Gender Identity in Consumer Behavior Research: A Literature Review and Research Agenda

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EXECUTIVE SUMMARY

Consumer researchers have been examining the impact of gender identity—the degree to which an individual identifies with masculine and feminine personality traits—on various consumer variables for nearly four decades. However, significant gender identity findings in consumer research have been rare, perhaps because of (1) operationalization problems (Palan, Kiecker, and Areni 1999), (2) inappropriate interpretation and application of gender identity to consumer variables (Gould 1996), or (3) blurring gender categories (Firat 1993). This paper presents a thorough review, grounded in theoretical models of gender identity, of consumer behavior studies in the marketing literature that have examined gender identity. Based on the literature review, the paper evaluates whether gender identity research is still warranted, and proposes specific research questions to guide future research.

Terminology in Gender Identity Research

Several different terms have been used over the course of gender identity research to signify gender identity. This creates confusion about what is being studied. This review only includes studies that have specifically examined the degree to which an individual identifies him- or herself with masculine and feminine personality traits. The term "gender identity" is used throughout the paper to refer to this definition, regardless of what it might have been called in previous studies.

Theoretical Background of Gender Identity

Gender identity is considered to be a two-dimensional model, with masculine traits comprising one dimension, and feminine traits the other. Psychologists believe that varying degrees of these traits coexist within an individual (Gill et al. 1987). Two instruments, created in the mid-1970s, have dominated gender identity research, the Bem Sex Role Inventory (BSRI) and the Personal Attributes Questionnaire (PAQ). With either instrument, individuals can be categorized according to which set of gendered traits they primarily identify with.

There are two competing gender identity theories impacting the conceptualization of consumer research. Bem's (1981a) gender schema theory posits that individuals acquire and display traits, attitudes, and behaviors consistent with their gender identity, so gender identity is predictive of broad gender-related constructs. Spence (1984) posits that gender identity is multifactorial with gendered traits constituting but one factor; therefore, gender identity is predictive only of situations in which gendered traits are likely to have impact. If one wants to understand other gender constructs, e.g., gender role attitudes, a measure specific to that construct would have to be used.

Related to these theories is gender salience, the idea that a gender-related self-concept has to be activated in order for gender identity to be meaningful in a particular context.

Gender Identity Studies in Consumer Behavior

Thirty-one studies, dating from 1963-2001 are included in the literature review. Gender identity has been significantly linked to several different consumer variables (e.g., leisure activities, sex-role portrayals, shopping behavior), but biological sex was often significant when gender identity was not. Gender identity was more likely to be significant when studies were carefully conceptualized.

Theoretical Foundations of Gender Identity Studies in Consumer Behavior

Studies were categorized with respect to three theoretical issues: (1) the consistency of gender identity conceptualization/operationalization with either gender schema theory (GST) or multifactorial gender identity theory (MGIT); (2) the relevance of gendered traits to study; and (3) the recognition that gender identity is variable, dependent on salience. A majority of the studies was consistent with MGIT; further, studies consistent with MGIT more often produced significant gender identity findings than those consistent with GST. Studies where gender identity was judged to be irrelevant to the other study variables reported biological sex to be a more significant predictor than gender identity. Only three studies recognized that identification of gendered traits could vary in different situations.

Enthusiasm or Skepticism for Gender Identity?

Despite the fact that many studies failed to find significant relationships, when studies carefully conceptualize gender identity (i.e., as consistent with MGIT and as being relevant), the construct does provide meaningful insights into consumer behavior. Consequently, the paper concludes that enthusiasm for gender identity research is warranted.

FUTURE RESEARCH DIRECTIONS AND CONCLUSION

Even though the review suggests that gender identity research should be continued, there are some issues that future researchers need to consider. Three research questions are presented and discussed to guide future research:

- 1. Which gender variable(s) is most relevant to the study under consideration?
- 2. Are there additional personality traits or subdimensions of instrumental and expressive traits that are associated with gendered responses?
- 3. What is the relationship between gendered personality traits and gender salience in different contexts?

This paper takes the position that future research should recognize gender identity as a multifactorial construct. Consumer researchers have been measuring only one aspect of gender identity, gendered personality traits, and sometimes inappropriately using this construct to predict other gender variables (Fischer and Arnold 1996). Therefore, researchers need to consider carefully which gender variable is most important to include in any given study; researchers also need to use consistent terminology to avoid conceptual ambiguity. Moreover, it may be advantageous to measure simultaneously multiple facets of gender identity (e.g., roles, attitudes, traits) for richer analysis.

Researchers also need to address the operationalization problems evident in the BSRI and PAQ, and consider developing new instruments. The use of qualitative methods in this line of inquiry may be very fruitful, especially since gender categories are blurring.

Finally, researchers need to better understand how gender is activated and made salient in different contexts. Understanding this question will enable researchers to understand in what situations gendered traits are likely to be influential, and to understand the interplay between gendered traits and gender salience.

GENDER IDENTITY IN CONSUMER BEHAVIOR RESEARCH: A LITERATURE REVIEW AND RESEARCH AGENDA

The process of consumption has long been associated with sex and gender, thus, it comes as no surprise that consumer researchers often examine the effects of these variables on consumer behaviors. It also comes as no surprise that much is known about sex and gender and how they impact buying and consuming activities. Yet there is one gender-related variable, gender identity¹, that has both intrigued and perplexed consumer behavior researchers for over four decades.

Gender identity, sometimes referred to as an individual's psychological sex, has been defined as the "fundamental, existential sense of one's maleness or femaleness" (Spence 1984, p. 83). Since gender is culturally derived, gender identity is similarly rooted in cultural understandings of what it means to be masculine or feminine (Firat 1991; Lerner 1986). For many years, sex and gender were thought to be inseparable—that is, men were masculine and women were feminine. But what consumer behavior researchers, among others, recognized long ago was that some men were more feminine than masculine while some women were more masculine than feminine. In the postmodern culture in which we now live, this separation of gender from sex is even more apparent.

Untangling the intricate threads of masculinity and femininity began in the 1930s when the first assessment of gender identity was attempted (Terman and Miles 1936). It was not until the 1960s, however, that gender identity made its first appearance in consumer-related studies (Aiken 1963; Vitz and Johnston 1965), and with the emergence of new conceptualizations of gender identity in the mid-1970s (e.g., Bem 1974; Spence, Helmreich, and Stapp 1975), the study of gender identity in consumer research intensified, continuing into the 1980s and 1990s. Even when criticism of the most frequently used gender identity measures, the Bem Sex Role Inventory and the Personal Attributes Questionnaire, surfaced in the 1980s (see, e.g., Gill et al., 1987; Marsh and Myers 1986), inclusion of gender identity in consumer research continued unabated.

However, significant gender identity findings in consumer research have been rare, causing some as early as the mid-80s to suggest that the inclusion of gender identity in consumer research is unproductive and should be abandoned (Roberts 1984). Several reasons have emerged to explain the lack of significant findings. For example, some have suggested that the operationalization of gender identity has stymied research (Palan, Areni, and Kiecker 1999); contributing to operationalization problems may be the inappropriate use of terms resulting in conceptual ambiguity. Gould (1996) suggested that the inappropriate interpretation/application of gender identity to consumer research variables produced contradictory findings. In more recent literature, the potential contribution of gender identity research to the understanding of consumer behavior has been questioned since the meanings of masculinity and femininity have blurred (Firat 1993).

Given these concerns, the purpose of this paper is to present a thorough review of consumer behavior studies in the marketing literature that have examined gender identity²; it should be noted that the review has a Western (i.e., North

¹ The term "gender identity" was not the original term used to describe the examination of gendered personality traits. Rather, the term has emerged over the past 40 years of consumer behavior research. As will be discussed later in this review, the psychological literature has used a variety of terms to signify what we now typically label gender identity. Some of these terms include sex-typing (Bem 1974), and sex-role stereotypes (Spence, Helmreich, and Stapp 1975). Terminology has also varied in consumer behavior literature. Some studies have referred to gender identity as sex-role identity (Kahle and Homer 1985); sex-role self-concept (Stern 1988), or sex-role orientation (Gentry and Doering 1979). Still others have not specifically labeled the concept, but instead refer to measuring masculine and feminine personality traits (Fry 1971; Worth, Smith and Mackie 1992) or socialization traits (Aiken 1963). The tendency in the last decade by consumer behavior researchers has been to use the term gender identity (Fischer and Arnold 1994; Gainer 1993; Kempf, Palan, and Laczniak 1997; Palan, Areni, and Kiecker 1999, 2001). This literature review adopts the current practice in consumer behavior research by using the term "gender identity." Nonetheless, the implications of consistently using terminology and the relationship of terminology choice to gender identity theories are serious and will also be discussed in this review.

