



## Current Issues in Tourism

**Are they companions or intruders? The impact of advertising tourists' images on consumers' purchase intention to tour packages**

<b>Submission ID</b>	246561231
<b>Article Type</b>	Current Issues in Method and Practice
<b>Keywords</b>	tourists' images, tour packages, cognitive consistency theory, embodied mental simulation, relevant travel experience, purchase intention
<b>Authors</b>	Xiaoyi Li, Wei Xu, Yanchang Yang

For any queries please contact:

RCIT-peerreview@journals.tandf.co.uk

Note for Reviewers:

To submit your review please visit <https://mc.manuscriptcentral.com/cvp-cit>

1  
2  
3  
4  
**Are they companions or intruders? The impact of advertising tourists'**  
5  
**images on consumers' purchase intention to tour packages**  
6  
7  
8

9 Xiaoyi Li<sup>a</sup>, Wei Xu<sup>a\*</sup>, Yanchang Yang<sup>b</sup>  
10  
11

12 *a College of Tourism and Service Management, Nankai University, Tianjin 300350,*  
13  
14 *China.*

15  
16 *b School of Sociology and Political Science, Shanghai University, Shanghai 200444,*  
17  
18 *China*

19 Corresponding author: Wei Xu\*, master student at the College of Tourism and Service  
20 Management, Nankai University, Tianjin, China. Email: <xuwei\_steven@163.com>.  
21 Telephone number : +8613723681819. His research interests include tourism  
22 marketing and tourist behavior.

23  
24 Xiaoyi Li, PhD, associate professor at the College of Tourism and Service Management, Nankai  
25 University, Tianjin, China < nk\_lxiaoyi@126.com >. His research interests include big data,  
26 asymmetric information, and behavioral economics.

27  
28 Yanchang Yang, master student at the School of Sociology and Political Science, Shanghai  
29 University, Shanghai, China <1748443487@qq.com >. His research interests include behavior  
30 of young traveller and lifestyle traveller.

31  
32  
33  
34  
35  
36 **Declarations of competing interest**

37  
38 The authors report there are no competing interests to declare.

39  
40  
41  
42  
43 **Acknowledgement**

44  
45 This work was supported by the [National Social Science Fund of China] under Grant  
46 [number 23BLJ124] awarded to the first author.

1  
2  
3  
4  
**Are they companions or intruders? The impact of advertising tourists'**  
5  
**images on consumers' purchase intention to tour packages**  
6  
7  
8  
9

10 Tourists' images, as one of the most common elements in travel product  
11 advertising, play an important role in product promotion. Despite their  
12 significance, few studies have examined how advertisements with tourists'  
13 images affect consumers' perceptions and purchase intentions to tour packages.  
14  
15 In this study, we analyze the features of tour package advertisements with  
16 tourists' images, and construct a theoretical model based on cognitive  
17 consistency theory. Our study finds that advertisements with tourists' images  
18 promote consumers' purchase intention to group tour packages but weaken  
19 purchase intention to self-guided tour packages. This process is found to be  
20 mediated by embodied mental simulation. Moreover, this difference between  
21 group and self-guided tour packages is significant only for consumers with more  
22 relevant travel experience. The findings enrich travel product marketing research  
23 and offer practical insights for tourism marketing.

24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35     **Keywords:** tourists' images, tour packages, cognitive consistency theory,  
36  
37 embodied mental simulation, relevant travel experience, purchase intention  
38  
39

40  
41     **Introduction**  
42  
43

44     In 2022, nearly 70% of consumers expressed a preference for booking travel  
45 products from online travel agencies (OTAs) rather than directly from suppliers  
46 (Condor Ferries, 2023). To promote travel products, photo advertisements (ads) have  
47 long been one of the most predominant forms of advertising for OTAs. Offering  
48 superior information conveyance and authenticity (Lundby, 2014), these photo ads  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60

1  
2  
3  
4  
5 prompt potential consumers to simulate travel situations and experience (Tercia et al.,  
6  
7 2020), and also influence their online purchasing (He et al., 2023).  
8  
9

10 Within OTA marketing contexts, tourists' images are very common in photo  
11 advertisements (Figure 1). Moreover, the impact of tourists' images in photo ads is  
12 likely to vary across different scenarios of travel product. These tourists' images as  
13 "other strangers", drawing from Urry's notion of the gaze, if were viewed as objects of  
14 the "cluster gaze", they are "companions" symbolizing group journeys and celebration  
15 (Urry & Larsen, 2011); alternatively, through the "romantic gaze", the images may  
16 convey the idea of "intruders" disrupting own private journeys (Urry & Larsen, 2011).  
17  
18 This difference inspired us to think further about whether advertising tourists' images  
19 play the same role in the promotion of different types of tour packages, one of the most  
20 important products provided by OTAs.  
21  
22

23 As the world's second largest OTA market after the United States (Hotel Mize,  
24 2020), two main types of tour packages are provided in the Chinese market: the  
25 traditional group tour package (GTP) and the self-guided tour package (STP). The  
26 former have long been popular in the Chinese market because they are competitively  
27 priced, save preparation time, and reduce uncertainty in unfamiliar environments (Jin  
28 et al., 2014; T. Wen et al., 2021). However, GTPs are also characterized by less freedom  
29 of social interaction and movement (T. Wen et al., 2021), tourists will always form a  
30 group with strangers and carry out the tour activities under the guidance of a  
31 professional guide (Chiang & Chen, 2014; Wang et al., 2013; Wong & Wang, 2009),  
32  
33

and, more recently, the health risks of being within a group during the COVID-19 pandemic received attention (J. Wen et al., 2021). For these reasons, travelers nowadays tend to have a greater desire for packages that allow them to autonomously find new experiences on their own or with their friends at destinations (Jin et al., 2014). In response to these market changes, OTAs have offered a new type of tour package, the STP, which is more customized and appealing. Tourists on an STP are free to add or remove package components from the menu provided by the merchants, which means the tour route are all flexible (T. Wen et al., 2021). More importantly, STPs do not require the tourist to be a member of a group with strangers, which is more suitable for individuals and acquaintance tourist groups (Lin & Kuo, 2018; T. Wen et al., 2021). STPs presently account for nearly 20% of China's travel product market and the proportion is growing at a very high rate (CT News, 2023).

