.12)	0.02 (0.55)	0.01 (0.72)	0.22 (<i>< .001</i>)	0.00 (0.95)	-0.11 (0.003)
density	0.17 (0.53)	-0.07 (0.81)	0.14 (0.61)	0.00 (0.90)	-0.01 (0.82)	0.14 (0.47)	0.40 (0.02)	0.04 (0.28)	0.10 (0.01)	0.04 (0.35)	0.04 (0.28)	0.11 (0.003)
SD	insuf	insuf	insuf	0.09 (0.40)	-0.16 (0.22)	0.05 (0.69)	0.20 (0.42)	0.02 (0.81)	0.12 (0.20)	-0.02 (0.79)	0.17 (0.06)	-0.16 (0.09)
FM	insuf	insuf	insuf	0.17 (0.10)	0.01 (0.93)	0.37 (0.004)	0.09 (0.73)	0.13 (0.16)	0.19 (0.04)	0.21 (0.02)	0.24 (0.01)	-0.30 (<i>< .001</i>)
N likes	0.01 (0.94)	-0.11 (0.49)	-0.02 (0.91)	-0.13 (<i>< .001</i>)	-0.05 (0.13)	-0.02 (0.88)	-0.03 (0.83)	0.04 (0.05)	-0.04 (0.05)	0.00 (0.98)	-0.06 (0.02)	0.03 (0.21)
N status	0.02 (0.93)	-0.11 (0.56)	0.01 (0.96)	-0.20 (<i>< .001</i>)	-0.08 (0.05)	-0.25 (0.12)	-0.02 (0.92)	-0.04 (0.18)	-0.04 (0.12)	0.02 (0.55)	-0.08 (0.004)	0.05 (0.07)
N event	-0.04 (0.92)	-0.19 (0.61)	-0.08 (0.83)	-0.18 (<i>< .001</i>)	-0.03 (0.68)	0.17 (0.50)	-0.54 (0.02)	0.05 (0.32)	-0.05 (0.33)	0.12 (0.03)	0.06 (0.25)	-0.09 (0.12)
N group	-0.05 (0.77)	-0.09 (0.56)	-0.06 (0.72)	-0.15 (<i>< .001</i>)	-0.01 (0.73)	-0.05 (0.68)	0.03 (0.83)	0.07 (0.003)	-0.05 (0.03)	0.11 (<i>< .001</i>)	0.02 (0.46)	0.02 (0.37)
N work	0.08 (0.29)	0.14 (0.07)	0.05 (0.50)	-0.08 (<i>< .001</i>)	-0.02 (0.13)	0.03 (0.68)	0.09 (0.50)	0.10 (<i>< .001</i>)	0.05 (<i>< .001</i>)	0.08 (<i>< .001</i>)	0.07 (<i>< .001</i>)	0.03 (0.004)
N edu	0.00 (0.99)	0.13 (0.14)	-0.01 (0.91)	-0.07 (<i>< .001</i>)	-0.04 (0.04)	0.04 (0.63)	0.21 (0.10)	0.15 (<i>< .001</i>)	0.08 (<i>< .001</i>)	0.14 (<i>< .001</i>)	0.13 (<i>< .001</i>)	0.07 (<i>< .001</i>)
N tags	-0.20 (0.20)	-0.08 (0.61)	-0.19 (0.22)	-0.23 (<i>< .001</i>)	0.02 (0.55)	0.11 (0.36)	0.11 (0.48)	0.06 (0.02)	0.03 (0.18)	0.14 (<i>< .001</i>)	0.10 (<i>< .001</i>)	-0.03 (0.17)

Note. Significance is color-coded (red / gray). Near-significant results are gray ($p < .10$).

Correlation size is intensity-coded.

