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Interaction Effects of Arousal Level of Positive Ambient Emotion and Advertisement Type on Product Evaluation

Nak Hwan Choi*
Tamir Oyunbileg**

The purpose of this study is to show that the effectiveness of utilitarian versus hedonic attribute-focused advertisement on product evaluation depends on the arousal level of positive emotion, and to explore mediation effect of cognitive response to utilitarian attribute-focused advertisement and affective response to hedonic attribute-focused advertisement on the effectiveness of utilitarian versus hedonic attribute-focused advertisement. This research employs a 2 (arousal level: mild vs. elevated) × 2 (advertisement type: utilitarian vs. hedonic) between-subjects design, and 200 undergraduate students participate in the experiment, in which there are 50 students at each experimental group. The results of ANCOVA with positive emotion level as a covariate on advertised product evaluation show significant interaction effect of arousal level and advertisement type, and no effect of positive emotional level. Both of the mediation effects of the cognitive response and those of the affective response are significant. Participants under mild (elevated) arousal of positive emotion more positively evaluate the product in utilitarian (hedonic) attribute-focused advertisement. The positive effect of utilitarian (hedonic) attribute-focused advertisement on product evaluation is partially mediated by cognitive (affective) response to the advertisement when consumers are under the mild (elevated) arousal of positive emotion. The results of this study show that advertisers should use utilitarian (hedonic) attribute-focused advertisement to consumers under the mild (elevated) arousal of ambient positive emotion, which should be searched by exploring what kind of event they have experienced.

Key words: advertisement type, affective response, arousal, cognitive response

* Professor, Dept. of Business Administration, Chonbuk National University, South Korea (cnh@jbnu.ac.kr)
** Lecturer, School of Business Administration and Humanities, Mongolian University of Science and Technology, Mongolia (tamira_0127@yahoo.com)
I. Introduction

Affect can be explained as a combination of valence, which refers to the positive or negative nature of an affective experience, and arousal, which is defined as the subjective experience of energy mobilization ranging from sleepy to frantic excitement (Mehrabian & Russel, 1974). For example, obtaining a dream job at an important stage in life is likely to lead to an elevated arousal of positive emotion, whereas receiving small incentives in ordinary daily life is likely to lead to a mild arousal of positive emotion.

A number of past studies have investigated the influence of emotional valence on choice behaviors. For instance, feeling happy can be a success signal of achieving a pursued goal, and can lead to happiness maintenance behaviors. People in positive ambient mood tend to refrain from mood-threatening behaviors. However, according to the literature about emotions, differences in affective meaning can be described by arousal as well as by valence (Bradley & Lang, 1994). For example, though both excitement (elevated arousal) and peacefulness (mild arousal) are positive-valence emotion, excited (peaceful) consumers evaluate the adventurous (serene) vacation more favorably than peaceful (excited) consumers (Kim et al., 2010). Further, Fedorikhin and Patrick (2010) postulated that mild arousal of positive emotion makes people more likely to choose a healthy option over a sinful hedonic option when faced with temptation, but the contrast effect is true with an elevated arousal of positive emotion.

For managing advertisement, interesting questions arise: How do marketers advertise their products to persuade consumers who are experiencing positive ambient emotion with different arousal levels (i.e., mild vs. elevated)? How do consumers’ product evaluations change when the product is advertised using different attribute focuses (i.e., utilitarian vs. hedonic)? Little attention have been paid to the interactive impact of arousal level (mild vs. elevated) and advertisement type (utilitarian-focused vs. hedonic-focused) on advertised product evaluation.

In this article, we examine how product evaluations are influenced by the interplay between the advertisement type and the arousal level of a positive ambient emotion that is unrelated to the product, and we investigate the underlying mechanisms for the interaction effect by examining the mediating roles of cognitive and affective responses to the advertisement.

II. Theoretical Background and Hypotheses Development

2.1 Hedonic vs. Utilitarian Attribute-Focused Advertisements

It is now ubiquity that all products are gen-
erally classified into two categories: utilitarian and hedonic. Broadly speaking, hedonic goods (e.g., designer clothes, sports cars, luxury watches, chocolate fall etc.) provide more experiential consumption, fun, pleasure, and excitement, whereas utilitarian goods (e.g., microwaves, minivans, personal computers, etc.) are primarily instrumental and functional.