² The scope of this literature review is to examine the usefulness of gender identity as an explanatory variable of consumer behavior in the marketing context. Therefore, this review has confined itself to examining gender identity studies published only Academy of Marketing Science Review All rights reserved.

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American) bias, since the studies have all been based in Western societies. Despite a previous review of gender identity research in consumer behavior (Stern 1988), an updated review is necessary, not only to include consumer behavior studies that have been published since 1988, but also to examine the merits of gender identity research given the scholarship advances that have been made in this area in the past decade. The review is grounded in the theoretical models of gender identity with the specific goal of providing a framework to address the question: "To what extent are differences in gender identity useful in explaining meaningful variations among consumers?" Addressing this question will help clarify whether enthusiasm or skepticism about gender identity research in consumer behavior is warranted, and, if warranted, what direction(s) future research should take.

TERMINOLOGY IN GENDER IDENTITY RESEARCH

As with any carefully conceived research project, a literature review requires a clear and unambiguous definition of the subject under analysis. With respect to this particular literature review, this requires not only understanding what gender identity is, but also understanding how it is related to, yet different, from other sex- and gender-related terminology. This is especially important because several different terms, signifying essentially the same thing, have been used over the course of gender identity research in consumer behavior. For example, sex-role identity (Kahle and Homer 1985), sex-role orientation (Gentry and Doering 1979), and sex-role self-concept (Stern 1988) are all terms referring to the measurement of gendered personality traits in men and women that have been used in consumer research. It was not until the 1990s that the term gender identity saw more consistent use (Fischer and Arnold 1994; Gainer 1993; Kempf, Palan, and Laczniak 1997; Palan, Areni, and Kiecker 1999, 2001).

Contributing to the inconsistent use of terminology is the fact that the term "gender" is often treated in both academic discourse and in the media as interchangeable with "sex." Deaux (1985) acknowledged that this debate was still brewing in the field of psychology, though it was becoming more standard to use "sex" to refer to an individual's biological sex and "gender" to refer to psychological features associated with biological sex that are socially constructed. That is the convention adopted in this literature review. Thus, "sex" refers to an individual's biological sex, whether one is a woman (female) or a man (male). Most human beings are born as either male or female³ and by about two or three years of age, children become aware of their biological sex (Money and Ehrhardt 1972).

In contrast, "gender is the cultural definition of behavior defined as appropriate to the sexes in a given society at a given time. Gender is a set of cultural roles" (Lerner 1986). About the same time that children become cognizant of their biological sex, they also have an awareness of culturally-derived gender norms; for example, children know positive stereotypes of their own sex and negative stereotypes about the other sex (Kuhn, Nash, and Brucken 1978). Thus, at a very early age, children begin to develop a belief system with respect to cultural gender roles. According to Spence (1985), "gender is one of the earliest and most central components of the self-concept and serves as an organizing principle through which many experiences and perceptions of self and other are filtered" (p. 64).

in marketing-related journals and or conference proceedings. Further, this review only includes studies that have examined gender identity as the degree to which an individual identifies with masculine and/or feminine personality traits. Consequently, studies that have examined gender differences, sex or gender roles, attitudes toward gendered images, etc., may not be included in this literature review if gender identity was not also examined (see pages 3-4 for a more detailed discussion on differentiating gender identity from sex- and gender-related concepts). Because gender identity is strictly defined as identification with personality traits, it is typically associated with empirical measurement; qualitative studies (in marketing-related literature) examining the degree to which an individual identifies him- or herself as masculine or feminine have not been done, or at least were not found for inclusion in this review.

³ Some babies are born as "intersexed." These infants have ambiguous genitalia making sex assignment problematic. Even though diagnostic tests are performed to better determine the true biological sex of the infant, the common practice is to pronounce the infant as male or female depending on its physical features, which is a decision distinctly imbued with cultural meaning (Kessler 1990).

As children continue to become culturally socialized, they add to their belief system regarding gender, developing cognitive networks of associations to biological sex. One type of association that children learn is the culturally defined personality traits linked to being male (masculine traits) or female (feminine traits). The extent to which an individual identifies or thinks of him- or herself as masculine or feminine is what we now refer to, in consumer behavior research, as gender identity (Fischer and Arnold 1994).

Two other concepts, gender role and gender role attitudes, have at various times been mistaken to be synonymous with gender identity in consumer behavior studies (for a review, see Fischer and Arnold 1994), when, in fact, they are not. Gender role refers to the culturally-derived behaviors and activities associated with masculinity or femininity that individuals choose to adopt. Gender role attitudes refers to an individual's beliefs about the roles, rights, and responsibilities of men and women. While gender identity is certainly related to both gender roles and gender role attitudes, it does not necessarily have to be congruent with gender role or gender role attitudes (Deaux 1985; Fischer and Arnold 1994). For example, it would not be unusual for a woman to report a more favorable attitude toward egalitarian gender roles in the home than toward traditional gender roles, but at the same time be engaging in behaviors associated with a traditional feminine gender role; empirical measurement of that same woman's gender identity might show that she identified equally with masculine and feminine personality traits.

This literature review only includes studies that have specifically examined the degree to which an individual identifies him- or herself with masculine and feminine personality traits, regardless of the term that has been used to signify the concept. However, to avoid confusion, all of the studies will be referred to as examining gender identity. Implications of using this designation will be discussed further in the final sections of the paper.

THEORETICAL BACKGROUND OF GENDER IDENTITY

Masculine and feminine personality traits, upon which gender identity is based, are associated with instrumental/agentic and communal/expressive tendencies, respectively (Parsons and Shils 1952), in Western societies. Instrumental/agentic tendencies are defined as "concern with the attainment of goals external to the interaction process" (Gill et al. 1987, p. 379). Personality traits such as independence, assertiveness, reason, rationality, competitiveness, and focus on individual goals are the hallmarks of masculinity (Cross and Markus 1993; Easlea 1986; Keller 1983; Meyers-Levy 1988; Weinreich-Haste 1986). A proclivity toward communal/expressive tendencies, however, "gives primacy to facilitating the interaction process itself" (Gill et al. 1987, p. 380). Expressiveness involves understanding and dealing with emotions in self and others, although it is not "being emotional"; rather, it concerns personality traits focused on being actively interdependent and relational. Understanding, caring, nurturance, responsibility, considerateness, sensitivity, intuition, passion, and focus on communal goals are traits associated with femininity (Cross and Markus 1993; Easlea 1986; Keller 1983; Meyers-Levy 1988; Weinreich-Haste 1986).

Early gender identity research hypothesized a single bipolar dimension of masculinity/femininity; that is, masculinity and femininity were opposites on one continuum (Terman and Miles 1936). Further, gender identity was believed to be correlated with biological sex and constrained by societal stereotypes of appropriate masculine and feminine behaviors (Constantinople 1973). As societal stereotypes changed, however, the assumptions of the unidimensional model were challenged. This led to the development of a two-dimensional gender identity model, in which masculinity and femininity were conceptualized as two separate, orthogonal dimensions, coexisting in varying degrees within an individual (Gill et al. 1987); this conceptualization of masculinity and femininity remains the accepted standard today.

MEASUREMENT OF MASCULINE AND FEMININE PERSONALITY TRAITS

Two instruments incorporating the multidimensional conceptualization of masculinity and femininity have dominated gender identity research (Deaux 1985)—the Bem Sex Role Inventory (BSRI) and the Personal Attributes Questionnaire (PAQ). The development of these instruments preceded gender identity theory development, yet, because the researchers associated with gender identity theory were also the same researchers who developed the BSRI and the PAQ, measuring

masculine and feminine personality traits came to be synonymous (either rightly or wrongly) with measuring gender identity.

The BSRI and the PAQ were developed in the mid-1970s as indexes of self-reported instrumental/agentic and communal/expressive traits (Bem 1974; Spence et al. 1975). Both instruments categorize individuals, using median splits on masculinity and femininity scores, as either being sex-typed (males report themselves as identifying primarily with masculine traits, females report themselves as identifying primarily with feminine traits), cross sex-typed (males report themselves as identifying primarily with masculine traits), androgynous (either males or females who report themselves as high on both masculine and feminine traits), or undifferentiated (either males or females who report themselves low on both masculine and feminine traits). There are variations on this categorization system; for example, some researchers prefer to categorize individuals as either being masculine schematic (either males or females who report themselves as primarily masculine) or feminine schematic (either males or females who report themselves as primarily masculine) or feminine schematic (either males or females who report themselves as primarily masculine) or feminine schematic (either males or females who report themselves as primarily masculine) or feminine schematic (either males or females who report themselves as primarily masculine) (Markus et al. 1982).