Given the significant differences between the GTP and STP, especially in social interaction, tourists' images as an object of gaze, may elicit divergent responses in the advertising of the two types of tour packages (Lin & Kuo, 2018; T. Wen et al., 2021). To be precise, these images as "others" may have differentiated impacts on consumers in different tour package ads, but this has not been studied hitherto. To bridge the gaps, our research had two primary objectives. First, we explored how the contents and forms of photo ads for tour packages were characterized when tourists' images are present (vs. absent). Secondly, we explored interactions between advertising tourists' images and different tour packages. Accordingly, we posed the following research questions:

1  
2  
3  
4  
5 *RQ1: what features of tour packages' photo advertisements are associated with the*  
6  
7 *presence (vs. absence) of tourists' images?*

8  
9  
10 *RQ2: Considering the main features, how do advertising tourists' images (vs. their*  
11  
12 *absence) affect consumers' mental processes and behavioral intentions in*  
13  
14 *relation to different tour packages?*

15  
16  
17  
18 To answer these questions, this research comprised four studies. Based on the  
19 cognitive consistency theory, it was found that the effects of tourists' images (vs. their  
20 absence) on consumers' intention to purchase tour packages were mediated by  
21 embodied mental simulation, and the process was moderated by consumers' relevant  
22 travel experience. The study makes several important contributions. First, it highlights  
23 a key boundary condition under which tourists' images exert positive marketing effects.  
24 Second, it enriches the literature related to tourists' images, especially in the context of  
25 travel products' advertising. Finally, this study identifies the root causes of consumers'  
26 mental and behavioral differences, and the findings offer evidence-based insights for  
27 the precision and long-term promotion of travel products.

28  
29  
30  
31  
32  
33  
34  
35  
36  
37  
38  
39  
40  
41  
42  
43  
44 **Literature review and hypotheses**

45  
46  
47 ***The impact of tourists' images in photos***

48  
49 Recent research has underscored the pivotal role of tourists' images in  
50 photographs (Bakhshi et al., 2014; Deng & Liu, 2021; Lu et al., 2023; Schoner-Schatz  
51  
52 et al., 2021; Zhang et al., 2023), for example in enhancing audiences' intention to visit  
53  
54  
55  
56  
57  
58  
59  
60

the destinations and promoting word-of-mouth (Schoner-Schatz et al., 2021). Most of these studies have focused on particular features of the tourists in the images, such as their facial expressions (Schoner-Schatz et al., 2021), gender and age (Deng & Liu, 2021). However, studies that have assessed simply the influence of their presence versus absence have produced mixed results, some finding positive effects (Joe et al., 2021; Park et al., 2021; Zhang et al., 2023) and others negative impacts in terms of (Back et al., 2020; Lu et al., 2023).

For example, for tourist-generated photos, Zhang et al. (2023) found that appropriately proportioned human elements can promote viewers' willingness to visit the destination (Zhang et al., 2023), while Lu et al. (2023) pointed out that the presence of tourists in such photos will weaken the viewer's preference for the venue in the photo (Lu et al., 2023). On hotel booking websites, tourists' images can encourage viewers to book rooms (Joe et al., 2021; Park et al., 2021). However, this positive effect may be determined by the size of the photo (Back et al., 2020): when these images are added to large-size photos, they weaken the perceived transportation and reduce consumers' booking intentions (Back et al., 2020). Evidently, the role of tourists' images may produce bias effect in different travelling situation. Despite the complexity, it is crucial to acknowledge that most of the research regard the images of tourists as "companions" who build up social atmospheres (Joe et al., 2021; Park et al., 2021). However, as Lu et al. (2023) pointed out, in some particular situations they are often considered to be the "intruders" of the venue, which weakens the viewer's psychological ownership and

1  
2  
3  
4  
5 behavioral intentions (Lu et al., 2023). Yet the latter situation remains underexplored  
6  
7 and warrants further attention.  
8  
9

10  
11 ***Cognitive consistency theory***  
12

13 Cognitive consistency theory suggests that when faced with a large quantity of  
14 information, consumers will prefer to access the parts that are consistent with their  
15 existing cognitive systems (Festinger, 1957). This state of cognitive harmony is  
16 pleasurable to consumers and thus they show favorable attitudes to and higher  
17 evaluations of phenomena or objects that enhance the coherence of their frames of  
18 reference (Osgood & Tannenbaum, 1955; Tseng & Wang, 2023). Conversely, cognitive  
19 dissonance (Akerlof & Dickens, 1982) may develop if the information conflicts with  
20 consumers' own knowledge, experience, or cultural beliefs (Akerlof & Dickens, 1982);  
21 to reduce that dissonance and the associated state of mental discomfort, consumers need  
22 to deploy psychological resources to rectify the incongruence, resulting in aversion to  
23 or lower evaluations of the objects (Guo et al., 2018; Iyengar & Hahn, 2009).

24  
25  
26 It is important to ensure the information conveying by the merchants is  
27  
28 consistency with consumers' cognition, as the cognitive harmony state could promote  
29  
30 the attitude and behavior intention towards the brand and products (Hsieh, 2023; Ma et  
31  
32 al., 2021; Tseng & Wang, 2023). In the field of tourism, this effect also has been  
33  
34 validated. Lin and Kuo (2018) found that tourists will make different responses in  
35  
36 various context to maintain cognitive consistency: in tourists' cognition, GTP restricts  
37  
38 their freedom, while STP is more autonomous, as a results, GTP tourists put less effort  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60

1  
2  
3  
4  
5 into autonomously constructing a unique image of the destination in the trip, whereas  
6  
7 STP tourists engage in a more proactive construction process (Lin & Kuo, 2018).  
8  
9

10  
11 ***The effect of tourists' images on purchase intention***  
12

13 Consumers' cognitions of different types of tour packages diverge markedly,  
14 influencing their cognitive biases towards GTP and STP, and these biases in turn affect  
15 their behavioral intentions (Liu et al., 2015). To be specific, consumers consider GTPs  
16 as having strong group attributes and necessary interaction with strangers, and the  
17 bundled services make consumers feel more restricted in their social interactions  
18 (Chiang & Chen, 2014; Wang et al., 2013; Wong & Wang, 2009). The STP, on the  
19 other hand, is associated with greater autonomy, with tourists typically traveling alone  
20 or with just a few others, typically without unfamiliar people (Lin & Kuo, 2018; Prayag  
21 et al., 2015; Wang et al., 2000), tourists still feel free for their social interactions.  
22  
23

24 Serving as an important source of information in photo advertisements for  
25 destinations and tours, as the object of consumers' gaze, tourists' images as "other  
26 strangers" create a traveling situation full of unfamiliarity, social atmosphere, and  
27 collective attributes (Joe et al., 2021; Park et al., 2021; Urry & Larsen, 2011). For GTPs,  
28 photo ads with tourists' images convey information representing social restrictions that  
29 are consistent with consumers' cognition of GTPs, such as "needing to be accompanied  
30 by strangers," "traveling in a unfamiliar group," and "guided tours" (Chiang & Chen,  
31 2014; Wong & Wang, 2009). Thus they enhance consumers' purchase intention for  
32 GTPs. However, for STPs, they creates a dissonance with consumers' cognitions, in  
33  
34

relation, for example, to “autonomy,” “no need to be in a group,” and “traveling alone or with my own acquaintances” (Lin & Kuo, 2018), and instead hinder consumers’ purchase intention. Based on the above discussion, this study proposes:

**H1.** The effect of tourists’ images on purchase intention may varies in different tour packages.

**H1a.** For GTPs, tourists’ images promote purchase intention.

**H1b.** For STPs, tourists’ images weaken purchase intention.

### *The mediating effect of embodied mental simulation*

Given the differences in consumers’ cognitions of GTPs and STPs, particularly regarding the social interaction, the cognitive harmony or dissonance between the tour packages and the advertising tourists’ images could probably affect consumers’ mental processes as well. From the point, how tourists’ images affect consumers’ behavioral intention is assumed here to be linked with embodied mental simulation, a mental process derived from the foundational principles of mental simulation and embodied cognition theory (Robin & De Bont, 2023).

