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The role of ideal self-congruence and brand attachment in consumers' negative behaviour:

Compulsive buying and external trash-talking

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Abstract

Purpose – The purpose of this study is to investigate the role of ideal self-congruence in instigating two types of negative consumer behaviours - compulsive buying and external trashtalking - and the mediating role of brand attachment on these relationships.

Design/methodology/approach – Two studies were designed using a structural equation modelling methodology. Study 1a was based on a mail survey of 280 respondents, whereas Study 1b was based on an electronic survey of 152 respondents. Study 1b was conducted to test the external validity of the research model.

Findings – In Study 1a, ideal self-congruence affects emotional brand attachment and in turn emotional brand attachment affects compulsive buying behaviour and external trash-talking. The mediation analysis indicates that emotional brand attachment mediates the relationships. Study 1b offers support to the results of Study 1a.

Practical implications – From a practical point of view, this study is useful for policy makers seeking to regulate and prevent excessive consumerism. For marketers, they should understand that brand attachment leads to compulsive buying and external trash-talking, which may provide immediate benefit for the brand or the firm. However, marketers should understand that these two negative behaviours may harm the firm image and consumers' well-being in the long run. **Social implications** – Apart from practical implications, firms should consider alleviating compulsive buying as it is harmful to society. Similarly, excessive external trash-talking may lead to physical aggression. Consumers expect firms to be socially responsible. Thus, firms should start conducting activities that promote responsible shopping and reduce external trashtalking.

Originality/value – The study highlights a dark side of ideal self-congruence and brand attachment. The results suggest that ideal self-congruence with the help of emotional brand attachment predicts compulsive buying behaviour and external trash-talking. This may not only damage brand image but also the consumers' well-being.

Keywords: Negative behaviour, external trash-talking, compulsive buying, brand attachment, ideal self-congruence

Paper type: Research paper

1. Introduction

The self-concept theory posits that individuals have two different types of self, namely the actualself and ideal-self (Malär *et al.*, 2011; Escalas & Bettman, 2003). Actual-self refers to the individual's perceived reality of oneself, whereas ideal-self refers to the individual's aspirations of ideals and goals to be achieved in the future. Self-congruence refers to perceived personality fit between the consumer and the brand (Aaker, 1999). When the brand's image is congruent with the consumer's self-image, consumers are likely to establish strong emotional attachment and loyalty with the brand (Malär *et al.*, 2011; Thomson *et al.*, 2005; Park *et al.*, 2010).

Many studies in the marketing literature focus on investigating the effects of selfcongruence on favourable consumer behaviours such as consumer satisfaction, brand love, favourable attitudes, Word-of-Mouth (WOM) and consumer loyalty (e.g. Ekinci & Riley, 2003; Kressman *et al.*, 2006; Ekinci *et al.*, 2008; Nam *et al.*, 2011; Wallace *et al.*, 2017). A comprehensive review of the self-concept literature concludes that only the positive consumer behaviours are investigated as the consequences of self-congruence (e.g. Hosany and Martin, 2012). Although a few studies have begun to examine the relationship between self-concept, brand attachment and negative behaviours, they are limited. Brand attachment is defined as emotional bonding between a consumer and a brand. Brand attachment may trigger some negative consumer behaviour. For example Japutra *et al.* (2014) find that stronger brand attachment leads to a wide range of unwanted consequences including trash-talking, Schadenfreude and anti-brand actions. Johnson *et al.* (2011) state that when a brand becomes more self-relevant and the relationship with the brand ends, it is very likely that consumers could induce retaliatory behaviours such as brand

hatred. Despite highlighting the dark side of brand attachment with regards to its negative behavioural consequences, these propositions have yet to be empirically tested.

This study addresses three research questions. First, does self-congruence lead to negative behaviours, namely compulsive buying and external trash-talking? Second, does brand attachment influence compulsive buying and external trash-talking? Third, does brand attachment mediate the link between self-congruence, compulsive buying and trash-talking? Compulsive buying refers to a condition where individuals lose control and have irresistible impulse to buy excessively from the brand (Dittmar, 2005). When consumers purchase the brand compulsively it may seem to be an advantage to the brand, but this is not often beneficial for all members of the society. Compulsive buying can lead to a higher debt level, economic crisis and threaten the consumers' well-being (Gardarsdottir & Dittmar, 2012; Schneider & Kirchgasnner,

2009). Simons (2003) defines trash-talking as the action of offending one's competitor verbally. When the consumers have high propensity to conduct trash-talking, the brands could suffer as trash-talking can lead to physical aggression. When their consumers are stamped as troublemakers, the brand reputation could be damaged (Simons, 2003; Japutra *et al.*, 2014). For example Colliander and Hauge-Wien (2013) show that trash-talking may backfire when a consumer defends her/his favourite brand aggressively through trash-talking.

