

The Impact of Value Perceptions on Purchase Intention of Sustainable Luxury Brands in China and the United Kingdom

Abstract

Despite luxury brands' efforts to incorporate sustainable development into their branding and product design, studies have shown inconclusive evidence about consumers' reaction towards such efforts. This study investigates how consumption values (i.e. the need for exclusivity, conformity, and hedonism) affect consumers' acceptance of luxury brands' sustainable efforts. It adopts a cross-cultural framework by analysing two countries namely China and the UK, which differ substantially in some of Hofstede's cultural dimensions namely power distance, individualism and indulgence. Using the Structural Equation Modelling in analysing 677 survey responses from actual luxury goods' consumers in the two countries, we suggest that hedonic needs drive consumers' purchase intentions in China and the UK. We find that the need for exclusivity in sustainable luxury items is negatively related to consumers' purchase intentions in China, while the need for conformity is positively related. In contrast, these effects are reversed in the UK. Our study implies the need to align the marketing of sustainable luxury with consumption values of consumers to reflect the cultural differences. In theorising sustainable luxury research, this study provides a deeper understanding of value perceptions pertaining to luxury product consumption and sustainability.

Keywords

sustainable practices, luxury brands, cross-culture, consumer attitude

Introduction

Luxury brands are increasingly criticized for their unethical and unsustainable practices. This has led to some brands committing more to sustainable and socially responsible initiatives (Anido and Loussaïef 2018; Mititelu et al. 2014). While there is increasing scholarly attention given to sustainable luxury research, a recent systematic review of literature between 2007 and 2018 revealed that few studies have sought to understand sustainability within the luxury marketplace (Athwal et al., 2019). The limited studies insufficiently addressed the compatibility between luxury and sustainability (De Angelis et al. 2017; Karaosman et al. 2020). On the one hand, some studies (Davies et al. 2012; Achabou and Dekhili 2013; Dekhili et al. 2019) suggest that consumers give low priority to sustainability in luxury consumption and show less preference for buying luxury goods with sustainable materials. Indeed, about one-third of luxury buyers pointed out that luxury contradicts sustainability (Kapferer and Michaut-Denizeau 2017). On the other hand, other studies argued that some features of luxury goods can be aligned with the notion of sustainability. For instance, Janssen et al. (2014) suggested that the durability of luxury goods conveys a fit between sustainable use of resources and luxury. While this finding implies that sustainable luxury caters to the needs of functionality-oriented luxury consumers, it is not applicable to luxury consumers who purchase products for other reasons. The extant literature though insightful, reveals conflicting results and an unresolved question relating to the extent to which luxury consumers are interested in the sustainable efforts of luxury brands. This gap in literature is addressed in this paper.

In doing this, we focus on how different consumption values may affect consumers' acceptance of luxury brands' sustainable efforts. Many luxury consumers generally exhibit consumption values which include both personal and social values (Hennigs et al. 2012; Hennigs et al. 2015). The question however is whether these values are sufficient to motivate consumers to purchase luxury products when

these luxury products or brands highlight their sustainable features and practices? If luxury consumption values do not motivate consumers, or, even worse, demotivate them from purchasing sustainable luxury products, we can then conclude that taking on sustainability will harm the luxury status of products. However, few studies have examined the impact of consumers' luxury values on their attitudes towards sustainable luxury. The only existing attempt is a descriptive and exploratory study by Cervellon and Shammass (2013), who used elicitation technique and interviewed European and Canadian consumers to show that several luxury values are enhanced through sustainability practices (e.g. durable quality, conspicuousness). Besides, Tynan et al (2010) and Shukla (2011) have called for the empirical testing of value perceptions to extend the validity and reliability of the extant theory on luxury consumption.

In response, this paper empirically focuses on the United Kingdom (UK) and China, two important markets representing different stages of the luxury market (D'Arpizio et al. 2017). China is an emerging luxury market with the largest consumption power (Zhan and He 2012). China delivered more than half of the global growth in luxury spending between 2012 and 2018, and is expected to deliver 65% of the world's additional spending heading into 2025 (McKinsey & Company 2019). The UK is a mature market for luxury production and consumption, with average luxury purchasing per consumer estimated to reach \$21,193 in 2019 (Jaekel 2019). The two countries also differ substantially in the national cultural dimensions (Hofstede 2007), in that China scores higher in power distance but lower in individualism and indulgence than the UK. By examining the reactions of consumers to sustainable luxury in these two very different countries, we are responding to the call from Athwal et al (2019) to highlight the imperatives of having an international perspective and a rigorous cross-cultural methodology to deal with the current empirical bias toward Western consumers in sustainable luxury research. In so doing, we also verify the similarity and differences in results and mechanisms found between Western and non-Western cultural contexts. We focus on three key consumption values in

luxury goods namely the need for exclusivity (Tian et al. 2001; Bian and Forsythe 2012), the need for conformity (Bearden et al. 1989; Zhan and He 2012), and the hedonic need of consumers (Wiedmann et al. 2009). Based on 677 survey respondents from China and the UK, we tested the impact of luxury consumers' commonly held values on their preferences for sustainable luxury.

We make original contributions to the literature. Firstly, by investigating and rigorously testing how three commonly held luxury values influence consumers' preferences for sustainable luxury over general luxury products, our study deepens the understanding of whether luxury and sustainability are compatible, and also answers the calls of Tynan et al. (2010) and Shukla (2011) for the rigorous empirical testing of value perceptions. In doing this, we augment the validity and reliability of the extant theory and literature on luxury consumption. Our study reveals that sustainable luxury could be appealing to luxury consumers who can associate sustainable features with guilty-free pleasure, uniqueness and social trend. Such results support a compatibility view between luxury and sustainability, allowing us to forge ahead in the theorizing of sustainable luxury and in the framing of its marketing effort.

Second, in adopting a cross-cultural framework to explore our research inquiry, we contribute to cross-national sustainable luxury research by comparing consumers' reaction towards sustainable luxury in a less explored Chinese market and a more extensively investigated UK market. Athwal et al (2019) in their literature review on sustainable luxury highlighted a significant lacuna in research on culture and sustainable luxury. Most studies on luxury consumption do not consider the ethical or sustainable aspect and those few examining sustainable luxury often use a mono-cultural framing (Athwal et al 2019), for instance, focusing on France (Kapferer and Michaut-Denizeau 2014), Italy (Pencarelli et al. 2019), China (Zhan and He 2012; Siu et al. 2016; Filieri et al. 2019), or the UK (Davies et al. 2012). This study shows that although consumers across cultures may have similar motivations when purchasing general

luxury goods, the motivations for sustainable luxury differ across the West and East. Our results thus provide insights into how luxury companies can address their sustainability efforts to influence consumers' purchasing decisions in culturally different countries. We proceed with a review of relevant literature, theory and hypotheses development, methodology, results, discussions, and finally contributions.