Embodied mental simulation suggests that consumers activate their memory and cognitive systems in response to visual, auditory, tactile, and olfactory representations (Elder & Krishna, 2011), and use these information cues to simulate specific consumption situations and relate them to their own sensory experiences (Bagatini et al., 2023; Yeh & Barsalou, 2006). For instance, Elder and Krishna (2011) demonstrated that the orientation of the spoon in an image of a yogurt can significantly

1  
2  
3  
4  
5 influence the strength of embodied mental simulation of consuming it, particularly if  
6  
7 the orientation aligns with the dominant hand of the viewer (Elder & Krishna, 2011).  
8  
9

10 This finding underscores that embodied mental simulation is closely related to an  
11 individual's cognition and experience, and that stimulus images are more likely to  
12 facilitate embodied mental simulation if they are consistent with individual's cognition  
13 or hinder the process if there is a mismatch (Elder & Krishna, 2011; Xie et al., 2016).  
14  
15

16 In the field of tourism, research has shown that mental simulation is also  
17 common in tourists' pre-visit mental activities (Tercia et al., 2020; Walters et al., 2012).  
18 Photo advertisements, as external visual stimuli, can provide tourists with effective  
19 materials to assist them in simulating and imagining their future traveling situations and  
20 experiences (Tercia et al., 2020), and the process is thought to be tied with individuals'  
21 cognition (Walters et al., 2012). From the perspective, as the viewed others, the images  
22 of tourists may also inspire consumers' mental simulation if consistent with  
23 consumers' cognition. Also, recent studies have confirmed that embodied mental  
24 simulation induced by visual stimuli can promote positive behaviors, such as  
25 consumer's preference and the purchase intention to tourism products (Bagatini et al.,  
26 2023; Chen & Lin, 2021; Elder & Krishna, 2011; Walters et al., 2012). Based on the  
27 above discussion, this study proposes:  
28  
29

30 **H2.** The impact of tourists' images on purchase intention is mediated by embodied  
31 mental simulation.  
32  
33  
34  
35  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60

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

### ***The moderating role of relevant travel experience***

Relevant travel experience is defined as the sum of a consumer's experience of travel activities associated with the travel product (Alba & Hutchinson, 1987), and it reflects consumers' actual consumption behaviors and purchase experiences with a particular type of travel product (Bettman & Park, 1980). It can be measured both subjectively and objectively (Dodd et al., 2005), where the former draws on consumers' own cognitions and evaluations (Brucks, 1985; Dodd et al., 2005) and the latter reflects the actual total amount of consumers' accumulated experience, usually in terms of the duration and frequency of product consumption over a certain period (Li et al., 2021; Tussyadiah & Pesonen, 2016). Relevant travel experience is cumulative and shapes individuals' knowledge and cognitive system, which in turn directly or indirectly influences decision-making (Dodd et al., 2005). Moreover, the impact of relevant travel experience may vary; for example, Li et al. (2021) found that for tourists with more travel experience, travel time scarcity significantly enhances their impulse purchasing intentions, while for tourists with less travel experience, travel time scarcity reduces their intentions (Li et al., 2021).

Based on the discussion above, the study proposes that relevant travel experience moderates the influence of tourists' images on embodied mental simulation and purchase intention. Specifically, consumers who lack travel experience are initially still in the stage of learning and accumulating experience and do not construct different cognitions for the two types of tour packages (Bettman & Park, 1980); consequently,

the series of effects proposed in this study are not manifested. However, as the amount of travel consumption experience increases, consumers' experience will have more entrenched heuristic cognitive patterns (Li et al., 2021), and consequently integrate photo ads with that experience to simulate GTP or STP consumption, which will intensify either cognitive consistency or dissonance in response to the advertisements.

Therefore, this study proposes:

**H3.** For consumers with rich relevant travel experience, there is a significant impact of tourists' images on embodied mental simulation and purchase intention, while the impact is not significant for consumers with little relevant travel experience.

Figure 2 sets out the theoretical frame for the present research.

## Methodology

To answer RQ1 and RQ2, we conducted an exploratory content analysis (Study 1) and three experimental studies (Studies 2-4) in total. Study 1 analyzed the content of different photo advertisements and characterized the features when tourists' images were present and absent. Study 2 examined the main effect of photo advertisements for tour packages on purchase intention (H1). Study 3 examined the mediating role of embodied mental simulation (H2) and again tested H1 and H2. Study 4 examined the moderating role played by relevant travel experience in the influence of advertising tourists' images on embodied mental simulation and purchase intention (H3). Before the experimental studies could be done, it was necessary to conduct a pre-survey to determine the experimental materials.

1  
2  
3  
4  
**5 Study 1: the features of photo advertisements for tour packages**  
6  
7  
8

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

We selected Ctrip (<https://www.ctrip.com/>) as the case platform, which belongs to Trip.com, the third largest OTA in the world in terms of market capitalization, as well as currently the largest OTA platform in China in terms of users and market share, occupying 36.3% market share and ranking first in the industry (Hotel Mize, 2020). We reviewed the report published by the China Tourism Academy (CTA, 2023) and chose Sanya, Lijiang and Suzhou as the case destinations, largely on the basis of the total number of tourists in 2022 and a range of landscapes among these destinations. To ensure the diversity of the advertisement samples, we captured the ads on two of the peak tourist dates in China, i.e., the golden weeks of May Day (5/2023) and National Day (10/2023), and on each occasion we randomly collected 150 photo ads for each destination. After eliminating duplicates, it was felt that a saturation point had been reached, in that there was little further variation in the style or content of the advertisements. Our final dataset comprised 804 photo ads, with Sanya, Lijiang and Suzhou contributing 262 (33%), 273 (34%) and 269 (33%) ads, respectively.