Table 2

T-test results for researchers characteristics

	Researchers			Population			<i>t</i> (df)	p*
	M	Median	SD	M	Median	SD		
IQ	122.1	125.1	14.4	113.1	115.2	15.1	5.01 (67.1)	< .001
O	62.0	66.0	23.2	66.2	67.0	17.3	-15.16 (6915.2)	< .001
E	53.3	56.0	24.4	61.1	63.0	20.6	-26.42 (6929.6)	< .001
A	55.4	57.0	22.2	60.2	61.0	17.8	-18.12 (6923.38)	< .001
N	36.9	37.0	20.6	43.1	44.0	19.4	-24.68 (6946.2)	< .001
Network size	395	314	323	317	240	282	6.34 (731.0)	< .001
N likes	131	71	196	153	67	292	-5.17 (2425.4)	< .001
N status	163.9	108	188.2	133.5	86	157.3	6.05 (1451.3)	< .001
N group	38	23	42	29	14	42	9.01 (1957.6)	< .001
N work	1.3	1	0.86	1.1	1	0.58	17.61 (7367.1)	< .001
N education	1.8	1	1.2	1.3	1	0.81	27.29 (5678.3)	< .001
N tags	118.0	27	203.8	45.5	3	120.5	16.22 (2094.0)	< .001
SWL	4.7	5	1.3	4.4	4.4	1.4	4.00 (229.6)	.0016
FM	3.6	4.0	6.4	1.7	1.5	6.2	3.21 (120.4)	0.03
N event	23	3	64	25	4	83	-0.71 (474.9)	ns
C	58.4	62.0	23.5	59.2	58	18.4	-2.83 (6921.1)	ns
Density	0.052	0.020	0.11	0.048	0.025	0.089	0.97 (726.0)	ns
SD	-0.2	0.0	6.8	0.6	1	6.7	-1.30 (726.0)	ns

Table 3

T-test results for researcher gender effects

	Men			Women			<i>t</i> (df)	p*
	M	Median	SD	M	Median	SD		
C	54.3	56	24.0	60.9	63	22.8	-11.16 (5102.7)	< .001
E	49.9	50	25.3	55.3	56	23.7	-8.88 (5042.9)	< .001
A	51.8	55	22.8	57.5	60	21.5	-10.21 (5076.5)	< .001
N	33.0	31	20.5	39.2	38	20.4	-12.03 (5282.3)	< .001
N work	1.37	1	0.97	1.27	1	0.79	4.39 (4902.5)	< .001
N education	1.89	1	1.31	1.72	1	1.18	4.77 (4228.0)	< .001
N tags	101.9	22	174.9	129.4	32	221.3	-3.15 (2053.9)	0.03
N articles	38.2	23	41.4	24.3	16	33.9	2.38 (155.1)	ns
N citations	732.3	111	1872.0	380.9	113	807.5	1.68 (151.8)	ns
h-index	8.4	5	8.7	6.5	5	6.2	1.65 (163.9)	ns
QS ranking	53.5	52.19	23.9	54.1	52.9	24.4	-0.82 (3251.6)	ns
SWL	4.5	4.8	1.4	4.9	5.2	1.2	-2.22 (162.7)	ns
age	32.1	30	9.5	32.5	30	9.6	-1.35 (4070.4)	ns
IQ	123.0	128.7	15.7	121.4	123.8	12.3	0.48 (59.7)	ns
O	60.9	66	24.5	62.7	66	22.4	-3.03 (4942.8)	ns
Network size	410	311	348	386	318	309	0.91 (465.7)	ns
Density	0.054	0.021	0.11	0.051	0.019	0.11	0.39 (500.6)	ns
SD	-0.36	-1.25	7.39	-0.091	1	6.6	-0.20 (76.2)	ns
FM	3.4	4	6.8	3.7	4	6.2	-0.30 (77.9)	ns
N likes	134.4	70	190.8	129.1	72.5	199.6	0.64 (2069.1)	ns
N status	148.5	90	188.4	176.0	122	187.3	-2.74 (1338.2)	ns
N event	21.8	4	64.0	23.8	3	64.5	-0.33 (376)	ns
N group	40.6	24	47.7	35.5	22	38.5	2.47 (1386.9)	ns