Furthermore, previous research suggests that any product can contain both hedonic and utilitarian attributes with some degree (Chernev, 2004; Hirschman & Holbrook, 1982). Utilitarian (size, speed) concern the ability that a product can execute to fulfill consumers’ needs that serve for maximizing desirable end state or minimizing undesirable end state in long-term (Chernev, 2004). But hedonic attributes of a product (i.e., car design and color) are more associated with the joyful and the sensorial characteristics that serve for providing pleasantness and immediate gratification (Botti & McGill, 2011).

Theories of advertising effects based on cognitive models postulate that advertising affects the product evaluation by changing consumers’ beliefs about the product (e.g., Batra & Ray, 1986). However, affective attitudes toward the advertisement could also seem to linearly influence the attitude toward the advertised product (e.g., Burke & Edell, 1989; Pham et al., 2013) because the feelings and the thoughts are generally considered as two independent mediators in evaluation systems (Burke & Edell, 1989). Exposure to advertisement can generate the particular types of nodes related to it. Advertisements can convey meanings of products that go far beyond their physical features by which consumers could draw upon associations or memory network to catch up with the implicit meaning they convey (Pham et al., 2013). The most salient attributes can receive more attention and provide more insight into a task (Chernev, 2004). Therefore, advertisement can change products into different entities by using either utilitarian or hedonic attribute-focused framing as its highlight.

2.2 Interaction Effect of Arousal levels of Positive Emotion and Advertisement types on Product Evaluation

According to mood congruency theories, individuals’ emotional valence—positive or negative—polarizes the judgment. A network theory suggests that positive affect-laden information is more efficiently processed under positive mood, whereas negative affect-laden information has more efficient processing advantage under negative mood because people occupy affectively associated memory (Forgas & Bower, 1987). Furthermore, mood-as-information theory (Schwarz & Clore, 1983) proposes that when making a judgment, people use “How do I feel about it?” heuristic, wherein the prevailing mood is mis-attributionally used as one obvious gauge. Further, many researchers have postulated that people
under the positive mood do not engage in pro-
active behavior in anticipation of the mood-
threatening cues (Mood-maintenance theory; 
Clark & Isen, 1982). Also, the hedonic con-
tingency hypothesis suggested that happy peo-
ple, who are more sensitive to hedonic contexts 
since they think fewer actions will improve the 
happy mood, more carefully choose activities to 
maintain the mood (Wegener & Petty, 1994).

In the past studies, the judgment is a function 
of the direction of valence of emotion, which is 
characterized as a static affective evaluation 
theory (Andrade, 2005). However, when am-
bient positive emotion is attributed to task per-
formance, arousal level of the emotion becomes 
different according to the degree to which the 
task performance is self-relevant. Past studies 
on the roles of emotional valence did not give 
attention to the roles of arousal level of the 
positive ambient emotion.

In contrast to the valence-based theories, a 
growing body of study has considered that emo-
tion can be explained through combining its 
valence- positive and negative- and its arousal 
degree- mild and elevated (e.g., Gorn et al., 
2001; Libkuman et al., 1999; Mehrabian & 
Russel, 1974). Varying arousal levels of any 
positive emotion ranging from drowsiness to 
excitement which can generally be categorized 
into mild arousal and elevated arousal exert 
substatively distinct impacts on consumer be-
havior (Fedorikhin & Patrick, 2010).

Earlier work revealed that elevated arousal in 
any emotion can narrow the focus of attention 
to enable a person to mainly concentrate on more 
salient stimuli (e.g., Libkuman et al., 1999). 
Positive elevated emotion induces consumers 
to have hedonic consumption goal that provide 
Immediate reward because the emotions prompt 
them to deplete cognitive ability (Sanbonmatsu 
& Kardes, 1988), and help feel licensed not to 
act in a virtuous way (Dunning, 2007) and could 
lead them to do self-gratification behavior. The 
positive elevated emotion can lead to overeating 
in restrained conditions (Cools et al., 1992), and 
more reliance on the advertisement’s affective 
tone when evaluating the advertisement (Gorn 
et al., 2001). However, mild arousal of positive 
emotion generally gives consumers mental en-
ergy to be cognitively motivated for long-term 
rewards to help pursue the long-term success 
and well-being rather than immediate rewarding 
when faced with the choice between healthy and 
nonhealthy options (Fedorikhin & Patrick, 2010).