The contribution of this study is three-fold. First, differing from extant research that predominantly examines the relationships between self-congruence and positive consequences (i.e consumer loyalty), the study investigates the effect of self-congruence on compulsive buying and external trash-talking. This is important because previous researchers regard compulsive buying

and trash-talking as a viable concern due to their increasing predominance and negative consequences. To the best of our knowledge, empirical evidence is yet to be provided on whether higher self-self congruence can influence negative behaviours (e.g. Horvath & Birgelen, 2015; Dittmar, 2005). Several studies in the realm of psychology suggest that individuals who aspire to move closer from their actual-self to ideal-self tend to conduct compulsive buying (e.g. Dittmar, 2005; Li *et al.*, 2011). Trash-talking is different from negative WOM since it is the act of insulting rival brands (Hickman & Ward, 2007). Several researchers argue that trash-talking is a form of oppositional brand loyalty (Marticotte *et al.*, 2016; Japutra *et al.*, 2014). Higher congruity between the self-concept and the brand image leads to higher level of loyalty (Wallace *et al.*, 2017). We argue that such form of actions result in higher tendency to conduct trashtalking.

Second, this study investigates the effect of brand attachment on compulsive buying and trash talking. When consumers have strong attachment with brands they are likely to engage with compulsive buying through excessive purchasing and impulse buying. Compulsive buying and trash-talking are detrimental for the consumer's well-being and the brand image. Hence, this study enhances our understanding of whether self-congruence and brand attachment influence any form of negative consumer behaviour such as compulsive buying and trash-talking. Third, this study investigates the mediating effect of brand attachment on the relationship between selfcongruence and negative consumer behaviours. Previous studies assume a direct relationship between selfcongruence and favourable consumer behaviour due to stimulating positive emotions and self-consistency (e.g. Usakli & Baloglu, 2011; Kressman *et al.*, 2006; Ekinci &

Riley, 2003; Sirgy, 1982). Hence, most of the studies suggest that the effects of self-congruence on consumer behaviours are direct (e.g. Wallace *et al.*, 2017; Ahn *et al.*, 2013). However, recent

studies argue that the effect of self-congruence on consumer behaviour is indirect (e.g. Ekinci *et al.*, 2008; Nam *et al.*, 2011; Roy & Rabbanee, 2015). In order to address this research gap, this study examines whether ideal self-congruence is capable of affecting consumer's negative behaviours directly or indirectly through the mediation of the consumer's brand attachment.

Using the self-concept and brand attachment theory, the highlight of this study is in explaining how a consumer conducts compulsive buying and external trash-talking. This study reveals that ideal self-congruence fosters compulsive buying through the mediation of strong emotional bonding between consumers and brands. Furthermore, the findings of this study demonstrate that having high self-congruence and strong brand attachment increases consumers' propensity to exhibit trash-talking. The study offers research and managerial implications for academics, policy makers and marketing practitioners.

2. Research Hypotheses

2.1 Self-congruence and emotional brand attachment

The central assumption of the self-congruence theory is that consumers purchase brands to express their self-concept, whether it is actual or ideal (Ekinci *et al.*, 2013; Aaker, 1999). In purchasing brands to achieve their ideal-self, consumers are guided by their self-enhancement motives to increase their self-esteem (Escalas & Bettman, 2003). For instance, individuals whose actual self-self is monotone or calm would like to be more adventurous may purchase a Jeep Wrangler to reflect being adventurous.

In his seminal work, Sirgy (1982) define self-congruence as the degree of fit between a consumer's own self-image and the brand image. He states that actual and ideal self-congruence predict consumers' purchasing behaviour. However, results from previous studies suggest that actual and ideal self-congruence are highly correlated (Kressmann *et al.*, 2006). Generally speaking, ideal self-congruence is found to be a better predictor of brand purchasing behaviour than actual-self congruence. For instance, Graeff (1996) argues that ideal self-congruence is more relevant to publicly consumed products such as brands. Subsequently, Ekinci & Riley (2003) show that ideal self-congruence strongly correlates with consumer attitude towards products, satisfaction and service quality. Hosany and Martin (2012) find ideal self-congruence to be the better predictor of favourable consumer behaviour than actual self-congruence. Thus, this study examines the role of ideal self-congruence in investigating the relationship between brand attachment, compulsive buying and trash-talking.

Brand attachment is defined as the emotional bond between a consumer and a brand (Malär *et al.*, 2011). Brand attachment encompasses three dimensions: affection, passion and connection (Thomson *et al.*, 2005). We propose that ideal self-congruence is positively associated with brand attachment. Consumers who purchase brands that are highly congruent with their ideal self-concept tend to establish emotional connection with the brand (Malär *et al.*, 2011). When brands help consumers in achieving their aspirations of who they would like to be

(i.e. ideal self), the brands cater for the motivation of self-enhancement (Escalas & Bettman, 2003). When brands are able to give them the aspirations of future goals, they perceive the brands to be congruent with their ideal-self. As a result, the emotional connections between consumers and the brands become stronger. This occurs because consumers feel that the brands have fulfilled their need to enrich the self (Park *et al.*, 2013). Thus, the study proposes this hypothesis:

H1a. Ideal self-congruence positively affects brand attachment

2.2 Self-Congruence, compulsive behaviour and external trash-talking

Research on compulsive and impulsive consumers started in the 1980s. Impulsive buying is defined as spontaneous, unreflective, immediate and kinetic purchase that constitutes rapid decision-making and subjectivity for quick possession (Rook & Fisher, 1995; Kacen & Lee, 2002). Faber and O'Guinn (1989) state that compulsive consumers are those individuals who have the urge to buy products impulsively in order to escape from something, which they are unable to control. Although the literature suggests that compulsive and impulsive buying are two distinct concepts, they are proximate (c.f. Flight *et al.*, 2012; Ridgway *et al.*, 2008). Impulsive buying, which includes buying urge and unplanned buying of products, is considered one of spending tendencies of compulsive buying (Desarbo and Edwards, 1996; Palan *et al.*, 2011;

Faber & O'Guinn, 1989).

In this study, compulsive buying refers to consumers' inclination to buy the brands impulsively and/or excessively. According to Desarbo and Edwards (1996), the motive for impulse buying comes from an external trigger – the product itself on the shelf, whereas the motive for compulsive buying comes from an internal trigger – anxiety and/or trying to find an escape. It is suggested that willingness to close the discrepancy gap between actual and ideal-self may influence impulsive buying (c.f. Verplanken & Sato, 2011). Dittmar (2005) finds that idealself buying

motivation mediates the relationship between materialistic values and compulsive buying tendency. She argues that individuals who highly regard material possessions to enhance their ideal-self have higher prevalence to conduct compulsive buying. This study suggests that not only material possessions, but also brands are able to discern the prevalence of compulsive buying.

Higher congruence between brand image and ideal self-concept creates a state of excitement. Consumers feel excited because the brands help them in achieving their ideal selfconcept. Desarbo and Edwards (1996) note that higher level of excitement and impulsiveness leads to compulsive buying. Dittmar (2005) proposes that the motivation of materialism connected with the consumer's ideal self-concept predicts compulsive buying. Furthermore, Roberts *et al.* (2014) show that contingent self-esteem affects compulsive buying. Ideal-self is a reflection of self-enhancement motivation and self-esteem (Malär *et al.*, 2011). Likewise, Zhang *et al.* (2014) show that greater neighbourhood social economic status increases material desires, which predicts more frequent impulsive buying. Therefore, compulsive buyers purchase products to achieve their ideal-self to express their ideal personality and improve their social image (Kukar-Kinney *et al.*, 2012). They are predisposed to conduct compulsive buying because they would like to increase their self-esteem (Desarbo & Edwards, 1996). A higher level of ideal selfcongruence may increase the tendency to conduct compulsive buying. Thus, the present study proposes this hypothesis:

H1b. Ideal self-congruence positively affects compulsive buying

We propose that ideal self-congruence is associated with trash-talking. The phenomenon of trashtalking is similar but different to negative WOM (Japutra *et al.*, 2014; Hickman & Ward, 2007). Trash-talking refers to the action of offending rival brands verbally (Simons, 2003). It is a form of negative communications about rival brands initiated by members of brand groups as a result of the desire to positively differentiate their preferred brands from other brands (Japutra *et al.*, 2014; Hickman & Ward, 2007). Trash-talking can be divided into internal and external trashtalking (Hickman & Ward, 2007). External trash-talking occurs within group members when a consumer talk negatively about rival brands outside his/her group, whereas internal trash-talking occurs within his/her group. This study examines external trash-talking which can have more delirious impact on the brand image than internal trash-talking.

Research on trash-talking usually came from the world of sport (e.g. Simons, 2003; Rainey & Granito, 2010). However, these days, it is easy to find pertinent research outside the world of sport as consumers engage with trash talking about rival brands. Rainey and Granito (2010) show that one of the reasons for trash-talk is the role models (i.e. teammates). They note that young athletes mimic their role models to express their ideal self-concept. A state of excitement is created when there is high congruence between brand image and ideal self-concept. Excitement occurs because consumers feel that the brand helps them in achieving their ideal-self, which may lead the consumers to commit to the brand. When consumers exhibit higher level of attachment to a particular brand, trash-talking is more likely to occur (Hickman & Ward 2007).

