



Winery website loyalty: the role of sales promotion and service attributes

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Winery website loyalty: The role of sales promotion and service attributes

Purpose: toward buying wine on mobile phones and m-commerce website loyalty by examining a) the mediating role of sales promotion and b) the moderating role of service attributes of the m-commerce websites in influencing the mediation.

Design/methodology/approach: A total of 3,318 completed surveys were collected. Drawing on a large non-probability criterion-based purposive sample across six countries (France, Germany, Greece, South-Africa, United States and Canada) mediation analysis was performed to examine hypothesized relationships.

Findings: Results show that sales promotion mediates the relationship between feelings towards buying wine on mobile phones and m-commerce website loyalty. Moderated mediation reveals that the indirect pathways (sales promotion) through which feelings towards buying wine over mobile exert its effect on m-commerce website loyalty is dependent on the value of service (wine delivery) attributes of the website. The results demonstrate that sales promotion and service are of paramount importance to wineries and wine marketers.

Research implications/limitations: Wine producers and retailers should consider the use of sales promotion to enhance sales and loyalty to m-commerce websites.

Practical implications: Wine producers and retailers should consider use sales promotion (such as SMS or push notifications) to enhance sales and influence consumer feelings and hence their loyalty.

Originality/value: Wine m-commerce studies are limited, especially with an international perspective comparing 6 different countries: 3 from the old world (such as France, Germany and Greece) and 3 from the New World (North America with USA and Canada; and South-Africa). Altogether those 6 countries represent around 40% of the world consumption.

INTRODUCTION

With more than 139 million results produced by Google when the words "purchase" and "wine" are searched together, it is clear there is enormous competition for wine producers or retailers on the Internet. According to eMarketer (2015), total retail sales are growing slowly but steadily in the US. Although e-commerce is growing more quickly than offline sales, e-commerce is expected to rise only slightly as a share of the total, from 7.2% this year to 9.8%

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3 by 2019. Mobile e-commerce is an even smaller proportion, accounting for a tiny 1.6% of all
4 retail sales, and by 2019, its share is projected to be 2.7% of total sales. Mobile transactions
5 are increasing exponentially, with reports indicating that the worldwide mobile payment
6 volume in 2015 was 450 billion U.S. dollars and is expected to surpass 1 trillion U.S. dollars
7 in 2019 (Statista, 2016). This massive change summarizes the shift from a sedentary online
8 consumer, shopping on the Internet, to a ubiquitous consumer, who uses smartphones and
9 tablets to visit merchant websites. This means that customers can be reached directly on their
10 mobile devices anywhere, anytime, offering an unprecedented level of access to consumers
11 for marketers. M-commerce (mobile commerce) occurs by means of wireless devices, mainly
12 smartphones and tablets (Huang *et al.*, 2015; Shaikh & Gupta, 2014; Wu & Wang, 2005). M-
13 commerce shopping behaviors vary across countries (Pelet *et al.*, 2016), reflecting variations
14 in access to information and internet shopping habits of different age cohorts (Pelet & Lecat,
15 2014). M-commerce is expected to capture more wine shopping online irrespective of age of
16 the consumer. Understanding consumers' perceptions of m-commerce and the factors that
17 might positively and negatively affect these perceptions is thus important for wine marketers.
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30 The subject of the mobile interface connecting the user to an online store (e.g. smartphones or
31 tablets) remains an important subject that has received limited research attention. Devices,
32 such as smartphones, tablets and netbooks are recognized as being of great consequence for
33 online consumer behavior, as they offer more utilitarian and hedonic benefits than notebooks
34 or other devices (Ha & Park, 2013). Limited research on the topic of loyalty towards websites
35 selling wine is evident and the reasons why customers come back to websites and buy wine
36 are not theoretically grounded limiting understanding. Retailers who understand how to use
37 these latest digital distribution channels to help customers find, buy and use the products they
38 sell, will be rewarded with loyal customers who spend more and advocate the brand (Tubaro
39 *et al.*, 2012).
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48 Growth in mobile device usage, specifically of smartphones is favouring the surge in mobile
49 shopping (Lenhart *et al.*, 2011). Lee *et al.* (2015) propose that factors such as mobile phone
50 simplicity and interactivity are enhancing the user experience, leading to positive perceptions
51 about using a mobile phone for m-commerce. Some recent research has focused on the
52 adoption, acceptance and use of m-commerce; the utilitarian and hedonic factors that might
53 influence it (Li *et al.*, 2012); and its customer satisfaction (Choi *et al.*, 2008; Trevinal &
54 Stenger, 2014). Lee *et al.* (2015) also examined customers' positive involvement as a
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precursor to website loyalty finding that distrust mediates customer perceptions of various web features in the process of building customer loyalty.