***46 Manual coding***  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60

First, 100 advertisements were randomly selected from the total sample, and two researchers independently coded these to establish preliminary coding frames. Subsequently, the two researchers checked, negotiated, and consistently interpreted the coding frames under the supervision of a third researcher to determine the final coding

frame used in this study. Then, the two researchers fully coded the 804 photo advertisements based on the frame. The third researcher performed the calculation and assessment of coding consistency. We employed Holsti's reliability (Holsti, 1969) and Cohen's kappa value (Cohen, 1960) as the consistency test indicators; these had values, respectively, of 0.967 and 0.908, indicating high consistency, and that there were no issues with the dataset.

### ***Features of advertisements without tourists' images***

Of the photo ads, 409 (51%) did not feature tourists' images at all. As detailed in Table 1, the predominant element across these ads for the three cities was destination landscapes, accounting for 72%. These landscapes typically showcased iconic features of the destinations, such as the sandy shores and ocean vistas in Sanya, the snow-capped mountains and unique residential architecture in Lijiang, and the picturesque water town scenes in Suzhou, each highlighting the distinct appeal of these destinations. Moreover, for Sanya and Lijiang, where the hotel lodging and vacation industries are relatively well developed, hospitality facilities frequently emerged as the thematic focus of the ads, a trend less observed in Suzhou. Other elements, including transportation and recreational facilities, plants, and animals were less prominently featured, appearing in less than 5% of the advertisements.

1  
2  
3  
4  
**5     *Features of advertisements with tourists' images***  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17

*Features of tourists' images*

18           There were a total of 395 (49%) photo advertisements for tour packages with  
19           tourists' images. Table 2 outlines the main features of this type of ad in terms of  
20           absolute counts and percentages.  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60

54% of the advertisements contained an image of two tourists, with a mean of  
2.12 people ( $SD = 1.30$ ) depicted in each of all these ads with human images. Most of  
the ads contained both male and female images (59%); this gender-balanced  
presentation strategy has been widely used in commercial marketing more generally  
(Mohan et al., 2022). The ads predominantly featured and presumably targeted young  
and middle-aged people (74%). Of these ads, 16% featured a multiple age range,  
typically to evoke family travel. Minorities of the images had people with their backs  
to the viewer (18%) or with their faces hidden (22%), while most of images displayed  
people with enjoyable facial expressions (64%), with some bodily interaction (90%),  
and with the face towards the viewer (52%). Notably, considering issues such as  
endorsement costs and business revenue (Wang et al., 2019), only 6% of the OTA photo  
ads that included tourists' images used celebrities.

50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60

*Features of background elements*

In terms of background elements, destination landscapes with unique regional  
features were the dominant backdrop (56%), as with the ads without tourists' images.  
The slight difference was that recreation facilities (e.g., amusement parks, swimming

1  
2  
3  
4  
5 pools, etc.) appeared more frequently than in the former ads (19% vs. 2%), and the  
6 tourists' images were usually interacting with recreation facilities to build up pictures  
7 of enjoyment. The rest of the elements appeared less frequently (< 10%). Then  
8 respondents were invited to evaluate their attractiveness, and then three groups were  
9 finalized, as shown in Table 3.  
10  
11  
12  
13  
14  
15

### 16           **Pre-survey: determining the experimental stimulus materials**

### 17

18           We conducted pre-survey to determine the stimuli for the following  
19 experimental studies, which was completed through Credamo  
20 (<https://www.credamo.com/#/>), a Chinese professional research platform, with a total  
21 of 105 respondents (44.76% male, Mage =28.9). We again utilized the three cities used  
22 in study 1 as destinations, namely Sanya (beach), Lijiang (snowy mountains) and  
23 Suzhou (water town). We selected nine representative groups of images for these  
24 destinations based on the conclusion of study 1.  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35  
36  
37  
38  
39

### 40           **Study 2**

### 41

#### 42           ***Design and procedure***

#### 43

44           Study 2 used Sanya as the destination, and had a 2 (tour packages: GTP vs. STP)  
45           × 2 (tourists' images: presence vs. absence) design to examine the main effect (H1).  
46  
47           We pre-recruited 75 participants to ensure the experimental materials were effective in  
48 manipulating. After being shown photo ads, participants were asked to respond to four  
49 questions about the types of tour packages and photo ads on a 7-point scale referenced  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60

from Magnini and Kim (2016) and T. Wen et al. (2021). Participants were able to distinguish whether the ads were for a GTP ( $MGTP = 5.84$ ,  $SD = 1.27$ ;  $MSTP = 2.55$ ,  $SD = 1.46$ ;  $t = 14.75$ ,  $p < 0.001$ ) or a STP ( $MGTP = 2.95$ ,  $SD = 1.75$ ;  $MSTP = 5.76$ ,  $SD = 1.30$ ;  $t = -11.15$ ,  $p < 0.001$ ), and similarly whether they featured ( $M_{presence} = 5.96$ ,  $SD = 1.25$ ;  $M_{absence} = 2.15$ ,  $SD = 0.73$ ;  $t = 22.87$ ,  $p < 0.001$ ) or did not feature ( $M_{presence} = 2.40$ ,  $SD = 1.00$ ;  $M_{absence} = 5.53$ ,  $SD = 1.12$ ;  $t = -18.08$ ,  $p < 0.001$ ) tourists' images, indicating the materials have good manipulation effect.

Then we randomly recruited participants through Credamo. Participants had to complete a background survey on travel experience and interests before entering the experiment. We designed two control items, included "I have been to Sanya" and "I have no interest in traveling to Sanya", and participants who responded affirmatively to either were excluded. Finally, 160 participants (40.63% male,  $M_{age} = 30.81$ ) who passed the control check were randomly assigned to four experimental groups.

Then the participants first read a piece of text to convey a scenario where they were about to shop for a GTP or STP to Lijiang on an OTA platform, based on the group they were assigned to. They were then shown a photo advertisement with or without tourists' images. Next, participants indicated their purchase intention, through three items rated on a seven-point scale (Cronbach's  $\alpha = 0.905$ ,  $AVE = 0.849$ ,  $CR = 0.944$ ), which were referenced from Yin et al. (2017). Finally, descriptive statistics and demographics of the participants were recorded. All study materials are included in the supplemental file.

