Watch-wearing as a marker of conscientiousness

David A Ellis, Rob Jenkins

Several aspects of an individual's appearance have been shown to predict personality and related behaviour. While some of these cues are grounded in biology (e.g. the human face), other aspects of a person's appearance can be actively controlled (e.g. clothing). In this paper, we consider a common fashion accessory, the wristwatch. In an exploratory sample (N>100) and a confirmatory sample (N>600), we compared big-five personality traits between individuals who *do* or *do not* regularly wear a standard wristwatch. Significantly higher levels of conscientiousness were observed in participants who wore a watch. In a third study (N=85), watch wearers arrived significantly earlier to appointments in comparison to controls. These results are discussed in relation to enclothed cognition and the rise of wearable technology including smartwatches.

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.5	Abstract	
6	Several aspects of an individual's appearance have been shown to predict personality and related	d
7	behaviour. While some of these cues are grounded in biology (e.g. the human face), other aspec	ts
8	of a person's appearance can be actively controlled (e.g. clothing). In this paper, we consider a	
9	common fashion accessory, the wristwatch. In an exploratory sample (N>100) and a	
20	confirmatory sample (N>600), we compared big-five personality traits between individuals who)
21	do or do not regularly wear a standard wristwatch. Significantly higher levels of	
22	conscientiousness were observed in participants who wore a watch. In a third study (N=85),	
23	watch wearers arrived significantly earlier to appointments in comparison to controls. These	
24	results are discussed in relation to enclothed cognition and the rise of wearable technology	
25	including smartwatches.	

1. Introduction

27	The ability to perceive, and generalize from variations in behaviour or appearance helps provide
28	a sense of order and predictability in social interactions (Ambady & Skowronski 2008). and
29	observers routinely make rapid inferences about personality based on aspects of personal
30	appearance across a variety of contexts (Wall, Taylor, Dixon, Conchie & Ellis 2013). Inferences
31	are often based on information revealed through cues from the face, body, or voice. For example,
32	aspects of personality extracted from brief snippets of novel voices are remarkably consistent
33	between participants (McAleer, Todorov & Belin 2014). Similarly, people with broad faces are
34	rated as more aggressive (Carré & McCormick 2008). For some traits, there appears to be a
35	strong biological basis that explains any behavioural correlate - testosterone affects facial
36	appearance and aggression for example (Verdonch, Gaethofs, Carels & de Zegher 1999).
37	However, a second related branch of research concerns other aspects of an individuals'
38	appearance that can actively be controlled and a variety of specific inferential links have been
39	observed between particular 'features' of clothing and components of character. Participants who
40	wear glasses were rated as less extraverted and less open to experience (Borkenau 1991;
41	Hellstorm & Tekle 2006) while the presence of tattoos are associated with lower levels of
42	conscientious and higher levels of extraversion (Swami 2012).
43	
44	This line of research also raises the question of how reliable these inferences are in terms of
45	predicting behaviour. The fact that these facets of appearance are chosen by the individual rather
46	than being biologically endowed may suggest a weaker link between appearance and behaviour,
47	but a growing body of research on the phenomenon of 'enclothed cognition', where changes in
48	clothing can also effect behaviour challenge this assumption. Adam & Galinsky (2012) recently

demonstrated that wearing a lab coat described as a "doctor's coat" increased sustained attention
when compared to wearing a lab coat that was labeled as a 'painter's coat'. They argue that
'enclothed cognition' depends on both the symbolic meaning and the physical experience of
wearing clothes. In addition, effects running in the opposite direction (from personality to
appearance) may be more plausible for non-biological factors. An aggressive person for instance
cannot chose to have a broader face, but he could choose to wear black clothes and make
themselves appear more aggressive (Vrij 1997). Here we focus on one particular clothing
accessory, the wristwatch. Watches are an interesting case because they are designed to perform
a very specific function – to tell the time. This specificity of function lends itself to
experimentation because it suggests very targeted predictions about personality and behaviour.
Despite the rise in mobile devices with built-in clocks, the number of standard watch owners has
remained static in recent years (Hoffman 2009; Mintel 2010). On the other hand, while many
people continue to regularly wear a wristwatch, many chose to avoid them completely. Their
prominence or absence in everyday life again makes them an ideal candidate when considering
external markers of personality.
While research concerning the relationship between personality and an individual's outward
appearance appears to be flourishing (e.g. Hellstrom & Tekle 2006; Gillath, Bahns, Ge &
Crandall 2012; Swami 2012), a number of limitations continue to affect this literature. First,
there remains an over-reliance on university student samples. These samples may not be
representative of the wider population (Swami 2012). Secondly, previous research often fails to
go beyond self-report (e.g. Gillath etl al 2012), with many papers failing to include an additional