This paper examines the relationship between feelings toward buying wine on mobile phones and loyalty toward the wine producer/retailers' m-commerce websites. Drawing on the literature this study proposes that sales promotion mediates the relationship between feelings toward buying wine on mobile phones and loyalty toward m-commerce websites, and that the indirect effect of sales promotion is dependent on service attributes of the wine producer/retailer's m-commerce website. The paper is organised as follows. First, we conceptualise online sales promotion, service delivery attributes of m-commerce websites, the affective state of buying wine on mobile phones and m-commerce website loyalty. We then develop the theoretical model and hypotheses. Finally, results and analyses are interpreted and the theoretical contributions and practical implications of the study discussed.

1. DEVELOPMENT OF THE THEORETICAL FRAMEWORK

This section starts with a discussion of the key constructs being investigated i.e. online sales promotion, feelings towards buying wine on mobile phones, m-commerce website loyalty and service attributes on websites, and then develops the theoretical model.

1.1. *Online sales promotion*

Online wine sales currently represent less than 5% of total wine sales in developed countries (Higgins *et al.*, 2014), although growth in online sales is expected. In a study across numerous industries, the most frequently used online advertising methods were email ads, social media and webpages (Leeflang *et al.*, 2014). Of the various promotional tools, online ads have been found to have a significant positive effect on sales (Peng *et al.*, 2014), alcohol consumption and intentions to purchase alcohol (see Lobstein *et al.*, 2017). Marketing promotions including limited time offers and discounts have been shown to increase online purchases (see Chan *et al.*, 2017). In the US wine industry specifically, Thach *et al.* (2014) found that online newsletters, social media, and electronic word-of-mouth were the most important online sales promotion tools. Online sales promotion offers practical advantages (temporal and spatial), financial advantages (through price comparison), and hedonic ways of

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3 consuming (Eroglu *et al.*, 2001). Thus, positive feelings towards buying wine via mobile
4 phones could be stronger when sales promotion is present on the sellers' website.
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8 **1.2. Feelings toward mobile-wine purchasing**

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11 When people are feeling positive, they tend to have more favourable expectations for the
12 future (Masters & Wyndol, 1976). We expect that if consumers have positive feelings about
13 buying wine using m-commerce they will be more likely to make purchases from a wine firm
14 or seller's website. This is consistent with Wu *et al.*'s (2008) study suggesting that emotions
15 are a significant predictor of purchase intention, especially in the wine industry where wine
16 itself can offer high emotional utility (Dressler, 2016). Further evidence on the role that
17 emotions play in online purchasing is summarised in Chan *et al.* (2017). Chan *et al.* (2017)
18 identified numerous studies examining affective reactions and concluded that consumers
19 indulge in online impulse-buying responses when they experience positive affective
20 reactions, such as pleasure and arousal. Taken together, literature summarised in the Chan *et al.*
21 (2017) review suggests that pleasure motivates impulse buying, and arousal mobilizes the
22 process indicating the importance of emotion in m-wine purchasing.
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32 **1.3. M-commerce website loyalty**