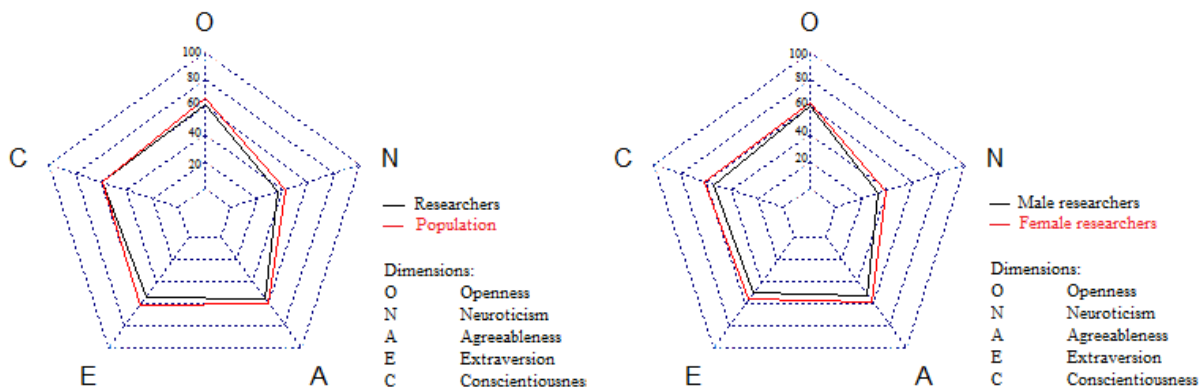


Figure 1. Big Five personality profile for academics ($N = 6864$). Left: Researcher profile. Right: Sex differences.

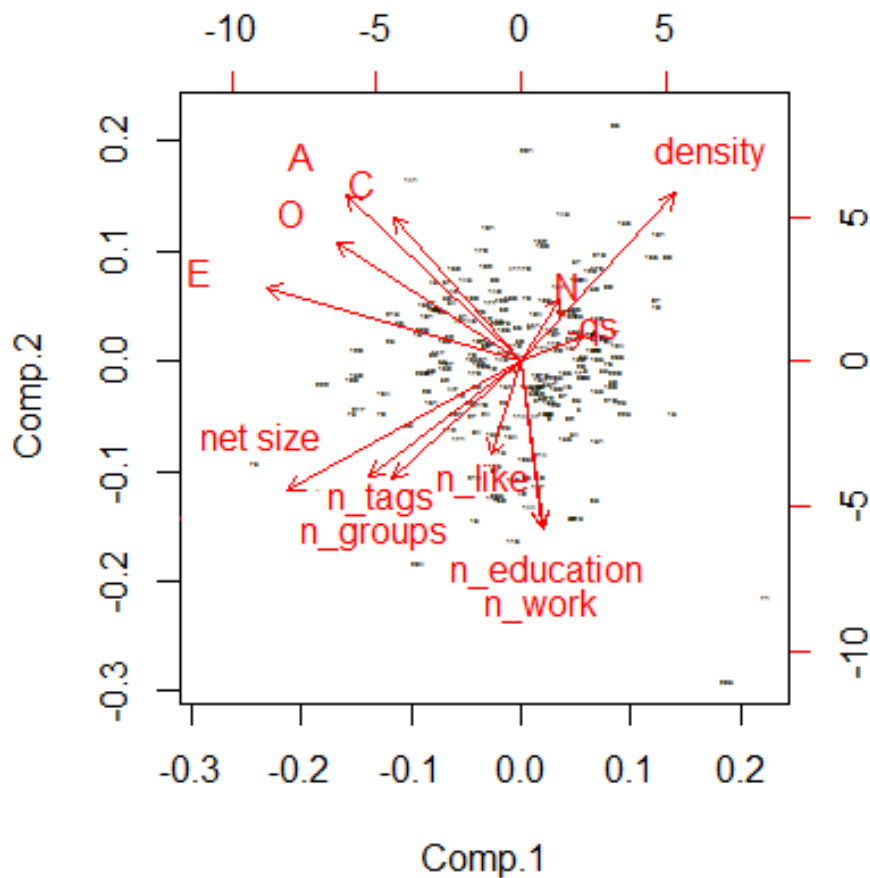


Figure 2. PCA results for the reduced, 13-dimensional dataset ($n = 266$).