The original development of both the BSRI and the PAQ was not based on the theoretical distinctions between masculinity and femininity; instead, reliance was given to college students' assessments of stereotypically desirable masculine and feminine personality traits (Bem 1974; Spence et al. 1975). Thus, for the BSRI, Bem (1974) classified 20 traits judged to be significantly more desirable for men than for women (using t-tests) as reflecting masculinity. Similarly, 20 traits were chosen to reflect femininity. The BSRI also contains 20 traits judged to be neutral, i.e., neither more desirable nor undesirable for men or women. Spence et al. (1975), in a slightly different manner, developed the PAQ by classifying personality traits judged as socially desirable for both sexes but believed to occur to a greater degree in males as masculine, whereas traits deemed to be socially desirable for both sexes but more frequently occurring in females were classified as feminine. In addition, the PAQ includes a third scale composed of traits deemed to be socially desirable for one sex group, but not the other. Justification of item classification on the PAQ was based by inspecting item content (Spence and Helmreich 1978).

Use of the BSRI and PAQ in consumer behavior research has often resulted in nonsignificant findings (see, e.g., Roberts 1984; Palan et al. 1999). A possible explanation for these findings is the criticism that the masculine and feminine scales of the BSRI and the PAQ are not internally consistent (Collins, Waters, and Waters 1979; Feather 1978; Gaa, Liberman, and Edwards 1979), suggesting the presence of dimensions other than instrumentality and expressiveness. Indeed, a study conducted by Myers and Gonda (1982) asked almost a thousand subjects to define *masculine* and *feminine* with openended responses; over 86% of the responses were not represented on the BSRI. This is consistent with research by Palan et al. (1999) that noted the presence of four dimensions in addition to expressiveness and instrumentality in the PAQ. These findings may be related to concerns that the gender identity measurement scales were linked to theory post-hoc, giving rise to the possibility that neither instrument accurately measures instrumental/agentic and communal/expressive traits (Gill et al. 1987; Myers and Gonda 1982; Palan et al. 1999). For example, although expressiveness is associated with being actively *interdependent*, the BSRI includes *dependent* as a femininity trait; likewise, the PAQ includes *independent* as a masculine trait, yet instrumentality is more about *objectivity* and *manipulation* than independence (Gill et al. 1987).

GENDER IDENTITY THEORIES

As previously stated, gender identity theories were developed and connected to the measurement of gendered personality traits post-hoc. Two competing gender identity theories, gender schema theory and multifactorial gender identity theory, have dominated the psychology literature. Both of these theories, discussed below, have impacted the conceptualization of consumer behavior studies.

Gender Schema Theory

Bem's (1981a) gender schema theory suggests that individuals acquire and display traits, attitudes, and behaviors consistent with their gender identity. Moreover, according to Bem (1981a), gender identity serves as an organizing principle through which individuals process information about themselves and the world around them, although the ability of gender identity to have such an effect varies depending on whether or not an individual is sex-typed. Thus, a sex-typed

(or gender schematic) male or female is more likely to be influenced by his or her gender identity than are non-sex-typed men and women (or gender aschematics).

A notable aspect of Bem's work is that her development of the BSRI was the first to treat masculinity and femininity as independent dimensions, thus allowing for an individual to be androgynous, someone who is characterized by high degrees of both masculinity and femininity. Sex typing with the BSRI requires the researcher to calculate an androgyny score, the difference between an individual's masculinity and femininity scores (Bem 1974). Although Bem had not yet put forth her gender schema theory when the BSRI was introduced, she later posited that the androgyny score, as a representation of an individual's total sex role, was diagnostic and predictive of broad gender-related constructs—all kinds of attributes, attitudes, and behaviors that society prescribes for each sex are tied to masculinity/femininity, gender identity, and gender schema (Spence 1985). Using the BSRI as diagnostic of a wide variety of gender-related constructs, however, has been criticized by those who favor the multifactorial gender identity theory. Specifically, many researchers believe that masculine and feminine personality traits have a much narrower diagnostic capability than that purported by Bem, and if used to indicate broader concepts may result in meaningless data. This criticism is revisited when individual consumer research articles are examined later in this literature review.

Multifactorial Gender Identity Theory

Contradicting Bem's theories is the belief that gender-related phenomena are multifactorial in nature with desirable gendered personality traits constituting but one factor (Feather 1984; Spence 1984, 1991; Taylor and Hall 1982). Accordingly, masculinity and femininity are conceptually distinct from gender role expectations, attitudes, preferences, and behaviors, and the use of the BSRI and the PAQ, which measure masculine and feminine traits, should be limited to studies measuring variables relevant to instrumentality and expressiveness. This is consistent with Spence who maintains that neither the PAQ (1984, 1991, 1993) nor the BSRI (1993) is appropriate as an indicator of global gender-related constructs.

The underlying assumption of multifactorial gender identity theory is that gender identity is a combination of genderrelated phenomena, associated in varying degrees with each other, such as gender-related attitudes, interests, and role behaviors, and gendered personality traits. Not only is gender identity multifactorial, but each gender-differentiating factor has a different developmental history that varies across individuals because the factors are impacted by multiple variables that are not necessarily gender-related (Spence 1993). Consequently, the specific array of gender-congruent qualities that people display can be quite variable within each sex (Spence 1993), although both men and women do develop gender identities and a sense of belongingness to their sex that is maintained throughout the life span (Green 1974).

Not all researchers agree on what specific factors comprise gender identity. For example, four critical domains of genderrelated phenomena have been identified by Spence and Sawin (1985) including: (1) an individual's global self-concept of his/her masculinity or femininity; (2) gendered personality traits; (3) gender-related interests, role behaviors, and attitudes; and (4) sexual orientation. Ashmore (1990), on the other hand, maintains that the multiple facets of gender identity include two general constructs, sex stereotypes and gender attitudes, and five areas of self-content (i.e., where the self is the referent): (1) personal-social attributes; (2) social relationships; (3) interests and abilities; (4) symbolic and stylistic behaviors; and (5) biological and physical attributes. Regardless of which specific facets or factors one associates with the multifactorial concept of gender, it is important to note that gender identity, as defined in multifactorial theory, is a term that encompasses several different aspects of gender, of which gendered personality traits is just one aspect.

Thus, the differentiating feature of multifactorial gender identity theory from gender schema theory is that, in multifactorial theory, the measurement of gender identity requires measuring several different factors (i.e., personality traits, gender attitudes, gender role behaviors, etc.); if only one factor, such as gendered traits, is measured, then the applicability of that factor is limited to situations where only that one factor is relevant. Gender schema theory, on the other hand, maintains that it is the measurement of only one facet, masculine and feminine personality traits, that is needed to indicate multiple gender-related concepts. As will be discussed later, many consumer behavior studies have embraced gender schema theory. Others have acknowledged the need to limit the use of gender identity measures to situations in which masculinity and femininity are relevant, consistent with multifactorial gender identity theory.

GENDER SALIENCE

Given that the distinction between gender schema theory and multifactorial gender identity theory impacts conceptualized relationships between gendered personality traits, additional gender constructs, and other consumer variables, another important theoretical issue that emerges in gender identity research is gender salience. Indeed, another possible explanation for the plethora of disappointing findings with respect to gender identity in consumer behavior research may be that the extent to which an individual's gender schema is activated, and, thus, the extent to which individuals engage in gender-related behaviors is likely dependent on how important gender is in a given context. That is, individuals have several different possible schemata that can be activated and influential in a given situation—a working self-concept (Deaux and Major 1987; Markus and Kunda 1986). While an individual is not likely to change the essence of his/her gender identity, in a situation where a gender-related working self-concept is activated, beliefs and behaviors will be gender-based because of the salience of gender roles they choose to occupy may vary in different contexts (Spence and Sawin 1985). Moreover, the measurement of gender identity may produce different results in a situation where an individual's gender-related working self-concept has been activated (making gender more salient in the situation) relative to a situation where the same individual's gender-related working self-concept has not been activated (making gender less salient in the situation) (Gould 1996).

Deaux and Major (1987, p. 375-376) suggest that a gender-related working self-concept is likely to be activated when (1) "gender is a central, well-differentiated component of the self-concept," (2) a gender-related working self-concept has been recently or frequently activated, (3) "immediate situational cues make gender schemata salient" (e.g., the gender of a word-of-mouth communicator is incongruent with the situation), or (4) another individual's actions make gender schemata salient (e.g., an individual overhears a conversation where a man asks a woman for her opinion about a product). Though gender salience research related to consumer behavior has been very limited, significant results have been reported in three studies when situational cues related to gender (e.g., male/female make-up of groups) have been present (Abrams, Thomas, and Hogg 1990; Considine and Gould 1991; Gould and Weil 1991).