In the view of goal-attribute or task compat-
ibility principle (Fischer et al., 1999; Tversky, 
Sattath, & Slovic, 1988), the weighting value 
of inputs is increased by their compatibility with 
the output, and the most prominent attributes 
receive more weight in tasks that require dif-
ferentiating between the alternatives. Display 
of compatible message could elicit a regulatory 
mean to achieve the goal. Therefore, product 
evaluations are a function of the degree of the 
compatibility.

In sum, hedonic (utilitarian) attributes of the
product may be compatible with the goal of the consumers under elevated- (mild-) aroused positive emotion because the elevated (mild) positive emotion induces an increased focus on immediate pleasures and rewards (long-term rewards). Therefore, we suggest the following hypotheses about the interactive function of arousal level of positive ambient emotion and advertisement type on advertised product evaluation.

**Hypothesis 1a:** When consumers are under mild arousal of positive emotion, they evaluate the product in utilitarian attribute-focused advertisement more positively than the one in hedonic attribute-focused advertisement.

**Hypothesis 1b:** When consumers are under elevated arousal of positive emotion, they evaluate the product in hedonic attribute-focused advertisement more positively than the one in utilitarian attribute-focused advertisement.

### 2.3 Mediating Roles of Cognitive and Affective Response to Advertisement

The advertisement framing with the specific product attributes may induce assimilative interpretation effects. For example, framing the target “car” product with special hedonic attribute such as “luxurious” or “brand new designed” may result in assimilated perception such as “This is a luxurious car,” or “This is a brand new car”. Puto and Wells (1984) postulated that transformational advertisement focused on the emotional aspects of the advertised product connects the consumers so tightly with the expected experience of using the advertised product, which should generate more affective responses to the advertisement. In contrast, informational advertisement that focuses on the product’s utilitarian attribute information should generate more cognitive responses to the advertisement (Edell & Burke, 1987). Accordingly, hedonic attribute-focused advertisement can predominantly evoke affective (vs. cognitive) responses, and the reverse is true for utilitarian attribute-focused advertisement.

On the other hand, studies on context effects and information accessibility effects (see Schwarz & Bless, 1992) suggested that particular product attributes in harmony with certain contexts, are more accessible when evaluating the product. Also, a study of “think” vs. “feel” framing effects in persuasion showed that the framing has a great influence on persuasion if the frame is compatible with the target consumers’ current attitude orientation (Mayer & Tormala, 2010).

Mild arousal of positive emotion helps consumers have cognitively motivated orientation toward long-term rewards, whereas elevated arousal of positive emotion leads to affectively motivated orientation to immediate rewards (e.g., Fishbach & Labroo, 2007). Therefore alternative framing for the same options can entail intensive changes in choice (e.g., Tversky & Kahneman, 1986). These results of past studies are in accordance with the compatibility principle that
postulates “…the more important dimension of a decision problem looms larger in choice…” (Tversky, Sattath, & Slovic, 1988, p. 371).

In addition, positive elevated emotion helps consumers to deplete cognitive ability and have hedonic consumption goal (Sanbonmatsu & Kardes, 1988), which in turn, could lead them to the place of doing self-gratification behavior. The positive elevated emotion can help them give more attention to affective aspects of the advertisement exposed to them (Gorn et al., 2001). However, positive mild emotion generally helps consumers be cognitively motivated for long-term rewards by giving mental energy to them when deciding the choice between healthy and nonhealthy options (Fedorikhin & Patrick, 2010). Therefore the positive mild emotion could help them give more attention to cognitive aspects of the advertisement.

On the other hand, the increased cognitive (affective) response to the advertisement could signal consumers under mild (elevated) arousal of positive emotion, who are cognitively (affectively) motivated for long-term rewards (immediate rewards), that the advertised product is compatible with their long-term (immediate) rewards.