Literature Review

Sustainable Luxury

Scholarly research has begun documenting sustainability efforts of luxury brands (Athwal et al. 2019; Anido and Loussaïef 2018; Han et al. 2017; Macchion et al. 2018; Mititelu et al. 2014), suggesting that incorporation of sustainability into luxury brands should not be ignored (Winston 2016). However, since the first mention of sustainable luxury as a separate construct by Bendell and Kleanthous's (2007), there has been an ongoing debate on whether the concept of luxury is even compatible with sustainability (Kapferer and Michaut-Denizeau 2014; Achabou and Dekhili 2013). To start with, the World Commission on Environment and Development defines sustainability as 'meeting the needs of the present without compromising the ability of future generations to meet their own needs' (Brundtland Report 1987, p. 8). This definition emphasizes the conservation of nature's assets in business and consumption practice. Nevertheless, luxury brands often strive for perfect quality and creativity, while disregarding costs (Kapferer 2010). Luxury derives from objective rarity (e.g. rare skins, rare leathers, rare pearls, rare materials, rare craftsmanship), which challenges biodiversity and animal welfare (Kapferer and Michaut-Denizeau, 2014). In this way, such products are conflicting with necessity and often associated with over and unnecessary consumption. As a result, luxury brands are accused of wasting 'resources for the pleasure of a happy few' (Kapferer 2010, p. 40), representing an

irrational and even immoral behaviour (Keinan et al. 2016). In addition, the inherent high prices notably highlight the inequality in society. In sum, luxury goods are associated with personal pleasure, superficiality, and ostentation, whereas sustainable development evokes altruism, sobriety, moderation, and ethics (Widloecher 2010).

Consistent with theoretical predictions, several empirical evidence show the incompatibility between luxury consumption and sustainability. For example, Bhattacharya and Sen (2004) reported that consumers support sustainability but are not ready to pay more for it. Ehrich and Irwin (2005) demonstrated consumers' tendency to purposefully ignore sustainability issues when they purchase, even though they say they are concerned. Davies et al. (2012) argued that ethical considerations weigh very little in consumers' luxury purchase calculations. Indeed, some research even find a negative correlation between luxury and sustainability. For example, Kapferer and Michaut-Denizeau (2014) found that luxury contradicts sustainable development when consumers perceive luxury as superficial and creating social unrest. In their study of French luxury buyers, the majority (52.8%) believed that luxury should not be a priority for sustainable development activism. Achabou and Dekhili (2013) found that consumers perceive recycled material in luxury products negatively, even when they are convinced that recycling is beneficial for the environment. Consumers give much less consideration to sustainability than to other features when making a luxury purchase (Athwal et al., 2019). This prevalent view on consumers' reactions to luxury brands' sustainable efforts, together with these brands' new trend of engaging more with sustainability, raises a significant question. How can luxury brands align their sustainable efforts with the values commonly pursued by luxury consumers?

To address this question, some researchers have disaggregated the concept of sustainability into sub-components and shown that some components are aligned with luxury features. Janssen et al. (2014) found that durability, a component of sustainability, aligns well with consumers' requirement for luxury

products and thus enhances product value. Cervellon and Shammas (2013) used elicitation technique with small-scale interview data from France, Italy, the UK, and Canada to show that several luxury values are enhanced through sustainable luxury (e.g. durable quality, conspicuousness). Their study provides preliminary insights, and we extend their work by focusing on three commonly held luxury values and rigorously testing how they influence consumers' preferences for sustainable luxury.

Luxury Values

Luxury is an abstract concept whose meaning is determined by personal and interpersonal motives that make up the consumer's perceptions (Vigneron and Johnson, 2004). Therefore, its definition and measurement tend to be subjective (De Barnier et al. 2012). Prior studies have attempted to categorize such subjective perceptions into values or needs. For example, Woodall (2003) conceptualized four distinct aspects of value: exchange value, use value, intrinsic value, and utilitarian value. Vigneron and Johnson (2004) distinguished luxury from non-luxury brands by introducing two major dimensions—namely, personal perceptions, which entail perceived hedonic value and perceived extended self, and non-personal perceptions, which entail perceived conspicuousness, perceived uniqueness, and perceived quality. Wiedmann et al. (2009) extended these classifications using four latent dimensions of value—namely, social (e.g. prestige and conspicuous), functional (e.g. usability, quality, and uniqueness), individual (e.g. self-identity, material, and hedonic), and financial (e.g. price). Berthon et al. (2009) conceptualized luxury goods as having three distinct value-based dimensions: objective (material), subjective (individual), and collective (social). Smith and Colgate (2007) proposed another four dimensions critical to value creation—namely, symbolic/expressive, experiential/hedonic, utilitarian/functional, and cost/sacrifice values.

As can be seen, the extant literature highlights several important and interrelated dimensions of luxury value. Thus, we deduce that, first, luxury value perceptions have a strong social dimension that

accounts for both self and others. Second, important dimensions of luxury include personal experience and pleasure. Third, luxury goods are sought for their high quality and functionality and have an association with overall price perception. However, a caveat regarding this relates to when consumers overstate the importance of function and quality due to a ‘functional alibi’ to justify their purchase of expensive luxury products (Keinan et al. 2016). Therefore, the current study does not focus on this dimension of ‘quality and functionality’ but instead on personal and social dimensions.