GENDER IDENTITY STUDIES IN CONSUMER BEHAVIOR

In order to understand whether or not further gender identity research in consumer behavior studies is fruitful, it is important to first understand what contributions have or have not been made by previous studies. And, more importantly, it is vital to understand why significant findings have or have not been found. Consequently, after a brief description of gender identity studies in consumer behavior, problems with the theoretical foundations of the studies are examined to identify possible explanations for previous findings.

DESCRIPTION OF GENDER IDENTITY STUDIES

Frequency of Studies

As can be seen in Table 1, 31 consumer behavior studies⁴ empirically examining gender identity have been conducted and reported in the past 38 years, beginning in 1963. Other than the two studies conducted in the 1960s and the one study reported to date in the 2000s, each decade has seen an almost equal share of studies, with eight conducted in the 1970s, 11

⁴ Two studies are included in Table 1 because they are frequently cited in consumer behavior gender identity studies and have been included in a previous literature review (Stern 1988), although they were not published in marketing-oriented journals. It should be noted that other consumer behavior literature has been published that examines conceptual issues regarding gender identity, including Gould (1996), Prakash and Flores (1984), Roberts (1984), and Stern (1988). Because these articles do not report new findings based on data collection and analysis, they have not been included in this literature review. The absence from this table of any empirical or qualitative gender identity studies, which report new findings, is unintentional.

during the 1980s, and nine during the 1990s. The pattern of these studies suggests a steady and persistent interest in gender identity, despite the criticisms of gender identity instruments and despite the often nonsignificant outcomes of gender identity research.

Measure		Sample	Findings	Theory*	Relevance	Variability	
Aiken 1963	CPI-FE	300 F	Significant positive correlation between femininity traits and decoration, interest, and conformity dress "clusters."		No	No	
Vitz & Johnston 1965	CPI-FE MMPI	97 F 97 M	Among smokers, significant positive correlation between masculine cigarette brand image and (1) masculine personality traits; and (2) being male.	MGIT	Yes	No	
Fry 1971	CPI-FE	216 M & F Non- students	Feminine males and females prefer cigarette prands with feminine images, although stronger effect when also have high self-confidence.		Yes	No	
Morris & Cundiff 1971	CPI-FE	223 M	Iigh feminine/high anxiety males have more N nfavorable attitudes toward feminine hair spray N roduct than do low-or-medium feminine males. N		Yes	No	
Tucker 1976	PAQ	13 M 11 F	Traditional sex roles are blurring relative to gender identification.	MGIT	Yes	No	
Burns 1977	PAQ	81 F Non- students	Masculinity is significant determining factor in wives' decision making power.	GST	Yes	No	
Gentry & Doering 1977	CPI-FE PAQ	100 M 100 F	Gender identity is strong predictor of attitudes toward leisure activities, but poor predictor of attitudes about products, brands, and media. Biological sex is better predictor than gender identity for both attitudes and usage differences in all categories.	GST	Marginal	No	
Gentry, Doering, & O'Brien 1978	CPI-FE PAQ	100 M 100 F	Biological sex accounts for more variability than gender identity with respect to perceptions and use of products and leisure activities.	GST	Marginal	No	
Gentry & Doering 1979	CPI-FE PAQ	100 M 100 F	Biological sex is more strongly related to attitudes and usage of leisure activities than is gender identity.	GST	Marginal	No	
Golden, Allison, & Clee 1979	BSRI (long)	307 M & F	Biological sex is significantly related to product sex-typing, while gender identity is not.	GST	No	No	
Allison, Golden, Mullet, & Coogan 1980	BSRI (long)	307 M & F	Biological sex is a better predictor of differences in product sex-typing than is gender identity.	GST	No	No	

 TABLE 1

 Summary of Consumer Behavior Gender Identity Studies

TABLE 1 (CONT) Summary Of Consumer Behavior Gender Identity Studies

Martin & Roberts 1983	BSRI (long)	125 M & F	Gender identity is significantly related to performance expectations of women entrepreneurs; sex-role attitudes significantly related to expectations of proven individuals regardless of their sex.	MGIT	Yes	No
Gentry & Haley 1984	PAQ	86 M 82 F	Biological sex may be a better predictor of ad recall and ease of recall than is gender identity. Gender identity differences within-sex more interesting than between-sex differences.		Marginal	No
Coughlin & O'Connor 1985	BSRI (long)	420 M & F Non- students	Masculine gender identity explains more differences in M purchase intention as a reaction to female role portrayals in ads than does biological sex.		Yes	No
Kahle & Homer 1985	BSRI (long)	84 M 55 F	Biological sex is better predictor of food preferences than is gender identity.	GST	No	No
Barak & Stern 1986	BSRI (short) ^a	614 F	Masculinity scale seems to be self-assurance index, which M may be more important to consumer behavior than the femininity scale.		Yes	No
Qualls 1987	BSRI (long)	89 M 89 F	BSRI, as a measure of sex-role orientation, is positively related to household influence.	GST	Yes	No
Stern, Barak, & Gould 1987	BSRI (short) ^a SIS	380 M 380 F Non- students	Men identify with the BSRI masculine scale, while women identify with the feminine scale, but both sexes seem to be confused about opposite sex definitions. SIS is highly correlated to biological sex.		NA	No
Jaffee & Berger 1988	BSRI (short) ^b	100 F	Gender identity is significantly related to preferences for sex role positioning in advertising, but the relationship differs by product category.	MGIT	Yes	No
Schmitt, LeClerc, & Dube-Rioux 1988	BSRI (long)	111 M 120 F (total sample for 3 tests)	Biological sex is better explanatory variable than gender identity with respect to recall, choice, and memory tasks.	GST	Yes	No
Gould & Stern 1989	BSRI (long) SIS	65 M 70 F	Biological sex is better predictor of fashion attitudes than gender identity, but gender identity research may be more important when examining within-sex vs. between-sex differences.		Marginal	Yes
Fischer & Arnold 1990	BSRI (long)	299 M & F Non- students	F Feminine gender identity positively related to involvement MG in Christmas gift shopping for both men and women; gender role attitudes moderate involvement.		Yes	No
Gould & Weil 1991	BSRI (long)	59 M 68 F	Biological sex is better predictor than gender identity of self-descriptions, feelings, attitudes, and gift choice. Gender identity useful in explaining within-group differences in specific contexts.	GST & MGIT	Yes	Yes

TABLE 1 (cont) Summary of Consumer Behavior Gender Identity Studies

Jaffee 1991	(short) ^b Non- students response to financial services; positioning more essential for high masculine females than for lesser masculine women.			GST	Yes	No
Worth, Smith, & Mackie 1992	M/F traits ^c	40 M 72 F	Preference for gendered images of beer and jeans consistent with gender identity self-ratings.	GST	Marginal	No
Gainer 1993	BSRI (short) ^a	147 M 210 F	Both biological sex and feminine gender identity positively affect attendance at the arts indirectly through involvement; further, feminine gender identity directly affects involvement, while biological sex indirectly affects involvement as a result of childhood experience in the arts.	MGIT	Yes	No
Gould & Stern 1993	BSRI (long) SIS	135 M & F	Females are more privately gender-conscious than males; androgyny and undifferentiated individuals have higher private gender consciousness.	GST	NA	Yes
Fischer & Arnold 1994	BSRI (long)	299 M & F Non- students	Both gender identity and gender role attitudes explain more differences in Christmas shopping than does biological sex.	MGIT	Yes	No
Kempf, Palan, & Laczniak 1997	PAQ	105 M & F	Masculine gender identity and androgyny positively correlated to general information processing confidence.		Yes	No
Palan, Areni, & Kiecker 1999	BSRI (short) ^a PAQ SIS	64 M 51 F	Feminine and masculine scales of BSRI and PAQ are not internally consistent. SIS highly correlated to biological sex.		NA	No
Palan, Areni, & Kiecker 2001	BSRI (short) ^a	64 M 51 F	Masculine males more likely than feminine males to recall gift giving experiences; feminine individuals (both males and females) were person-focused while masculine individuals (both males and females) were object-focused.		Yes	No

NOTE.—Unless otherwise noted, the sampling population for the study was college students.

* GST=Gender Schema Theory; MGIT=Multifactorial Gender Identity Theory

a) Source for BSRI short scale is Barak and Stern (1986).

b) Source for BSRI short scale is Bem (1981b).

c) Gender identity is measured with three feminine and three masculine traits; all of the items are included on either the BSRI or the PAQ.

