



Citation for published version:

Bravo Velázquez, A, Hang, H & Ren, S 2023, 'The Impact of Dialectical Thinking on Androgynous Brand Equity across Cultures: The Moderating Role of Brand Positioning', *International Marketing Review*, vol. 40, no. 1, pp. 176-193. <https://doi.org/10.1108/IMR-08-2021-0257>

DOI:

[10.1108/IMR-08-2021-0257](https://doi.org/10.1108/IMR-08-2021-0257)

Publication date:

2023

Document Version

Peer reviewed version

[Link to publication](#)

Publisher Rights

CC BY-NC

University of Bath

Alternative formats

If you require this document in an alternative format, please contact:
openaccess@bath.ac.uk

General rights

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

Take down policy

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.



The Impact of Dialectical Thinking on Androgynous Brand Equity across Cultures: The Moderating Role of Brand Positioning

Journal:	<i>International Marketing Review</i>
Manuscript ID	IMR-08-2021-0257.R2
Manuscript Type:	Original Article
Keywords:	Brand gender, Androgynous brand, Brand Equity, Brand positioning, Dialectical thinking

SCHOLARONE™
Manuscripts

1
2
3 **Design/methodology/approach** – We did two experiments with 400 Chinese consumers (high in
4 dialectical thinking) and 528 British consumers (low in dialectical thinking) to test our
5
6 framework.
7
8

9
10 **Purpose** – Our research examines the impact of cross-cultural difference in dialectical thinking
11 on consumers' responses to androgynous brands and its implication for brand equity. Our
12 research also aims to see how consumers take both feminine and masculine attributes into
13 consideration to form their judgments of androgynous brand equity and whether this process is
14 moderated by brand positioning.
15
16
17
18
19
20
21
22

23 **Findings** – Our experimental results suggest an androgynous brand has higher brand equity in
24 China than in the U.K. Furthermore, Chinese consumers rate higher feminine/masculine
25 attributes of masculine/feminine brands. In addition, an androgynous brand's equity is mainly
26 driven by its less dominant attributes. Finally, our results suggest that brand positioning
27 moderates the mediating role of less dominant attributes, more evident when brand positioning
28 matches (vs. mismatches) an androgynous brand's more dominant attributes.
29
30
31
32
33
34
35
36

37 **Originality/value** – By focusing on cross-cultural differences in dialectical thinking, our
38 research offers a novel approach to reconcile existing inconclusive results on androgynous brand
39 equity. Second, to our best knowledge, our research is the first to examine how feminine and
40 masculine attributes jointly decide androgynous brand equity. Finally, by focusing on brand
41 positioning, our research highlights the importance of an androgynous brand's less dominant
42 attributes in driving its brand equity and provides a tool international marketing managers can
43 use to strengthen such influence.
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

1. Introduction

Brand equity as a market-based intangible asset is one of the most established concepts in marketing (Lieven and Hildebrand, 2016; Chatzipanagiotou *et al.*, 2019; Christodoulides *et al.*, 2015; Zarantonello *et al.*, 2020). However, it has received limited attention in international marketing research (Chatzipanagiotou *et al.*, 2019; Christodoulides *et al.*, 2015). Lieven and Hildebrand (2016) suggest that a key source of brand equity in the global market is a brand's masculine and/or feminine personality attributes—specifically, its brand gender. Nevertheless, how to use brand gender to create positive brand equity across cultures remains unclear. The extant brand gender literature mainly focuses on masculine or feminine brands (Grohmann, 2009; Lieven *et al.*, 2014; Machado *et al.*, 2019; Pogacar *et al.*, 2021; Spielmann *et al.*, 2021). However, Tan (2016) has noted we are in the midst of a “gender revolution” where the very idea of only two genders (male and female) exists is disputable. Instead, people may identify as both male and female at one time or as different genders at different times (Richards *et al.*, 2016). Additionally, Hester *et al.* (2020) suggests the traditional “feminine” and “masculine” appearances have lost popularity in favor of more androgynous looks. This is particularly evident in East Asia, where a more androgynous appearance (e.g., a male looking soft yet manly at the same time) is preferred over traditional feminine/masculine looks (Hester *et al.*, 2020). Thus, positioning a brand as either masculine or feminine may have difficulty in appealing to the current global market.

As a result, Lieven and Hildebrand (2016) argue an androgynous brand which combines feminine attributes with masculine attributes is a viable strategy to appeal to consumers across cultures. However, research on androgynous brand equity is limited and contradictory (Grohmann, 2009; Lieven *et al.*, 2014; Lieven and Hildebrand, 2016; Van Tilburg *et al.*, 2015). On the one hand, positioning a brand as androgynous has a positive impact on brand equity because it is flexible and

1
2
3 adaptive (Lieven and Hildebrand, 2016; Van Tilburg *et al.*, 2015). On the other hand, a brand that
4 combines feminine with masculine attributes damages brand equity because it is difficult for
5 consumers to process (Grohmann, 2009; Lieven *et al.*, 2014).
6
7

8
9
10 To reconcile existing inconclusive results, the first purpose of our research was to explore the
11 impact of cultural differences in tolerance for holding apparently contradictory beliefs - dialectical
12 thinking (Peng and Nisbett, 1999) on androgynous brand equity. In particular, the first research
13 question we wanted to address is how consumers with high (vs. low) dialectical thinking judge
14 androgynous brand equity differently. To answer this question, we compared an androgynous
15 brand equity in China and the United Kingdom (UK). Peng and Nisbett (1999) proposed that
16 Chinese consumers apparently tend to accept contradictory beliefs - high dialectical thinking. In
17 contrast, British consumers tend to experience difficulties in processing contradictory information
18 - low dialectical thinking (DeMotta *et al.*, 2016). Since an androgynous brand combines feminine
19 attributes with masculine attributes, we argue Chinese consumers tend to process androgynous
20 brands more positively than British consumers because the former are more comfortable with
21 processing contradictory information than the latter (DeMotta *et al.*, 2016). Subsequently, an
22 androgynous brand has higher brand equity in China than in the UK.
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40

41 Furthermore, extant literature provides little insight into how consumers process an androgynous
42 brand's feminine and masculine attributes together to form their judgments of brand equity. Instead,
43 previous studies have mainly focused on the separate effects of feminine or masculine attributes
44 on brand equity (Grohmann, 2009; Lieven *et al.*, 2014; Van Tilburg *et al.*, 2015). This is surprising
45 given the existing brand gender literature concurs that androgynous brand equity is driven by both
46 feminine and masculine attributes (Grohmann, 2009; Lieven and Hildebrand, 2016). Thus, the
47 second aim of our research is to examine how consumers consider both feminine and masculine
48
49
50
51
52
53
54
55
56
57
58
59
60

1
2
3 attributes to form their judgments of androgynous brand equity. The second research question we
4
5 wanted to address was how consumers integrate an androgynous brand's feminine and masculine
6
7 attributes to form their judgments of brand equity. To answer this question, we used schema
8
9 congruity theory (Mandler, 1982), which argues that information perceived as schema congruent
10
11 generates limited cognitive processing. In contrast, information incongruent with schema triggers
12
13 extensive cognitive processing (Mandler, 1982). Based on this theory, we argue that an
14
15 androgynous brand's less (vs. more) dominant attributes play a stronger role in deciding its brand
16
17 equity because such attributes are arousing and stimulating (Noseworthy *et al.*, 2014).
18
19 Consequently, consumers pay more attention to these attributes and are more likely to be persuaded
20
21 by them (Noseworthy and Trudel, 2011).
22
23
24
25

26
27 If an androgynous brand equity is mainly driven by its less (vs. more) dominant features, our final
28
29 research aim is to see how international marketing managers can strengthen the influence of such
30
31 features. In particular, the final research question we wanted to address was how brand positioning
32
33 can moderate the influence of an androgynous brand's less (vs. more) dominant features on brand
34
35 equity. To answer this, we built on the literature on brand positioning and product gender (Chang,
36
37 2004; Schnurr, 2017), arguing that if an androgynous brand's positioning matches its more
38
39 dominant attributes, it strengthens the influence of less dominant attributes. This is because when
40
41 brand positioning matches the more dominant attributes, it makes the less dominant attributes even
42
43 more arousing and stimulating, thereby intensifying their influence on brand equity (Noseworthy
44
45 *et al.*, 2014). Figure 1 summarizes the conceptual framework.
46
47
48
49

50
51 [Insert Figure 1 about here]
52

53
54 To answer our research questions and achieve our research aims, we conducted two experiments
55
56 with 528 British consumers and 400 Chinese consumers. Our experimental results provide
57
58
59
60