Luxury Consumption in Cross-Cultural Contexts

Despite numerous cross-cultural studies being carried out on luxury consumption (e.g., Aliyev et al., 2018; Lee et al., 2018; Zhang et al., 2014 among others), much less research has been conducted to examine sustainable luxury consumption from an international perspective. In a recent systematic review of a decade of research on sustainable luxury, Athwal et al. (2019) highlighted that a gap in literature relating to the relationship between culture and sustainable luxury. They found that most of the studies on sustainable luxury focus on a single site or country; a disproportionately large amount of research has been conducted in the UK and France, while much less have examined the other significant markets such as East Asia. Among the small amount of research on multiple cultural contexts, the methodology used was dominated by appreciative inquiry (Bendell and Thomas, 2013) or conceptual framework (Hennings et al. 2015; Kapferer 2010; Carrigan et al. 2013), while rigorous empirical work is still lacking. There is room, therefore, for more cross-cultural comparison to offer robust insights into the potential differences between cultures and consumers’ motives, behaviours and attitudes toward sustainable luxury. This study responds to this need by empirically comparing consumers’ reaction towards sustainable luxury in a less explored market such as China and a more extensively investigated UK market.

We built our comparison study based on Hofstede's cultural framework (1980), where China and the UK differ most substantially in three of six cultural dimensions i.e., power distance (80 vs. 35), individualism-collectivism (20 vs. 89) and indulgence (24 vs. 69) (Hofstede Insights, nd). These three dimensions are also closely related to the three consumption values addressed in our study.

The dimension of power distance is closely related to consumers' needs for exclusivity. The exclusivity of a luxury product and its popularity in the social context are key mechanisms that drive their luxury purchasing, particularly for new emerging luxury buyers - the newly rich and middle class in China (Bazi, Filieri & Gorton, 2020; Rovai 2016). Having an opportunity to own a luxury product and live a luxury lifestyle enable them to step out of the lower-ranking social classes and emulate upper-class behaviours (Filieri & Lin, 2017; Karaosman et al. 2020). Exclusivity, being closely related to an individual's appreciation for higher social status, could vary across high- and low-power distance contexts, where expectation and acceptance of power inequality differs. As a result, power distance serves as a relevant cultural dimension for us to rely on to discuss the different impact of exclusivity in China and the UK.

The dimension of individualism-collectivism can be connected to consumers' need for conformity, which is another motivation for luxury consumers. The need for conformity aligns with an interdependent self-construal suggesting a more connected way to fit in with relevant others (Aliyev and Wagner 2018). The extent of interdependence and need to belong to a group and affiliation with other group members could be higher in collectivistic culture than in individualistic culture, because the former values interdependence more than the latter (Hofstede and Minkov 2010).

The dimension of indulgence is linked to hedonistic value in luxury consumption. The extant literature suggests that luxury purchases could also be related to personal choice where consumers satisfy individual's emotional needs to satisfy the private self (Aliyev and Wagner 2018; Rovai 2016),

rather than the social needs. Such hedonistic value has been linked to sensory pleasure, satisfaction, and aesthetics (Fauchois and Krieg 1991; Roux and Floch 1996; Vigneron and Johnson 2004), and is deemed as important motivation for luxury consumption by both Western and Eastern consumers (Bian and Forsythe 2012). However, how much an individual pursues hedonic value (sensory pleasure) is shaped by cultural value related to indulgence, which is the extent to which a person tries to control his/her desires and impulses.

The foregoing motivates our study to examine how three commonly held values (i.e. exclusivity need, conformity need, and hedonic need) influence consumers' preferences for sustainable luxury in two culturally different contexts (China and the UK.) Ultimately, this study provides insights into whether luxury values and sustainability are at all compatible. In the next section, we present the theoretical framework and develop the hypotheses to examine whether luxury brands' sustainable efforts strengthen (or weaken) these luxury values.

Theory and Hypotheses Development

Social value perceptions are outer-directed consumption preferences related to impression management (Goffmann 1959). They represent the perceived utility of symbolism and image, in associating or disassociating with demographic, socio-economic, and cultural-ethnic reference groups (Sheth et al. 1991; Shukla 2012; Shukla and Purani 2012). In this study, we focus on three social values, namely the need for exclusivity (Tian et al. 2001; Bian and Forsythe 2012), the need for conformity (Bearden et al. 1989; Zhan and He 2012), and hedonic needs or the perception of emotional value derived from luxury brands, such as happiness or self-satisfaction (Wiedmann et al. 2009). All three are important motivators for luxury consumption. Drawing on Hofstede's (1980) cultural framework, we argue that the way that

these three luxury values influence the purchase of sustainable luxury goods varies across China and UK. Figure 1 depicts our theoretical framework.

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The need for exclusivity pertains to consumers' purchase of luxury brands to convey their identity and to distinguish themselves from others (Tian et al. 2001). Luxury brands, which are inherently scarce because of their price premium and restricted distribution, act as instruments to convey exclusivity (Bian and Forsythe 2012). In a similar vein, Cervellon and Shammass (2013) pointed out that luxury-brand values are associated with status and the feeding one's ego. By contrast, sustainability represents inclusiveness, prudence, connectivity, security, and fairness (Gladwin et al. 1995). As such, sustainable firms incorporate social equity, economic efficiency, and environmental performance into their operational practices (Labuschagne et al. 2005). Consumers who pursue exclusivity purchase luxury products because not everyone has access to them; luxury is thus discriminatory, and its objective in democratic and open societies is to create social stratification (Kapferer and Bastien 2012), which seems at odds with the notion of social equity and harmony. As a result, this type of consumer may not be as responsive to sustainable luxury products. Hence our research hypothesizes that:

***H1a:** Luxury consumers' need for exclusivity is negatively related to their purchase intentions towards sustainable luxury products.*

Such a negative impact may be more salient in China than in the UK because of the higher power distance in the former. The concept of power distance refers to unequal and unfair distribution of power among society members (Hofstede 2007). It is also related to the existence and maintenance of a solid social stratum in a culture. Thus, individuals in high-power-distance culture believe that there are hierarchies and separations between socio-economic classes. In high-power-distance cultures, individuals are also more likely to believe in inequality and are highly motivated to attain and show an

exclusive position in an organization or society. While buying and possessing status brands are ways to show their exclusivity in terms of higher position (Zhang and Kim 2013), a sustainable luxury brand that communicates equality and fairness may contradict such exclusivity. Concisely, in a high-power-distance culture such as China, exclusivity is more closely linked to higher social status and inequality than is the case in low-power-distance cultures such as the UK, where seeking exclusivity will lead to less acceptance of sustainable luxury products. Thus, our research hypothesize that:

***H1b:** The negative relationship between luxury consumers' need for exclusivity and their purchase intentions towards sustainable luxury products is stronger in China than in the UK.*

The need for conformity is another motivation for luxury consumers. Some luxury consumers imitate the behaviour of a reference group or display collectivist behaviour in order to be identified as members of the group. The reference group exerts an influence over values, attitudes, aspirations, and norms of behaviour. Such influence also touches on the choice of symbols, which are transferred first to the product and then from the product to the consumer in creating self-concept.