72	behavioural measure that may help explain or confirm differences observed in personality scores
73	alone.
74	In order to overcome these limitations, and based on the premise that a core component of
75	Conscientiousness is good timekeeping, planning (Back, Schmukle & Egloff 2006), and
76	organisation (Lee & Ashton 2004), we predicted that watch wearers would score consistently
77	higher on a simple measure of conscientiousness in comparison to non-watch wearers.
78	Accordingly, timekeeping can be operationalised as punctuality and if watch wearers really are
79	more conscientious then they will, in turn, be more punctual in a real-life setting.
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81	2. Study 1
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02	
83	Ethics Statement
84	The University of Glasgow, College of Science & Engineering Ethics Committee approved all
85	research (2013-4641). Participants were informed about procedures in detail and provided
86	written informed consent.
87	
88	2.1. Method
89	2.1.1. Measures
90	We assessed personality using The Ten-Item Personality Inventory (TIPI). The TIPI was
91	developed by Gosling, Rentfrow and Swann (2003) to meet the need for a very brief measure of
92	the Big-Five personality dimensions (extraversion, agreeableness, conscientiousness, emotional
93	stability and openness to experience). This measure was chosen due to its short nature, which

94	allowed us to collect comparable data from both members of the public and students who had a
95	limited amount of time to take part.
96	2.1.2 Participants
97	One hundred and twelve participants were recruited and included members of the public
98	attending The British Science Festival in 2010 and students studying psychology at Glasgow or
99	Lincoln Universities in the United Kingdom (62.5% female) who were waiting to take part in
100	experiments. Their ages ranged from 17-54.
101	2.1.3 Procedure
102	Individuals approaching a psychology stand were asked if they wished to take part in a short
103	study related to personality. If written consent was obtained, participants were required to fill out
104	the TIPI. They were then asked whether or not they regularly wore a wristwatch. A regular watch
105	wearer was defined as someone who wore a standard wristwatch, most of the time, for at least a
106	year. Finally, all participants were thanked for their time and fully debriefed as to the true nature
107	of the study.
108	2.1.4. Results
109	As expected, participants who identified themselves as regular watch wearers rated themselves
110	as significantly more conscientious when compared with controls (Table I). We also observed
111	that watch wearers scored lower in extraversion, agreeableness and openness, but higher on
112	emotional stability. However, before conducting a further multivariate analysis, we next sought
113	to replicate this finding in a larger confirmatory sample.
114	Insert Table I about here
115	

116 117 3. Study 2 We attempted to replicate the results from Study 1 in a large online sample who, after 118 completing the TIPI were asked: 119 'Do vou regularly wear a watch?' 120 Participants were recruited via numerous email shots and twitter advertisements. They also 121 provided information about their age, gender, location, working habits and mobile phone 122 123 ownership. In total, 638 participants took part (48.6% female). Modal age bands were 35-54 (36.4%) and 18-24 (30.5%); modal locations UK (60.8%), North America (13%), Regarding 124 125 working habits, 49.7% confirmed that they worked a traditional Monday-Friday dayshift with the 126 remainder working alternative hours (e.g. shifts, unemployed or students). Finally, 46% percent (N=290) identified themselves as being regular watch wearers. 127 3.1 Preliminary Analysis 128 A primary analysis revealed no significant difference in the distribution of genders between the 129 130 watch and non-watch groups [X^2 (1, N=632) = 2.36, p = .124]. While 97.48% of our sample 131 owned a mobile phone, we also observed that there was no significant difference in this distribution of phone ownership between watch and non-watch wearers $[X^2(1, N=635) = .803, p]$ 132 133 = .370]. Finally, there was no significant difference in the distribution of those who worked 134 traditional or shift based work between watch and non-watch groups $[X^2 (1, N=637) = .680, p =$ 135 .410]. 3.2 Replication of Study 1 136