1  
2  
3  
4  
**Results**  
5  
6  
7

8     *Purchase intention*  
9  
10

11                  As expected, in the GTP groups, participants had a stronger purchase intention  
12 (Mabsence =4.983, SD =1.377; Mpresence =5.633, SD =1.311, t=-2.162, p=0.034)  
13 when viewing the photo advertisement with tourists' images, whereas in the STP  
14 groups, they had a stronger purchase intention (Mabsence =5.775, SD =0.741;  
15 Mpresence = 4.883, SD =1.529, t=3.318, p=0.002) when viewing the photo  
16 advertisement without tourists' images (See Figure 3). Thus, study 2 supported H1. The  
17 study also used one-way ANOVA to exclude irrelevant factors that might interfere with  
18 the results. The results showed that the participants' gender, age, educational level,  
19 occupation type, and income level had no significant influence ( $p > 0.05$ ).  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33

34     **Study 3**  
35  
36  
37

38     *Design and procedure*  
39  
40

41                  Study 3 used Lijiang as the destination, and had a 2 (tour packages: GTP vs.  
42 STP)  $\times$  2 (tourists' images: presence vs. absence) design to examine the mediating role  
43 of embodied mental simulation. we pre-recruited 84 participants to examine if the  
44 experimental materials were effective in manipulating. Participants were able to  
45 distinguish whether the ads were for a GTP (MGTP =5.81, SD=1.28; MSTP =3.05,  
46 SD=1.48; t=12.96, p<0.001) or a STP (MGTP =3.49, SD=1.79; MSTP =5.63, SD=1.18;  
47 t=-9.172, p< 0.001), and also whether tourists' images were present (Mpresence =5.96,  
48 SD=1.48; t=12.96, p<0.001), and also whether tourists' images were present (Mpresence =5.96,  
49 SD=1.48; t=12.96, p<0.001), and also whether tourists' images were present (Mpresence =5.96,  
50 SD=1.48; t=12.96, p<0.001), and also whether tourists' images were present (Mpresence =5.96,  
51 SD=1.48; t=12.96, p<0.001), and also whether tourists' images were present (Mpresence =5.96,  
52 SD=1.48; t=12.96, p<0.001), and also whether tourists' images were present (Mpresence =5.96,  
53 SD=1.48; t=12.96, p<0.001), and also whether tourists' images were present (Mpresence =5.96,  
54 SD=1.48; t=12.96, p<0.001), and also whether tourists' images were present (Mpresence =5.96,  
55 SD=1.48; t=12.96, p<0.001), and also whether tourists' images were present (Mpresence =5.96,  
56 SD=1.48; t=12.96, p<0.001), and also whether tourists' images were present (Mpresence =5.96,  
57 SD=1.48; t=12.96, p<0.001), and also whether tourists' images were present (Mpresence =5.96,  
58 SD=1.48; t=12.96, p<0.001), and also whether tourists' images were present (Mpresence =5.96,  
59 SD=1.48; t=12.96, p<0.001), and also whether tourists' images were present (Mpresence =5.96,  
60 SD=1.48; t=12.96, p<0.001).

SD=0.86; Mabsence =2.23, SD=1.13; t=24.11, p<0.001) or absent (Mpresence =3.27, SD=1.79; Mabsence =5.71, SD=1.22; t=-10.32, p<0.001).

Prior to the experiment, participants were also required to complete two control check items, then 152 participants (42.76% male, Mage =31.12) who passed the control check were randomly assigned to four groups. The preliminary process was the same as in Study 2. Then to measure the extent of embodied mental simulation, they recorded their response to three items referred to Elder and Krishna (2011) on a seven-point scale (Cronbach's  $\alpha$  = 0.852, AVE=0.774, CR=0.911). Finally, participants indicated their purchase intention, and the descriptive statistics and demographics of themselves were recorded.

## **Results**

### *Purchase intention*

Same as study 2, participants in the GTP groups had a stronger purchase intention (Mabsence =4.702, SD =1.382; Mpresence =5.781, SD =0.901, t=-4.032, p<0.001) when viewing the photo advertisement with tourists' images, whereas in the STP groups they had a stronger purchase intention (Mabsence =5.798, SD =0.603; Mpresence = 4.816, SD =1.258, t=4.340, p<0.001) when viewing the photo advertisement without tourists' images, which again verified H1.

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

To examine the mediating role played by embodied mental simulation, the study utilized Model 4 in PROCESS with 5000 bootstrap samples (Hayes, 2017). The results showed that embodied mental simulation had a significant mediating effect in both the GTP groups ( $\beta=0.580$ , SE=0.219, 95% CI [0.460, 0.787]) and the STP groups ( $\beta=-0.305$ , SE=0.140, 95% CI [-0.612, -0.065]), while the direct effect of tourists' images on purchase intention was also significant ( $\beta_{GTP}= 0.499$ ,  $SE_{GTP} = 0.215$ , 95% CIGTP [0.069, 0.928];  $\beta_{STP} = -0.677$ ,  $SE_{STP} = 0.218$ , 95% CISTP [-1.112, -0.243]). The results indicated that embodied mental simulation plays a partial mediating role between advertising tourists' images and purchase intention, which supported H2 (See Figure 4).

#### Study 4

##### *Design and procedure*

Study 4 used Suzhou the destination, and had a 2 (tour packages: GTP vs. STP)  $\times$  2 (tourists' images: presence vs. absence) between-subjects design to examine the moderating role of relevant travel experience (H3). We again pre-recruited 78 participants, they were able distinguish whether the ads were for a GTP ( $MGTP = 5.90$ , SD=1.05;  $MSTP = 2.37$ , SD=1.07;  $t=20.75$ ,  $p<0.001$ ) or a STP ( $MGTP = 3.18$ , SD=1.52;  $MSTP = 5.56$ , SD=1.29;  $t=-10.59$ ,  $p< 0.001$ ) , and also whether tourists' images were present ( $M_{presence} = 6.05$ , SD=1.03;  $M_{absence} = 2.21$ , SD=0.96;  $t=24.14$ ,  $p<0.001$ ) or absent ( $M_{presence} = 2.12$ , SD=0.897;  $M_{absence} = 5.55$ , SD=1.47;  $t=-17.586$ ,  $p<0.001$ ).

A total of 156 participants (41.03% male, Mage =29.22) who passed the control check were randomly assigned to four groups. The preliminary process was the same as in Study 3. After the embodied mental simulation was measured, participants completed two items to measure relevant travel experience from both subjective and objective aspects, which were adapted from Dodd et al. (2005) and Li et al. (2021). Finally, purchase intention was measured, and descriptive statistics and demographics of the participants recorded.

## **Results**

### *Purchase intention*

As expected, participants in the GTP groups had a stronger purchase intention ( $M_{absence} =4.795$ ,  $SD =1.790$ ;  $M_{presence} =5.641$ ,  $SD =1.709$ ,  $t=-2.136$ ,  $p=0.036$ ) when viewing the photo advertisement with tourists' images, whereas in the STP groups they had a stronger purchase intention ( $M_{absence} =5.598$ ,  $SD =1.106$ ;  $M_{presence} =4.769$ ,  $SD =1.433$ ,  $t=3.428$ ,  $p=0.005$ ) when viewing the photo advertisement without tourists' images.

### *The interacting effect between variables*

The study used two-way ANOVA to test the interacting effects of tourists' images and relevant travel experience on embodied mental simulation and purchase intention. In the GTP groups the interacting effects were significant on both embodied mental simulation ( $F (1, 74) =7.896$ ,  $p=0.063$ ) and purchase intention ( $F (1, 74) =7.507$ ,

p=0.008). Similarly, in the STP groups the effects were also significant on embodied mental simulation ( $F(1, 74)=7.161$ , p=0.009) and purchase intention ( $F(1, 74)=5.304$ , p=0.024). These results suggested that a moderation test was appropriate.