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36 Previous research has suggested that customer loyalty should be the consequence of
37 perceived value, customer satisfaction, trust and habit (Lin & Wang, 2006). Online loyalty or
38 e-loyalty has been defined as a consumer's intention to buy from or visit a website again (Cyr
39 *et al.*, 2006; Flavián *et al.*, 2006; Yoon *et al.*, 2008). According to Dressler (2016) "*wine*
40 *consumers increasingly explore new wines, alternative wineries, and innovative offerings*"
41 and the propensity to seek variety limits customer loyalty (Schipperges, 2013). Although
42 wineries are aware of the need to react to customer changes the degree of interaction remains
43 low (Jungbauer, 2012), which is surprising given current technical capabilities.
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46 As noted by Osuna Ramírez *et al.* (2017) loyalty has been studied from two perspectives,
47 namely stochastic and deterministic. According to stochastic views a behavioural view is
48 taken and loyalty is considered as repeat purchase (behavioural loyalty). This is in contrast to
49 the deterministic view termed attitudinal loyalty, which holds a more relational viewpoint
50 suggesting that loyalty is a function of a consumer's commitment to a product which in turn
51 can lead to referral behaviour. Buying intentions provide a measure of attitudinal loyalty
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(Rundle-Thiele, 2005) in addition to measures capturing customer's psychological attachment, willingness to recommend the service provider and engage in positive word-of-mouth (WOM) communications (Kaur & Soch, 2013). It follows then that satisfied customers who are members of a wine group or have liked a wine fan page, for example, may be willing to engage in WOM communications. Attitudinal loyalty captures a degree of dispositional commitment that is associated with repeat purchase behaviour (Chaudhuri & Holbrook, 2001) but is distinct from behavioural loyalty which captures a consumers repeat purchase patterns (Osuna Ramírez *et al.*, 2017). Wine customers increasingly access and use different channels jeopardizing customer loyalty for the direct to consumer business of wine estates (Engelhard, 2011). Offers with more active customer involvement can help to counteract diminishing attitudinal loyalty (Bruwer and Thach, 2013).

1.4. Service attributes of wine websites

In our conceptualisation, we have taken into account that wine is heavy, fragile and difficult to deliver, requiring special care from transporting companies. It is important for e-commerce orders to attain on-time delivery in order to maintain customer trust and satisfaction (Pelet *et al.*, 2016). Bressolles and Durrieu (2011) suggest that the main components of e-service quality are information, ease of use, and the design, reliability and security of the website. Consistent with these components, we conceptualise that the service delivery attributes of a wine website include follow-up communication, on-time delivery, tracking service and low delivery charges.

Drawing on previous literature (Mehrabian and Russell, 1974) we developed a moderated mediation model that examines sales promotion as the mediating mechanism and website service attributes as the variable moderating the effect of feelings toward mobile wine buying on m-commerce website loyalty. This proposition is based on Mehrabian and Russell's (1974) PAD theory which describes how the "Feelings towards buying wine via mobile phone" have an effect on the "Importance of sales promotions" and on the "Mobile website loyalty". According to PAD "Online service (wine delivery) attributes of the winery website" will have a moderating effect on the link between the "Feelings towards buying wine via mobile phone" and the "Mobile website loyalty". The moderator explains when or under what conditions a particular effect can be expected whereas a mediator explains how or why a particular effect or relationship may occur. The three most commonly used measures of

emotions are: pleasure, arousal and dominance (PAD) (Sørensen, 2008; Koufaris, 2002), which are normally related to the environmental stimuli component in m-commerce (Kaikkonen, 2012).

Figure 1: The role of sales promotion and service attributes

Figure 1 about here	<p>X = Feelings towards buying wine via mobile phone</p> <p>Y = Mobile website loyalty</p> <p>Mi = Importance of Sales Promotions</p> <p>W = Online service (wine delivery) attributes of the winery website</p>
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Based on relevant literature we propose:

H1: The relationship between feelings toward buying wine via mobile phone and m-website loyalty is mediated by sales promotion.

H2: The relationship between feelings towards buying wine via mobile phone and m-commerce website loyalty will be stronger when online service (wine delivery) attributes of the winery website is higher.

H3: The relationship between feelings toward buying wine via mobile phone and m-website loyalty is mediated by sales promotion and this effect will be stronger when online service (wine delivery) attributes of the winery website is higher.