Taken together, for the consumers under mild arousal of positive emotion, the advertisement should afford them to generate more cognitive (vs. affective) response to the advertisement, if so, they are more likely to positively evaluate the advertised product. But the reverse is true for the consumers under elevated arousal of positive emotion. Thus, cognitive and affective response to the advertisement could be a critical factor for understanding the underlying mechanism operating in the interactive roles of arousal level of positive emotion and advertisement types on product evaluation. To illustrate, we develop the following hypotheses.

Hypothesis 2a: When consumers are under mild arousal of positive emotion, the positive effect of utilitarian attribute-focused advertisement on product evaluation will be mediated by cognitive response to the advertisement.

Hypothesis 2b: When consumers are under elevated arousal of positive emotion, the positive effect of hedonic attribute-focused advertisement on product evaluation will be mediated by affective response to the advertisement.

III. Experimental Design and Measurement

3.1 Experimental Design and Development of Scenarios and Advertisements

This research employs a 2 (arousal level of positive emotion: mild vs. elevated) × 2 (advertisement type: utilitarian vs. hedonic) between-subjects design, uses a restaurant service as an experimental object for two reasons.
First, student participants are familiar with restaurant services and tend to experience the service in their daily lives regardless of their emotional arousal levels. Second, restaurants can provide both salient hedonic and utilitarian attributes, allowing us to create two types of advertisement as independent variable in this experiment. A restaurant with the fictional name PALLADIO unknown to the participants was used to avoid response biases from the participants' familiarity with an experimental object.

Authors classify restaurant service attributes as shown in Table 1 to develop two types of advertisements: utilitarian attribute-focused advertisement (see Appendix I) and hedonic attribute-focused advertisement (see Appendix II).

This research adopts a “scenario” method to induce different levels of arousal of positive emotion as moderating variable. For the scenario triggering mild arousal of positive emotion, the event of finding a part-time job with good conditions was described (see Appendix III). For the scenario inducing elevated arousal of positive emotion, we described the good news that (s)he has succeeded in a job interview needed to enter famous company (see Appendix IV). The amounts of information to process in the two scenario descriptions were equivalent.

3.2 Procedure and Measurement

We asked participants to read the scenario and to imagine that they were actually experiencing the scenario event. After reading the scenario, participants responded to the series of questions measuring the level of attention paid to the scenario, positive emotion, and arousal level. The level of attention to the scenario and the advertisement was measured using three items (attention, involvement, and commitment) (see Labroo & Rucker, 2010). We measured positive emotion by using six items (happy, pleased, delighted, satisfied, eager, and joyful) (Watson et al., 1988) and positive arousal level by using five items (jittery, active, excited, positively aroused, and stimulated) (see Fedorikhin & Patrick, 2010) on 7-point scales (1 = not at all, 7 = a lot).

Next, we instructed the participants to read the restaurant advertisement with time limitation of ten seconds (sufficient time to read the advertisement), and were asked to answer a set

<table>
<thead>
<tr>
<th>Hedonic attributes</th>
<th>Taste of food, Interior decoration, Size of indoor space, Comfortable seating, User image, Outward appearance, Atmosphere, Friendliness of employees, Comfortable place to socialize, Overall impression.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Utilitarian attributes</td>
<td>Speed of service, Healthy menu options, Variety of menu choices, Special discounts, Coupons, Location, Nutrition information for menu items, Hours of operation, Enough place for parking, Servers’ knowledge about menu.</td>
</tr>
</tbody>
</table>
of questions that cover advertisement characteristics, affective and cognitive response, and the restaurant evaluation (dependent variable). Advertisement characteristics were measured by using three items anchored at 1 (performance/cognitive appeal/cognitive urge) and 7 (hedonic/affective appeal/affective urge) (Fedorikhin & Patrick, 2010). Affective response were measured by using eight semantically different affective reaction scales: “I felt love when I saw this advertisement,” “I was delighted when I saw this advertisement,” “I felt happy when I saw this advertisement,” “I felt calm when I saw this advertisement,” “I was excited when I saw this advertisement,” “I was relaxed when I saw this advertisement,” “I felt acceptable when I saw this advertisement,” “I felt joy when I saw this advertisement”: and cognitive responses were measured by seven semantically different cognitive reaction scales: “I thought this advertisement is useful,” “I thought this advertisement is wise,” “I thought this advertisement shows safety of using the restaurant,” “I thought this advertisement is beneficial,” “I thought this advertisement is valuable,” “I thought this advertisement is perfect,” “I thought this advertisement stresses wholesomeness,” on 7-point scales (1 = not at all, 7 = a lot), based on the “measures of affect and cognition” which were developed and validated by Crites et al. (1994). Restaurant evaluation was measured using six items: “I like this restaurant,” “I favor this restaurant,” “I think this restaurant is attractive,” “I think the quality of this restaurant is good,” “I would like to visit this restaurant,” and “I think this restaurant is pleasant” on 7-point scales (1 = not at all, 7 = very much), which are adopted from previous studies (Fennis & Bakker, 2001; Zhang & Khare, 2009). Finally, participants answered questions about demographic information and were debriefed.