Consumers have become increasingly concerned about social and environmental issues regardless of their social class. Consumer perceptions today depend not only on manufacturers' sustainability activities but also on how these companies engage in socially responsible behaviour with other stakeholders in the supply chain (Schramm-Klein et al. 2016). A shift has occurred from 'conspicuous consumption' to 'conscientious consumption' (Cvijanovich 2011), in which high-end consumers act more responsibly in a socially and environmentally friendly manner. In support of this argument, research indicates that consumers are more concerned with brands perceived as ethical (Chun 2016). By openly purchasing sustainable luxury goods, consumers build an extension of themselves helping them identify with the desired reference group. In this way, purchasing sustainable luxury acts as a sign of

prestige (Griskevicius et al. 2010) and an elite experience obtained from buying goods that are produced and traded conscientiously (Bendell and Kleanthous 2007). Thus our research hypothesize that:

***H2a:** Luxury consumers' need for conformity is positively related to their purchase intentions towards sustainable luxury products.*

The positive effect of the need to conform in purchasing sustainable luxury goods may be more salient in China than in the UK because China scores higher on collectivism. A consequence of collectivism is the pressure that groups exert to conform to social norms (Tse 1996). Research has shown that collectivist consumers are more likely to purchase products for reasons of group affiliation (Kacen and Lee 2002) or to fit in with the social norms (Wong and Ahuvia 1998). Prior studies also suggest that a luxury good is rarely purchased for its aesthetic characteristics in the Chinese environment. The purchase decision is almost always associated with the rich class in society and the symbolic elements of the good in the social context such as face-saving (public image) to enhance one's self-concept (Monkhouse et al. 2012; Zhan and He 2012). As such, we propose that the conformist motivation for consuming sustainable luxuries is more salient in China than in the UK. Thus, our research hypothesize that:

***H2b:** The positive relationship between luxury consumers' need for conformity and their purchase intentions towards sustainable luxury products is stronger in China than in the UK.*

Personal value arises from the emotional value from luxury brands and is usually referred to as hedonic need. Hedonic need refers to the desire to experience positive feelings from consumption. Such positive emotional responses to luxury consumption have been linked to sensory pleasure, satisfaction, and aesthetics (Fauchois and Krieg 1991; Roux and Floch 1996; Vigneron and Johnson 2004). Seo and

Buchanan-Oliver (2019) indicate that customers achieve this state when their consumption of luxury brands is based on joy, habits, and excitement. In fact, consumers were observed to be increasingly seeking hedonic value in luxury (Kapferer and Valette-Florence, 2016).

At the same time, the hedonic dimension of luxury entails a psychological cost, in particular, the feeling of guilt. Consumers buying luxury items out of personal enjoyment (Vickers and Renand 2003) may have negative post-purchase emotions. For example, Cervellon and Shammas (2013) show that French and Italian consumers have higher feelings of guilt when they wear fur coats or buy expensive products. After the 2008 financial crisis, shoppers began suffering from ‘luxury shame’, with the financial crisis changing ‘the guilty pleasure of shopping ... to plain old guilt’ (Passariello, 2009) and dampening consumption. However, if a luxury brand incorporates sustainable practices by either engaging in environmentally friendly ethical production or giving back to society, its products may provide a ‘licensing effect’ to consumers (Khan et al. 2010). They note that making an altruistic act such as a donation to charity, helps establish a positive personal self-image and in turn liberates the person to make self-indulgent choices. Consumers could therefore compensate for the negative feelings associated with their own luxury purchases and achieve guilt-free enjoyment (Cervellon and Shammas 2013; Steinhart et al. 2013). Thus our research hypothesize that:

H3a: Luxury consumers with high hedonic needs are more willing to choose sustainable luxury products.

The magnitude of guilt attached to luxury is dependent on culture (Cervellon and Carey 2011), particularly the culture dimension of indulgence (Hofstede 1984). Consumers in China do not place much emphasis on leisure time and control the gratification of their desires because China is a restrained society (Hofstede 1984). By contrast, in the UK, people generally exhibit a willingness to realize their

impulses and desires with regard to enjoying life, having fun, and spending money. They place a higher degree of importance on personal pleasure and leisure time. Therefore, it is likely that the guilt associated with luxury consumption is stronger among Chinese consumers in comparison to UK consumers. In this way, a licensing effect tends to be more important for Chinese consumers than for UK consumers. In line with this rationale, Chinese luxury consumers driven by hedonic need might be more willing to choose sustainable luxury products over general luxury products than their UK counterparts. Thus our research hypothesize that:

***H3b:** The positive relationship between luxury consumers' hedonic need and their purchase intentions towards sustainable luxury is stronger in China than in the UK.*

Our theoretical model in Figure 1 illustrates the six hypotheses on the relationship between luxury values and purchase intention towards sustainable luxury products with respect to the UK (Western context) and China (Eastern context).

Methodology

Questionnaire Design

We employed a survey to collect data on sustainable luxury consumption. The survey contained questions about consumers' purchase of luxury products (e.g. purchase history, product category, brands, price range), their understanding of sustainable luxury, their perceived value from luxury products, their attitudes towards purchasing sustainable luxury products (vs. general luxury products), and their demographic information. The survey explained the research agenda so as to help respondents distinguish between intermediate and inaccessible luxury brand names, such as Chanel, Gucci, Burberry, Stella McCartney, Louis Vuitton, Valentino, Rolex, and Cartier, and accessible luxury brands, such as Ralph Lauren, DKNY, and Armani Exchange (De Barnier et al. 2012). We then asked respondents if

they had ever purchased luxury products and to qualify their recent purchase in at least one of the product categories: footwear, jewellery, apparel, wrist-watches, handbags, and accessories (e.g. scarfs, belts, ties, sunglasses) regardless if they were sustainable or not¹. This served as a filter question to target only meaningful samples—that is, actual purchasers of luxury items (Peterson, 2001). The survey took place in China and in the UK, so we had both a Chinese and an English version of the questionnaire. We followed the commonly used translation and back-translation technique (Sperber et al. 1994) to ensure accuracy of the Chinese language translation. The questionnaire is provided in Appendix 1.