2. RESEARCH METHOD

The study was implemented on the Internet in five countries using a questionnaire embedded on a landing page designed using responsive web design (i.e. adaptable to all screen sizes and devices) in order to facilitate the answering of questions on any type of device (from smartphones to laptops). The online survey was offered in a paper version for administration in the US where data were collected in person. Data was collected between the months of October and December 2016 using both personal and online questionnaires. Non-probability, criterion-based purposive sampling was used because it allowed the researchers to intentionally select participants who have experience with the central phenomenon being

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3 explored (Hair *et al.*, 2009). Online surveys were distributed on social media and via emails.
4 The questionnaire was structured into three sections: (1) wine purchasing and consumption,
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6 (2) m-wine purchasing, and (3) personal information.
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9 10 **2.1. Sample and Data collection**

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12 A total of 3318 completed surveys were collected from respondents in six countries (France,
13 Germany, Greece, South Africa, United States and Canada). These countries have been
14 chosen for multiple reasons: some of them are major global wine producing countries
15 (France, Germany, South Africa, United States), others are not wine producers, and others are
16 heavy wine drinkers (Greece). All countries represent 40% of global wine consumption.
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20 In this study, the central phenomenon under investigation is m-wine purchasing. The sample
21 was initially screened for legal drinking age, ownership of a smartphone for online access and
22 online wine behaviours. Specifically, we screened to ensure participants were members of a
23 wine club or liked a fan page dedicated to wine. The final sample dataset consisted of 2754
24 valid respondents after applying selection criteria.
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32 **2.2. Survey Instrument**

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34 To measure the feelings with regards to buying wine using a mobile phone, we adapted
35 Mehrabian and Russell's (1974) PAD scale. Participants responded to questions assessing
36 their feelings, using bi-polar items with anchors including harmful/beneficial,
37 unpleasant/pleasant, bad/good, worthless/valuable, and unenjoyable/enjoyable on a five-point
38 semantic differential scale, where 1 represented "negative feelings" and 5 "positive feelings".
39 We used the PAD scale due to its consistently high reliability (Valdez & Mehrabian, 1994).
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47 Website loyalty has been defined in terms of usability, which includes the promptness with
48 which the system can be used (Davis, 1989), and its user friendliness, ease of navigation and
49 organization (Parasuraman *et al.*, 2005). In our conceptualization, m-commerce website
50 loyalty is the extent to which a consumer is going to visit the m-commerce website to get the
51 information he or she needs, and the extent to which a visitor has the behavioural tendency to
52 regularly visit a wine website. This construct was measured with four items using a 5-point
53 Likert type scale, where 1 was "strongly disagree" and 5 was "strongly agree". Items
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3 included: I know which website I should visit to get the information I need; I am loyal to a
4 particular website; I can find my favorite website address without much effort; I can
5 immediately recognize my favorite website address if it is presented among other addresses.
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9 The service attributes of an m-commerce website are defined as the extent to which such
10 attributes encourage buying wine on a mobile phone. We asked respondents to rate items on a
11 Likert-type scale where 1 denoted “very unimportant” and 5 denoted “very important”. A
12 total of four service attribute measures were used: on-time delivery; quality of the wine;
13 tracking your online purchase and low delivery charges. The assumption is that quality of
14 wine and on-time delivery influence website revisits while being able to track orders online
15 assures consumers and builds confidence in the transaction exchange. Yoon (2002) found that
16 both trust and satisfaction positively influenced website revisits. We asked participants to rate
17 the importance of online sales promotion when buying wine through mobile phones,
18 measured on a 5-point scale where 1 denoted “unimportant” and 5 denoted “important”.
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27 In our study, m-commerce website loyalty is the dependent variable. The independent
28 variable consisted of consumer feelings toward buying wine using mobile phones. Service
29 (wine delivery) attributes and sales promotion efforts entered the model as moderating and
30 mediating variables respectively. We deemed it necessary to control for wine expertise and
31 drinking habits on the hypothesised relationship (moderated mediation). The rationale behind
32 controlling these factors stem from argument that a high level of wine expertise correlates
33 with drinking habits, volume and the value of purchase (Trent & Bastian, 2007).
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40 **2.3. Scale Validation**