Thus, we posit this hypothesis:

H1c. Ideal self-congruence positively affects external trash-talking

2.3 Brand attachment and compulsive buying

We propose that having strong attachment with brands influences compulsive buying. Horvath and Birgelen (2015) find initial evidence that three compulsive buyers display emotional connection with the brand. When exhibiting compulsive buying, consumers do not seem to have clear conscious and control of what they are buying. Doron *et al.* (2009) find that consumer attachment are related to obsessive-compulsive disorder symptoms. People who are emotionally attached to brands are willing to use their personal resources (e.g. money or time) for purchasing the brand (Park *et al.*, 2010). Kessous *et al.* (2015) note that consumer attachment and nostalgic status of the brand increase the tendency to collect the brand artefacts. Consumers seem to go back to the particular past events that they were cherished through brand purchasing. If brands are able to facilitate these kinds of experiences, consumers are strongly attached to those brands. Compulsive buyers purchase brands due to their emotional attachment with the brand (Kyrios *et al.*, 2004). Thus, this study proposes this hypothesis:

H2. Brand attachment positively affects compulsive buying

2.4 Brand attachment and external trash-talking

Japutra *et al.* (2014) suggest that consumer attachment is a necessary condition for trash-talking. The link between brand attachment and trash-talking is being driven by consumers' sense of social identity motivated by self-categorisation, affective commitment and group-based selfesteem (Bergami & Bagozzi, 2000). Muniz and Hamer (2001) argue that consumers exhibit trash-talking because they defend their social identity. If someone insults the brand, consumers consider this as an insult to their social identity (Colliander & Hauge-Wien, 2013). Thus, these consumers tend to positively discriminate their brands in comparison to rival brands (Hickman & Ward 2007). Also consumers conduct trash-talking because they are active member of the brand community (Hickman & Ward, 2007). When someone downplays the brand, they feel it as a personal insult to their community (Muniz & Hamer, 2001). Automatically they retaliate by downplaying the other brand. Thus, the present study proposes this hypothesis:

H3. Brand attachment positively affects external trash-talking

The conceptual framework and the research hypotheses are illustrated in Figure 1.

Insert Figure 1 Here

As can be seen from Figure 1, ideal self-congruence is positively associated with emotional brand attachment (H1a). In turn, emotional brand attachment is positively related to consumers' tendency to conduct compulsive buying (H2) and external trash-talking (H3). H1b and H1c account for the partial mediation effect of emotional brand attachment on the relationship between ideal self-congruence, compulsive buying and external trash-talking. Hence, it is proposed that ideal self-congruence is positively associated with compulsive buying and external trash-talking.

3. The Studies

Study 1a and Study 1b have been undertaken to explore these propositions. Study 1a was based on a mail survey of 280 respondents within the UK. Using the Structural Equation Modelling (SEM) approach, the research hypotheses were tested. Study 1b was conducted to assess the external and predictive validity of the research model. The data were based on an electronic survey of 152 respondents.

Altogether, from the 432 respondents, 62% were female, 36% were single and 48% were married. In terms of age-group, 21% were in the 16-24 age-group, 16% were in the 25-34 agegroup, 19% were in the 35-44 age group, 18% were in the 45-54 age-group, 14% were in the 5564 age group and the rest was in the 65 and above age-group. Regarding their income, 21% were in the $\pm 20,000 \pm 29,999,17\%$ were in the $\pm 10,000 \pm 19,999$ and 16% were in the $\pm 40,000 \pm 59,999$ income bracket. According to the 2011 Census in the UK (ONS, 2013b), females accounted for 51% of the total population, 47% were married and 35% were single, whereas the mean age was 39.4 (age 16-29: 19% and age 30-64: 46%). In 2011/2012, the median household income was $\pm 23,200$ (ONS, 2013a). Based on these, it could be concluded that the respondents of this study were good representation of the research population, who are consumers within the UK.

4. Study 1a

4.1 Measures

For the data collection, a questionnaire was developed for this study. The questions were derived from existing measurements based on a review of previous published studies. Twelve general public respondents (UK consumers) were involved in pilot testing the questionnaire.

Ideal self-congruence was assessed using three items adapted from Malär *et al.* (2011) and Sirgy *et al.* (1997). Based on previous studies, self-congruence was measured using a directscore formula. Initially, the respondents were asked to read a scenario paragraph (e.g. Nam *et al.*, 2011; Ekinci *et al.*, 2008):

"Take a moment to think about your favourite brand. Think about the kind of person who typically uses this brand. Imagine this person in your mind and then describe this person using one or more personal adjectives such as, stylish, classy, masculine, sexy, old, athletic, or whatever personal adjectives you can use to describe the typical user of this brand."

After reading the scenario type introduction, respondents were asked to assess ideal selfcongruence on a 7-point scale, anchored by (1) = strongly disagree and (7) = strongly agree. An example of the items for ideal self-congruence is: "This brand is a mirror image of the person I would like to be". Emotional brand attachment was assessed using nine statements (reflecting affection, passion and connection) adapted from Thomson *et al.* (2005) and rated on a 7-point scale anchored by (1) = describes poorly and (7) = describes very well. The respondents were asked to rate these statements after reading the following instruction: "My feelings toward this brand can be characterised by". Compulsive buying was assessed using five statements adapted from Ridgway *et al.* (2008) and rated on a 7-point scale anchored by (1) = not very likely and (7) = very likely. An example of the items for compulsive buying is: "I buy things from this brand that I don't need". External trash-talking was assessed using three items adapted from Hickman and Ward (2007) rated on a 7-point scale anchored by (1) = not very likely and (7) = very likely.