#### *The moderating role of relevant travel experience*

The study utilized Johnson-Neyman floodlight analysis to test the moderating role played by relevant travel experience, which allowed observing the significance at different experience levels (Carden et al., 2017; Spiller et al., 2013).

In the GTP groups (Table 4), for participants whose relevant travel experience was higher than 2.55 ( $M-0.28SD$ ,  $M=2.846$ ,  $SD=1.048$ ; 51.28% of total), tourists' images had a significant effect on embodied mental simulation, and for whose experience was higher than 2.73 ( $M-0.11SD$ ; 51.28% of total), tourists' images significantly affected purchase intention. For rest of the participants who had less experience, the impact was not significant (See Fig. 5a).

In the STP groups (Table 4), for participants whose experience was higher than 3.86 ( $M-0.16SD$ ,  $M=4.058$ ,  $SD=1.235$ ; 64.10% of total), tourists' images had a significant effect on embodied mental simulation, and for whose experience was higher than 3.56 ( $M-0.40SD$ ; 64.10% of total), tourists' images significant effect on purchase intention. For rest of the participants who had less experience, the effect was not significant (See Fig. 5b), The results supported H3.

1  
2  
3  
4  
**General discussion**  
5  
6  
7

8  
***Conclusions***  
9

10       The study proved that advertising tourists' images promote consumers'  
11 purchase intention for GTPs, but weaken purchase intention for STPs, and embodied  
12 mental simulation plays a mediating role. Previous research has shown that tourists'  
13 images in photographs promote consumers' positive attitudes and behavioral intentions  
14 to destinations (Joe et al., 2021; Park et al., 2021; Zhang et al., 2023). We have found  
15 that there is a boundary condition for this positive impact, i.e., it requires consistency  
16 between the images and the consumers' cognition. When consumers watch  
17 advertisements for different tour packages, tourists' images do not play a positive role  
18 if they create dissonance with their cognition and experience of the tour packages  
19 (Robin & De Bont, 2023) but, rather, can negatively affect consumers' behavioral  
20 intentions (e.g., when tourists images appear in photo ads for STPs).

21  
22       In addition, the study found that for consumers with more relevant travel  
23 experience, the advertising tourists' images significantly affected embodied mental  
24 simulation and purchase intention, but for whom with less relevant travel experience  
25 the impact was not significant. The conclusion is that the accumulation of experience  
26 allows tourists to gradually construct knowledge and cognitive systems for different  
27 travel products (Dodd et al., 2005; Li et al., 2021). Also, as tourists continue to  
28 strengthen the construction process by repeating similar experiences, when relevant  
29 travel experience meets a certain level, the inclusion of tourists' images will generate  
30  
31

cognitive consistency or dissonance, which will affect their mental simulation and purchase intention. However, those with less experience have not constructed such cognitive systems for the product (Bettman & Park, 1980), and so the impact is not significant.

### ***Theoretical contributions***

Our study advances theoretical development across several dimensions. First, while some studies have explored the impact of tourists' images on consumers (Joe et al., 2021; Park et al., 2021; Zhang et al., 2023), the majority has ignored the differentiated role these images play as objects of consumers' gaze. Based on the bias of consumers' cognition on travel products, this study discovered the boundary condition of the positive impact played by tourists' images, it provides a novel perspective for research in the field of tourism images.

Secondly, based on cognitive consistency theory, the study constructed a bridge between this theory and the concept of embodied mental simulation. Lin and Kuo (2018) have utilized the theory to explain the behavioral differences of tourists undertaking different tour arrangements (Lin & Kuo, 2018), but no research has yet explored whether the effectiveness of this theory extends to the pre-travel decision-making stage. Moreover, although studies show that consumers will mentally simulate scenes and experiences in advance when viewing advertisements for experiential products (He et al., 2023; Tercia et al., 2020), it remains unclear whether this mental process varies among different travel products. Thus, the study pioneers the application

of cognitive consistency theory to dissect the differences in embodied mental simulation and its influence on pre-travel purchase decisions, thereby bridging significant knowledge gaps.

Finally, the study introduces the concept of relevant travel experience, which linking tourists' cognition, mental processes and behaviors to individuals' experience systematically. Prior studies have shown that consumers' past experience shape their cognitions (Bettman & Park, 1980; Dodd et al., 2005) and also influence their purchase behaviors (Li et al., 2021). However, these views are scattered. This study elaborates for the first time how tourism images influence the entire process from consumers' underlying cognition to mental process and moreover to specific behaviors, which have not been previously reported. Thus, present study significantly expands the literature on both tourist behavior and tourism marketing.

### ***Practical implications***

First, advertising should be targeted for different tourism products. Photo advertisements with tourists' images (i.e., tourists facing forward, with young male and female companions, with facial expressions of enjoyment and interacting body postures) should be utilized more in GTP marketing, while photo ads without tourists' images should be used more in STP marketing.

Second, precise marketing can be carried out for different groups of consumers with different levels of consumption experience. Specifically, for consumers who often seek GTP products (especially who have rich group tour experience), advertisements

1  
2  
3  
4  
5 with tourists' images should be used, while ads without tourists' images should be used  
6  
7 for those who often purchase STP products (especially those who have rich self-guided  
8  
9 tour experience).

10  
11 Finally, the study provides important support for long-term marketing. The  
12 cognitive consistency between consumers' cognition and the information conveyed by  
13 ads is one of the key factors that affect their purchase decisions, which cannot be  
14 separated from the impact of relevant travel experience. For newly created travel  
15 products, a long-term normalized marketing strategy should be adopted to promote the  
16 experience and cognition of the new products for consumers in subtle ways (e.g., push  
17 reports on product-related events to the consumers), with a matching of the types of ads  
18 (i.e., with tourists' images or without) to the products. And finally, to cultivate  
19 consumers' attitudes and willingness in the enterprise's expected direction of  
20 development.

21  
22  
23  
24  
25  
26  
27  
28 ***Limitations and future research***

29  
30 The study has some limitations. First, considering the main features of  
31 advertisements on the present OTAs, the materials used were all images of unfamiliar  
32 companionable tourists' images with male and female, images of a single person and  
33 groups (three or more people) were not considered, and so future research needs to  
34 examine the effects of such images. Second, the study considered only photo  
35 advertisements. Although these are the main medium for OTAs to promote their  
36 products, there are many other types of ads, including video and interactive ads, etc.