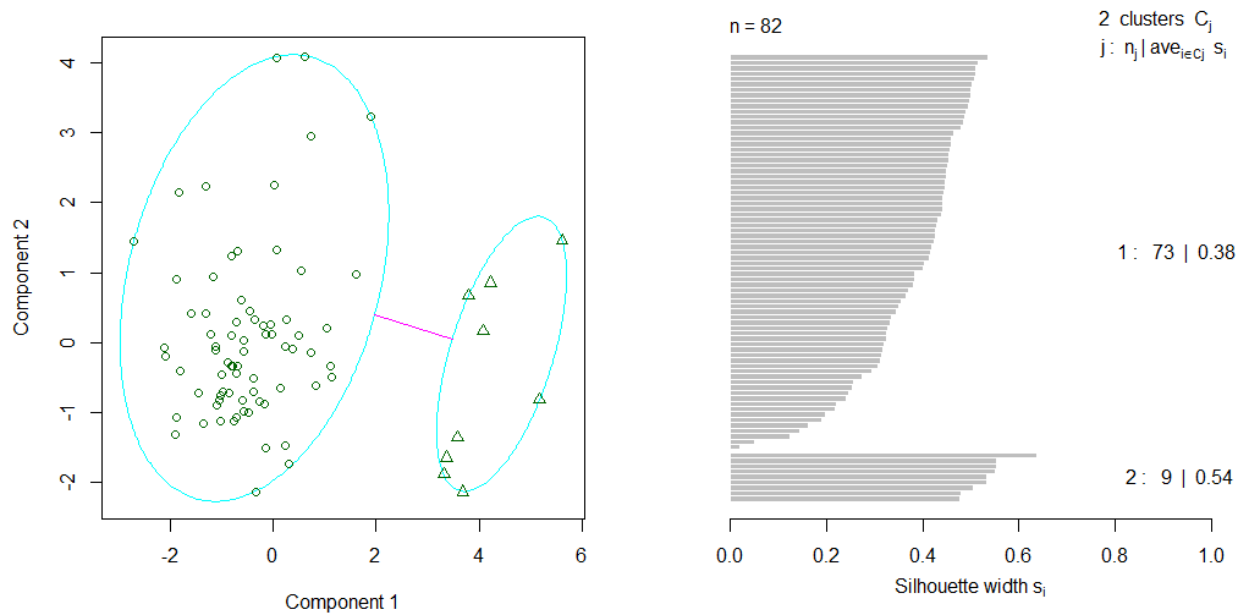


Figure 3. PAM clustering solutions for 2 clusters ($n = 82$). Left: Clusplot, right: Silhouette plot. Note the smaller cluster of high-performing individuals.

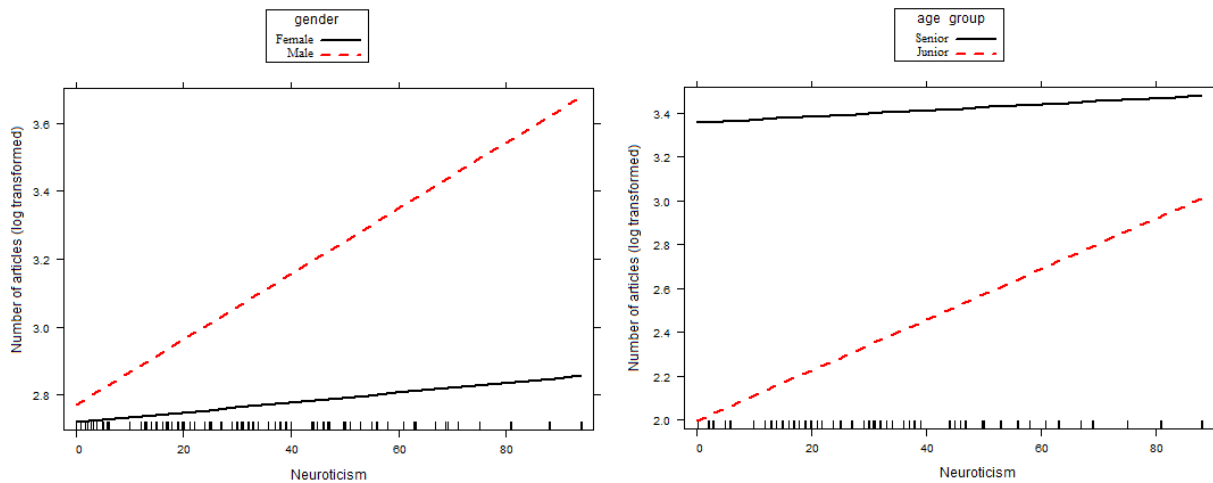


Figure 4. Interaction effects of neuroticism on researcher productivity (number of articles) ($n = 82$). Left: neuroticism x gender. Right: neuroticism x age. Categories are defined against median age (= 30 years).