137	An independent sample t-test again revealed significant differences in mean conscientiousness
138	scores between watch and non-watch wearers (Table II). Further t-tests revealed no other
139	significant personality differences between watch and non-watch wearers across the other four
140	factors of personality $[p's > .05]$. As observed in Study 1 however, we again observed similar
141	trends whereby watch wearers scored lower in extraversion and openness in comparison to
142	controls.
143	
144	Insert Table II about here
145	
146	3.3 Regression Model
147	In order to confirm that the personality differences reported above hold after controlling for
148	additional factors, we entered age, gender and all five personality factors into a binary logistic
149	model. This model confirms that wearing a watch remains a visible indicator for
150	conscientiousness even after controlling for gender and age (Table III). In other words, the odds
151	of wearing a watch is significantly larger for a person who reports higher levels of
152	conscientiousness (odds ratio = 1.147).
153	
154	Insert Table III about here
155	
156	4. Multivariate analysis
157	Personality is a multidimensional construct and effect sizes should also be considered in relation
158	to the overall magnitude of differences observed between two groups. When groups differ along

several variables at once, the overall between-group difference is not always accurately represented by *univariate* effect sizes in isolation. Therefore, Del Giudice, Booth & Irwing (2012) have argued that in order to aggregate differences across variables while also taking correlation patterns into account, it is necessary to computer a *multivariate* effect size. The Mahalanobis distance *D* metric allows for these comparisons and is given by the formula:

$$D = \sqrt{d'S^{-1}d}$$

where \mathbf{d} is the vector of univariate standardised differences (Cohen's d) and \mathbf{S} is the correlation matrix.

We calculated the multivariate generalisation (D measure) of personality differences in both samples, factoring in changes between the groups across all five factors of personality. When evaluated in this way, personality differences observed in both samples are considerably larger than some of the Cohen's d effect sizes in isolation. The resulting multivariate effect sizes were calculated as D = .69 in the exploratory sample and D = .23 in the confirmatory sample. While significant differences were observed in levels of conscientiousness between the two groups, the overall differences in personality are not limited to a single personality factor. For example, in both samples watch wearers consistently produce lower extraversion and openness to experience scores.

5. Study 3

The previous results lend strong support to the notion that people who choose to wear a watch also tend to rate themselves as more conscientious. While organisation is often considered as a lower-order facet score in many personality measures (e.g. as part of the HEXACO Personality Inventory; Lee & Ashton 2004), higher levels of conscientiousness alone correlate with improved punctuality (Back et al 2006). Ashton (1998) also observed that conscientiousness was negatively associated with self-reported lateness in the workplace. Our final study therefore sought to investigate if punctuality is also related to watch wearing.

188 *5.1. Method*

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- 189 5.1.1 Participants
- Ninety participants (29% male) who arrived to complete a separate experiment in the School of
- 191 Psychology took part in this study. Their ages ranged from 17 to 48. All participants had
- 192 previously visited the department on at least one previous occasion. This ensured that
- 193 participant's were unlikely to become lost before an experiment was scheduled to start.
- 194 *5.1.2 Procedure*
- 195 Participants arriving at the School of Psychology for an unrelated experiment had their exact
- time of arrival recorded by the experimenter. Time of arrival was recorded as time-lag in minutes
- between the experiment appointment time and time of each participant's arrival. It was also
- 198 noted whether they were a regular watch wearer.
- 199 *5.1.3. Results*
- 200 Participants who exceeded an early or late arrival time of +- 15 minutes were removed from the
- 201 analysis (N=5) to ensure that data were normally distributed. On average, the remaining
- participants arrived 2.19 minutes before the appointed time (SD = 5.95). Mean punctuality scores

203	(minutes late or early) were calculated for watch and non-watch wearers. A total of 34 watch
204	wearers and 51 non-watch wearers arrival times were analysed (Fig I).
205	
206	Insert Figure I about here
207	
208	An independent sample t-test demonstrated a reliable difference in punctuality with participants
209	in the watch-wearing group arriving significantly earlier [$M = 4.12$, $SD = 5.45$] in comparison to
210	those who were not wearing a watch $[M = .90, SD = 5.96]$, $[t (83) = 2.52, p = .01; d = .55]$.
211	
212	6. General Discussion
213	Choosing to wear a watch appears to act as a social marker for an individual who is likely to be
214	more conscientious. A further replication across a larger sample supports this conclusion. We
215	also observed consistent multivariate differences in personality between the two groups with
216	watch wearers showing lower levels of extraversion and openness. Finally, watch wearers
217	behave in way that is consistent with higher levels of conscientiousness by arriving at ar
218	appointment earlier than non-watch wearers.
219	
220	While personality has previously been linked to time perception (e.g. Rammsayer 1997), this is
221	the first study to link personality with the absence or presence of an everyday time cue. Higher
222	levels of conscientiousness have previously been associated with increased levels of self-
223	organisation in a variety of contexts and watch wearing may be an additional purchase decision
224	that interacts with other related individual differences (Aaker 1997). Conscientiousness alone is