1
2
3 convergent evidence for the proposed framework. This can extend the extant literature on several
4
5 fronts in several ways. First, by focusing on cross-cultural differences in dialectical thinking, our
6
7 research offers rare insights into how consumers' responses toward androgynous brand equity
8
9 differ across cultures. **This is particularly important for global interactive marketing where**
10
11 **user-generated content (UGC) has replaced traditional celebrity for micro-influencer**
12
13 **marketing (Wang, 2021). Our research suggests androgynous brands' UGC can target at**
14
15 **high dialectical thinking consumers (e.g. East Asian consumers). This can strengthen their**
16
17 **identification and engagement (Graham and Wilder, 2020; Puligadda *et al.*, 2021) with**
18
19 **androgynous brands, leading to increased brand equity.** Second, while previous studies mainly
20
21 focused on the separate effects of feminine or masculine attributes (Grohmann, 2009; Lieven *et*
22
23 *al.*, 2014; Van Tilburg *et al.*, 2015), to the best of our knowledge, this study is the first to examine
24
25 how feminine and masculine attributes jointly decide androgynous brand equity. We conceptualize
26
27 and empirically demonstrate that androgynous brand equity is mainly driven by less (vs. more)
28
29 dominant attributes of the brand. Therefore, when designing an androgynous brand for consumers
30
31 across cultures, international marketing managers need to focus on its less dominant attributes to
32
33 generate positive responses. **This is particularly crucial for consumers with high brand**
34
35 **schematicity because their engagement with brands focuses on brand schema (Puligadda *et***
36
37 ***al.*, 2021).** Finally, while the importance of brand positioning is widely acknowledged (Hirschman
38
39 and Holbrook, 1982; Batra and Ahtola, 1991; Voss *et al.*, 2003), to the best of our knowledge, no
40
41 research has examined how it influences consumers' perceptions of androgynous brands. Given
42
43 this, our research provides initial evidence for this issue. Our results suggest that when an
44
45 androgynous brand's positioning matches its more dominant attributes, it can intensify the
46
47 influence of less dominant attributes, leading to more positive outcomes. Thus, our research not
48
49
50
51
52
53
54
55
56
57
58
59
60

only highlights the importance of an androgynous brand's less dominant attributes in driving its brand equity, but also demonstrates how brand positioning can moderate such influence.

2. Theoretical background and hypotheses development

2.1. Androgynous brand equity

Brand equity captures the value that consumers attribute to a brand (Lieven and Hildebrand, 2016; Chatzipanagiotou *et al.*, 2019; Christodoulides *et al.*, 2015; Zarantonello *et al.*, 2020). However, it has received limited attention in international marketing research (Lieven and Hildebrand, 2016; Chatzipanagiotou *et al.*, 2019; Christodoulides *et al.*, 2015; Zarantonello *et al.*, 2020). Lieven and Hildebrand (2016) suggest that brand gender is a key factor in determining brand equity in the global market. In one of the seminal researches on brand gender, Grohmann (2009) defines the construct as “the set of human personality traits associated with masculinity and femininity applicable and relevant to brands” (p. 106). Grohmann (2009) further argues that brand gender includes two independent dimensions: masculine brand personality (MBP) and feminine brand personality (FBP). Thus, brand gender can be classified into four categories: masculine (high on masculinity and low on femininity); feminine (high on femininity and low on masculinity); androgynous (high on both dimensions); and undifferentiated (low on both dimensions) (Grohmann, 2009). Building on Grohmann's work, recent studies have demonstrated that brand gender can have a significant impact on brand equity above and beyond brand personality (Azar *et al.*, 2018; Lieven *et al.*, 2015). It also positively influences consumers' affective, attitudinal, and behavioral responses, such as the likelihood of recommending the brand (Guèvremont and

1
2
3 Grohmann, 2014); brand preferences (Lieven *et al.*, 2015); brand attitudes (Azar *et al.*, 2018); and
4 brand love (Machado *et al.*, 2019).
5
6
7

8 Nevertheless, how brand gender can be used to create positive brand equity across cultures remains
9 unclear. This is particularly evident for androgynous brands, with current limited research
10 providing contradictory results (Grohmann, 2009; Lieven *et al.*, 2014; Lieven and Hildebrand,
11 2016; Van Tilburg *et al.*, 2015). For example, both Lieven and Hildebrand (2016) and Van Tilburg
12 *et al.* (2015) argue that androgynous brands generate higher brand equity and more positive
13 consumer responses than masculine or feminine brands. Machado *et al.* (2019) and Azar *et al.*
14 (2018) find that brand equity increases with both high masculinity and high femininity attributes.
15 The superiority of androgynous brands is explained via gender schemata literature, which suggests
16 that androgynous individuals have multiple advantages such as higher adaptability to ambiguous
17 situations (Bem, 1974), greater career success, and greater attractiveness (Jackson, 1983).
18 However, Grohmann (2009) and Lieven *et al.* (2014) report that positioning a brand as
19 androgynous can have a detrimental impact on brand equity for two reasons; first: the mate
20 selection theory argues that highly prototypical male or female attributes are appealing because
21 they are perceived as good indicators of the ability to produce healthy offspring (Symons, 1979).
22 As a result, Lieven *et al.* (2014) argue that masculine or feminine brands can be easily processed
23 because of the link between masculinity/femininity and attractiveness proposed by the mate
24 selection theory. In contrast, androgynous brands have both strong masculinity and femininity
25 attributes. This reduces the clarity of positioning, making it difficult for consumers to categorize
26 (Lieven *et al.*, 2014). Second, consumers tend to associate human personality characteristics with
27 brands because they perceive brands as extensions of themselves (Belk and Costa, 1998). Gender
28 is a central part of consumers' self-concept (Grohmann, 2009). Therefore, the brand gender
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

1
2
3 literature argues that brands need to be positioned either as masculine or feminine to be congruent
4 with consumers' self-concept (e.g., Nickel *et al.* (2020); van den Hende and Mugge (2014)).
5
6 However, consumers' desire for self-congruent brands is based on the assumption that people are
7 motivated by self-consistency (van den Hende and Mugge, 2014). However, cross-cultural
8 research suggests that Chinese consumers place less value on self-congruency (Spencer-Rodgers
9 *et al.*, 2009; Boucher, 2011; English and Chen, 2007). Thus, they may consider masculine or
10 feminine brands as less appealing. Instead, they prefer androgynous brands because the
11 combination of both masculine and feminine attributes can help them adapt to different contexts
12 (DeMotta *et al.*, 2016). The next section discusses this issue in detail.
13
14
15
16
17
18
19
20
21
22
23

24 2.2. Cultural differences in dialectical thinking

25
26 Peng and Nisbett (1999) propose dialectical thinking to explain cross-cultural differences in
27 tolerance for holding apparently contradictory beliefs between East Asia and the West. According
28 to Peng and Nisbett (1999), people in East Asia (high dialectical thinking) believe the universe is
29 in a state of flux, with each element transformed into its opposite in a perceptual cycle of change.
30 In contrast, people in the West (low dialectical thinking) expect change to be more temporary and
31 linear in nature (Spencer-Rodgers *et al.*, 2010). Peng and Nisbett (1999) further argue that people
32 with high dialectical thinking expect the universe to be constantly changing, and thus they believe
33 what is true at one moment in time may not be true at another moment in time. Consequently, they
34 accept that contradiction is also constant, with good and bad coexisting in everything (Peng and
35 Nisbett, 1999). In contrast, the law of non-contradiction adopted by the Western tradition since
36 Aristotle asserts that contradictory propositions cannot be true or false at the same time. As a result,
37 opposing attributes must be analytically reconciled through formal logic (Peng and Nisbett, 1999).
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

1
2
3 Extant literature has provided robust evidence that dialectical thinking can have a profound
4 influence on people's judgment and decision-making (see Spencer-Rodgers *et al.* (2010) for a
5 review). For example, in terms of self-concept, Westerners tend to emphasize expressing and
6 consistently affirming one's unique attributes over time and across different contexts (Markus and
7 Kitayama, 1991). In contrast, East Asians place less emphasis on self-consistency because they
8 tend to endorse contradictory self-knowledge. Subsequently, their self-identities are less clearly
9 defined and vary across different situations (Spencer-Rodgers *et al.*, 2004; Spencer-Rodgers *et al.*,
10 2009; Boucher, 2011). In marketing, research has repeatedly demonstrated that consumers with
11 high (vs. low) dialectical thinking are more comfortable and more fluent in processing
12 contradictory information, such as mixed product attributes (DeMotta *et al.*, 2016; Wang *et al.*,
13 2016; Pang *et al.*, 2017); contradictory product reviews (Hwang *et al.*, 2018); and incongruent co-
14 branding personality traits (Wang *et al.*, 2020). Thus, they have more favorable attitudes and
15 higher purchase intentions (DeMotta *et al.*, 2016; Wang *et al.*, 2016; Wang *et al.*, 2020; Pang *et*
16 *al.*, 2017).