Gender Identity Instruments Used

Three gender identity instruments have dominated consumer behavior studies in a cyclic pattern—the CPI-FE, the PAQ, and the BSRI. The 1960 and early 1970s studies relied primarily on the California Psychological Inventory—Femininity Scale (CPI-FE) to measure gender identity. The CPI-FE (Gough 1952), a subscale of the California Psychological Inventory (Gough 1957), was based on the unidimensional gender identity model, conceptualizing masculinity and femininity as bipolar opposites on the same continuum. One of the early studies (Vitz and Johnston 1965) used a scale from the Minnesota Multiphasic Personality Inventory (MMPI) in addition to the CPI-FE.

As the conceptualization of gender identity from a unidimensional model to a two- dimensional model emerged in the mid-1970s, use of gender identity instruments based on the two-dimensional model replaced the CPI-FE. One of the

multidimensional gender identity instruments, the PAQ, became the gender identity instrument of choice for consumer researchers from 1971 to 1979, being used in five studies. However, the CPI-FE was used in addition to the PAQ in three of these studies (Gentry and Doering 1977, 1979; Gentry, Doering and O'Brien 1978). Since 1979, the PAQ has only been used in three other consumer behavior studies.

By far, however, the gender identity instrument that has been used most frequently in consumer behavior research is the BSRI—since 1979, the BSRI has been used in 20 consumer behavior studies⁵. However, complicating the interpretation of results using the BSRI is the fact that several different forms of the BSRI have been used in consumer behavior studies. The original long version of the BSRI, which is comprised of 20 masculine items, 20 feminine items, and 20 neutral items, was used in 13 of the studies. The other studies used one of two shortened versions of the BSRI—Bem's short scale, consisting of 10 masculine and 10 feminine items (Bem 1981b), was used in three of the studies, while a short scale developed by Stern, Barak, and Gould (1987) was used in two studies. Yet another study, Worth, Smith, and Mackie (1992), used only three masculine and three feminine items, five of which are included on the BSRI, in their study.

Study Findings - CPI-FE

The first four studies using the CPI-FE examined the relationship of gender identity to product attitudes/image in three product categories—clothing, cigarettes, and personal hygiene. In three of the four studies, consumers' beliefs and/or attitudes were found to be consistent with their gender identity (Aiken 1963; Fry 1971; Vitz and Johnston 1965). For example, smokers' perceptions of cigarette brands as being masculine was significantly correlated to a masculine gender identity (Vitz and Johnston 1965), while femininity was significantly correlated to perceptions of cigarettes as having feminine brand images (Fry 1971). Only one study (Morris and Cundiff 1971) reported an inconsistency between gender identity and consumer behavior— feminine males, who also reported a high level of anxiety, had unfavorable attitudes toward a feminine hair spray product; the lower their anxiety level, however, the less unfavorable were their attitudes.

Study Findings – PAQ

The earliest of the PAQ studies classified men and women as being either primarily masculine or primarily feminine (Tucker 1976); based on his results and the changing roles of women, Tucker suggested that traditional gender roles were blurring and would continue to blur. So, not all women would have feminine gender identities, nor would all men have masculine gender identities. This, it was posited, would have implications for consumer behavior. For example, Burns (1977) found evidence of shifting decision making patterns between husbands and wives related to gender identity. Specifically, he found that highly masculine wives had more influence in purchase decisions in some product areas than did more feminine wives. The three remaining studies were related to the relationship between gender identity and attitudes/usage of products, brands, media, and leisure activities, finding that gender identity was most predictive of consumer participation in leisure activities (Gentry and Doering 1977, 1979; Gentry et al. 1978); gender identity, however, was a poor predictor of attitudes about products, brands, and media. Moreover, more significant relationships were reported when using the CPI-FE than when using the PAQ. Two studies have used the PAQ to examine information processing differences related to gender identity. Gentry and Haley (1984) examined the relationship between gender schemas and ad recall, while Kempf, Palan, and Laczniak (1997) studied the relationship between gender identity and general information processing confidence (GIPC), finding a positive relationship between masculinity and GIPC. The only other attention the PAO has received in consumer research is a study comparing gender identity scales used in consumer research (Palan et al. 1999); the findings of this study suggest four dimensions of personality traits (vulnerability, emotionality, composure, and autonomy) in addition to expressiveness (femininity) and instrumentality (masculinity).

Study Findings – BSRI

Several different issues have been examined in the BSRI studies, including the relationship between gender identity and (1) consumers' perceptions of masculinity and femininity in products (Allison et al. 1980; Golden, Allison, and Clee

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⁵ One of the studies categorized with the BSRI studies used a gender identity measure composed of three masculine and three feminine traits, five of which are on the BSRI and one that is included on the PAQ (Worth, Smith, and Mackie 1992). Because the measure is predominantly a BSRI measure, it is classified with these studies for ease in discussion.

1979); (2) sex-role attitudes toward women business owners (Martin and Roberts 1983); (3) female role portrayal in advertising (Coughlin and O'Connor 1985; Jaffee 1991; Jaffee and Berger 1988); (4) food/gendered product preference (Kahle and Homer 1985; Worth et al. 1992); (5) information processing (Schmitt, LeClerc, and Dubé-Rioux 1988); (6) gift shopping/gift choice/gift exchange (Fischer and Arnold 1990, 1994; Gould and Weil 1991; Palan, Areni, and Kiecker 2001); (7) attendance at the arts (Gainer 1993); and (8) gender consciousness (Gould and Stern 1993). In some of these studies, gender identity was found to play a significant role (e.g., Coughlin and O'Connor 1985; Fischer and Arnold 1990; Jaffee 1991; Jaffee and Berger 1988; Martin and Roberts 1983). Within these studies, however, are conflicting results with respect to the relative importance of masculinity and femininity in explaining findings. For instance, while Coughlin and O'Connor (1985) found masculinity to be a significant predictor of consumer purchase intentions, Fischer and Arnold (1990) found femininity to be more important than masculinity in relationship to Christmas gift shopping.

Several studies reported no significant findings related to gender identity, and, in fact, found more significant relationships related to biological sex than to gender identity (Allison et al. 1980; Golden, Allison, and Clee 1979; Gould and Stern 1989; Kahle and Homer 1985; Schmitt et al. 1988). One study reported significant results only in limited contexts (Gould and Weil 1991). Another study used the BSRI as a measure of sex-role orientation rather than as a measure of gender identity (Qualls 1987); a positive relationship between gender identity and household influence was found, though a different measure of sex-role orientation was ultimately used in the study (Qualls 1987).

Not surprisingly, throughout many of the BSRI studies, there is an echo of concern about the conceptualization and operationalization of the BSRI. In response to these concerns, three consumer behavior studies have examined these issues. Barak and Stern (1986), examining the relationship of demographic, psychographic, and behavioral variables to women's gender identity, concluded that the masculinity scale of the BSRI seemed to be a self-assurance index, and, as such, was more relevant to consumer behavior than was femininity. In 1987, Stern, Barak and Gould found that men identified with the BSRI masculine scale and women identified with the feminine scale, but both men and women were confused as to how to define the opposite sex—the outcome of this study was the development of a new measure, the Sexual Identity Scale (SIS), an undisguised measure of sexual identity that was hoped would provide a different way to assess gender identity than existing measures. However, subsequent research has found that the SIS is strongly associated with biological sex (Palan et al. 1999), and, consequently, adds little meaningful information about gender identity. Finally, the internal consistency of the BSRI has been examined (Palan 1998; Palan et al. 1999), finding some inconsistent scale loadings with both the masculine and feminine scales.

THEORETICAL FOUNDATIONS OF GENDER IDENTITY STUDIES IN CONSUMER BEHAVIOR

Just as there has been a "litter of failed BSRI and PAQ studies" outside of marketing (Frable 1989, p. 106), so does the above discussion on the findings of gender identity studies in consumer behavior translate to the inability to make any definite conclusions about how gender identity impacts consumer attitudes and behaviors. Some consumer behavior researchers have interpreted the lack of significant findings and inability to duplicate findings as the result of poorly operationalized gender identity measures (Palan et al. 1999; Stern et al. 1987). While operationalization problems have certainly contributed to disappointing findings, another factor may be a lack of understanding of the theoretical implications with respect to the conceptualization of gender identity. That is, researchers may not always have been aware of the theoretical differences between gender schema theory and multifactorial gender identity theory. Moreover, prior to Gould and Weil (1991), consumer behavior researchers may not have been aware that the measurement of gender identity could vary from one context to the next. And, given the inconsistent use of sex- and gender-related terms (Fischer and Arnold 1994), some researchers may well have conceptualized gender identity as salient to a particular study, when, in fact, another concept (e.g., gender roles or gender attitudes) was more salient to the study⁶. Consequently, many studies may already have been ill-fated at the conceptualization stage.