Data Collection

Respondents in China and in the UK were recruited via the Qualtrics data service in January 2019. As women account for more than 65% share in the global luxury goods market (Research and Markets, 2017), we applied quota sampling based on gender to ensure the sample was proportionate to the number of men and women in the population of both countries (i.e. a ratio of four men to six women). We collected a total of 437 and 353 responses from China and the UK respectively. However, some responses included inconsistent information such as featuring the purchase of a low price Rolex watch and providing names that are not luxury brands. These were regarded and removed as invalid responses together with data points which indicated that respondents had purchased a luxury item more than two years ago. After further removing outliers and responses with missing data, we had 410 and 267 valid responses for China and the UK respectively. Table 1 presents the demographic information of respondents in the two countries.

¹ According to D’Arpizio et al (2017), footwear, jewellery, and handbags ranked as the three fastest-growing product categories in 2017, increasing by, respectively, 10%, 10%, and 7% that year. The bulk of global luxury purchases is for apparel, beauty, and handbags, with the value of €61 billion, €54 billion, and €48 billion, respectively.

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Construct Measurement and Validity Test

Table 2 shows the four measures used in the study namely the need for exclusivity, the need for conformity, hedonic need, and the purchase intention towards sustainable over general luxury products, as well as the associated questions derived from established scales. To keep the online survey at a reasonable length and yet satisfy the conditions for sufficient latent construct measurement (Kline 2005), we asked three or four questions from each established scale that measured the key constructs (Dodds et al. 1991; Wiedmann et al. 2009; Zhan and He 2012).

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Exploratory factor analysis tested the convergent validity of the constructs. As Table 2 shows, all items were loaded significantly ($p < .001$) onto four corresponding factors (higher than .60), with Cronbach's alpha value for each construct above .70 (Moss et al. 1998). We also examined the internal validity of the measurement model through average variance extracted (AVE). All AVE values were within the acceptable threshold (values above .7 are considered good, while a value of .5 is acceptable) (Fornell and Larcker 1981). Therefore, the convergent validity of the constructs was established.

Discriminant validity is established when measures are not a reflection of some other variables. This can be indicated by low correlations between the measure of interest and the measures of other constructs (Cheung and Lee 2010). We conducted confirmatory factor analysis in IBM SPSS AMOS 25, a structural equation modelling (SEM) software, and found that the AVE for each factor was larger than the square of the correlation estimates of the factor with all other constructs (Table 3, Panels A and B). We thus conclude that the measures show sufficient discriminant validity (Fornell and Larcker 1981). Taking all these indicators into account, our measurement model is satisfactory for both countries.

Panels A and B in Table 4 show the descriptive statistics and correlation matrix for the UK and Chinese samples respectively.

To minimize the effect of common method variance, we used several recommended procedural and statistical remedies (Podsakoff, et al. 2003). We controlled for order bias by counterbalancing the order of the measurement of the variables. We changed the order of the scale items and the position of the predictor and criterion variables. We also conducted Harman's one-factor test with all the measurement items in a factor analysis without rotation and achieved a solution that accounted for 73.2% and 75.4% of the total variance, with the first factor accounting for 41.6% and 37.4% for the Chinese and UK samples respectively. As a single dominant factor did not emerge for either sample, the common method bias is unlikely to be a concern in this study (Podsakoff and Organ 1986).

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Results

Luxury consumption habit. In our sample, 93% of Chinese respondents and 77.14% of UK respondents have made their luxury purchase in the recent two years and the rest purchased the luxury items in the recent five or ten years. A simple comparison shows that Chinese consumers have purchased luxury items more frequently than UK consumers in the last two years while UK consumers have been purchasers of luxury products for a longer period. Table 5 Panel A shows that luxury consumers in both China and the UK spent mostly on jewellery and handbags, although the percentage spending is higher in China. Respondents also indicated the price range of the luxury items they purchased (see Table 5 Panel B). A larger percentage of Chinese respondents spent more on expensive items (above USD

1,000) than those in the UK². Taken together, our results offer support to the findings of D'Arpizio et al. (2017) that China is one of the fastest-growing countries for luxury goods.

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How do consumers understand sustainable luxury? Respondents were asked to choose five from a list of ten words to show their understanding of sustainable luxury. The top three words chosen by Chinese respondents were 'environmentally friendly', 'ethical', and 'durable', whereas UK respondents chose 'high quality', 'ethical', and 'environmentally friendly' as the top three words (see Figure 2).

-----Insert Figure 2 around here-----

Respondents were also asked to indicate their perceived importance of several sustainable practices employed by luxury brands. The results show that the UK respondents were more concerned about the ethical treatment of workers and the use of child labour, while the Chinese respondents were more concerned with the protection of natural resources and working fairly with both customers and suppliers (see Figure 3).

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How do consumers perceive the sustainability of luxury brands? Each respondent was asked to nominate a brand from the product category that they have purchased. Respondents from China nominated 59 distinct brands in total, and UK respondents nominated 93 brands. Among those brands, 42 brands nominated by Chinese respondents and 40 brands nominated by UK respondents fell in the *Global Power of Luxury Goods List 2017* (Deloitte 2017). Table 6 shows the top 10 nominated luxury brands by the respondents from both countries.

² Most luxury brands nominated by Chinese consumers are European based and purchasing such luxury products is more expensive in China than in the UK. However, the difference is not as huge particularly for those high-end brands (<https://www.bragmybag.com/chanel-bags-prices/>).

When respondents were asked to reflect whether they believed their nominated luxury brand employed sustainable practices, 73.67% of Chinese respondents agreed that the luxury brand they consume is sustainable, while only 48.57% of UK respondents agreed to this. Such results suggest that UK consumers seem to be more critical of whether their nominated luxury brand employs sustainable practices.

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Structural Equation Modelling Analysis

We tested the model presented in Figure 1 using AMOS 25 with maximum likelihood estimation. The sample size of 410 Chinese consumers and 267 UK consumers with 14 indicators in the model, was sufficiently large, given that the suggested sample size for structural equation models should be at least 200 (Kline 2005) or 10 observations per indicator variable (Nunnally 1978). To test the hypotheses, we first ran a multi-group analysis and found that at least one path parameter differed between the Chinese and UK samples (more details of multi-group analysis using SEM is provided in Appendix 2). Therefore, we adopted the unconstrained models, which allowed path parameters to be estimated separately for the two samples. Table 7 shows the results of the unconstrained structural equation models. Because the minimum fit of the chi-square was non-significant ($p > .1$; Tucker-Lewis Index, Comparative Fit Index, Normed Fit Index and Incremental Fit Index were all above .95, while RMSEA (root mean square error of approximation) was below .05), the models had a good fit in both samples.