17
18
19 As discussed above, our first research question is: How do consumers with high (vs. low)
20 dialectical thinking judge androgynous brand equity differently? Building on the above literature,
21 we argue that an androgynous brand leads to higher brand equity in China (high dialectical thinking)
22 than in the UK (low dialectical thinking) for two reasons: first, an androgynous brand has both
23 strong masculinity and femininity attributes that are widely perceived as opposite concepts. As a
24 result, British consumers who endorse the law of non-contradiction find it difficult to process and
25 categorize (Lieven *et al.*, 2014). So, this reduces their judgmental confidence, leading to more
26 moderate attitudes (DeMotta *et al.*, 2016). In contrast, Chinese consumers expect contradictory
27 information to coexist and are comfortable processing it (Peng and Nisbett, 1999). This makes
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

1
2
3 them respond more positively to an androgynous brand (DeMotta *et al.*, 2016; Wang *et al.*, 2016;
4 Wang *et al.*, 2020; Pang *et al.*, 2017). Second, British consumers are motivated to self-consistency
5 across contexts (van den Hende and Mugge, 2014; Markus and Kitayama, 1991). Thus, they are
6 unlikely to find an androgynous brand appealing because its mixed masculinity and femininity
7 attributes make it difficult for them to express their identities consistently across contexts (Lieven
8 *et al.*, 2014). In contrast, Chinese consumers place less emphasis on self-consistency, but more on
9 adaptability (Spencer-Rodgers *et al.*, 2004; Spencer-Rodgers *et al.*, 2009; Boucher, 2011). Thus,
10 they find an androgynous brand appealing because the combination of masculinity and femininity
11 attributes can help them adapt to different contexts. Taken together, we predict the following:
12
13
14
15
16
17
18
19
20
21
22
23

24 **H1 (direct effect):** An androgynous brand has higher brand equity in China than in the UK.
25

26
27 However, one may argue that Chinese and British consumers respond differently to an
28 androgynous brand because of other cultural differences, such as masculinity/femininity (Hofstede,
29 2001; House *et al.*, 2004). In his cultural dimensional theory, Hofstede (2001) argues that different
30 societies differ in masculinity and femininity. In societies that value masculinity, males are
31 expected to be assertive and competitive. In contrast, in societies that value femininity, both men
32 and women need to be modest and caring (Hofstede, 2001). Similarly, in the Global Leadership
33 and Organizational Effectiveness (GLOBE) project, House *et al.* (2004) point out that different
34 cultures differ in assertiveness and humane orientation. Assertiveness focuses on the degree to
35 which societies encourage individuals to be assertive, confrontational, and aggressive (House *et*
36 *al.*, 2004). Thus, it is similar to masculinity in cultural dimensional theory (Hofstede, 2001).
37 Humane orientation refers to the degree to which societies encourage individuals to be generous,
38 kind, and caring (House *et al.*, 2004). Thus, it is similar to femininity in the cultural dimensional
39 theory (Hofstede, 2001).
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

1
2
3 Conceptually, dialectical thinking differs from masculinity/femininity (Hofstede, 2001; House *et*
4 *al.*, 2004). While dialectical thinking captures cultural differences in tolerance for holding
5
6 *al.*, 2004). While dialectical thinking captures cultural differences in tolerance for holding
7
8 apparently contradictory beliefs (Peng and Nisbett, 1999), masculinity/femininity reflects norms
9
10 and values differences across cultures (Spencer-Rodgers *et al.*, 2010). To demonstrate that H1 is
11
12 driven by cultural differences in dialectical thinking not masculinity/femininity, we provide further
13
14 hypotheses regarding how Chinese (vs. British) consumers show differences in their perceptions
15
16 of feminine/masculine attributes of a masculine/feminine brand.
17

18
19
20 Spencer-Rodgers *et al.* (2010) argue that East Asians believe the world is constantly changing, and
21
22 thus their classification systems are fuzzier with more diffuse boundaries. Additionally, East
23
24 Asians accept everything comprising contradictory elements (e.g., masculinity vs. femininity), and
25
26 thus they tend to perceive objects that belong to at least two distinct categories (Spencer-Rodgers
27
28 *et al.*, 2010). As a result, we argue that compared with British consumers, Chinese consumers tend
29
30 to give higher ratings of feminine/masculine attributes of a masculine/feminine brand because they
31
32 consider univalent information incomplete. Supporting this, Wang *et al.* (2016) find when given
33
34 univalent information, consumers with high (vs. low) dialectical thinking have more thoughts
35
36 about information opposite in valence to that presented.
37
38
39

40
41 It should be noted that these predictions cannot be explained by masculinity/femininity. In fact,
42
43 both Hofstede (2001) and House *et al.* (2004) propose that Britain has a stronger masculinity than
44
45 China. Thus, focusing on masculinity/femininity would lead to the prediction that Chinese (vs.
46
47 British) consumers would give higher ratings to feminine attributes to both masculine and feminine
48
49 brands. However, guided by principles of constant change and tolerant contradiction (Spencer-
50
51 Rodgers *et al.*, 2010), we predict that Chinese (vs. British) consumers give higher ratings to the
52
53
54
55
56
57
58
59
60

1
2
3 masculine attributes of a feminine brand and higher ratings to the feminine attributes of a
4 masculine brand. So, to formally put it:
5
6

7
8 **H2 (direct effect):** For a masculine brand, feminine attributes are rated higher in China than in the
9 UK.
10
11

12
13 **H3 (direct effect):** For a feminine brand, masculine attributes are rated higher in China than in the
14 UK.
15
16
17

18 19 *2.3. The mediation role of MBP and FBP on androgynous brand equity*

20
21

22 A key limitation of the extant literature is that it provides little insight into how consumers process
23 an androgynous brand's feminine and masculine attributes together to form their judgment of its
24 brand equity. Thus, our second research aim focuses on how consumers integrate an androgynous
25 brand's feminine and masculine attributes to form their judgments of brand equity. To achieve this
26 research aim, we focus on how Chinese (vs. British) consumers cope with the contradiction
27 between masculine and feminine brand attributes. Owing to high dialectical thinking, Chinese
28 consumers expect masculine and feminine attributes to coexist (Peng and Nisbett, 1999);
29 consequently, they use both attributes to form their judgments. British consumers will also
30 consider both masculine and feminine attributes. However, unlike Chinese consumers who accept
31 their coexistence, guided by the law of non-contradiction, British consumers integrate these
32 attributes to maintain consistency (Peng and Nisbett, 1999).
33
34
35
36
37
38
39
40
41
42
43
44
45
46

47
48 We further argue that an androgynous brand's less (vs. more) dominant attributes play a stronger
49 role in deciding its brand equity. Since different consumers may have different perceptions of the
50 same features, they may perceive an androgynous brand's one type of attribute stronger than the
51 other (e.g., masculine dominating over feminine features). Previous research suggests that
52
53
54
55
56
57
58
59
60

1
2
3 consumers consider less dominant attributes arousing and stimulating because they are not
4 congruent with the overall schema (Noseworthy *et al.*, 2014). As a result, they pay more attention
5
6 to these attributes and are more likely to be persuaded by them (Noseworthy and Trudel, 2011). In
7
8 contrast, the dominant attributes are not engaging, as they are congruent with the overall schema
9
10 (Noseworthy *et al.*, 2014; Noseworthy and Trudel, 2011). Therefore, we argue that an androgynous
11
12 brand's equity is mainly decided by how consumers form their judgment toward its less dominant
13
14 features. Thus, we present the following:
15
16
17

18
19
20 **H4 (mediation):** Androgynous brand equity is driven by both MBP and FBP, with the less
21
22 dominant attributes having a stronger indirect effect.
23
24

25 *2.4. The moderating role of brand positioning*

26
27

28 While the importance of brand positioning is widely acknowledged (Hirschman and Holbrook,
29
30 1982; Batra and Ahtola, 1991; Voss *et al.*, 2003), the mechanism by which it influences
31
32 androgynous brand equity remains unclear. Thus, our final research question is how brand
33
34 positioning moderates the influence of an androgynous brand's less (vs. more) dominant features
35
36 on its brand equity. To answer this question, we built on the literature on brand positioning and
37
38 product gender (Chang, 2004; Schnurr, 2017) that differentiates the utilitarian and hedonic benefits
39
40 of a brand. Utilitarian benefits are determined by the functions performed by products, whereas
41
42 hedonic benefits are determined by the experience of using products (Hirschman and Holbrook,
43
44 1982; Batra and Ahtola, 1991; Voss *et al.*, 2003). Advertising appeals using utilitarian and hedonic
45
46 positioning strategies are common (Chang, 2004; Johar and Sirgy, 1991). A utilitarian appeal
47
48 strategy consists of presenting attributes that highlight the functionality of the product, whereas a
49
50 hedonic appealing strategy emphasizes the self-expression and enjoyment dimensions (Johar and
51
52 Sirgy, 1991; Voss *et al.*, 2003).
53
54
55
56
57
58
59
60

1
2
3 Relating to our research, extant literature suggests that utilitarian or hedonic positioning is
4 cognitively associated with different gender stereotypes. The instrumentality dimension of
5 utilitarian products is associated with masculine traits, whereas the affectionate and empathetic
6 dimensions of hedonic products are associated with feminine traits (Chang, 2004). Schnurr (2017)
7 further suggests that feminine products are preferred when they are hedonically positioned,
8 whereas masculine products are evaluated more favorably when the products are functionally
9 positioned.

10
11 Building on previous research, we further argue that if an androgynous brand's positioning
12 matches its more dominant attributes (e.g., utilitarian positioning matches masculine features), it
13 strengthens the influence of less dominant features. This is because when brand positioning
14 matches more dominant features, it makes the less dominant attributes more arousing and
15 stimulating because they are more incongruent with the overall schema (Noseworthy *et al.*, 2014).
16 Subsequently, consumers are more likely to pay attention to these attributes and to be persuaded
17 by them (Noseworthy and Trudel, 2011). In contrast, if an androgynous brand's positioning
18 mismatches its more dominant attributes (e.g., hedonic positioning mismatches masculine
19 features), it reduces the influence of less dominant features. This is because when brand
20 positioning mismatches more dominant features, it reduces the clarity of the overall schema,
21 making less dominant attributes less arousing. Taken together, we predict that the mediating role
22 of less dominant attributes depends on brand positioning, which is more evident when brand
23 positioning matches (vs. mismatches) an androgynous brand's more dominant features.