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⁶ It should be noted that the inappropriate selection of sex- and gender-related terms can be linked to which gender identity theory a researcher believes to be most true—gender schema theory or multifactorial theory. For example, a researcher who conceptualizes a research study using gender schema theory would believe that a measure of gender identity (based on identification with

The theoretical foundations of the gender identity studies were examined for conceptualization problems related to three issues: (1) whether or not the study conceptualized and operationalized gender identity as representative of broader gender variables (i.e., consistent with gender schema theory) or as a construct representing only masculine and feminine personality traits (i.e., consistent with multifactorial gender identity theory); (2) whether or not the inclusion of instrumental (masculinity) and expressive (femininity) personality traits was relevant to other study variables; and (3) whether or not any of the studies conceptualized gender identity as variable, subject to changing contexts and gender salient conditions. The findings of this examination are summarized in the last three columns of Table 1.

Because most of the studies do not explicitly categorize themselves into the distinctions represented by the three columns, categorization criteria were developed and used by the author to content analyze each article in Table 1. The categorization criteria are specified in the following paragraphs.

Gender Schema Theory vs. Multifactorial Gender Identity Theory

Studies were categorized as being consistent with gender schema theory (GST) when the article: (1) explicitly stated that the study was a test of gender schema theory; or (2) did not explicitly describe the study as a test of gender schema theory, but used the measurement of gender identity as an indication of some other sex- or gender-related concept. In contrast, studies were categorized as being consistent with multifactorial gender identity theory (MGIT) when the article: (1) explicitly stated that the study was grounded in multifactorial gender identity theory; or (2) did not explicitly describe the study as grounded in multifactorial gender identity theory; or (2) did not explicitly describe the study as grounded in multifactorial theory, but clearly defined gender identity⁷ as an individual's identification with masculine and feminine personality traits and limited the interpretation of results to this definition; or (3) included other gender-related variables, in addition to the measurement of gendered personality traits, which was considered to be an indication that the researchers understood that gendered personality traits was just one gender-related factor, consistent with multifactorial gender identity theory.

Relevance of Gender Identity to Other Study Variables

Studies were categorized as relevant (*yes*), not relevant (*no*), or marginally relevant (*marginal*) depending on the degree to which identification with masculine and feminine personality traits might logically be associated with or predictive of other study variables (e.g., products, brands, shopping behaviors, consumption behaviors). This determination was based on indications provided in the literature review or theoretical background sections of the papers that supported the potential explanatory power of masculine and feminine personality traits to the relationships being studied; moreover, the potential explanatory power had to be recognized as not necessarily being the same as being male or female. Studies were considered to be relevant when evidence from previous research or logical arguments were presented to support specific aspects of instrumentality or communion (e.g., autonomy, independence, nurturing, gentleness) as being linked to other study variables. When studies did not provide arguments that specifically discussed why masculine and feminine personality traits were expected to be relevant, but instead rationalized that gender identity was relevant because biological sex was relevant, then studies were classified as not relevant. A few studies were classified as marginally relevant because they partially, but not fully, distinguished the reasoning for including gender identity as being separate from biological sex.

masculine and feminine personality traits) is an accurate indicator of gender role attitudes. Qualls (1987) is an example of a study where gender identity is used to indicate sex role orientation; according to gender schema theory, this is perfectly correct procedure, but multifactorial theory (and the stance of this literature review) advocates that the concept most salient to the study is sex role orientation, not gender identity. Hence, the study should measure sex role orientation, not gender identity. Of course, the inappropriate use of sex- and gender-related terms can also be linked to researcher carelessness.

⁷ Note that the use of gender identity, as used in consumer behavior research, is at odds with the use of the term in multifactorial gender identity theory. That is, in consumer behavior and in this literature review, gender identity refers to the degree to which an individual identifies with masculine and/or feminine personality traits. But in multifactorial gender identity theory, gender identity to distinguish between these two terms when discussing the measurement of gendered personality traits in conjunction with multifactorial gender identity theory, however, the reader is reminded of this difference for those instances were the distinction is not clear.

Variability of Gender Identity

Determination of whether or not a study recognized that individuals' identification with masculine and feminine personality traits could vary when measured in different contexts or when gender identity was more or less salient to the other variables being examined, was based on explicit mention of this understanding in the article. That is, when studies specifically discussed the changeability of gender identity in different contexts, they were classified as *yes*; if studies did not specifically discuss gender identity variability, they were classified as *no*.

GENDER SCHEMA THEORY VS. MULTIFACTORIAL GENDER IDENTITY THEORY

As can be seen in Table 1, the theoretical foundations of half of the studies are consistent with gender schema theory, and, therefore, are based on the assumption that gender identity, as measured with the CPI-FE, BSRI or the PAQ, is representative of broader gender concepts than just the gendered personality traits of instrumentality and expressiveness. For example, Burns (1977) used the PAQ to sex-type respondents, and interpreted the sex-typing to be indicative of the respondents' sex roles. Kahle and Homer (1985) also used gender identity as indicative of sex roles, and Qualls (1987) used the BSRI as a measure of sex role orientation. Several studies were conceptualized on the assumption that gender identity would be predictive of differences in information processing based on gender schema (e.g., Gentry and Haley 1984; Jaffe 1991; Schmitt et al. 1988).

The 17 studies that conceptualized gender identity consistent with multifactorial gender identity theory, for the most part, limited the interpretation of gender identity results (i.e., identification with masculine and feminine personality traits) to situations where gendered personality traits would likely matter. A handful of studies included measures of gender role attitudes (Coughlin and O'Connor 1985; Fischer and Arnold 1990, 1994; Martin and Roberts 1983; or gender consciousness (Gould and Weil 1991) in addition to masculinity and femininity, suggesting that the researchers understood multifactorial gender identity theory. Consequently, it is the absence of broad application of masculinity and femininity traits by these studies that allows them to be categorized as consistent with multifactorial gender identity theory, not an explicit reference to the theory itself.

Only five of the 15 studies classified as consistent with gender schema theory reported significant findings with respect to gender identity. However, all of the studies classified as consistent with multifactorial gender identity theory reported significant gender identity findings⁸. Therefore, from a strictly results-oriented perspective, it can be reasoned that multifactorial gender identity theory is a better framework in which to position studies than is gender schema theory. Spence (1993) specifically examined the theoretical soundness of gender schema theory relative to multifactorial theory, and reported results consistent with multifactorial theory. Based on her research, Spence (1993) stated that a multifactorial perspective of gender identity was necessary for making sound predictions of the antecedents and consequences of gender characteristics—a fact that is borne out in this literature review.

RELEVANCE OF GENDER IDENTITY

Regardless of which theoretical framework a study assumes, it is still important that instrumental and expressive personality traits, which is what the CPI-FE, BSRI, and PAQ measure, are germane to the other study variables. While most of the studies in Table 1 do appropriately include gendered personality traits, some studies clearly do not. For example, Kahle and Homer (1985) examined for differences in the types of foods people eat based on masculinity and femininity—some of the foods included ham, fast food, junk food, sandwiches, eggs, and pizza. Not surprisingly, only one significant difference (at the p<.05 level) related to masculinity and femininity was found. Another study reported

⁸ The analysis referred to in the first two sentences of this paragraph excludes studies that used the BSRI or the PAQ to categorize individuals (Stern et al. 1987; Tucker 1976) or to examine internal consistency (Palan et al. 1999), since those studies do not specifically report the presence or absence of significant relationships between gender identity and other study variables.

very few significant differences in gendered perceptions of pocket knifes, cuff links, nylon underwear, and key ring related to gendered personality traits (Golden et al. 1979). Gentry and Doering (1977) examined the relationship of masculinity and femininity to perceptions of products as being either masculine or feminine, such as beer, boots, deodorant, and jeans, again finding very little of significance with respect to masculinity and femininity. But, in all of these studies, biological sex was found to be more significant than was gender identity. What seems clear in retrospect, is that while men and women may have different perceptions or usage patterns of some of the products in these studies, that is not an indicator that there will be similar differences with respect to instrumentality and expressiveness. For example, while it may be true that more women than men wear nylon underwear, what does the wearing of nylon underwear have to do with being sympathetic, understanding, and compassionate (expressive) or assertive, forceful, and acting like a leader (instrumental)?