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43 Using Preacher *et al.*'s (2007) procedure, we report a moderated mediation test of our model.
44 The most commonly used test for internal consistency is Cronbach's alpha (Cronbach, 1951)
45 and values for the independent and mediating and moderating factors ranged between .69 and
46 .89 on this test. Rossiter (2002) suggests the importance of expert judgement for the face
47 validity of the research instrument. Accordingly, twelve experts from marketing and
48 information science fields critically evaluated all the items in the research instrument to
49 assess content validity, representativeness, dimensionality, comprehensibility and
50 unambiguity.
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Table 1 about here

To analyse unidimensionality, exploratory factor analysis (EFA) was employed using SPSS, version 20. This was followed by confirmatory factor analyses (CFA) for validation of the measurement model. All of the fit indices (RMR = 0.03, GFI = .99, AGFI = .98, NFI = .98, TLI = .98, CFI = .99 RMSEA = 0.03) were in the acceptable range as suggested by Bentler (1992). In addition, we found all the individual factor loadings to be highly significant, giving support for convergent validity (Gerbing & Anderson, 1988). We calculated the Cronbach alpha coefficient, composite factor reliability, and average variance extracted for each of the scales and the values were in the desirable range except for online service (wine delivery) attributes, which fell just below the cut-off criteria. We made the decision to retain service (wine delivery) attributes for mobile wine purchase in our analysis on theoretical grounds (Cronbach's alpha: 0.69). We also tested for alternate models and found the original models to be better than all the constrained models. Table 2 shows that our measures have the required construct validity.

Table 2 about here

3. RESULTS & DISCUSSION

We used hierarchical multiple regressions to test Hypothesis 1 and hierarchical moderated regression to test Hypothesis 2. In all analyses we entered the control variables of wine expertise and drinking habit. All variance-inflation factors in our regression were below 2; and none of the bivariate correlations had high coefficients, suggesting that multicollinearity is not an issue in our analysis.

3.1. Mediation: the role of sales promotion (H1)

Preacher *et al.*'s (2007) process was used to investigate the first hypothesis (H1) suggesting that the importance of sales promotion mediates the relationship between feelings towards buying wine on mobile phone and m-commerce website loyalty. Path analysis indicated feelings towards buying wine on mobile and online sales promotion was positive and statistically significant ($\beta = .17, p < .001$). The positive correlation suggests that consumers

receiving sales promotion on their mobile device express more positive feelings towards buying wine on mobile devices. The path online sales promotion and website loyalty, while statistically significant, offered minimal effect ($\beta = -.06$, $p < .001$). This finding suggests a negative effect of sales promotion on website loyalty. In other words, loyalty to winery websites decreases with the increase of sales promotions. The linkage between loyalty and sales promotion has been studied in various contexts and has produced mixed results. For example, there are studies that support the negative effect of sales promotion and loyalty (e.g. Hunt & Keaveney, 1994; Yoo, Donthu, Lee, 2000) while other find positive effects (e.g. Oliver, 1977; Dick & Basu, 1994; Krishnan, 1996).

The overall indirect (mediation) effect was tested using a bootstrap estimation approach with 1000 samples (Shrout & Bolger, 2002). The results indicated the indirect coefficient was significant in our analysis. The indirect effect observed was for feelings towards buying wine (X) on mobile phones via sales promotion (Mi) to m-commerce website loyalty (Y) ($\beta = -.01$, S.E. = .03, Boot LLCI = -.02, Boot ULCI = -.01). The results show that the direct effect of feelings towards buying wine on mobile phone and loyalty towards m-commerce websites in the presence of online sales promotion was not significant ($\beta = -.03$, S.E = .01, $p > .05$). This result supports the mediational hypothesis and is consistent with full mediation (Baron and Kenny, 1997). We found that higher levels of website promotions are linked to lower likelihoods of website loyalty. This result is consistent with literature suggesting that sales promotion may harm brand equity (Allaham, 2015).