3.3 Pretest and Participants

In pretest, we selected 40 undergraduate students of large university, divided them into two groups which include 20 students for each. And we distributed mild arousal-inducing scenario questionnaire to one group and distributed elevated arousal-inducing scenario questionnaire to the other group, and asked them to read the scenario distributed to answer on the items related to the positive emotion and the arousal. Both of the two groups showed positive emotions ($M_{\text{mild positive}} = 4.33, \text{SD} = 1.45$: $M_{\text{elevated positive}} = 6.05, \text{SD} = .67$): and as expected, there was significant arousal difference between the two groups ($M_{\text{mild positive}} = 4.17, \text{SD} = .50$ vs. $M_{\text{elevated positive}} = 5.21, \text{SD} = 1.05$: $t(38) = -3.982, p < .01$). We selected 40 undergraduate students again, and randomly distributed 40 advertisement questionnaires (20 for each type of advertisement) to them and asked them to read the advertisement distributed to answer on the items related to the advertisement characteristics. Advertisement characteristics were
shown to be different between two groups divided by advertisement type read by the participants (Mutilitarian advertisement = 2.03, SD = .96 vs. Mhedonic advertisement = 6.38, SD = .55; t(38) = -17.54, p < .01).

200 undergraduate students of the university participated in the main study for class credit and they were randomly assigned to one of four experimental conditions (50 for each condition). All of them were told that they would be participating in two short studies and they also had a chance to win a reward ($10 gift card for 10% of the participants). 58.5% of the participants were male and 95% of them were belonged to the “20–29 years old” category.

IV. Empirical Results

4.1 Confound and Manipulation Check

The results of one-way ANOVA showed no differences of attention to scenario among the four conditions (F (3, 196) = .294, NS), and also no differences of attention to advertisements among the four (F (3, 196) = .086, NS). Thus, participants’ attention levels paid to the scenarios and advertisements were perceived to have no confounding effects on the results of testing the hypotheses.

We conducted confirmatory principal factor analysis with SPSS 18.0 on the items measuring positive emotion and arousal level, and also conducted the analysis on the items measuring cognitive response, affective response, and advertised product evaluation. Varimax rotation removed pos5 (eager) and aro4 (positively aroused) since they were highly loaded on both of the two factors, Cog3 (safety), af4 (calm), and af6 (relaxed) were also removed because they were highly loaded on other factors. The values of items for each construct were averaged and used in following empirical study.

Next, the results of t-test showed positive emotions in both the mild and the elevated (Mmild positive = 4.40, SD=1.28; Melevated positive = 6.26, SD = .77), arousal level difference between the two scenario conditions (Mmild positive = 4.19, SD = .63 vs. Melevated positive = 5.23, SD = 1.09; t(198) = -8.158, p < .01), difference of advertisement characteristics between the advertisement types (Mutilitarian advertisement = 2.16, SD = 1.10 vs. Mhedonic advertisement = 6.19, SD = .75; t(198) = -30.166, p < .01). Thus, the manipulations for the arousal levels and advertisement types were succeeded.