Without exception, the studies that inappropriately included gender identity (i.e., instrumentality and expressiveness were not relevant to the study variables) reported biological sex to be a more significant predictor than gender identity (Allison et al. 1980; Golden et al. 1979; Kahle and Homer 1985.) Those studies classified as marginally relevant report mixed findings for gender identity, with some finding gender identity to be significant (Gentry and Doering 1977; Gentry and Haley 1984; Worth et al. 1992), though the findings were not always as strong as expected (Gentry and Doering 1977; Gentry and Haley 1984). However, the other marginally relevant studies reported biological sex to be a stronger predictor than gender identity (Gentry et al. 1978; Gentry and Doering 1979; Gould and Stern 1989). In contrast, all but one of the studies classified as relevant in Table 1 reported significant findings with respect to gender identity. The exception, Schmitt et al. (1988), reported biological sex as more significant than gender identity; the reason for this finding may not be related to the relevance issue, but rather to the fact that the study was based on gender schema theory.

Variability of Gender Identity

A very evident finding in Table 1 is that only three studies have specifically recognized that gender identity may fluctuate from context to context and in different gender salience conditions. Of these studies, Gould and Weil (1991) most specifically examined the variable nature of instrumentality and expressiveness by measuring gendered trait scales in two different contexts: (1) buying gifts for same-sex friends; and (2) buying gifts for opposite-sex friends. Whereas the responses of females tended to be fairly consistent over the two contexts, instrumentality decreased and expressiveness increased for men in the opposite-sex context relative to the same-sex context.

Gould and Stern (1989, 1993) specifically examined the variability of gender identity. In both of these studies, the underlying assumption was that the degree to which an individual processed information or reacted to a situation through his/her gender schema was related to the degree of involvement the individual had with his/her own gender in a given situation. Furthermore, the gender-related content of the situation also contributed to situationally responsive behaviors (Gould and Stern 1993). To capture individual differences in the degree to which individuals focused on their gender, Gould and Stern (1989) developed the gender consciousness scale "to measure the everyday involvement of individuals with their own gender and the processing of gender-schema related information" (p. 132). Results from gender consciousness studies have been promising, suggesting that the value of such research may lie in examining within-sex differences with respect to instrumentality and expressiveness (Gould and Stern 1989, 1993), a finding echoed by Gould and Weil (1991).

How much, if any, does the non-recognition of gender identity variability impact the other consumer behavior studies in Table 1? This is difficult to determine. It could be assumed that studies reporting significant gender identity findings could not have done so if gender identity was not salient in those research contexts, or if the inclusion of instrumentality and expressiveness measures was not relevant to the study. But, this is a passive interpretation of gender salience, a post-hoc finding. Gould (1996) suggests that trait measures such as the BSRI are unable to pick up situational effects—that is, situations where an individual makes a gendered response because of the gender salience of the situation, rather than because of his/her identification with gendered traits. Thus, to the extent that previous studies have unknowingly relied on situational cues rather than on gendered personality traits to evoke responses, the results of those studies may have been negatively impacted and/or incorrectly interpreted.

The findings discussed in the previous sections are summarized in Table 2.

Gender Schema Theory										
	Gender Id	entity Measure	R	lelevance	Variability					
	# of studies # (%) significant		# (%) ^b	# (%) significant ^c	# (%) ^d	# (%) significant ^e				
BSRI	10	4 (40%)	6 (60%)	4 (67%)	3 (30%)	1 (33%)				
PAQ	5	1 (20%)	5 (100%)	1 (20%)	0 (0 %)	NA				
Total	15	5 (33%)	11 (73%)	5 (45%)	3 (20%)	1 (33%)				
Multif	Multifactorial Gender Identity Theory									
	Gender Id	entity Measure	R	lelevance	Variability					
	# of studies	# (%) significant	# (%)	# (%) significant	# (%)	# (%) significant				
BSRI	11	11 (100%)	9 (82%)	9 (100%)	1 (9%)	0 (0%)				
PAQ	3	2 (67%)	2 (67%)	2 (100%)	0 (0%)	NA				
Total	14	13 (93%)	11 (79%)	11 (100%)	1 (7%)	0 (0%)				

 TABLE 2

 Summary of Significant Findings by Theoretical Foundation^a

a) Only studies that used the BSRI or the PAQ to measure gender identity in relationship to other variables are included in this paper.

b) Read as: "The number (percent) of studies categorized as 'yes' or 'marginal' on relevance."

c) Read as: "The number (percent) of studies categorized as 'yes' or 'marginal' on relevance that reported significant gender identity findings."

d) Read as: "The number (percent) of studies categorized as 'yes' on variability."

e) Read as: The number (percent) of studies categorized as 'yes' on variability that reported significant gender identity findings."

ENTHUSIASM OR SKEPTICISM FOR GENDER IDENTITY?

At the outset of this article, it was stated that the literature review would allow us to address the question, "To what extent are differences in gender identity useful in explaining meaningful variations among consumers?" and, by doing so, would help clarify whether enthusiasm or skepticism was warranted for gender identity research in consumer behavior. With respect to the usefulness of gender identity research in consumer behavior, the literature review offers two general conclusions. First, many of the earlier consumer behavior studies were flawed with respect to either theoretical conceptualization or to relevance, accounting for insignificant findings. What significant findings did emerge did not necessarily significantly impact marketing practice. For example, the practice of marketing a feminine hair spray does not change significantly when a manager knows that feminine men have unfavorable attitudes toward such products (Morris and Cundiff 1971). Nor is it overwhelmingly surprising to learn that attitudes toward leisure activities are related to gender identity (Gentry and Doering 1977). In fact, in many of the early studies, biological sex was far more significant with respect to predicting relationships than was gender identity. Together, these results can only lead to the conclusion that gender identity is not very useful in explaining meaningful variations among consumers. If one were to determine enthusiasm or skepticism for gender identity research based on just these studies, skepticism would win.

But, a second finding that emerges from the literature review is that carefully conceptualized gender identity studies do explain meaningful variations of consumer behaviors. For example, gender identity has been significantly linked to sexrole portrayals in advertising (Coughlin and O'Connor 1985; Jaffee 1991; Jaffee and Berger 1988), influencing the positioning of advertising (Jaffee 1991). Gendered personality traits have been strongly linked to shopping (Fischer and Arnold 1990, 1994; Gainer 1993), gift exchange behaviors (Gould and Weil 1991; Palan et al. 2001), and information processing (Kempf et al. 1997), adding a dimension to our understanding of these consumer behaviors beyond biological sex. Based on these studies, enthusiasm for further gender identity research in consumer behavior is warranted.

Although not specifically examined in the literature review, another issue impacting gender identity research is the degree of cultural change that has occurred in the last 25 years. Firat (1993) postulates that a deconstruction of the masculine and feminine gender categories will occur. Evidence of deconstruction is already present. Weston (1991), from her study of gay and lesbian couples, suggests that there are multiple gender categories, such as "queen" and "butch." Other scholars have noted that the boundaries of masculine and feminine have diffused because of gender crossings (Peñaloza 1994). Regardless of whether or not there is agreement about the implications of these findings, most will find it hard to argue with the fact that culture today is much more tolerant of men and women participating in roles and meanings typically associated with the opposite sex. Thus, we see men participating in housekeeping activities and child care, while women move into positions of leadership in the workforce. Not surprisingly, these kinds of cultural transitions have blurred gender roles and impacted gender identity. For example, identification with masculine traits has increased among women who work outside the home (Gill et al. 1987). So, while feminine and masculine gender categories remain intact, there is no doubt that gender categories are blurring, and are likely to continue to do so. At present, this blurring is not enough to dampen enthusiasm for gender identity research, but it does impact future research.

FUTURE RESEARCH DIRECTIONS

Future research directions are presented in the form of three research questions related to the conceptualization and operationalization of gender identity. The issues posed in these questions impact the theoretical framework within which future studies will be designed.

Research Question 1: Which gender variable(s) is(are) most relevant to the study under consideration?

Based on the evidence in this literature review, as well as evidence in other social science literature, gender identity is best conceptualized as a multifactorial construct, of which the current gender identity instruments, the BSRI and PAQ, measure only one component of gender identity, namely, masculine (instrumental) and feminine (expressive) personality traits. Thus, when conceptualizing research studies where gender-related variables are to be included, researchers must carefully consider which gender concept will best inform the research question. In order to do this, researchers will have to do a thorough review of the literature so that they understand both the conceptual and operational differences between gender concepts (e.g., gender role attitude and gendered personality traits). If this type of analysis is not carefully undertaken, it is possible that the study will be conceptually flawed, which will lead to operational problems, and ultimately, data interpretation problems (Teas and Palan 1997).

To date, consumer behavior researchers have primarily measured gendered personality traits, but there are certainly other gender variables that may be relevant to particular studies. Several studies have already included gender-related variables in addition to gendered personality traits, the most common of which has been gender role attitudes (Coughlin and O'Connor 1985; Fischer and Arnold 1990, 1994; Martin and Roberts 1983). However, it seems likely that other variables might also be important to examine, such as gender role behaviors and sexual orientation; sexual orientation has recently received increased attention in consumer behavior literature, although not necessarily in conjunction with multifactorial gender identity theory (see, e.g., Wardlow 1996).