Table 3 about here

3.2. Moderation – the role of online-service (wine delivery) attributes (H2)

We followed Preacher *et al.* (2007) to establish moderation when testing Hypothesis 2 that importance of online service (wine delivery) attributes of the winery website moderates the relationship between feelings towards buying wine via mobile phone and m-commerce website loyalty. After controlling for wine expertise and drinking habits, feelings toward buying wine on mobile phones and website loyalty was significant and positively related ($\beta = .03$, S.E = .01, $p < .05$) and the mediating factor online sales promotion and website loyalty was negatively related ($\beta = -.06$, S.E. .01, $p < .001$). The moderating variable online service (wine delivery) attributes and website loyalty was significant and positively related ($\beta = .15$,

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3 S.E = .02, $p < .001$). The interaction term for feelings towards buying wine on mobile phone
4 with online service (wine delivery) attributes ($\beta = .09$, S.E = .02, $p < .001$) was also
5 significant in predicting website loyalty (See Table 4).
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10 Table 4 about here
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12 13 **3.3. Moderated mediation (H3)** 14

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16 We followed Preacher *et al's* (2007) procedure to test a moderated-mediation model (a and b
17 paths are both moderated by W). Table 5 reports a special case when both the a_1 (Feelings
18 towards buying wine via mobile phone \rightarrow Importance of Sales Promotions) and b_1 paths
19 (Importance of Sales Promotions \rightarrow Mobile website loyalty) of an otherwise simple
20 mediation model are moderated by W (Online service (wine delivery) attributes of the winery
21 website). This special case of moderated mediation is demonstrated by researchers (See
22 Murray *et al.*, 2003; Bauer *et al.*, 2006; Muller *et al.*, 2005). Hayes (2013) defines moderated-
23 mediation when the indirect effect of X on Y through M_i is moderated by W, this means that
24 mediation of the effect of X on Y is moderated; a phenomenon called moderated mediation
25 (p.389). Moderated mediation was assessed following Hayes (2013) to determine whether the
26 strength of the mediation (sales promotion) differs across the levels of the moderator
27 (service) in explaining the effect of feelings towards buying wine on mobile phones and
28 website loyalty. Moderated mediation is demonstrated when the conditional direct effect of
29 feelings towards buying wine on mobile phones and on website loyalty via sales promotion
30 differ in strength across the values of the moderator (wine delivery service attributes). We
31 operationalized high and low levels of online service attributes as one standard deviation
32 above and below the mean score. Table 5 presents the estimates, standard errors, and
33 significance value of the conditional direct effect of independent on dependent variable at
34 values of the moderator.
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52 Results show that online services such as wine delivery attributes moderate the mediation of
53 online sales promotion between the positive feelings towards buying wine on mobile phone
54 and m-commerce websites loyalty (H3). As additional observations, we see that the effect of
55 feelings towards buying wine on mobile phones and m-commerce website loyalty is stronger
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3 when buyers receive higher levels of service from m-commerce websites (e.g. on-time
4 delivery; quality of the wine; tracking your online purchase and low delivery charges).
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8 Results also show that for online services and in particular wine delivery attributes, the
9 conditional direct effects are at higher values of the moderator ($\beta = .11$, S.E = .02, $p < .001$)
10 than at the mean score ($\beta = .03$, S.E = .02, $p = .05$). In other words, the role of sales
11 promotions decreases when service delivery of the winery website increases. Taken together,
12 results verify our observation that there is a moderated mediation. Specifically, feelings
13 towards buying wine on mobile phones and on website loyalty via sales promotion differs in
14 strength across the values of the moderator (wine delivery service attributes).
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23 4. CONCLUSIONS