An example of the items for external trash-talking is: "I talk about how negative I feel about competing brands to other people". The details of the measurements can be seen in Appendix A.

4.2 Sample and procedure

The mail survey containing the questionnaire and a return pre-paid envelope was distributed in different housing locations in the Southeast of UK, owing to its demographically diverse residential mix (Ahn *et al.*, 2013). In total, 284 questionnaires were returned. After checking for incomplete responses, 280 questionnaires were deemed usable for the analysis.

Of these, 61.1% of the participants were women. For the participants' occupation, 28.9% were professionals, 15.4% were retired, 13.9% were students, 10.7% were either directors or senior officials and 8.2% were associates or technical workers. In terms of age group, 13.9% of the participants were in the 16-24, 17.1% of the participants were in the 25-34, 19.6% of the participants were in the 35-44, 15.0% of the participants were in the 45-54, 15.7% of the participants were in the 55-64, and the rest were 65 or above. 34.3% of the participants reported to have obtained undergraduate degrees. Participants reported their income, which ranged from less than £10,000 to more than £100,000, with many of them obtaining £20,000 to £29,999 (18.9%) and less than £10,000 (17.9\%).

4.3 Data analysis and hypotheses testing

The study adopted Structural Equation Modelling approach (SEM) to test the research model and research hypotheses by using AMOS 18 software. Before conducting the analysis, the normality of the data was checked through the skewness and kurtosis tests. Based on the results, the absolute values of the skewness and kurtosis of each item were around -1 and +1, indicating that univariate normality was achieved.

Following Anderson and Gerbing (1988), a measurement model was constructed to assess the validity and reliability of the measures. The fit statistics of the measurement model was satisfactory (Malhotra, 2010): $X^{2}_{(160)} = 309.59$, $X^{2}/df = 1.94$, GFI = .90, AGFI = .87, NFI = .91, TLI = .95, CFI = .96, RMSEA = .06 and SRMR = .05). Appendix A provides a complete list of the measures. The composite reliability exceeds the threshold value of .60 (Bagozzi & Yi, 1988) and Cronbach's alpha exceeds the threshold value of .60 (Malhotra, 2010), indicating satisfactory reliability (see Appendix A). All the factor loadings and average variance extracted (AVE) are above .50 indicating convergent validity is achieved (Fornell & Larcker, 1981). Table 1 provides the correlation scores for the four constructs.

Insert Table 1 Here

Fornell and Larcker (1981) suggest comparing the AVE with the squared inter-construct correlation (SIC) to assess discriminant validity. The criterion for discriminant validity is when the AVE score is greater than the SIC score. Based on the results shown in Table 1, discriminant validity is achieved. Before testing the research hypotheses, common-method variance was checked. This is because in a study such as this, where data on both the antecedents and consequences are collected using similar types of response scales (e.g. Likert scales) from the same respondent, common-method variance may pose a problem (Du *et al.*, 2007). Based on previous research (Du *et al.*, 2007; Podsakoff *et al.*, 2003), common-method variance was checked using Harman's single-factor test, which suggests that common-method variance poses a problem if (1) a single unrotated factor solution appears from the EFA test, or (2) one general factor accounts for the majority of the covariance among the measures. The unrotated factor solution revealed 4 factors

with Eigen values greater than 1. The result accounts for 67.93% of the total variance, where the first factor accounts for 32.71% of the total variance. This suggests that common-method variance does not pose a significant problem, since there was no general factor in the unrotated structure (Du *et al.*, 2007).

Next, the structural model was created. The fit statistics of the structural model ($X^{2}_{(161)}$ = 337.31, X^{2}/df = 2.10, GFI = .89, AGFI = .86, NFI = .91, TLI = .94, CFI = .95, RMSEA = .06 and SRMR = .05) produced good fit. The results of the hypotheses testing are shown in Table 2.

Insert Table 2 Here

The results support H1a (SPC = 0.47, p < 0.001). Hence, ideal self-congruence is positively associated with emotional brand attachment. H1b posits that ideal self-congruence positively affects compulsive buying and H1c states that ideal self-congruence positively affects external trash-talking. The results do not support these hypotheses (H1b, SPC = 0.04, p > 0.05 and H1c, SPC = -0.01, p > 0.05). It is proposed in H2 that emotional brand attachment positively affects compulsive buying. This hypothesis is also supported by the results as shown in Table 2 (SPC = 0.28, p < 0.001). Hence the greater the emotional attachment with a particular brand, the more likely consumers to undertake compulsive buying. The results also support H3, which states that emotional brand attachment positively associated with external trash-talking (SPC = 0.28, p < 0.001). Stronger emotional brand attachment leads to higher propensity to conduct external trash-talking.