If the relevant construct is gendered personality traits, then measurement using trait indexes like the BSRI may be sufficient. However, researchers must also consider the relevancy of instrumental and expressive personality traits to the stimuli used in the study, not just to the research question. From the literature review, it can safely be said that gendered personality traits are relevant in studies involving gender role portrayals in advertising (e.g., Coughlin and O'Connor 1985; Jaffee 1991; Jaffee and Berger 1988) in studies related to sex role orientation (e.g., Burns 1977; Qualls 1987), and in studies that examine consumer behaviors associated with specific gender personality traits, such as being sensitive to others' needs (expressiveness; gift giving/shopping; Fischer and Arnold 1990, 1994; Gould and Weil 1991) or confidence (instrumentality; information processing confidence; Kempf et al. 1997). While it is impossible to list all of the possible situations in which gendered personality traits are relevant, this partial list offers some guidelines to future research design. It must be emphasized that each study must individually consider this question and either omit the measurement of gendered personality traits when not relevant or make the changes necessary to achieve relevance.

Another issue to examine with respect to this research question is the identification of situations where the theoretical understanding of gender identity as a multifactorial concept is appropriate for inclusion in a study. That is, there may be situations where capturing the complexity of gender identity is warranted. But what might these situations be? When is it critical for consumer researchers to understand not only the impact of one's identification with gendered personality traits, but also the impact of one's attitudes toward gender roles and specific gender-related behaviors? A key to exploring this research avenue is the consumer behavior research that has already included several different gender-related variables, such as Fischer and Arnold (1994) and Gainer (1993).

Operationalizing multifactorial gender identity poses additional research directions. To capture the complexity of gender identity, several gender-related phenomena should be measured, including global gender self-concept, instrumental/expressive traits, and gender role attitudes, behaviors, and interests (Koestner and Aube 1995). Studies outside of consumer behavior report different arrays of gender-related measures; the array is dependent on the research question. For example, Aube and Koestner (1994) coded interview data, using the PAQ and the Sex Role Behavior Scale (Orlofsky 1981) as guidelines, to determine how childrearing practices impacted adult children's gender-related leisure pursuits, occupational choices, and childrearing values; in addition, participants' instrumental/expressive personality traits and global gender self-concept were assessed by having them complete the Adjective Checklist (Gough and Heilbrun 1983). In contrast, Spence (1993), in an examination of gender schema theory versus multifactorial gender identity theory, included instrumental/expressive trait measures (BSRI and the PAQ), explicit sex role measures (Attitude Toward Women Scale, Spence and Helmreich 1978; Social Interactions Scale from the Male-Female Relations Questionnaire, Spence, Helmreich, and Sawin 1980), and the Rules Questionnaire (Frable 1989), which examines rules in social situations including men's and women's behaviors.

Since there is no prescribed operationalization of multifactorial gender identity, one direction for consumer behavior researchers is to investigate existing measures for the purpose of determining which combination of measures seems to best capture the complex nature of gender identity in different research contexts. At a minimum, the selection of measures would need to include instrumental/expressive trait scales and global gender self-concept, which Spence (1993) reports can be sufficiently operationalized by items already included on some gendered personality scales, "masculine" and "feminine." Numerous measures for gender role attitudes and stereotypes already exist—some of these are mentioned in the previous paragraph, but certainly there are many others that could be examined (e.g., Sex Role Specificity measure, Settle, Alreck, and Belch 1981). Another tangent researchers could follow is to examine the development of one measure that captures multifactorial gender identity. One possible drawback to this approach is that such a measure would not allow for the flexibility that may be necessary when operationalizing gender identity in a given context.

Research Question 2: Are there additional personality traits or subdimensions of instrumental and expressive traits that are associated with gendered responses?

Both Barak and Stern (1986) and Palan et al. (1999) have suggested that the BSRI and the PAQ may measure personality traits that are different from instrumentality and expressiveness. This possibility has also been examined by Gill et al. (1987). While Barak and Stern (1986) state that the masculinity scale of the BSRI really measures self-assurance, Gill et al. (1987) interprets the masculinity scales of the BSRI and the PAQ as composite measures of instrumentality and autonomy, with each of these being broken down into further dimensions (i.e., the autonomy scale breaks down into forceful and adventurous dimensions and the instrumental scale breaks down into industrious and analytical dimensions). If, in fact, instrumentality and expressiveness have subdimensions, then it may be that these subdimensions are more indicative of differences in gendered consumer responses than the broader constructs typically measured. Thus, researchers could examine the usefulness of different combinations of individual traits within existing measures in explaining differences in consumers' behaviors. Another possibility is to start over—create new measures, starting with exploratory studies and gradually developing and refining trait measures. Qualitative research methods would be well-suited to this task.

One issue to consider in the development of new measures is sample selection. The original development of personality trait indexes (BSRI and PAQ) was based on the perceptions of university students (Bem 1974; Spence et al. 1975). Since

college-age students are still in the process of defining who they are, they may be more susceptible to social gender norms than are older adults with more stable identities (Palan et al. 1999). Therefore, using their perceptions may have produced gender identity instruments vulnerable to use with non-college-age populations. The development of new instrumental/expressive trait indices and gender identity measures should use sample populations representing a broad range of age groups, as well as other demographics that may impact gender-related measures, such as education, occupation, and income. The use of a broad-based sampling population in the development of gender-related measures would make the measures more robust with a variety of age groups used in future studies.

Another important issue to consider with respect to this research question is the cultural context in which gendered traits are being measured. As stated earlier in this paper, all of the research reported in this literature review was conducted in Western societies. In other cultures there may well be other traits associated with being male or female, or there may be different meanings ascribed to traits familiar to us with a Western framework. Consequently, there is a great need for cross-cultural research with respect to femininity and masculinity.

Research Question 3: What is the relationship between gendered personality traits and gender salience in different contexts?

Another significant issue demanding our attention is the variable nature of identification with gendered personality traits. Parallel to this is understanding that gender must be salient in a given situation in order for it to be relevant and to have a significant impact on other variables such as identification with masculine and feminine traits. Gould (1996, p. 481) has developed a typology of the interaction between gender identification (defined as the degree to which an individual invokes his/her gender identity) and gender salience, which indicates when there is likely to be a gendered attribution/response. Although the typology does not identify the content of gendered attributions, it does provide a useful framework for examining consumers' gendered responses and understanding whether responses stem primarily from gender identifications.

Specifically, researchers should explore the interplay between gender identity and gender salience in different situations. Gould's (1996) typology suggests that gender attributions may occur when gender identity effects are low; so, salience effects will be more important than gender identity in determining gender responses in some situations. Thus, researchers should examine consumers in different contexts, such as at work, at home, and with friends to determine how the combination of men and women and gender roles within groups affects identification with gendered personality traits and gender salience. Gender is thought to be more salient for all members of mixed-sex groups when there is an obvious minority sex within a group (Abrams, Sparkes, and Hogg 1985; Kanter 1977). For example, the woman who works in a predominantly male environment (e.g., business) or a man who works primarily with women (e.g., nurses) may be more aware of their gender and identify with gendered personality traits differently in their work environments than when they are with a same-sex group (e.g., men's and women's golf leagues).

Another issue to examine, with respect to this research question, is whether or not a consumer's identification with his/her gender (including variables like personality traits, global perceptions of gender, gender-role attitudes and behaviors, and gender stereotypes) serves as a cue itself to gender salience. One of the insights from gender schema theory that may inform this research direction is that individuals are more likely to activate their gender schemas—that is, to interpret and organize information around them in terms of gender—when women more strongly identify with feminine traits and men more strongly identify with masculine traits. Thus, for gender-schematic individuals, gender salience may be more easily activated; indeed, gender may always be salient to some consumers.

CONCLUSION

What might have seemed like a clear concept at the beginning of this paper, gender identity, is now, at the end of the review, seen for what it truly is—a complex, often misunderstood concept. In fact, for much of the life of gender identity research in consumer behavior we have misconceptualized the concept, often resulting in the lack of significant findings. Even when we did seem to have a better grasp of conceptualization, we failed to recognize that the label "gender identity"

was too broad for what we were really measuring, gendered personality traits. Despite this less-than-glorious past, however, is the opportunity to take new meanings from this literature review and to proceed in new directions. Understanding the complex and changeable nature of personality traits associated with gender categories, however, will be crucial to the meaningfulness and potential contributions of future studies. Researchers will have to carefully conceive and design studies based on the conceptual and methodological issues raised in this literature review. The reward, however, will be new insights and a much richer understanding of how gender affects and explains consumer behavior.

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