-----Insert Table 7 around here-----

The multi-group analysis reported the matrix of critical ratios for path parameter differences between the unconstrained Chinese and UK models. The z-test critical value greater than $|1.96|$ in a two-tailed test indicated that the difference between the two groups was statistically significant at 5%.

As Table 7 shows, the need for exclusivity is negatively related to higher purchase intentions towards sustainable luxury over general luxury products in the Chinese sample ($\beta = -0.109$; $p < .05$), but the result is positively significant in the UK sample ($\beta = 0.231$; $p > .05$). The z-statistic of 2.859 suggests that the need for exclusivity differs significantly between China and the UK. The negative and significant relationship in China could be due to the high-power-distance culture, implying that Chinese luxury consumers who are more motivated to show their exclusive position do not associate sustainable luxury items with exclusivity and hence have lower purchase intention. In contrast, UK consumers seeking exclusivity have higher purchase intentions. The results lend support to H1b.

The need for conformity is positively but not significantly related to higher purchase intentions towards sustainable luxury over general luxury products in the Chinese sample ($\beta = 0.012$; $p > .1$). In contrast, the UK results show a significant and negative relationship ($\beta = -0.282$; $p < .01$), suggesting that UK luxury consumers are unlikely to purchase sustainable luxury due to social mimetic pressure. The z-statistic of 2.486 suggests that the effects differ significantly between China and the UK. Thus, H2b is not supported.

The hedonic need is positively and significantly related to higher purchase intentions towards sustainable luxury over general luxury products in both samples (China: $\beta = 0.693$, $p < .001$; UK: $\beta = 0.240$, $p < .01$). The z-statistic of -3.890 suggests that the effect is significantly stronger in China than in the UK. Thus, H3b is well supported suggesting that sustainable features of luxury products are more salient in motivating hedonism-driven luxury consumption in China than in the UK.

We further conducted a simple linear regression model using our main variables and other control variables in the analysis, to test the hypotheses H1a, H2a and H3a as well as to check the robustness of our results while ruling out the influence of other factors using the following model³.

$$\begin{aligned} \text{Purchase intention} = & NFE + NFC + HV + NFE \times \text{China} + NFC \times \text{China} + HV \times \text{China} \\ & + \text{control variables} \end{aligned}$$

Factors that could influence luxury consumers' purchase intention of sustainable luxury products are included as the control variables. The coding of control variables is presented in Table 8 under Note (3). Table 8 shows the 4 models employed in the simple linear regression. Model 1 tests hypotheses H1a, H2a and H3a using the full sample. Results from model 1 only supports H3a, which predicts a general positive relationship between hedonic needs and purchase intention of luxury items over general items ($\beta = 0.46$; $p < 0.01$). H1a and H2a are not supported given that the need for exclusivity and need for conformity do not show significant results ($\beta = -0.05$; $p > 0.1$; $\beta = 0.02$; $p > 0.1$). Such results suggest that the traditional luxury values such as seeking exclusivity and conformity from luxury purchase cannot predict purchase intention for sustainable luxury generally.

Models 2 and 3 test hypotheses H1b, H2b and H3b using the China and UK sample(s) respectively. Model 4 tests the differences across China and the UK by incorporating interactions between *China* and the main variables (NFE, NFC and HV). Significant coefficients for the interaction between *China* and

³ Although SEM allows us to test the interaction and total effect of all main variables in our hypotheses, SEM has some limitations. First, in addition to the main consumption variables, there are other control variables that could affect consumers' purchase intention for sustainable luxury items. When using SEM, it is ideal to always include all the control variables. However, these control variables will count against the sample size calculations. The more controls to be included in SEM, the larger the sample size needs to be. Considering the sample size, we only included the main instruments and one control variable (education, treated as interval data with 7 levels) in SEM. Second, several of our control variables are dummy variables, such as (i) gender, (ii) occupation categories, (iii) accessible or non-accessible luxury, etc. Dummy variables are not continuous and do not have normal distributions, hence violating several important assumptions in SEM. In addition, including those dummy variables will also empirically overwhelm the model, given that several dummies have to be included to represent different categories (Ping, 2010). Due to these reasons, we did not include all the control variables in the SEM. The results of our main variables, though significant, only account for a small amount of the variance in the dependent variables. To provide more robust results of our main variables, we further used simple linear regression model, in which the Ordinary Least Squares (OLS) procedure was used. The simple linear regression model allows to control more variables that could affect purchase intention.

NFE, NFC, and HV would suggest that the influence of the luxury values differs significantly between China and the UK. The results in Models 2, 3 and 4 in Table 8 are generally consistent with those from SEM, supporting H1b and H3b. One notable result from the linear regression models is that the relationship between the need for conformity and purchase intention towards sustainable luxury products is positive for Chinese consumers ($\beta = 0.11; p < .01$), but negative for UK consumers ($\beta = -0.11; p < 0.1$), thus supporting H2b. Table 9 summarizes the results from both the SEM and linear regression models.

-----Insert Table 8 around here-----

-----Insert Table 9 around here-----

Discussion

Research suggests that luxury brands' incorporation of sustainable development can enhance brand differentiation and companies' sustainability image (Kim and Ko 2012). However, studies also show that consumers do not put much value on luxury brands' sustainable efforts (Bhattacharya and Sen 2004; Ehrich and Irwin 2005). This poses a problem: if consumers do not appreciate sustainable practices of luxury brands, luxury brands' investment in various sustainable practices will eventually become an extra cost without payback, threatening their bottom lines (Johnston, et. al. 2019). Our research has attempted to address this issue in a cross-cultural context.

The empirical results reveal that consumers' understanding of 'sustainable luxury' leans towards the concept of sustainability rather than the concept of luxury. For example, while previous studies suggest that scarcity is an important component in luxury items (Dubois and Paternault 1995; Janssen et al. 2014), our study indicates that only 14% of Chinese respondents and 7% of UK respondents chose scarcity as a keyword when asked to indicate their understanding of sustainable luxury. This result also suggests that when sustainability is attached to a luxury product, the value stemming from being scarce could be attenuated. Such a result aligns with prior research. For example, Achabou and Dekhili (2013)

demonstrated that regular luxury buyers are against purchasing a Hermès product made of recycled cotton because they believe recycling means that the product is not rare and precious and therefore considered not prestigious. This implies that when the sustainable concept is highlighted for a luxury product, it negates some of the commonly held luxury consumption values/needs.