24
25 **H5 (moderated mediation):** Brand positioning moderates the mediation of MBP and FBP on
26 brand equity (H4) such that the mediation is more evident when brand positioning matches (vs.
27 mismatches) with the more dominant attributes of an androgynous brand.

3. Research methodology

We conducted two experiments to test the proposed framework. Study 1 provides initial evidence of our framework by testing H1 through H4. Building on Study 1, Study 2 tests the moderating role of brand positioning. We adopted an experimental design because in experiments we can exert a high degree of control over the experimental environment to isolate our theoretical mechanisms (Haslam and McGarty, 2004). Additionally, experiments have high internal validity where we can manipulate a brand's masculine and feminine attributes preceding dependent variables (brand equity) to establish the direction of causal influence (Shadish *et al.*, 2001).

4. Study 1

4.1. Participants and design

Study 1 was a one-factor (brand gender: masculine vs. feminine vs. androgynous) within-subject design with the order of different brand gender randomized among different participants. In total, 150 British consumers (40% female, 49% aged 30 or above) and 151 Chinese consumers (71% female, 20% aged 30 or above) participated in Study 1. Our British samples were recruited from Amazon.com Mechanical Turk (MTurk), which is one of the biggest online platforms for recruiting participants. Finally, our Chinese samples were recruited from WeChat, one of the largest social media platforms in China.

4.2. Experimental materials

Extant literature suggests that logo shape, font style, and brand names can influence consumers' perceptions of a brand's masculine and feminine personality traits (Lieven *et al.*, 2015; Hess and Melnyk, 2016; Wu *et al.*, 2013; Klink, 2000; Childers and Jass, 2002; Shaikh, 2006). For example, angular and heavy build shapes are perceived as masculine. In contrast, round and slender build

1
2
3 shapes are perceived as feminine. Regarding font style, solid, boldface fonts are considered
4 masculine; in contrast, sleek and serif-type fonts are considered feminine. With brand names, back
5 vowels (e.g., “o”) and consonants containing stops (e.g., “b” and “k”) are perceived as masculine,
6
7 whereas front vowels (e.g., “e” and “i”) and consonants containing fricatives (e.g., “s” and “v”) are
8 perceived as feminine (Lieven *et al.*, 2015).
9

10
11
12 Guided by the extant literature, we created three fictitious gendered brands based on a combination
13 of brand shape, font style, and brand names. For example, “Bluk,” our masculine brand, has an
14 angular, heavy build logo, boldface fonts with its brand names containing back vowels (“u”) and
15 stop consonants (“b” and “k”). “Selvia,” our feminine brand, has a slender build logo, sleek and
16 serif-type fonts with its brand name containing front vowels (“e” and “i”) and fricative consonants
17 (“s” and “v”). Finally, our androgynous brand, “Seko”, has a round but heavy build logo. It
18 contains both front and back vowels (“e” and “o”) and fricative and stop consonants (“s” and “f”)
19 (Figure 2).
20
21
22
23
24
25
26
27
28
29
30
31
32

33
34 [Insert Figure 2 about here]
35
36

37 We use fictitious brands to control consumers’ existing knowledge of and attitudes toward existing
38 brands. Extant literature suggests that consumers imbue masculine and feminine personality traits
39 on different products (Lieven *et al.*, 2015; Schnurr, 2017). Thus, we choose product categories that
40 are congruent with brand gender. Specifically, we chose shaving gel for masculine brands,
41 moisturizing cream for feminine brands, and shampoo for androgynous brands.
42
43
44
45
46
47
48

49 To ensure that consumers in China and the UK do perceive the brand gender of our stimuli as
50 intended, we performed a pretest with 82 British consumers and 75 Chinese consumers. Each
51 consumer was randomly assigned to three fictitious brands. For each brand, consumers in both
52
53
54
55
56
57
58
59
60

1
2
3 countries were asked to rate their MBP (e.g., adventurous, aggressive) and FBP (e.g., fragile,
4 sensitive) based on the Grohmann scale (2009) (1 = *strongly disagree*, 7 = *strongly agree*) (MBP:
5 Cronbach's $\alpha = 0.87$; FBP: Cronbach's $\alpha = 0.90$).
6
7

8
9
10 The results showed that in both countries “Bluk” scored high on masculinity (UK: $M_{MBP} = 5.13$,
11 $SD = 0.97$; China: $M_{MBP} = 4.91$, $SD = 0.96$) and low on femininity (UK: $M_{FBP} = 2.38$, $SD = 1.32$;
12 China: $M_{FBP} = 3.35$, $SD = 1.02$). “Selvia” scored high on femininity (UK: $M_{MBP} = 5.1$, $SD = 1.01$;
13 China: $M_{MBP} = 4.55$, $SD = 0.8$) and low on masculinity (UK: $M_{FBP} = 2.81$, $SD = 1.19$; China: $M_{FBP} =$
14 3.66 , $SD = 1.04$). “Seko” scored high on masculinity (UK: $M_{MBP} = 4.26$, $SD = 0.93$; China: M_{MBP}
15 $= 4.47$, $SD = 0.92$) and high on femininity (UK: $M_{FBP} = 3.47$, $SD = 1.25$; China: $M_{FBP} = 3.73$, SD
16 $= 0.86$). Taken together, these results suggest that consumers in China and the UK perceive the
17 brand gender of our stimuli as intended. Furthermore, “Seko” has stronger masculine attributes
18 than feminine features.
19
20
21
22
23
24
25
26
27
28
29
30

31 32 *4.3 Procedures and measures*

33
34
35 Following UK national and international codes for research ethics and integrity, we first briefed
36 the participants about their rights in the research process (e.g., all data will be anonymous and
37 handled according to the Data Protection Act of 2018). We began by collecting the participants’
38 age and gender (1 = male, 2 = female) as their demographic information. Then, like the pretest,
39 each participant was assigned to our three fictitious brands in random order. For each brand,
40 participants first rated their MBP and FBP based on the Grohmann scale (2009). Sample items of
41 MBP were “adventurous”, “brave”, “sturdy”, and “aggressive” (1 = *strongly disagree*, 7 = *strongly*
42 *agree*). Sample items of FBP were “fragile”, “sensitive”, “graceful”, and “tender” (1 = *strongly*
43 *disagree*, 7 = *strongly agree*). Then, we gathered their judgments toward each brand’s equity using
44 the same from Brady *et al.* (2008). Because we used fictitious brands, the part corresponding to
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

brand loyalty was removed. Sample items in the brand equity scale were “What kind of attitude do you have about this brand?”, “What kind of image does this brand have?” (1 = *strongly disagree*, 7 = *strongly agree*, Cronbach's $\alpha = 0.81$). Finally, all participants were thanked and debriefed.

Table 1 summarizes the measures' descriptive statistics and relevant validity metrics.

[Insert Table 1 about here]

4.4 Results

To test H1, we used one-way analysis of covariance (ANCOVA) with country (UK = 0; China =1) as the independent variable; androgynous brand equity as the dependent variable; and participants' age and gender as controls. We found an androgynous brand had higher brand equity in China ($M = 5.07$, $SD = 1.11$) than in the UK ($M = 4.38$, $SD = 0.98$; $F [1, 300] = 24.85$, $p < .001$). Thus, H1 is supported. No other variables were considered significant.

For H2, we used another one-way ANCOVA with country as the independent variable, rating of the feminine attributes of the masculine brand as the dependent variable, and participants' age and gender as controls. We found that the feminine attributes of the same masculine brand were rated higher in China ($M = 3.19$, $SD = 1.35$) than in the UK ($M = 2.74$, $SD = 1.40$; $F (1, 300) = 7.74$, $p = .006$). Thus, H2 is supported. No other variables were considered significant.

To test H3, we used another one-way ANCOVA with country as the independent variable, rating of the masculine attributes of the feminine brand as the dependent variable, and participants' age and gender as controls. We found that masculine attributes of the same feminine brand were rated higher in China ($M = 3.79$, $SD = 1.23$) than in the UK ($M = 3.07$, $SD = 1.21$; $F (1, 300) = 21.87$, $p < .001$). Thus, H3 was supported. No other variables were considered significant.

1
2
3 Regarding H4, we used PROCESS macro Model 4 (with 5,000 resamples) with country (UK = 0;
4 China =1) as the independent variable, androgynous brand's MBP and FBP as the parallel
5 mediators, brand equity as the dependent variable, and participants' age and gender as controls.
6
7 We found that MBP had a significant indirect effect on androgynous brand equity ($\beta = .1619$, SE
8 $= .0483$, 95% $CI = .0736, .2634$). Notably, FBP also had a significant indirect effect on
9 androgynous brand equity ($\beta = .2239$, $SE = .0594$, 95% $CI = .1146, .3495$) (Figure 3). When
10 comparing the indirect effects of FBP and MBP (FBP-MBP), unexpectedly, the results suggest
11 that the indirect effects were not significantly different from each other ($\beta = .0620$, $SE = .0725$, 95%
12 $CI = -.0771, .2056$). Thus, H4 was partly supported.