4.2 Testing hypotheses

We conducted a 2 (positive ambient affect level: mild vs. elevated) × 2 (advertisement type: utilitarian attribute-focused vs. hedonic attribute-focused) ANCOVA (with positive emotion as a covariate) on advertised restaurant evaluation. The restaurant evaluations of the
four experimental groups are given in Table 2. The results showed neither a main effect of arousal level \( (F (1, 195) = .45, NS) \) nor a main effect of advertisement type \( (F (1, 195) = 3.16, NS) \). However there was a significant interaction effect \( (F(1, 195) = 124.15, p<.01, \eta^2_p = .389, 1-\beta = 1.0) \), and positive emotion had no effect on evaluation \( (F(1, 195) = 1.5, NS) \).

To better understand the interaction effect, we conducted separate analysis for each of the mild and the elevated. In the mild arousal of positive emotion condition, participants who exposed to the utilitarian attribute-focused advertisement more positively evaluated the restaurant than those who viewed the hedonic attribute-focused advertisement \( (F (1, 99) = 76.96, p<.01, \eta^2_p = .440, 1-\beta = 1.0) \), whereas the reverse was true in the elevated arousal of positive emotion condition \( (F(1, 99) = 48.98, p < .01, \eta^2_p = .333, 1-\beta = 1.0) \). Thus, the hypotheses 1a and 1b were supported.

Before testing the hypotheses 2a and 2b, one-way ANOVAs were conducted on the cognitive and affective responses to each advertisement. As expected, participants in the utilitarian attribute-focused advertisement condition reported higher cognitive (vs. affective) response, whereas the reverse was true for those in the hedonic attribute-focused advertisement condition \( (M_{\text{cognitive response}} = 4.17, SD = 1.32 \text{ vs. } M_{\text{cognitive response}} = 3.05, SD = .98; t(198) = 6.785, p < .01) \) \( (M_{\text{affective response}} = 4.19, SD = 1.50 \text{ vs. } M_{\text{affective response}} = 3.37, SD = 1.17; t(198) = -4.315, p < .01) \).

To examine H-2a and H-2b, we checked the mediation roles of cognitive response and affective response on the relationship between advertisement type and product (restaurant) evaluation at each of the two groups: the mild arousal of positive emotion and the elevated arousal of positive emotion. Under the mild arousal condition, the advertisement type predicted product evaluation \( (\beta = -.663, p < .01, R^2=.440) \), the advertisement type predicted cognitive response \( (\beta = -.684, p < .01, R^2=.467) \) but not affective response \( (\beta = .139, NS) \), and cognitive response predicted product evaluation \( (\beta = .719, p < .01, R^2=.517) \).

<table>
<thead>
<tr>
<th>Arousal level</th>
<th>Advertisement type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mild (-1)</td>
<td>Utilitarian attribute-focused (-1)</td>
</tr>
<tr>
<td>Elevated (+1)</td>
<td>Hedonic attribute-focused (+1)</td>
</tr>
</tbody>
</table>

Note: The number in parentheses is the standard deviation; the number in brackets \( \diamond \) is the value of the dichotomous variable in the experimental study; \( n \) is the number of participants.
However, when the product evaluation was regressed on both advertisement type and cognitive response, the effect of the advertisement type on product evaluation was attenuated ($\beta = -.322, p < .01, R^2 = .572$). In contrast, under the elevated arousal condition, the advertisement type predicted product evaluation ($\beta = .577, p < .01, R^2 = .333$), the advertisement type predicted affective response ($\beta = .499, p < .01, R^2 = .249$) but not cognitive response ($\beta = -.093, R^2 = .44$, NS), and affective response predicted product evaluation ($\beta = .511, p < .01, R^2 = .261$). However, when the product evaluation was regressed on both advertisement type and affective response, the effect of the advertisement type on product evaluation was attenuated ($\beta = .429, p < .01, R^2 = .400$). Additionally, the results of Sobel test (Sobel, 1982) indicated that the mediation effects of both cognitive response under the mild emotion condition ($Z_{\text{cognitive under mild arousal}} = -6.87, p < .01$) and affective response under the elevated emotion condition ($Z_{\text{affective under elevated arousal}} = 4.09, p < .01$) were significant. Thus, the results supported H-2a and H-2b.