At the same time, prior studies suggest that luxury consumers are not explicitly interested in sustainability criteria when purchasing luxury brands, but they nevertheless have strong expectations (Gardetti and Torres, 2013). Our results corroborate this finding and show that 73.67% of Chinese consumers believe that the luxury brands they purchased are sustainable. However, this applies to only 48.57% of UK consumers. Among the top 10 luxury brands purchased by our Chinese respondents, consumers overwhelmingly believed that these brands are sustainable. In the UK, many respondents remained neutral. For example, the Armani brand which enjoys a high prestige has 93.3% of Chinese respondents believing it to be sustainable. However, only 27.3% of respondents in the UK believed so, while 72.7% were unsure. This result stems from a halo effect of the luxury brand, in which raters allow overall or trait impressions to affect the evaluation of other traits of the ratee (Oh and Ramaprasad 2003). In this case, it seems that a majority of Chinese luxury consumers implicitly hold the belief that luxury brands have a duty to be sustainable, a mission of exemplarity based on their price and promised exceptional quality. Our findings also show that such a halo effect is more salient among Chinese than UK consumers. This is understandable for a less mature luxury market, in which consumers still lack a good understanding of the history, culture, and style related to a luxury brand (Rovai 2016).

In line with the positive perception among Chinese respondents of the sustainability level in luxury brands, their purchase intentions towards sustainable luxury over general luxury are significantly higher than their UK counterparts (5.41 vs. 4.97, $p < .001$). Overall, they believe that luxury brands have a societal responsibility to enhance environmental sustainability, ensure animal welfare, and conserve

resources. Such outcomes bring caution to the luxury sector in China, suggesting that sustainability is deemed an implicit requirement, more than ever before. There could be a high risk for brands that ignore these requirements, all the more in a context in which they are increasingly subjected to criticism because of their visibility. The halo effect could easily turn into the horn effect, in which consumers' perceptions of a luxury brand are unduly influenced by a single unsustainable practice or incident. For some brands, it is becoming urgent to bridge the gap between expectations and reality to preserve their reputation or even to maintain their licence to operate, particularly in China. By contrast, UK consumers seem more suspicious of luxury brands' sustainable gestures, even though they still purchase the products.

We also examined three commonly held social and personal values of luxury consumers in China and in the UK. Hennigs et al. (2012) showed that the basic motivational drivers of luxury consumers (i.e. financial, functional, personal, and social) are similar among these dimensions of luxury value perceptions. However, the relative importance of these dimensions varies. For example, Rovai (2016) posited that social value plays a more important role in influencing Eastern consumers' luxury purchase, while personal values are more important motivators for Western luxury consumers. Our structural equation model and regression analyses provided further evidence of how these commonly held values align with or contradict the sustainable luxury concept in different ways in China and in the UK.

We found that the need for exclusivity discourages Chinese consumers from choosing sustainable luxury products over general luxury products, but the need for exclusivity encourages UK consumers to do so. We attribute this to the different connotations of exclusivity in China and the UK. In China, exclusivity seems to be more about social status arising from inequality and stratification (Rovai 2016); sustainable luxury does not align with such exclusivity. This is also consistent with prior research. For instance, Torelli et al. (2012) showed that consumers value luxury brands engaging in sustainability less

because it reduced their perceptions of exclusivity associated with the brand. We do not observe such a negative effect in the UK where low power distance does not result in as much contradiction between sustainability and exclusivity as that of China. On the contrary, UK consumers seeking exclusivity look towards luxury products that are unique and different from others and luxury products with sustainable features might be perceived as such.

For Chinese consumers, purchasing sustainable luxury is also driven by their intention to benchmark the expected social trend so as to show their affiliation with a desired social group. Sustainable consumption has not been embraced by most consumers traditionally in China. In recent years however, sustainable consumption behaviour has increased in China especially in urban cities (Shao, 2019). Sustainable production and consumption are part of China's national strategy in its 13th Five-Year Plan (2016-20). Correspondingly, some clear evidence of consumers' adoption of sustainable consumption can be seen in food purchasing behaviour (Yin and Cao 2012; Yin et al. 2013). A report released by the China Chain Store and Franchise Association indicates that more than 70 percent of respondents were willing to pay 10 percent more for sustainable products or services over non-sustainable ones (China Daily, 2017). Alibaba's research arm further finds that 16.2% of the consumers on Alibaba's China retail marketplaces, bought 5 or more green products in 2015 and were willing to pay an average of 33% more for sustainable products (Lee, 2020). All of the evidence suggests that sustainable consumption is a new trend among Chinese consumers, particularly in urban cities. Such a new trend facilitates luxury consumers' buy-in of sustainable luxury items due to their pursuit of social desirability through expressing social responsibility. In contrast, UK consumers pursue more idiosyncratic choices without much restriction to conform to an external expectation. They are instead more individualistic and discerning, and perhaps more critical towards being a trend follower. Such

results can be supported by our descriptive data, which show that more than half of UK respondents do not agree that the luxury brand they consume is sustainable.

Our results suggest that hedonic need generally drives consumers' purchase intentions towards sustainable luxury. Athwal et al. (2019) noted inconsistencies in the literature on the fit between hedonism and sustainable luxury. On the one hand, a consumer may see sustainability as utilitarian and luxury as hedonic (Steinhart et al., 2013). On the other hand, Cervellon and Shammass (2013) suggest that hedonism is part of sustainable luxury and a major added value of sustainable products. Our result lends support to a fit between hedonic need and sustainability component of luxury. We attribute such a fit to the guilt-free licence provided by sustainable luxury. Such an explanation is further strengthened by our results, indicating a stronger positive relationship between hedonic need and the purchase intention of sustainable luxury in China and the UK. Having sustainable features in luxury products help alleviate the tension between modern Chinese consumers' pursuit of hedonism and traditional Chinese virtues. Adams (2011) suggests that modern Chinese consumers appreciate hedonic and utilitarian features in luxury goods similar to consumers in the United States. This may be due to the dynamic economic changes taking place in China with the country becoming more individualistic as a result of print media, social media, advertising, and other commercial influences (Zhou and Hui 2003; Zhang and Harwood 2004). At the same time, the classic virtue of thrift in Chinese culture acts as a restraint on consumerist hedonic values (Faure and Fang 2008; Wang and Lin 2009). Sustainable features in luxury items thus act as a licence for Chinese consumers to justify luxury consumption. In comparison, consumers from the UK feel less guilty from luxury consumption due to their high indulgence culture resulting in less guilt-free pleasure from sustainable luxury.