Tourists' images may have a different influence in these ads. In addition, all the experiments were conducted in the Chinese context. Previous studies have shown that individuals' cognitions may be influenced by culture (Cowan & Spielmann, 2020). China is a country that advocates collectivism (Hofstede, 1983), and thus the participants might be more likely to hold the notion that companionable images should be present in GTP advertisements. Thus, samples from a wider range of regions should be studied to increase the generalizability of the results.

This work was supported by the [National Social Science Fund of China] under Grant [number 23BLJ124]. The authors report there are no competing interests to declare.

1. Note: EMS= embodied mental simulation; TIs= tourists' images; RTE= relevant travel experience; PI= purchase intention; GTP=group tour package; STP= self-guided tour package; "Others" included texts, cartoons, and paintings.

## References

- Akerlof, G. A., & Dickens, W. T. (1982). The economic consequences of cognitive dissonance. *The American economic review*, 72(3), 307-319.
- Alba, J. W., & Hutchinson, J. W. (1987). Dimensions of consumer expertise. *Journal of Consumer Research*, 13(4), 411-454.
- Back, R. M., Park, J.-Y., Bufquin, D., Nutta, M. W. W., & Lee, S. J. (2020). Effects of hotel website photograph size and human images on perceived transportation and behavioral intentions. *International Journal of Hospitality Management*, 89, 102545. <https://doi.org/https://doi.org/10.1016/j.ijhm.2020.102545>
- Bagatini, F. Z., Rech, E., Pacheco, N. A., & Nicolao, L. (2023). Can you imagine yourself wearing this product? Embodied mental simulation and attractiveness in e-commerce product pictures. *Journal of Research in Interactive Marketing*, 17(3), 470-490. <https://doi.org/10.1108/JRIM-11-2021-0280>

- 1  
2  
3  
4 Bakhshi, S., Shamma, D. A., & Gilbert, E. (2014). Faces engage us: Photos with faces attract more  
5 likes and comments on instagram. Proceedings of the SIGCHI conference on human factors  
6 in computing systems,  
7  
8  
9 Bettman, J. R., & Park, C. W. (1980). Effects of prior knowledge and experience and phase of the  
10 choice process on consumer decision processes: A protocol analysis. *Journal of Consumer*  
11 *Research*, 7(3), 234-248.  
12  
13  
14 Brucks, M. (1985). The effects of product class knowledge on information search behavior. *Journal*  
15 *of Consumer Research*, 12(1), 1-16.  
16  
17 Carden, S. W., Holtzman, N. S., & Strube, M. J. (2017). CAHOST: An excel workbook for  
18 facilitating the Johnson-Neyman technique for two-way interactions in multiple regression.  
19 *Frontiers in psychology*, 8, 1293.  
20  
21  
22 Chen, M., & Lin, C.-H. (2021). What is in your hand influences your purchase intention: Effect of  
23 motor fluency on motor simulation. *Current Psychology*, 40(7), 3226-3234.  
24 <https://doi.org/10.1007/s12144-019-00261-6>  
25  
26  
27 Chiang, C.-Y., & Chen, W.-C. (2014). The Impression Management Techniques of Tour Leaders in  
28 Group Package Tour Service Encounters. *Journal of Travel & Tourism Marketing*, 31(6),  
29 747-762. <https://doi.org/10.1080/10548408.2014.889641>  
30  
31  
32 Cohen, J. (1960). A Coefficient of Agreement for Nominal Scales. *Educational and Psychological*  
33 *Measurement*, 20(1), 37-46. <https://doi.org/10.1177/00131644600200104>  
34  
35  
36 Condor Ferries. (2023). Online travel booking statistic 2023. Retrieved December 13, 2023, from  
37 <https://www.condorferries.co.uk/online-travel-booking-statistics>  
38  
39 Cowan, K., & Spielmann, N. (2020). Culture is in the “I” of the beholder: Identity confirmation in  
40 tourist advertisements. *Journal of Business Research*, 121, 378-388.  
41 <https://doi.org/https://doi.org/10.1016/j.jbusres.2018.05.015>  
42  
43  
44 CTA. (2023, February 21). China’s tourism economy analysis and development forecast (2022-  
45 2023). Retrieved December 13, 2023, from  
46 <https://www.ctaweb.org.cn/cta/gzdt/202302/87d263c6c80143059ebd91fe3ed430ad.shtml>  
47  
48  
49 CT News. (2023, August 25). Tourism consumption report for the first half of 2023. Retrieved  
50 December 13, 2023, from [http://www.ctnews.com.cn/baogao/content/2023-08/25/content\\_148548.html](http://www.ctnews.com.cn/baogao/content/2023-08/25/content_148548.html)  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60

- Deng, N., & Liu, J. (2021). Where did you take those photos? Tourists' preference clustering based on facial and background recognition. *Journal of Destination Marketing & Management*, 21, 100632. <https://doi.org/https://doi.org/10.1016/j.jdmm.2021.100632>
- Dodd, T. H., Laverie, D. A., Wilcox, J. F., & Duhan, D. F. (2005). Differential Effects of Experience, Subjective Knowledge, and Objective Knowledge on Sources of Information used in Consumer Wine Purchasing. *Journal of Hospitality & Tourism Research*, 29(1), 3-19. <https://doi.org/10.1177/1096348004267518>
- Dragon Trail. (2022, March 23). 2021 china online travel industry report: FastData. Retrieved December 13, 2023, from <https://dragontrail.com.cn/resources/blog/2021-china-online-travel-industry-report-fastdata>
- Elder, R. S., & Krishna, A. (2011). The "Visual Depiction Effect" in Advertising: Facilitating Embodied Mental Simulation through Product Orientation. *Journal of Consumer Research*, 38(6), 988-1003. <https://doi.org/10.1086/661531>
- Festinger, L. (1957). *A theory of cognitive dissonance*. Stanford University Press.
- Guo, W.-C., Lai, F.-C., & Suen, W. (2018). Downs meets d'Aspremont and company: Convergence versus differentiation in politics and the media. *International Journal of Industrial Organization*, 60, 96-125. <https://doi.org/https://doi.org/10.1016/j.ijindorg.2018.08.002>
- Hayes, A. F. (2017). *Introduction to mediation, moderation, and conditional process analysis: A regression-based approach*. Guilford publications.
- He, Z., Wu, L., & Li, X. (2023). Mediating service experiences with online photos: the role of consumers' perceptions of the mediated servicescape. *Journal of Service Management*, 34(4), 657-695. <https://doi.org/10.1108/JOSM-11-2021-0429>
- Hofstede, G. (1983). Dimensions of national cultures in fifty countries and three regions. *Explorations in cross-cultural psychology*, 335-355.
- Holsti, O. R. (1969). Content analysis for the social sciences and humanities. *Reading*. MA: Addison-Wesley (content analysis).
- Hsieh, J.-K. (2023). The impact of influencers' multi-SNS use on followers' behavioral intentions: An integration of cue consistency theory and social identity theory. *Journal of Retailing and Consumer Services*, 74, 103397. <https://doi.org/https://doi.org/10.1016/j.jretconser.2023.103397>