13
14
15
16
17
18
19
20
21
22 [Insert Figure 3 about here]

23 24 25 26 27 28 *4.5 Study 1 Discussion*

29
30 Study 1 provides initial evidence for our framework; its results suggest an androgynous brand has
31 higher brand equity in China than in the UK. This further demonstrates that Chinese consumers
32 give higher ratings of feminine/masculine attributes toward a masculine/feminine brand. This
33 provides clear evidence that our results are driven by differences in dialectical thinking, not
34 masculinity/femininity. This is because focusing on masculinity/femininity would lead to the
35 prediction that Chinese (vs. British) consumers give higher ratings to feminine attributes to both
36 masculine and feminine brands—however, this is not supported by Study 1. Furthermore, Study 1
37 finds that an androgynous brand's equity is driven by both MBP and FBP. However, unexpectedly,
38 Study 1 revealed their influence did not significantly differ.

39 40 41 42 43 44 45 46 47 48 49 50 51 52 **5. Study 2**

53
54
55
56
57
58
59
60

1
2
3 Study 2 had two key purposes: First, to replicate Study 1 on a larger sample size to see whether
4 sample size causes the partial support of H4 in Study 1. Second, and more importantly, Study 2
5 tests the moderating role of brand positioning.
6
7
8
9

10 11 *5.1. Experimental design and participants*

12
13 Study 2 was a one-factor (androgynous brand positioning: match vs. mismatch dominant features)
14 between-subject design. Participants were randomly assigned to one of the two conditions.
15
16 Additionally, all participants were exposed to the same masculine and feminine brands as in Study
17
18 1. We recruited participants using the same method as in Study 1. In total, 378 British consumers
19
20 (40% female, 56% aged 30 or above) and 249 Chinese consumers (47% female, 26% aged 30 or
21
22 above) participated in Study 2.
23
24
25
26
27

28 29 *5.2. Experimental stimuli, procedures, and measures*

30
31 Our pretest results suggest our androgynous brand has stronger masculine attributes than feminine
32 attributes. Thus, in the match condition, the participants were exposed to utilitarian positioning. In
33 contrast, in the mismatch condition, the participants were exposed to hedonic positioning. Extant
34 literature suggests that utilitarian positioning focuses on functional benefits, whereas hedonic
35 positioning focuses on the experience of using products (Hirschman and Holbrook, 1982; Batra
36 and Ahtola, 1991; Voss *et al.*, 2003). So, the match condition (utilitarian positioning) emphasizes
37 the functional benefits of using shampoo such as “intensive hair repair” and “increase hair density”.
38
39 In contrast, the mismatch condition (hedonic positioning) focuses on the experience of using
40 shampoo such as “gently purifying hair” and “containing 3 nourishing oils”. A pretest with 108
41 participants from the same sample pool of Study 2 (but not in Study 2) confirms that our utilitarian
42 positioning focuses more on functional benefits than the experience of using shampoo. In contrast,
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

1
2
3 our hedonic positioning focuses more on the experience of using shampoo than on functional
4 benefits. Taken together, this suggests that our brand-positioning manipulation is successful.
5
6

7
8 The experimental procedures and measures of Study 2 are identical to Study 1.
9

10 11 5.3. Results 12

13
14 To test H1, we used one-way ANCOVA with country (UK = 0; China = 1) as the independent
15 variable, androgynous brand equity as the dependent variable, and participants' age and gender as
16 controls. We found an androgynous brand had higher brand equity in China ($M = 5.63$, $SD = 1.07$)
17 than in the UK ($M = 4.59$, $SD = 1.07$; $F(1, 626) = 135.85$, $p < .001$). Thus, H1 is supported. No
18 other variables were considered significant.
19
20
21
22
23
24

25
26 To test H2, we used another one-way ANCOVA with country as the independent variable, rating
27 of the feminine attributes of a masculine brand as the dependent variable, and participants' age
28 and gender as controls. We found the feminine attributes of the same masculine brand were rated
29 higher in China ($M = 3.88$, $SD = 0.97$) than in the UK ($M = 3.19$, $SD = 1.31$; $F[1, 626] = 73.12$, p
30 $< .001$). Thus, H2 is supported. No other variables were considered significant.
31
32
33
34
35
36
37

38
39 For H3, we used another one-way ANCOVA with country as the independent variable, rating of
40 the masculine attributes of a feminine brand as the dependent variable, and participants' age and
41 gender as controls. We found masculine attributes of the same feminine brand were rated higher
42 in China ($M = 4.07$, $SD = 0.58$) than in the UK ($M = 3.71$, $SD = 0.94$; $F(1, 626) = 21.32$, $p < .001$).
43 Thus, H3 was supported. No other variables were considered significant.
44
45
46
47
48
49

50
51 Regarding H4, we used PROCESS macro Model 4 (with 5,000 resamples) with country (UK = 0;
52 China = 1) as the independent variable, androgynous brand's MBP and FBP as the parallel
53 mediators, brand equity as the dependent variable, and participants' age and gender as controls.
54
55
56
57
58
59
60

We found that MBP had a significant indirect effect on androgynous brand equity ($\beta = .0244$, $SE = .0134$, 95% $CI = .0002, .0523$). Also, FBP had a significant indirect effect on androgynous brand equity ($\beta = .4113$, $SE = .0439$, 95% $CI = .3303, .5018$) (Figure 4). When comparing the indirect effects of FBP and MBP (FBP-MBP), the indirect effect of FBP was significantly stronger than the indirect effect of MBP ($\beta = .3869$, $SE = .0479$, 95% $CI = .2963, .4838$). Thus, H4 is supported.

[Insert Figure 4 about here]

To test H5, we used PROCESS macro Model 7 (with 5,000 resamples) with country (UK = 0; China = 1) as the independent variable, the androgynous brand's FBP as the mediator, its brand equity as the dependent variable, and brand positioning as the moderator. We found that when brand positioning mismatched more dominant features, FBP had a significant indirect effect on androgynous brand equity ($\beta = .4104$, $SE = .0633$, 95% $CI = .2941, .5406$). When brand positioning matched more dominant features, FBP also had a significant indirect effect on androgynous brand equity ($\beta = .5794$, $SE = .0741$, 95% $CI = .4412, .7347$). We calculated the index of moderated mediation, which was significant ($\beta = .1690$, $SE = .0767$, 95% $CI = .0212, .3201$). Taken together, these results support Hypothesis H5.

5.4. Study 2 discussion

Similar to Study 1, Study 2 results suggest an androgynous brand has higher brand equity in China than in the UK. This further demonstrates that Chinese consumers give higher ratings of feminine/masculine attributes toward a masculine/feminine brand, suggesting that our results are driven by differences in dialectical thinking, not masculinity/femininity. Additionally, Study 2 finds that an androgynous brand's equity is driven by both MBP and FBP, with the less dominant attributes (FBP) having a stronger influence. Finally, Study 2 suggests that brand positioning

1
2
3 moderates the mediation role of less dominant features, which is more evident when brand
4 positioning matches (vs. mismatches) an androgynous brand's more dominant features.
5
6

7 8 **6. General discussion** 9

10
11 By focusing on cross-cultural differences in dialectical thinking, our first aim was to compare
12 Chinese (vs. British) consumers' responses to androgynous brands and their implications for
13 androgynous brand equity across cultures. Our two experiments jointly suggest that an
14 androgynous brand has higher brand equity in China than in the UK. This is because compared
15 with British consumers, Chinese consumers are more comfortable processing contradictory
16 information and place more emphasis on adaptability (Peng and Nisbett, 1999). Our results also
17 suggest that Chinese (vs. British) consumers give higher ratings of feminine/masculine attributes
18 to a masculine/feminine brand, suggesting that our results are driven by differences in dialectical
19 thinking, not masculinity/femininity.
20
21
22
23
24
25
26
27
28
29
30
31

32
33 The second and third aims of our research focused on how consumers consider both feminine and
34 masculine attributes to form their judgments of androgynous brand equity and whether this process
35 is moderated by brand positioning. Our results demonstrate that an androgynous brand's equity is
36 driven by both MBP and FBP, with the less dominant attributes having a stronger influence. Study
37 2 further suggests brand positioning moderates the mediation role of less dominant features, which
38 is more evident when brand positioning matches (vs. mismatches) an androgynous brand's more
39 dominant features. These results have important implications for both theory and practice.
40
41
42
43
44
45
46
47
48

49 *6.1. Implications for theory* 50

51
52 Our research makes the following important contributions to the extant literature. First, brand
53 equity as a market-based intangible asset has received limited attention in international marketing
54
55
56
57
58
59
60

1
2
3 research (Chatzipanagiotou *et al.*, 2019; Christodoulides *et al.*, 2015). Lieven and Hildebrand
4
5 (2016) suggest that brand gender is a key source of brand equity in the global market. Nevertheless,
6
7 how to use brand gender to create positive brand equity across cultures remains unclear. This is
8
9 particularly evident among research on androgynous brands, with current limited research
10
11 providing contradictory results (Grohmann, 2009; Lieven *et al.*, 2014; Lieven and Hildebrand,
12
13 2016; Van Tilburg *et al.*, 2015). Building on and extending Lieven and Hildebrand (2016), our
14
15 research demonstrates cross-cultural differences toward an androgynous brand, which is more
16
17 positive among consumers with high (vs. low) dialectical thinking. Thus, our research offers rare
18
19 insights about cross-cultural differences toward an androgynous brand and its relevant implications
20
21 for its brand equity. **This is particularly important for global interactive marketing where**
22
23 **user-generated content (UGC) has replaced traditional celebrity for micro-influencer**
24
25 **marketing (Wang, 2021). Our research suggests androgynous brands' UGC can target at**
26
27 **high dialectical thinking consumers (e.g. East Asian consumers). This can strengthen their**
28
29 **identification and engagement (Graham and Wilder, 2020; Puligadda *et al.*, 2021) with**
30
31 **androgynous brands, leading to increased brand equity.**
32
33
34
35
36
37