225	made up of many sub-facets of personality and one of these may play a more important role in
226	watch wearing than others (e.g. organisation, diligence and perfectionism; Lee & Ashton 2004).
227	
228	These results could also be considered in the context of enclothed cognition, that is, the influence
229	clothes or fashion accessories can have on a wearer's psychological processes. Adam & Galinsky
230	(2012) propose that changes in cognition depend on both the symbolic meaning and physical
231	experience of wearing different types of clothes, but this could also apply to wristwatches. As a
232	fashion accessory, or expression of social status the act of wearing a watch may provide an
233	additional, albeit implicit cognitive impact on wearers, which makes them more conscientious
234	and better planners. In terms of punctuality specifically, appointment type may be an important
235	factor to consider in future research, but these results are consistent with research demonstrating
236	that personality is likely to be important when considering punctuality in isolation (Back et al
237	2006). Even if conscientious individuals are delayed, they will be dutiful enough to try to limit
238	their lateness. In addition, our effect size relating to punctuality is far higher than previous
239	correlations observed between conscientiousness and punctuality in a comparable sample by
240	Back and colleagues (2006).
241	
242	The standard watch remains technologically simple, but this simplicity explains why countless
243	manufactures of smartwatches are attempting to capitalize on this specific form factor (Fogg
244	2009). Such devices typically measure and provide additional feedback related to physical and
245	physiological activity (e.g. heart rate). Interestingly, these devices are more likely to be
246	purchased by those who already lead a healthy lifestyle (Swan 2009). The desire to own or wear

247	a standard wristwatch may therefore be driven by higher levels of conscientiousness in the first
248	instance. Alternatively, the decision to purchase a watch may simply be motivated by a desire to
249	know the time, become more organised and in turn attempt to become more conscientious.
250	
251	Could the act of wearing a watch make an individual healthier or more conscientious? At
252	present, this line of enquiry only extends to more simplistic devices like pedometers, where
253	feedback correlates with an increase in physical activity, but not beyond the duration of the
254	original intervention (Bravata et al 2007). While watch wearing and smartwatch ownership
255	correlate with increased levels of conscientiousness and health promoting behaviours, the

direction of these relationships remains unclear, but worthy of further investigation. This is

particularly relevant given existing links between the accuracy of clocks and long-term health

outcomes (Levine & Bartlett 1984; Levine & Norenzayan 1999).

Another future direction for this research would be to explore the effect that watch wearing can have on first impressions and consider the relationship between self and others' perceptions of watch wearing. How such a time cue could influence other evaluative judgments by prompting attributions remains unclear. One might predict that the presence of a watch would serve to help

improve an individual's first impression in a specific social context for example, at a job

interview (Chapplin, Phillips, Brown, Clanton & Stein 2000; Dougherty, Turban & Callender

266 1994).

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One limitation which could be levelled at this study is that some participants may own a mobile phone, but not a standard watch, which may act as a confounder because they still have rapid access to the time. However, 100% of our exploratory sample and 97.48% in our second sample also owned a mobile phone so this is unlikely to have been an influencing factor. It is worth noting however, that the effect size relating to differences in conscientiousness reduced considerably between our exploratory and confirmatory samples. While the effect size is reduced in our larger sample, small effects could have larger aggregated consequences. For example, the short nature of the personality measure chosen suggests that a larger effect may be observed if a more in-depth measure of personality was deployed, but this may have limited our sample size. For now, we simply wanted to demonstrate that our exploratory findings could be replicated in a further independent sample using an identical measure of personality.

A second limitation concerns the reasons behind watch ownership. While an alternative explanation might conclude that choosing to wear a watch is related to social status and not a desire to know the time, this argument does not chime with the consistency of our results reported here. This is particularly pertinent when considered alongside our behavioural measure however, we cannot rule this additional explanation out completely.