Finally, our results suggest that the coefficient of hedonic need is far greater than those of exclusivity and conformity in both China and the UK. This aligns with prior studies that luxury

consumption has undergone a major transformation due to changes in societal values since the 1990s (Gobe, 2003) and increasingly, more consumers are turning to emotive needs when purchasing luxury items than functional and social needs (Kapferer and Valette-Florence 2016). This result also implies that consumers perceive the benefits of sustainable luxury mainly from emotions thereby evoking guilt-free joy. For the consumers, doing good and no harm, and contributing to society cumulatively free them from feeling guilty when making unnecessary and expensive purchases.

Contributions

First, this study extends our understanding of value perceptions pertaining to sustainable luxury product consumption and thereby contributing to the theorising of sustainable luxury research. While the current literature on sustainable products are rich, they are limited to research on commoditized cotton, coffee, or paper/pulp/wood products (Auger et al. 2003; Auger et al. 2008). Some studies disaggregate the concept of sustainability into sub-components to show a possible fit, albeit with limited observations (Cervellon and Shammass 2013; Janssen et al. 2014). Our study empirically demonstrates how three commonly held luxury values influence consumers' preferences for sustainable luxury products. Our study deepens scholarly understanding of whether luxury and sustainability are compatible, and also answers the calls of Tynan et al. (2010) and Shukla (2011) for the empirical testing of value perceptions. This study provides rigorous empirical testing of value perceptions, augmenting the validity and reliability of the extant theory and literature on luxury consumption.

Second, this study provides cross-cultural insights into sustainable luxury by comparing China and the UK — two major luxury markets with different economic developmental trajectories and cultural characteristics. Prior studies show that consumers across cultures may have similar motivations when purchasing luxury goods (Hennigs et al. 2012) but the salience of their effects may vary across different

cultures. Our study reveals that hedonic needs constitute an important global driver for consumers when purchasing sustainable luxury products, but its impact is more prominent in China than in the UK. The results also show that the effects of the needs for exclusivity and conformity differ depending on cultural contexts. This is an important contribution to the budding sustainable luxury literature and to the wider literature on sustainability, branding, marketing, and international business.

The results of our study provide practical insights for companies promoting sustainable luxury in Western and Eastern markets. Linking sustainability with doing good, societal contribution, and guilt-free pleasures cumulatively license consumers' pursuit of hedonism and therefore help increase consumers' purchase preference for sustainable luxury. Public relations and promotional campaigns showcasing a luxury brand's fair treatment of workers and suppliers, as well as care for animals and the environment, could evoke positive feelings that consumers are helping society and the environment, making their purchase of sustainable luxury more worthwhile. Nonetheless, the two markets have some differences. In Western economies such as the UK, consumers have doubts about luxury brands' authenticity of being sustainable. To integrate sustainability effectively as an important component, luxury brands could make their sustainable production processes and business practices more transparent. To align with UK luxury consumers, companies could note sustainability as a unique feature, for example by showcasing their innovative design and creative solutions in achieving sustainability.

In Eastern economies such as China, there is a halo effect in luxury consumption. The majority of Chinese consumers tend to assume that luxury brands have adopted sustainable practices given their exclusive brand image and price (Lin and He 2017; Cheah et al 2020). Such a halo effect is a double-edged sword. On the one hand, Chinese consumers seem to have higher acceptance levels for sustainable luxury brands. This is good news for luxury brands that have already started integrating

sustainability into their products and practices. On the other hand, a high expectation for luxury brands poses a great deal of risk. Any malpractices by luxury brands will lead to massive boycotts in China. This makes it imperative for all luxury brands in the Chinese market to maintain credible sustainable practices. In addition, in promoting sustainable luxury to Chinese consumers, marketers could create and leverage new social norms by educating consumers about sustainability and making purchasing sustainable luxury a trendy and desired lifestyle for the elite, newly rich, and middle class. In doing so, a sustainable luxury brand could attract consumers who are eager to show their social identity by following their reference group.

Despite the insights given, one limitation of our study is that the use of data collected from a survey could be subject to social desirability bias. Respondents might respond according to what they believed to be socially acceptable (Randall and Fernandes, 1991; Chung and Monroe, 2003; Auger and Devinney, 2007). Our data may also be subject to selection bias because those respondents supporting sustainable consumption are more likely to partake in such surveys (Chung and Poon, 1994). While we minimized such a bias by putting our questionnaire online and ensuring anonymity in the data collection process, our results must be interpreted with appropriate caution. We have argued that sustainable luxury consumption reduces consumers' guilt so that consumers will derive more pleasure in purchasing expensive luxurious products that are sustainably produced. Guilt is used to support how hedonic needs influences consumers' reaction towards sustainable luxury purchases. Unfortunately, we have not collected data nor developed an instrument to measure "guilt", and hence we could not directly test such an argument. This presents another limitation to this study and opportunities for further research.

Lastly, our study was conducted right before the Covid-19 pandemic, which has posed a serious threat to the luxury sector. Since the Covid-19 pandemic, there has been a plunge in consumer confidence as a result of rising unemployment and lower spending power, and disruption of tourists'

purchases due to travel restrictions and a fear of possible contagion on planes and cruise ships. Bain & Company hence forecasted a 25 – 30% market contraction in the first quarter of 2020 (D'Arpizio et al, 2020). Irrespective, practitioners and scholars are expecting the luxury retail market to be resilient overall, notably benefiting from the rise of Chinese consumers' appetite for luxury (Khan, 2020). In fact, historical data suggest that except for a small dip in 2003 and a larger decline during the recession of 2008-09, the global luxury goods market grew steadily by 6% CAGR (compound annual growth rate) from 1996 to 2019 (D'Arpizio et al, 2020). Such results suggest that the luxury industry is resilient to economy downturns and market shocks, implying the strong relevance of our results, in the main.

On behalf of all authors, the corresponding author states that there is no conflict of interest.

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