Since the results do not support H1b and H1c, we conducted a mediation analysis. To test the mediation analysis, we performed a bootstrapping method via Preacher-Hayes INDIRECT script (Preacher & Hayes, 2008; Zhao *et al.*, 2010). The score for each construct was aggregated and bootstrapping procedures (5000 samples) were conducted. The other dependent variable was put as covariate. The direct effect of ideal self-congruence on emotional brand attachment (β = 0.34, SE = 0.04, t = 7.79, p < 0.001) as well as the direct effect of emotional brand attachment on compulsive buying (β = 0.17, SE = 0.08, t = 2.20, p < 0.05) are significant. A confidence interval (CI) that excludes zero for the indirect effect reveals support that emotional brand attachment mediates the relationships of ideal self-congruence on compulsive buying (a x b = 5.90%, SE = 0.03, 95% CI [0.01, 0.13]). Since the direct effect of ideal self-congruence on compulsive buying is not significant (β = 0.08, SE = 0.06, t = 1.25, p > 0.05), the mediation is indirect-only mediation (Zhao *et al.*, 2010).

The direct effect of ideal self-congruence on emotional brand attachment ($\beta = 0.34$, SE = 0.04, t = 7.56, p < 0.001) as well as the direct effect of emotional brand attachment on external trash-talking ($\beta = 0.22$, SE = 0.09, t = 2.56, p < 0.05) is significant. A confidence interval (CI) that excludes zero for the indirect effect reveals support that emotional brand attachment mediates the relationships of ideal self-congruence on external trash-talking (a x b = 7.41%, SE = 0.03, 95% CI [0.02, 0.15]). Since the direct effect of ideal self-congruence on external trash-talking is not significant (β = -0.00, SE = 0.07, t = -0.04, p > 0.05), the mediation is indirect-only mediation (Zhao *et al.*, 2010).

5. Study 1b

The objective of Study 1b is to assess external and predictive validity of the model. Woodside (2013) advocates the need to test for predictive validity and not just fit validity. One way of testing the external and predictive validity is using additional samples of cases (Woodside, 2015). Hence, we replicated Study 1a with additional samples.

5.1 Measures, sample and procedure

The measures for ideal self-congruence, emotional brand attachment, compulsive buying, and external trash-talking were identical to Study 1a. An online questionnaire was developed using SurveyMonkey and distributed through several different media and fora (e.g. dailymail.co.uk) in the UK. An email invitation containing the link to the electronic survey was posted on these media and fora. After checking for incomplete answers, 152 questionnaires were deemed usable for analysis.

Of these, 61.2% of the participants were women. For the participants' occupation, 40.1 % were students, 21.7% were professionals, 11.8% were either directors or senior officials and 8.6% were administrative or secretarial workers. In terms of age group, 33.6% of the participants were in the 16-24, 14.5% of the participants were in the 25-34, 17.1% of the participants were in the 35-44, 23.0% of the participants were in the 45-54, 9.9% of the participants were in the 5564, and the rest were 65 or above. 26.3% of the participants reported to have obtained undergraduate degrees. Participants reported their income, which ranged from less than £10,000 (34.2%).

5.2 Data analysis and hypotheses testing

The fit statistics of the measurement model was satisfactory (Malhotra, 2010): $X^{2}_{(160)} = 284.52$, $X^{2}/df = 1.78$, GFI = .85, AGFI = .80, NFI = .86, TLI = .92, CFI = .93, RMSEA = .07 and SRMR = .06). The composite reliability and Cronbach's alpha values of each construct are between .75 and .93, indicating satisfactory reliability. All the factor loadings and average variance extracted (AVE) scores are between .58 and .83. These findings indicate that convergent validity is achieved. The AVE scores are greater than the SIC scores, indicating discriminant validity is achieved. The correlations between constructs range from .07 to .55, which are similar to Study 1a.

Next, the structural model was created. The fit statistics of the structural model ($X^{2}_{(161)}$ = 292.63, X^{2}/df = 1.82, GFI = .85, AGFI = .80, NFI = .86, TLI = .92, CFI = .93, RMSEA = .07 and SRMR = .08) produced a good fit. The results of the hypotheses testing are shown in Table 3.

Insert Table 3 Here

The results in Study 1b provide support for Study 1a. Hence, ideal self-congruence (H1a) positively affects emotional brand attachment (SPC = 0.55, p < 0.001). Emotional brand attachment positively affects compulsive buying (H2: SPC = 0.43, p < 0.001) and external trashtalking (H3: SPC = 0.33, p < 0.01). Similar to Study 1a, the effects of ideal self-congruence on compulsive buying behaviour (H1b: SPC = -0.06, p > 0.05) and external trash-talking (H1c: SPC = -0.12, p > 0.05) are not statistically significant.