### V. Summary and Discussion

#### 5.1 Summary and Theoretical Implication

Current research demonstrated that when consumers are under mild (elevated) arousal of ambient positive emotion, utilitarian (hedonic) attribute-focused advertisement positively influences on the advertised product evaluation, and explored the positive effect of advertisement type on product evaluation is partially mediated by cognitive (affective) responses to the utilitarian (hedonic) attribute-focused advertisement when consumers are under the mild (elevated).

To the best of our knowledge, our study is the first that explores both the interaction effects of the arousal levels and the advertisement type and the mediation roles of cognitive and affective responses. Therefore, firstly, the results of this study contribute to advertisement theory by exploring the interaction effects of the arousal level and advertisement type on product evaluation. Secondly, our study also contribute to the theory of consumer psychology by demonstrating that the cognitive (affective) response to the utilitarian (hedonic) attribute-focused advertisement plays mediating roles on the advertisement effects when consumers are under the mild (elevated).

#### 5.2 Managerial Implication

One tricky question in the application of this study is how advertising managers can separate customers based on their arousal level of positive ambient emotion. Finding right target consumers is an issue to the managers. It is
possible that the arousal can be easily found in the real world. For example, a psychological state of the elevated (mild) arousal can be triggered by being accessed to marital transition from single to married status, social status transitions to validate his or her roles such as university graduation, or meeting with friend improved with age, etc. (becoming a long-distance runner, winning small incentives in ordinary life, ordinary meeting with an acquaintance, etc.). Therefore the managers should search the events that customers experienced in advance.

And although the arousal level can moderate product evaluation effects of advertisement type, at the core of our finding is how advertisers use the arousal level. In addition, from the perspective of the current research, advertisers should check whether their utilitarian (hedonic) attribute-focused advertisement would evoke enough cognitive (affective) response to the consumers under the mild (elevated) arousal of positive emotion before launching their advertisement to increase the effectiveness of it.

In sum, advertisers should search what kind of event the consumers have experienced, and use utilitarian (hedonic) attribute-focused advertisement when consumers are under the mild (elevated) arousal of ambient positive emotion, study could expand our findings to negative emotion context. Cognitive appraisal theories (e.g., Lerner & Keltner, 2000) suggest that there can be motivational differences among the types of positive emotions. Therefore, future research should investigate the interaction effect in view of cognitive-appraisal differences among the specific types of positive emotion. Integrated emotional feelings about the product are different from ambient emotion, and could play important role in the target judgment especially when the integrated feelings are believed to be representative of the target (Pham et al., 2001). Therefore, the role of arousal level of integrative emotion on the effect of advertisement type should receive attention from researchers.

Previous study has dealt with the effectiveness of congruency between type of communication and type of product (e.g., Pham et al., 2013). Thus, one interesting question is remained—is a hedonic or utilitarian attribute-focused advertisement checked in the current study equally effective for a hedonic vs. utilitarian product? Future study should check this by considering the hedonic/utilitarian nature of the product.

5.3 Limitation and Future Research

Current study investigated the interaction effects focused on only positive emotion. Future
References


Appendix I: Utilitarian Attribute-Focused Advertisement

Appendix II: Hedonic Attribute-Focused Advertisement
Appendix III: Mild Positive Emotion

I am a simple college student living apart from my parents. I rely on my parents for my tuition fees and living cost. Even though they work hard to support me, the money they send me is not always sufficient to meet my requirements for the whole expenses of my college life. That’s why I have tried to find a part time job compatible with my schoolwork. One day, by just chance, I came across a job offer that would provide me with good terms including the working hours that do not interrupt my class schedule. I had no reason to hesitate but applied to the position. And today, I received a phone call from the boss who notified me to start working from the next week onwards.

Appendix IV: Elevated Positive Emotion

I am a senior student at university, and I have studied very hard with the purpose to enter a very famous company. I am eager to achieve this goal successfully because it is not only my biggest dream in my life but also my parents’. My parents have done their best to support me, and I have spent a lot of time, money, and effort to pass the entrance interview. Today, I found out the interview result, YES! I finally did it! I have accomplished my goal! Now I am feeling happy, proud, and excited about this success.