38
39 Second, previous studies have mainly focused on the separate effects of feminine or masculine
40
41 attributes on androgynous brand equity (Grohmann, 2009; Lieven *et al.*, 2014; Van Tilburg *et al.*,
42
43 2015). What remains unclear is how consumers process an androgynous brand's feminine and
44
45 masculine attributes together to form their judgments of brand equity. Based on the schema
46
47 congruity effect (Mandler, 1982), we conceptualized and empirically demonstrated that
48
49 androgynous brand equity is mainly driven by less (vs. more) dominant attributes of the brand
50
51 because such attributes are arousing and stimulating (Noseworthy *et al.*, 2014). As a result,
52
53 consumers pay more attention to these attributes and are more likely to be persuaded by them
54
55
56
57
58
59
60

(Noseworthy and Trudel, 2011). Hence, our research provides initial evidence of how an androgynous brand's feminine and masculine attributes jointly decide its brand equity. **This is particularly crucial for consumers with high brand schematicity because their engagement with brands focuses on brand schema (Puligadda *et al.*, 2021).**

Finally, while the importance of brand positioning is widely acknowledged (Hirschman and Holbrook, 1982; Batra and Ahtola, 1991; Voss *et al.*, 2003), to the best of our knowledge, no research has examined how it influences consumers' perceptions of androgynous brands. Therefore, our study is the first to focus on this issue. Our results suggest that when an androgynous brand's positioning matches its more dominant attributes, it can intensify the influence of less dominant attributes, leading to more positive outcomes. Finally, our research not only highlights the importance of an androgynous brand's less dominant attributes in driving its brand equity, but also demonstrates how brand positioning can moderate such influence.

6.2. *Implications for practice*

Our research also has three important implications for international marketing managers. First, in terms of the target market of androgynous brands, our results suggest that Chinese (vs. British) consumers respond more positively to an androgynous brand. Therefore, international marketing managers can target consumers with high dialectical thinking (e.g., consumers in East Asia) to generate more positive outcomes. **In particular, androgynous brands' UGC can target at East Asian consumers to strengthen their identification and engagement with the focal brands.**

Second, regarding androgynous brand design, an androgynous brand's equity is mainly driven by less dominant attributes. So, when designing an androgynous brand, international marketing managers should focus on their less dominant attributes to see how they can be designed to attract consumers across cultures. Third, for brand positioning, our research suggests that when an

1
2
3 androgynous brand's positioning matches its more dominant attributes, it can intensify the
4 influence of less dominant attributes, leading to more positive outcomes. Thus, our research
5 provides a practical tool that international marketing managers can use to strengthen the influence
6 of an androgynous brand's less dominant attributes.
7
8
9
10
11

12 13 *6.3. Limitations and future research* 14 15

16 Although our research has important theoretical and practical implications, it has limitations. First,
17 we only used fictitious brands to control consumers' existing attitudes toward and knowledge of
18 real brands. Accordingly, future research can replicate our studies using real brands as stimuli to
19 test the robustness of our framework. Second, Grohmann (2009) classifies brand gender into
20 masculine, feminine, androgynous, and undifferentiated. While androgynous brands have strong
21 masculine and feminine attributes, undifferentiated brands lack both. Thus, whether cultural
22 differences influence undifferentiated brand equity awaits future research. Third, in our research,
23 we focused only on China and the UK; notably, they differ in terms of both dialectical thinking
24 and masculinity/femininity. Although we have empirically ruled out the influence of
25 masculinity/femininity, future research can test our framework in other countries to compare the
26 influence of dialectical thinking and masculinity/femininity on brand equity. Finally, a promising
27 area which awaits future research is the examination of the joint impact of different cultural
28 dimensions (e.g., masculinity/femininity + power distance) on consumers' responses to gendered
29 brands. This can provide a rich understanding of the impact of cultural differences on brand equity.
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

References

- Azar, S.L., Aimé, I. and Ulrich, I. (2018). "Brand gender-bending". *European Journal of Marketing*, Vol. 52 No. 7/8, pp.1598-1624, DOI: 10.1108/EJM-04-2017-0278.
- Batra, R. and Ahtola, O.T. (1991). "Measuring the hedonic and utilitarian sources of consumer attitudes". *Marketing Letters*, Vol., 2 No. 2, pp.159-170, DOI: 10.1007/BF00436035.
- Belk, R.W. and Costa, J.A. (1998). "The mountain man myth: a contemporary consuming fantasy". *Journal of Consumer Research*, Vol. 25 No. 3, pp.218-240, DOI: 10.1086/209536.
- Bem, S.L. (1974). "The measurement of psychological androgyny". *Journal of Consulting and Clinical Psychology*, Vol. 42 No. 2, pp.155-162, DOI: 10.1037/h0036215.
- Boucher, H.C. (2011). "The dialectical Self-Concept II: cross-role and within-role consistency, well-being, self-certainty, and authenticity". *Journal of Cross-Cultural Psychology*, Vol. 42 No. 7, pp.1251-1271, DOI: 10.1177/0022022110383316.
- Brady, M.K., Cronin, J.J., Fox, G.L. and Roehm, M.L. (2008). "Strategies to offset performance failures: the role of brand equity". *Journal of Retailing*, Vol. 84 No. 2, pp.151-164, DOI: <https://doi.org/10.1016/j.jretai.2008.04.002>.
- Chang, C. (2004). "How mood and ad-self-congruency affect the relative influence of hedonic ad appeals and utilitarian ad appeals on product evaluations". *Advances in Consumer Research*, Vol. 31, pp.721-727.
- Chatzipanagiotou, K., Christodoulides, G. and Veloutsou, C. (2019). "Managing the consumer-based brand equity process: a cross-cultural perspective". *International Business Review*, Vol. 28 No. 2, pp.328-343, DOI: <https://doi.org/10.1016/j.ibusrev.2018.10.005>.
- Childers, T.L. and Jass, J. (2002). "All dressed up with something to say: effects of typeface semantic associations on brand perceptions and consumer memory". *Journal of Consumer*

1
2
3 *Psychology*, Vol. 12 No 2, pp.93-106, DOI:
4
5 https://doi.org/10.1207/S15327663JCP1202_03.
6

7
8 Christodoulides, G., Cadogan, J.W. and Veloutsou, C. (2015). "Consumer-based brand equity
9 measurement: lessons learned from an international study". *International Marketing*
10 *Review*, Vol. 32 No. 3/4, pp.307-328, DOI: 10.1108/IMR-10-2013-0242.
11
12

13
14 Demotta, Y., Chao, M. C.-H. and Kramer, T. (2016). "The effect of dialectical thinking on the
15 integration of contradictory information". *Journal of Consumer Psychology*, Vol. 26 No.
16 1, pp.40-52, DOI: <https://doi.org/10.1016/j.jcps.2015.03.001>.
17
18
19

20
21 English, T. and Chen, S. (2007). "Culture and self-concept stability: consistency across and within
22 contexts among Asian Americans and European Americans". *Journal of Personality and*
23 *Social Psychology*, Vol. 93 No. 3, pp.478-490, DOI: 10.1037/0022-3514.93.3.478.
24
25
26

27
28 Graham, K.W. and Wilder, K.M. (2020), "Consumer-brand identity and online advertising
29 message elaboration: Effect on attitudes, purchase intent and willingness to share", *Journal*
30 *of Research in Interactive Marketing*, Vol. 14 No. 1, pp.111-132, DOI:
31 <https://doi.org/10.1108/JRIM-01-2019-0011>
32
33
34
35

36
37 Grohmann, B. (2009). "Gender dimensions of brand personality". *Journal of Marketing Research*,
38 Vol. 46 No. 1, pp.105-119, DOI: 10.1509/jmkr.46.1.105.
39
40

41
42 Guèvremont, A. and Grohmann, B. (2014). "Can good news be bad? The role of brand
43 communication strategy and brand commitment in the announcement of product
44 improvements". *Journal of Marketing Communications*, Vol. 20 No. 5, pp.352-365, DOI:
45 10.1080/13527266.2012.699459.
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