To test the mediation analysis, we performed a bootstrapping method via Preacher-Hayes INDIRECT script (Preacher & Hayes, 2008; Zhao *et al.*, 2010). The score for each construct was aggregated and bootstrapping procedures (5000 samples) were conducted. To test whether emotional brand attachment mediates the link between ideal self-congruence and compulsive buying, external trash-talking was included as covariate. The direct effect of ideal selfcongruence on emotional brand attachment ($\beta = 0.40$, SE = 0.06, t = 6.81, p < 0.001) as well as the direct effect of emotional brand attachment on compulsive buying ($\beta = 0.27$, SE = 0.11, t = 2.46, p < 0.05) are statistically significant. A confidence interval (CI) that excludes zero for the indirect effect reveals support that emotional brand attachment mediates the relationships of ideal self-congruence on compulsive buying (a x b = 10.86%, SE = 0.04, 95% CI [0.03, 0.20]). Since the direct effect of ideal self-congruence on compulsive buying is not significant ($\beta = 0.03$, SE = 0.05), the mediation is indirect-only mediation (Zhao *et al.*, 2010).

The bootstrapping method was performed to further test whether emotional brand attachment mediates the link between ideal self-congruence and external trash-talking. Compulsive buying was included as covariate. The direct effect of ideal self-congruence on brand attachment ($\beta = 0.38$, SE = 0.06, t = 6.54, p < 0.001) as well as the direct effect of emotional brand attachment on external trash-talking ($\beta = 0.22$, SE = 0.12, t = 1.80, p < 0.05) are statistically significant. A confidence interval (CI) that includes zero for the indirect effect reveals support that emotional brand attachment does not mediate the relationships of ideal selfcongruence on external trash-talking (a x b = 8.33%, SE = 0.05, 95% CI [-0.01, 0.19]). However, the confidence interval is close to zero and the direct effect of ideal self-congruence on external trash-talking is not significant (β

= -0.04, SE = 0.10, t = -0.44, p > 0.05). One explanation is the small sample size. Thus, we could still infer that emotional brand attachment mediates the relationship.

6. Post Hoc Analysis

To test the robustness of the results, we conducted further tests. First, we pooled the data from Study 1a and Study 1b. Thus, there were 432 respondents. Second, we formed ideal selfcongruence into high and low group, based on the mean score. For respondents that score above the mean score, they were categorised into high ideal self-congruence group, whereas the rest were categorised into low ideal self-congruence group. Third, we tested the direct effects of ideal self-congruence on compulsive buying and external trash-talking using ANOVA (bootstrap 5000 samples). The results of the ANOVA analysis show that ideal self-congruence has a significant main effect on compulsive buying ($M_{isc high} = 2.66 \text{ vs. } M_{isc low} = 2.27, \text{ F} = 7.41, \text{ p} < 0.01$), whereas it does not have a significant main effect on external trash-talking ($M_{isc high} = 3.11 \text{ vs. } M_{isc low} = 2.81, \text{ F} = 3.62, \text{ p} > 0.05$). Based on these results, we continued to analyse the mediation effect of emotional brand attachment.

To test the mediation effect of emotional brand attachment, we conducted a mediation analysis using bootstrapping method via PROCESS model 4 (Hayes & Preacher, 2014). The independent variable was the categorised ideal self-congruence, the mediator was emotional brand attachment, the outcome variable was compulsive buying, and external trash-talking was put as the covariate. The results show that there is no direct effect of ideal self-congruence on compulsive buying ($\beta = 0.12$, SE = 0.14, t = 0.82, p > 0.05). However, there is indirect effect of ideal selfcongruence on compulsive buying since the confidence interval excludes zero (β = 0.19, SE = 0.06, 95% CI [0.09, 0.32]). The results provide support that emotional brand attachment mediates the relationship between ideal self-congruence and compulsive buying behaviour.

Next, we test the mediation of emotional brand attachment for external trash-talking. The independent variable was categorised ideal self-congruence, with the mediator as emotional brand attachment, the outcome variable was external trash-talking, and compulsive buying was put as the covariate. The results show that there is no direct effect of ideal self-congruence on external trash-talking ($\beta = -0.01$, SE = 0.16, t = -0.04, p > 0.05). However, there is indirect effect of ideal self-congruence on external trash-talking since the confidence interval excludes zero ($\beta = 0.17$, SE = 0.06, 95% CI [0.06, 0.31]). The results provide support that emotional brand attachment mediates the relationship between ideal self-congruence and external trash-talking.

7. Discussion

7.1 Theoretical contribution

Extant research suggests that self-congruence and brand attachment influence favourable consumer behaviours that are advantageous for the brand (e.g. Wallace *et al.*, 2017; Japutra *et al.*, 2016; Park *et al.*, 2013). Interestingly, our study findings provide evidence that this is not always the case. Hence, this study enlightens the literature by suggesting that having high selfcongruence and strong brand attachment is likely to increase compulsive buying and external trash-talking.

This study contributes to the body of literature dealing with the outcomes of ideal selfcongruence and brand attachment in a number of ways. Previously the literature on

selfcongruence notes that self-congruence affects positive behaviours (see Hosany & Martin, 2012). However, our results suggest that ideal self-congruence is capable of affecting compulsive buying and external trash-talking through emotional brand attachment which are potentially harmful for the long-term prosperity of the brand and consumer well-being (Horvath & Birgelen, 2015; Japutra *et al.*, 2014; Gardarsdottir & Dittmar, 2012; Schneider & Kirchgasnner, 2009). Dittmar (2005) argues that the motivation of materialism to achieve an ideal-self is the predictor of compulsive buying. Our study extends this literature by showing that when the brand's image is in line with the consumer's ideal self-concept, the tendency to conduct compulsive buying increases.