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26 This paper examines a) the mediating role of sales promotion on the relationship between
27 feelings towards buying wine through mobile phones and m-commerce website loyalty, and
28 b) the moderating role of service attributes of m-commerce websites in influencing the
29 mediation. We found that sales promotional efforts mediate the relationship between positive
30 feelings towards buying wine via mobile phone and m-commerce website loyalty. Online
31 service moderates the strength of the mediated relationship between positive feelings towards
32 buying wine on mobile phone and m-commerce websites loyalty via sales promotions. Our
33 results shed further light onto these relationships. For example, positive feelings towards
34 mobile wine buying and loyalty towards m-commerce websites are related to higher levels of
35 online sales promotion. Results show that for online service such as wine delivery attributes,
36 the conditional direct effects are at higher values of the moderator than at the mean score.
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46 Taken together, results support our proposal that there is a moderated mediation between
47 feelings towards buying wine on mobile phone and being loyal to the website selling wine
48 (see Tables 3 & 4). This suggests promotional efforts are effective when service attributes are
49 delivered moderating the likelihood of repeat purchase.
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53 4.1. Practical Implications

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3 The growing use of radio technology systems such as Beacon¹ provide wine sellers with
4 “push marketing” techniques that can be used to maximise loyalty assuming customer’s
5 delivery satisfaction standards are met. Push marketing, including mobile email, SMS, in-app
6 and other push notifications, offer wine marketers the potential to reach customers with
7 messages whenever and wherever they are, enabling further growth of m-commerce. As it is
8 becoming increasingly difficult for wine brands, especially the small ones, to grab the
9 attention of current and prospective customers, messages which solicit a call to action such as
10 sales promotion must be delivered to customer’s satisfaction.
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18 The development and improvement of new technologies will make the mobile experience
19 even more convenient in the future. However, wine is a specific commodity good where the
20 associated services are important. On time delivery is crucial and associated services such as
21 storing the wine in a proper place with the right temperature, hygrometry and luminosity
22 conditions offer avenues to exceed expectations. This is especially the case for the luxury
23 wines because the product should be perfect when consumed. Offering cellar condition
24 information on websites should be a priority for m-commerce wine marketer strategy.
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31 The results of the current study indicate a unique tension for wine marketers. While sales
32 promotions can deliver increased purchasing (Chan *et al.*, 2017) they run the risk of eroding
33 customer loyalty, which over time will have impacts on word of mouth and customer referral
34 behaviour. This tension indicates a delicate balancing act is needed to ensure that short-term
35 gains from sales promotions do not erode profits in the longer term. A strategic emphasis on
36 service delivery will yield greater effects in the long term given that effects are higher when
37 higher service standards are perceived.
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44 ***4.2. Limitations of the research and recommendations for future research***

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48 There are limitations of this research. The first limitation pertains to uneven distribution of
49 samples across six countries and limitations associated with convenience sampling methods
50 used by the research team. Thus, the results of this study are not generalizable. We
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56 ¹ Beacons transmit small amounts of data via Bluetooth Low Energy (BLE) up to 50 meters, and as a result are
57 often used for indoor location technology, although beacons can be used outside as well.
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3 recommend future research employing a random sampling or stratified sampling approach to
4 ensure demographic spread before definitive conclusions are drawn. Second, for the proposed
5 moderated mediation, participants were classified as wine loyalist based on club
6 memberships and/or "fan" pages, which may oversimplify attitudinal predispositions held by
7 consumers. Future research offering more nuanced assessments of attitudinal loyalty are
8 recommended to further extend understanding. Feelings towards buying wine via mobile
9 phone were generated from a review of the literature, limiting insights that could be gained in
10 the current study. Additional research is recommended. In particular, qualitative methods are
11 recommended to extend our understanding of emotional connections between consumers and
12 wine for m-commerce. Additional research is recommended to examine group differences
13 within countries and to undertake country comparisons to establish boundary conditions for
14 the model. Future research could include other countries with growing wine consumption
15 such as China (including Hong Kong and Taiwan), Singapore, Russia, Brazil and important
16 European countries such as Italy.
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28 This examination centred on m-commerce. Future empirical research is recommended in a
29 wine e-commerce to extend understanding. M-commerce offers 24-7 wine marketer access to
30 consumers extending marketer reach beyond what previously achievable when compared to
31 traditional bricks and mortar retailing. Future research is recommended to examine attitudes
32 towards wine purchasing behaviors, including differences between m-wine purchasers vs.
33 non-purchasers, as well as differences across different age groups. It will be also interesting
34 to compare results between subgroups and between countries. In addition, the measurement
35 of feelings with the methodology PAD can be replaced by more sophisticated methods such
36 as implicit measurement methods.
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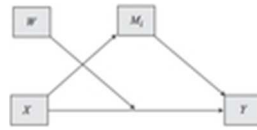
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Research Model