- 1
2
3 Haslam, S.A. and McGarty, C. (2004). "Experimental design and causality in social psychological
4 research", Sansome, C., Morf, C.C. and PANTER, A.T. (Eds.) *The SAGE Handbook of*
5
6 *Methods in Social Psychology*, Thousand Oaks, London, New Delhi: SAGE Publications.
7
8
9
10 Hess, A.C. and Melnyk, V. (2016). "Pink or blue? The impact of gender cues on brand perceptions".
11
12 *European Journal of Marketing*, Vol. 50 No. 9/10, pp.1550-1574, DOI: 10.1108/EJM-11-
13
14 2014-0723.
15
16
17 Hester, N., Jones, B.C. and Hehman, E. (2020). "Perceived femininity and masculinity contribute
18
19 independently to facial impressions". *Journal of Experimental Psychology: General*, No
20
21 Pagination Specified, DOI: 10.1037/xge0000989.
22
23
24 Hirschman, E.C. and Holbrook, M.B. (1982). "Hedonic consumption: emerging concepts, methods
25
26 and propositions". *Journal of Marketing*, Vol. 46 No. 3, pp.92-101 DOI:
27
28 10.1177/002224298204600314.
29
30
31 Hofstede, G. (2001). *Culture's Consequences: Comparing Values, Behaviors, Institutions, and*
32
33 *Organizations Across Nations, 2nd ed.* Sage, Thousand Oaks, CA, Sage Publications.
34
35
36 House, R.J., Hanges, P.J., Javidan, M., Dorfman, P.W. and Gupta, V. (2004). *Culture, Leadership,*
37
38 *and Organizations - The GLOBE Study of 62 Societies*, Thousand Oaks, CA, Sage
39
40 Publishing.
41
42
43 Hwang, Y., Choi, S. and Mattila, A.S. (2018). "The role of dialecticism and reviewer expertise in
44
45 consumer responses to mixed reviews". *International Journal of Hospitality Management*,
46
47 Vol. pp.49-55, DOI: <https://doi.org/10.1016/j.ijhm.2017.10.009>.
48
49
50 Jackson, L.A. (1983). "The perception of androgyny and physical attractiveness: two is better than
51
52 one". *Personality and Social Psychology Bulletin*, Vol. 9 No. 3, pp.405-413, DOI:
53
54 10.1177/0146167283093011.
55
56
57
58
59
60

- 1
2
3 Johar, J.S. and Sirgy, M.J. (1991). "Value-expressive versus utilitarian advertising appeals: when
4 and why to use which appeal". *Journal of Advertising*, Vol. 20 No. 3, pp.23-33, DOI:
5
6 10.1080/00913367.1991.10673345.
7
8
9
- 10 Klink, R.R. (2000). "Creating brand names with meaning: the use of sound symbolism". *Marketing*
11
12 *Letters*, Vol. 11 No. 1, pp.5-20, DOI: 10.1023/A:1008184423824.
13
14
- 15 Lieven, T., Grohmann, B., Herrmann, A., Landwehr, J.R. and Van Tilburg, M. (2014). "The effect
16 of brand gender on brand equity". *Psychology & Marketing*, Vol. 31 No. 5, pp.371-385
17
18 DOI: <https://doi.org/10.1002/mar.20701>.
19
20
- 21 Lieven, T., Grohmann, B., Herrmann, A., Landwehr, J.R. and Van Tilburg, M. (2015). "The effect
22 of brand design on brand gender perceptions and brand preference". *European Journal of*
23
24 *Marketing*, Vol. 49 No. 1/2, pp.146-169, DOI: 10.1108/EJM-08-2012-0456.
25
26
27
- 28 Lieven, T. and Hildebrand, C. (2016). "The impact of brand gender on brand equity". *International*
29
30 *Marketing Review*, Vol. 33 No. 2, pp.178-195, DOI: 10.1108/IMR-08-2014-0276.
31
32
- 33 Machado, J.C., Vacas-De-Carvalho, L., Azar, S.L., André, A.R. and Dos Santos, B.P. (2019).
34
35 "Brand gender and consumer-based brand equity on Facebook: the mediating role of
36 consumer-brand engagement and brand love". *Journal of Business Research*, Vol. 96,
37
38 pp.376-385, DOI: <https://doi.org/10.1016/j.jbusres.2018.07.016>.
39
40
41
- 42 Mandler, G. (1982). "The Structure of Value: Accounting for Taste", Clark, M.S.F., S.T. (Eds.)
43
44 (ed.) *Affect and Cognition: The 17th Annual Carnegie Symposium*. Hillsdale, NJ: Lawrence
45
46 Erlbaum Associates.
47
48
- 49 Markus, H.R. and Kitayama, S. (1991). "Culture and the self: implications for cognition, emotion,
50
51 and motivation". *Psychological Review*, Vol. 98 No. 2, pp.224-253, DOI: 10.1037/0033-
52
53 295X.98.2.224.
54
55
56
57
58
59
60

- 1
2
3 Nickel, K., Orth, U.R. and Kumar, M. (2020). "Designing for the genders: the role of visual
4 harmony". *International Journal of Research in Marketing*, Vol. 37 No. 4, pp.697-713,
5
6 DOI: <https://doi.org/10.1016/j.ijresmar.2020.02.006>.
7
8
9
10 Noseworthy, T.J., Di Muro, F. and Murray, K.B. (2014). "The role of arousal in congruity-based
11 product evaluation". *Journal of Consumer Research*, Vol. 41 No. 4, pp.1108-1126, DOI:
12
13 10.1086/678301.
14
15
16
17 Noseworthy, T.J. and Trudel, R. (2011). "Looks interesting, but what does it do? Evaluation of
18 incongruent product form depends on positioning". *Journal of Marketing Research*, Vol.
19
20 48 No. 6, pp.1008-1019, DOI: 10.1509/jmr.10.0384.
21
22
23
24 Pang, J., Keh, H.T., Li, X. and Maheswaran, D. (2017). "'Every coin has two sides': The effects of
25 dialectical thinking and attitudinal ambivalence on psychological discomfort and consumer
26 choice". *Journal of Consumer Psychology*, Vol. 27 No. 2, pp.218-230, DOI:
27
28 <https://doi.org/10.1016/j.jcps.2016.10.001>.
29
30
31
32
33 Peng, K. and Nisbett, R.E. (1999). "Culture, dialectics, and reasoning about contradiction".
34
35 *American Psychologist*, Vol. 54 No. 9, pp.741-754.
36
37
38 Pogacar, R., Angle, J., Lowrey, T.M., Shrum, L.J. and Kardes, F.R. (2021). 'Is Nestlé a lady? The
39 feminine brand name advantage". *Journal of Marketing*, 0022242921993060, DOI:
40
41 10.1177/0022242921993060.
42
43
44
45 Puligadda, S., Coyle, J.R. and Ni, J. (2021), "Are you engaged? The influence of brand
46 schematicity on online brand engagement and brand purchase", *Journal of Research in*
47
48 *Interactive Marketing*, Vol. 15 No. 4, pp.709-728, DOI: [https://doi.org/10.1108/JRIM-09-](https://doi.org/10.1108/JRIM-09-2019-0149)
49
50 2019-0149
51
52
53
54
55
56
57
58
59
60

- 1
2
3 Richards, C., Bouman, W.P., Seal, L., Barker, M.J., Nieder, T.O. and T'sjoen, G. (2016). "Non-
4 binary or genderqueer genders". *International Review of Psychiatry*, Vol. 28 No. 1, pp.95-
5
6 102, DOI: 10.3109/09540261.2015.1106446.
7
8
9
10 Schnurr, B. (2017). "The impact of atypical product design on consumer product and brand
11 perception". *Journal of Brand Management*, Vol. 24 No. 6, pp.609-621, DOI:
12
13 10.1057/s41262-017-0059-z.
14
15
16
17 Shadish, W.R., Cook, T.D. and Campbell, D.T. (2001). *Experimental and Quasi-Experimental*
18
19 *Designs for Generalized Causal Inference*, Boston, Houghton Mifflin.
20
21
22 Shaikh, A.D.C., Barbara S. and Fox, D. (2006). "Perception of fonts: perceived personality traits
23 and uses". *Usability News*, Vol 8. No. 1.
24
25
26 Spencer-Rodgers, J., Boucher, H.C., Mori, S.C., Lei, W. and Kaiping, P. (2009). "The dialectical
27 self-concept: contradiction, change, and holism in East Asian cultures". *Personality and*
28
29 *Social Psychology Bulletin*, Vol. 35 No. 1, pp.29-44, DOI: 10.1177/0146167208325772.
30
31
32
33 Spencer-Rodgers, J., Peng, K., Wang, L. and Hou, Y. (2004). "Dialectical self-esteem and East-
34 West differences in psychological well-being". *Personality and Social Psychology Bulletin*,
35
36 Vol. 30 No. 11, pp.1416-1432, DOI: 10.1177/0146167204264243.
37
38
39
40 Spencer-Rodgers, J., Williams, M. J. and Peng, K. (2010). "Cultural differences in expectations of
41 change and tolerance for contradiction: a decade of empirical research". *Personality and*
42
43 *Social Psychology Review*, Vol. 14 No. 3, pp. 296-312, DOI: 10.1177/1088868310362982.
44
45
46
47 Spielmann, N., Dobscha, S. and Lowrey, T.M. (2021). "Real Men Don't Buy 'Mrs. Clean': Gender
48 Bias in Gendered Brands". *Journal of the Association for Consumer Research*, Vol. 6 No.
49
50 2, pp.211-222, DOI: 10.1086/713188.
51
52
53
54 Symons, D. (1979). *The Evolution of Human Sexuality*, New York, Oxford University Press.
55
56
57
58
59
60