In sum, wearing a device that tells the time on the wrist is likely to remain an important tool for the foreseeable future and to our knowledge this is the first study to demonstrate a link between watch wearing, personality and related behaviour (Anwar 2012). Specifically, watch wearers from a variety of backgrounds elicit significantly higher levels of conscientiousness and lower levels of extraversion and openness. They also arrive earlier for appointments. From the present

291	data, it is not clear whether being conscientious inclines a person to wear a watch, or whether
292	wearing a watch makes a person more conscientious. Whichever the direction of the relationship,
293	watch wearing is a valid external marker of both personality and associated behaviour.
294	
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298	
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Table 1(on next page)

Personality differences between watch and non-watch wearers in an exploratory sample

Note: * = p < .05. Standard Deviations appear in parenthesis alongside means.

2 Table I. Personality differences between watch and non-watch wearers in an exploratory sample

Exploratory Sample N=112

		W			
		yes	no		
	α	n=53	n=59	t	d
Extraversion	.48	4.53 (1.17)	4.69 (1.30)	.67	13
Agreeableness	.13	4.49 (1.32)	4.73 (.88)	1.13	22
Conscientiousness	.63	5.35 (1.54)	4.31 (1.24)	3.94*	.75
Emotional Stability	.45	4.65 (1.31)	4.57 (1.21)	.35	.07
Openness to Experiences	.39	5.18 (1.26)	5.46 (.98)	1.31	25

³ Note: * = p < .05. Standard Deviations appear in parenthesis alongside means.

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Table 2(on next page)

Personality differences between watch and non-watch wearers in a confirmatory sample

**The TIPI was intentionally designed to produce low coefficient alphas, which are themselves misleading when calculated on scales with a reduced number of items (Kline 2000; Wood & Hampson 2005). Our reported values compare favorably to the internal measures of consistency observed by Gosling et al (2003) during the scales initial development.

1 Table II. Personality differences between watch and non-watch wearers in a confirmatory sample

Confirmatory Sample N=638

		Watch			
		yes	no		
	α^{**}	n=290	n=348	t	d
Extraversion	.77	3.83 (1.57)	3.90 (1.60)	.55	04
Agreeableness	.36	4.71 (1.20)	4.64 (1.22)	.80	.06
Conscientiousness	.58	4.81 (1.39)	4.56 (1.37)	2.21*	.18
Emotional Stability	.66	4.53 (1.48)	4.57 (1.46)	.33	03
Openness to Experiences	.41	5.14 (1.15)	5.32 (1.15)	1.89	01

Notes. * = p<.05. Standard Deviations appear in parenthesis alongside means.

- 3 **The TIPI was intentionally designed to produce low coefficient alphas, which are themselves
- 4 misleading when calculated on scales with a reduced number of items (Kline 2000; Wood &
- 5 Hampson 2005). Our reported values compare favorably to the internal measures of consistency
- 6 observed by Gosling et al (2003) during the scales initial development.

Table 3(on next page)

Results from a binary logistic model [X^2 (9, $N=617^*$) = 20.51, p =.015]. This controls for a number of other variables that may also predict watch wearing.

Notes: *N=617 (22 participants from the original sample did not confirm their age and/or gender). **Significant p-values are highlighted in bold.

- Table III. Results from a binary logistic model [X^2 (9, N=617*) = 20.51, p =.015]. This controls
- 2 for a number of other variables that may also predict watch wearing.

Variables	β	S.E.	Wald	Sig**	Exp (β)
Gender	.243	.182	1.781	.182	1.276
Age					
18-24			9.254	.026	
25-34	348	.221	2.479	.115	.706
35-49	.184	.204	.818	.366	1.203
55+	.617	.409	2.269	.132	1.853
Personality					
Extraversion	.000	.056	.000	.999	1.000
Agreeableness	.022	.072	.093	.760	1.022
Conscientiousness	.137	.062	4.837	.028	1.147
Emotional Stability	.004	.062	.005	.944	1.004
Openness to Experiences	113	.076	2.210	.137	.893

3 4 5

Notes:

6 *N=617 (22 participants from the original sample did not confirm their age and/or gender).

**Significant p-values are highlighted in bold.

8

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Differences in arrival times between watch and non-watch wearers.