21x10mm (150 x 150 DPI)

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Journal of Wine Business Research

TABLES

Table 1: Internal consistency assessment

Factors	Cronbach α	Mean	S.D.	Y	Mi	X	W
X	.71	3.7	.70	<i>I</i>			
Mi	.70	2.7	1.0	-.04*	<i>I</i>		
X	.89	2.8	.92	.06**	.15**	<i>I</i>	
W	.69	3.8	.84	.14**	.27**	.15**	<i>I</i>

Note: ** Correlations are significant at the 0.01 level (2-tailed).

- X = Feelings towards buying wine on mobile phone
 Y = Mobile website loyalty
 Mi = Importance of Sales Promotions
 W = Service (wine delivery) attributes of the website

Table 2: Results of construct validity

	CR	AVE	MSV	ASV	W	X	Mi
W	0.70	0.35	0.17	0.10	0.59		
X	0.90	0.63	0.04	0.03	0.19	0.80	
Mi	0.60	0.47	0.17	0.10	0.41	0.18	0.66

Note: *Factor correlations and discriminant validity (square root of average variance extracted displayed on the diagonal).

- X = Feelings towards buying wine on mobile phone
 Mi = Importance of Sales Promotions
 W = Service (wine delivery) attributes of the website
 CR = Composite Reliability
 AVE = Average Variance Extracted
 MSV = Maximum Shared Variance
 ASV = Average Shared Variance

Table 3: Results for testing of mediation H1

IV ↓	DV: Mi	DV: Y
X	.17*** (.02)	.03 ^{NS} (.01)
Mi		-.06*** (.01)
HABIT		.01 ^{NS} (.01)
EXPERT		.02 ^{NS} (.02)
R²	.16	.20
F	21.30***	18.79***

Note: *** p<.001, ** p<.01, * p<.05, NS p>.05

Number of bootstrap samples for bias corrected bootstrap confidence intervals: 1000

Level of confidence for all confidence intervals in output: 95.00

Y = Website loyalty
 Mi = Online sales promotion
 X = Feelings towards buying wine on mobile phone
 HABIT = Glass of wine consumption per week
 EXPERT = Knowledge and experience of wine

Table 4: Results for testing of moderation H2

IV ↓	DV: LOY	LLCI	ULCI
FMOB	.03* (.01)	.01	.06
PROM	-.06*** (.01)	-.08	-.03
SERV	.15*** (.02)	.12	.19
FMOB X SERV	.09*** (.02)	.06	.13
HABIT	.01 ^{NS} (.01)	-.02	.03
EXPERT	.02 ^{NS} (.02)	-.05	.05
R²	.20		
F	18.79***		

Note: *** p<.001, ** p<.01, * p<.05, NS p>.05

Number of bootstrap samples for bias corrected bootstrap confidence intervals: 1000

Level of confidence for all confidence intervals in output: 95.00

LOY = Website loyalty
 PROM = Online sales promotion
 FMOB = Feelings towards buying wine on mobile phone
 HABIT = Glass of wine consumption per week
 EXPERT = Knowledge and experience of wine
 SERV = online-service (wine delivery) attributes

Table 5: Moderated mediation result for sales promotion and online (wine delivery) service H3

Moderator	Level	Conditional direct effect	SE	Sig	LLCI	ULCI
Online service (wine delivery) attributes	-.84	-.05	.02	.03	-.09	-.01
	.00	.03	.02	.05	.00	.06
	.84	.11	.02	.00	.07	.15