Our work shows that ideal self-congruence does not directly affect compulsive buying, but indirectly affects compulsive buying through emotional brand attachment. Thus, this study contributes to explaining how the mechanism of ideal self-congruence operates on predicting compulsive buying. Meanwhile, the findings of this study contribute to the growing literature on the dark side of brand attachment (Japutra *et al.*, 2014; Johnson *et al.*, 2012; Johnson *et al.*, 2011). The results confirm that emotional brand attachment has a direct and positive effect on compulsive buying. This means that emotional brand attachment fully mediates the relationship between ideal self-congruence and compulsive buying. Previous studies note that consumers tend to conduct compulsive buying due to their personal connection (e.g. nostalgic status) with the brand (Kessous *et al.*, 2015; Horvath and Birgelen, 2015). We extend this finding by showing that emotional brand attachment including personal connection, affection and passion are important in predicting compulsive buying.

In addition, this study contributes to the literature dealing with the motivation of trashtalking. Our findings show that ideal self-congruence and emotional brand attachment influence external trash-talking. Previous studies note that trash-talking is the result of being affectively committed with the brand and actively engaged in brand community (Japutra *et al.*, 2014; Hickman & Ward, 2007; Muniz & Hamer, 2001). We extend these studies by showing that trashtalking could occur without participating in brand community. When consumers feel passionately and affectionately connected to brands due to their ideal self-concept, they tend to defend the brand through trash-talking.

7.2 Managerial implications

It has been noted that material consumption, particularly uncontrolled buying, decreases individual economic and subjective well-being (Zhang *et al.*, 2014). Thus, it is important for policy makers to understand the factors that will lead to compulsive buying. Policy makers should regulate firms – such as on the creation of advertisements that foster exaggeration on fostering their ideal-self – since ideal self-congruence directly influence strong attachment and indirectly influence compulsive buying. Advertisements featuring thin models are related to adolescent girls' body dissatisfaction and eating disorders (Halliwell *et al.*, 2005; Bell *et al.*, 2007).

Firms should pay attention to their consumers' compulsive buying, since in the long run this could harm the brand image. Brand managers should be aware of the consequences for brand reputation when their consumers are engaging in compulsive buying. Horvath and Birgelen (2015) note that when firms condone compulsive buying, they are facing ethical dilemmas due to their social responsibilities. Subsequently, firms should be weary when a relationship ends, as compulsive consumers exhibit higher anxiety (Horvath and Birgelen, 2015) and are more likely to conduct anti-brand actions (Johnson *et al.*, 2012; Japutra *et al.*, 2014). Similarly, the rivalry in the form of trash-talking causes emotional distress to the consumers who engaged in the conflicts (Ewing *et al.*, 2013). Managers should try to reduce emotional distress in order to increase their consumers' well-being.

7.3 Limitations and further research

Although this work highlights important contributions to the marketing literature, it is not without its limitations. This study makes inferences based on a cross-sectional data in a specific culture – UK respondents. Thus, the study should be replicated with consumers from different cultures to increase its generalisability. Badgaiyan and Verna (2014) posit that personality traits, shopping enjoyment and materialism, apart from culture, affect impulsive buying behaviour. It would be worthwhile checking the role of these variables in the conceptual model proposed in this paper.

Researchers argue that extrinsic life aspiration is related to the propensity of conducting compulsive buying (Otero-Lopez & Villardefrancos, 2015). These authors note that the high compulsive buying group attributed higher importance toward financial success, image, popularity and conformity. These attributes show individuals' aspirations to reach their idealself. It would be an interesting avenue to examine the role of extrinsic goals in relation to ideal self-congruence, emotional brand attachment and compulsive buying.

This study measures brand attachment using a unidimensional scale that covers only emotional bonding. A recent study has suggested that brand attachment does not only cover emotional bonding but also cognitive bonding, reflecting brand-self connection and brand prominence (Park *et al.*, 2010). Future studies should measure brand attachment that reflects both cognitive and emotional bonding. Mende *et al.* (2013) argue that consumers are being guided by their attachment styles in the relationships with firms. Thus, attachment styles might be taken into account as moderating variables.

In the current study, consumers responded to questions that were specific to their chosen favourite brand across various brand categories. Although the diversity of brands' categories provides important implications in general, further studies should focus on several specific categories of brands that have high turnover (e.g. fashion brands). Marticotte *et al.* (2016) argue that brand rivalries provide excellent opportunity to examine consumer attitudes and behaviours linked to oppositional brand referrals (e.g. trash-talking). Thus, it is relevant for scholars to examine the research framework in the context of brand rivalries (e.g. Sony PlayStation vs.

Microsoft Xbox).

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