- 1
2
3 Tan, A. 2016. *Merriam-Webster Adds 'Genderqueer,' 'Genderfluid' and Gender-Neutral Title 'Mx'*
4 *to Dictionary* [Online]. abcNEWS. Available at: [https://abcnews.go.com/US/merriam-](https://abcnews.go.com/US/merriam-webster-adds-genderqueer-genderfluid-genderneutral-title/story?id=38675250)
5 [webster-adds-genderqueer-genderfluid-genderneutral-title/story?id=38675250](https://abcnews.go.com/US/merriam-webster-adds-genderqueer-genderfluid-genderneutral-title/story?id=38675250) [Accessed
6 6th February 2022].
7
8
9
10
11
12 Van Den Hende, E.A. and Mugge, R. (2014). "Investigating gender-schema congruity effects on
13 consumers' evaluation of anthropomorphized products". *Psychology & Marketing*, Vol. 31
14 No. 4, pp.264-277, DOI: <https://doi.org/10.1002/mar.20693>.
15
16
17
18
19 Van Tilburg, M., Lieven, T., Herrmann, A. and Townsend, C. (2015). "Beyond 'pink it and shrink
20 it' perceived product gender, aesthetics, and product evaluation". *Psychology & Marketing*,
21 Vol. 32 No. 4, pp.422-437, DOI: <https://doi.org/10.1002/mar.20789>.
22
23
24
25
26 Voss, K.E., Spangenberg, E.R. and Grohmann, B. (2003). "Measuring the hedonic and utilitarian
27 dimensions of consumer attitude". *Journal of Marketing Research*, Vol. 40 No. 3, pp.310-
28 320, DOI: 10.1509/jmkr.40.3.310.19238.
29
30
31
32
33 Wang, C.L. (2021), "New frontiers and future directions in interactive marketing: Inaugural
34 Editorial", *Journal of Research in Interactive Marketing*, Vol. 15 No. 1, pp.1-9., DOI:
35 <https://doi.org/10.1108/JRIM-03-2021-270>
36
37
38
39
40 Wang, H., Batra, R. and Chen, Z. (2016). "The moderating role of dialecticism in consumer
41 responses to product information". *Journal of Consumer Psychology*, Vol. 26 No. 3,
42 pp.381-394, DOI: <https://doi.org/10.1016/j.jcps.2015.10.003>.
43
44
45
46
47 Wang, W., Chen, C.-H.S., Nguyen, B. and Shukla, P. (2020). "Collaboration between East and
48 West: influence of consumer dialectical self on attitude towards co-brand personality traits".
49 *International Marketing Review*, Vol. 37 No. 6, pp.1155-1180, DOI: 10.1108/IMR-01-
50 2019-0012.
51
52
53
54
55
56
57
58
59
60

1
2
3 Wu, L., Klink, R.R. and Guo, J. (2013). "Creating gender brand personality with brand names: the
4 effects of phonetic symbolism". *Journal of Marketing Theory and Practice*, Vol. 21 No. 3,
5 pp.319-330, DOI: 10.2753/MTP1069-6679210306.
6
7
8

9
10 Zarantonello, L., Grappi, S., Formisano, M. and Brakus, J. (2020). "How consumer-based
11 brandequity relates to market share of global and local brands in developed and emerging
12 countries". *International Marketing Review*, Vol. 37 No. 2, pp.345-375, DOI:
13
14
15
16
17 10.1108/IMR-05-2018-0176.
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

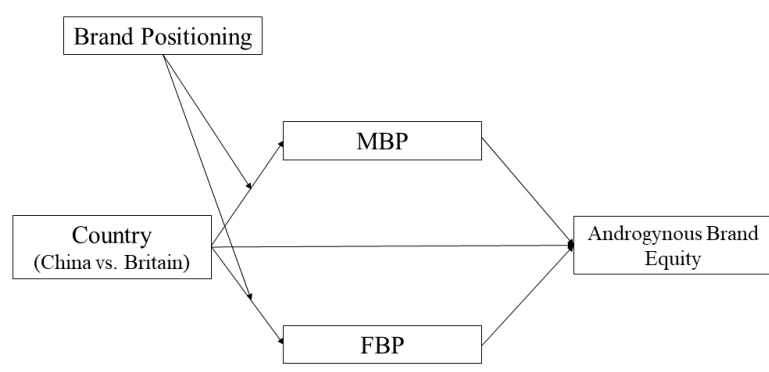


Figure 1. Theoretical framework

855x481mm (38 x 38 DPI)



Figure 2. Fictitious brands. Masculine, feminine, and androgynous brands from left to right

96x38mm (220 x 220 DPI)

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

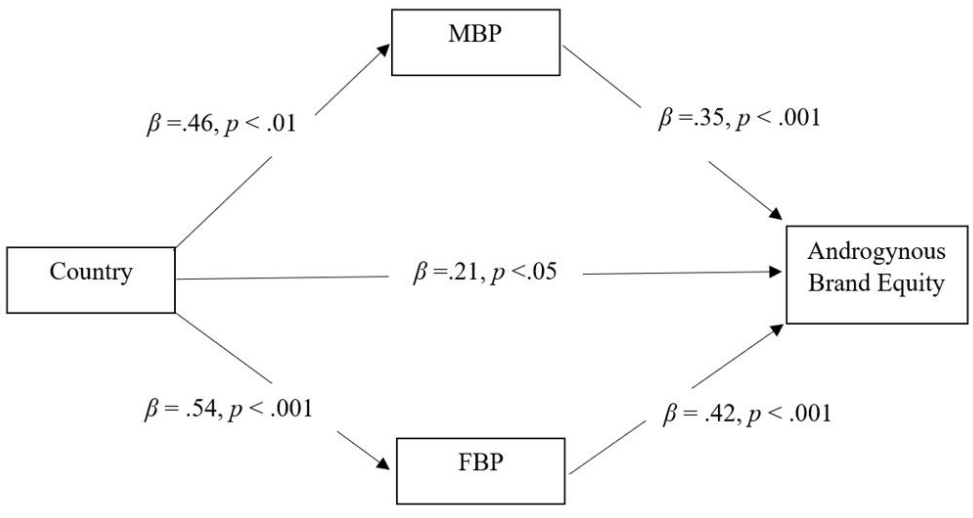


Figure 3. Mediating effect of MBP and FBP on androgynous brand equity (Study 1)

270x148mm (96 x 96 DPI)

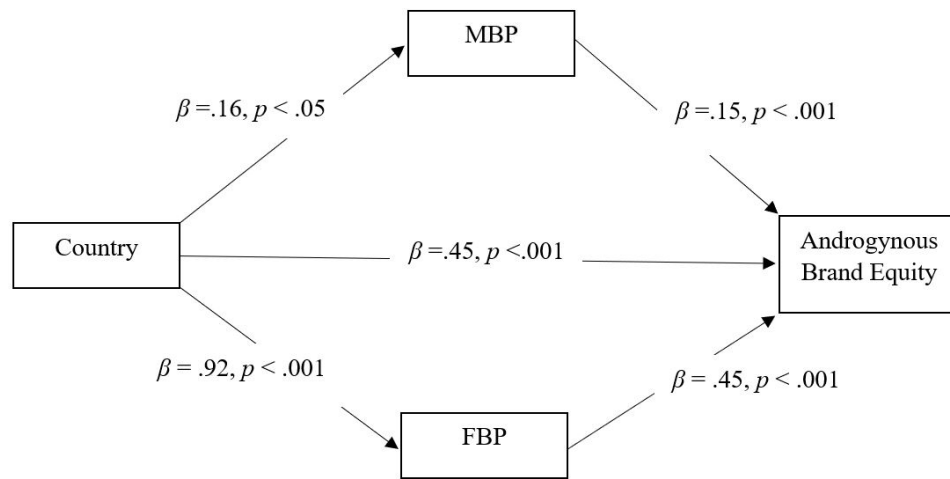


Figure 4. Mediating effect of MBP and FBP on androgynous brand equity (Study 2)

300x156mm (96 x 96 DPI)

	Construct	Mean	Standard Deviation	Cronbach's <i>a</i>	Loading range	AVE
Study 1	MBP masculine	5.18	0.88	0.71	0.85-0.91	0.77
	FBP masculine	2.98	1.38	0.89	0.74-0.91	0.75
	Brand equity masculine	4.72	1.06	0.84	0.80-0.87	0.68
	MBP feminine	3.39	1.23	0.70	0.69-0.84	0.62
	FBP feminine	5.05	0.80	0.81	0.68-0.85	0.62
	Brand equity feminine	4.92	1.02	0.85	0.77-0.86	0.69
	MBP androgynous	4.48	1.05	0.71	0.58-0.90	0.64
	FBP androgynous	3.82	1.20	0.75	0.68-0.83	0.57
	Brand equity androgynous	4.73	1.10	0.88	0.79-0.89	0.74
Study 2	MBP masculine	4.58	0.96	0.75	0.63-0.83	0.54
	FBP masculine	3.46	1.24	0.77	0.56-0.87	0.62
	Brand equity masculine	4.59	1.27	0.91	0.88-0.93	0.81
	MBP feminine	3.48	1.31	0.74	0.86-0.92	0.79
	FBP feminine	4.23	1.11	0.85	0.89-0.93	0.87
	Brand equity feminine	4.68	1.24	0.88	0.75-0.89	0.73
	MBP androgynous	4.16	1.27	0.78	0.70-0.94	0.69
	FBP androgynous	3.98	1.36	0.72	0.58-0.81	0.55
	Brand equity androgynous	5.01	1.19	0.77	0.64-0.88	0.59
Note:	MBP = masculine brand personality FBP = feminine brand personality					

Table 1. Descriptive statistics of brand gender