- Iyengar, S., & Hahn, K. S. (2009). Red media, blue media: Evidence of ideological selectivity in media use. *Journal of communication*, 59(1), 19-39.
- Jin, T., Lin, V. S., & Hung, K. (2014). China's Generation Y's Expectation on Outbound Group Package Tour. *Asia Pacific Journal of Tourism Research*, 19(6), 617-644. <https://doi.org/10.1080/10941665.2013.806939>
- Joe, S., Choi, C., & Busser, J. (2021). The impact of virtual presence on willingness to book: The moderating role of self-construal and gender. *International Journal of Hospitality Management*, 98, 103021. <https://doi.org/https://doi.org/10.1016/j.ijhm.2021.103021>
- Li, C., Wang, Y., Lv, X., & Li, H. (2021). To buy or not to buy? The effect of time scarcity and travel experience on tourists' impulse buying. *Annals of Tourism Research*, 86, 103083. <https://doi.org/https://doi.org/10.1016/j.annals.2020.103083>
- Lin, C.-H., & Kuo, B. Z.-L. (2018). The moderating effects of travel arrangement types on tourists' formation of Taiwan's unique image. *Tourism Management*, 66, 233-243. <https://doi.org/https://doi.org/10.1016/j.tourman.2017.12.001>
- Liu, X., Li, J. J., & Yang, Y. (2015). Travel arrangement as a moderator in image-satisfaction-behavior relations: An investigation of Chinese outbound travelers. *Journal of Vacation Marketing*, 21(3), 225-236. <https://doi.org/10.1177/1356766714567797>
- Lu, Z. Y., Jung, S., & Peck, J. (2023). It Looks Like "Theirs": When and Why Human Presence in the Photo Lowers Viewers' Liking and Preference for an Experience Venue. *Journal of Consumer Research*. <https://doi.org/10.1093/jcr/ucad059>
- Lundby, K. (2014). *Mediatization of communication* (Vol. 21). Walter de Gruyter GmbH & Co KG.
- Ma, Q., Cheng, L., Qiu, W., & Wang, J. (2021). The neural basis of the unattended processing of destination-slogan consistency. *Journal of Destination Marketing & Management*, 19, 100556. <https://doi.org/https://doi.org/10.1016/j.jdmm.2021.100556>
- Magnini, V. P., & Kim, S. (2016). The influences of restaurant menu font style, background color, and physical weight on consumers' perceptions. *International Journal of Hospitality Management*, 53, 42-48. <https://doi.org/https://doi.org/10.1016/j.ijhm.2015.11.001>
- Mohan, M., Ferguson, J. L., & Huhmann, B. A. (2022). Endorser gender and age effects in B2B advertising. *Journal of Business Research*, 148, 60-75. <https://doi.org/https://doi.org/10.1016/j.jbusres.2022.04.050>

- Osgood, C. E., & Tannenbaum, P. H. (1955). The principle of congruity in the prediction of attitude change. *Psychological Review*, 62(1), 42-55. <https://doi.org/10.1037/h0048153>
- Park, J.-Y., Back, R. M., Bufquin, D., & Nutta, M. W. W. (2021). Attraction, Social Presence, Sociability, and Booking Intentions: The Moderating Role of Homophily. *Journal of Hospitality & Tourism Research*, 45(6), 1044-1068. <https://doi.org/doi:10.1177/1096348020988898>
- Prayag, G., Cohen, S. A., & Yan, H. (2015). Potential Chinese travellers to Western Europe: segmenting motivations and service expectations. *Current Issues in Tourism*, 18(8), 725-743. <https://doi.org/10.1080/13683500.2013.868413>
- Robin, F., & De Bont, L. (2023). Mental images and false memories: the classical cognitive approach vs. embodied cognition. *Current Psychology*, 42(36), 31930-31943. <https://doi.org/10.1007/s12144-022-04210-8>
- Schoner-Schatz, L., Hofmann, V., & Stokburger-Sauer, N. E. (2021). Destination's social media communication and emotions: An investigation of visit intentions, word-of-mouth and travelers' facially expressed emotions. *Journal of Destination Marketing & Management*, 22, 100661. <https://doi.org/https://doi.org/10.1016/j.jdmm.2021.100661>
- Spiller, S. A., Fitzsimons, G. J., Lynch Jr, J. G., & McClelland, G. H. (2013). Spotlights, floodlights, and the magic number zero: Simple effects tests in moderated regression. *Journal of marketing research*, 50(2), 277-288.
- Tercia, C., Teichert, T., Sirad, D., & Soehadi, A. (2020). Conveying pre-visit experiences through travel advertisements and their effects on destination decisions. *Journal of Destination Marketing & Management*, 16, 100331. <https://doi.org/https://doi.org/10.1016/j.jdmm.2018.12.005>
- Tseng, T. H., & Wang, H.-Y. (2023). Consumer attitudes and purchase intentions towards internet celebrity self-brands: an integrated view of congruence, brand authenticity and internet celebrity involvement. *Journal of Product & Brand Management*, 32(6), 863-877. <https://doi.org/10.1108/JPBM-03-2022-3892>
- Tussyadiah, I. P., & Pesonen, J. (2016). Impacts of peer-to-peer accommodation use on travel patterns. *Journal of travel Research*, 55(8), 1022-1040.
- Urry, J., & Larsen, J. (2011). *The tourist gaze 3.0*. Sage.

- Walters, G., Sparks, B., & Herington, C. (2012). The Impact of Consumption Vision and Emotion on the Tourism Consumer's Decision Behavior. *Journal of Hospitality & Tourism Research*, 36(3), 366-389. <https://doi.org/10.1177/1096348010390815>
- Wang, C., Chen, Y.-h., Nie, P.-y., & Wang, X. H. (2019). Effects of celebrity endorsement on firms' competition: from industrial organisation perspective. *Economic Research-Ekonomska Istraživanja*, 32(1), 3230-3252. <https://doi.org/10.1080/1331677X.2019.1661002>
- Wang, K.-C., Hsieh, A.-T., & Huan, T.-C. (2000). Critical service features in group package tour: An exploratory research. *Tourism Management*, 21(2), 177-189. [https://doi.org/https://doi.org/10.1016/S0261-5177\(99\)00047-3](https://doi.org/https://doi.org/10.1016/S0261-5177(99)00047-3)
- Wang, K.-C., Ma, A.-P., Hsu, M.-T., Jao, P.-C., & Lin, C.-W. (2013). Seniors' perceptions of service features on outbound group package tours. *Journal of Business Research*, 66(8), 1021-1027. <https://doi.org/https://doi.org/10.1016/j.jbusres.2011.12.026>
- Wen, J., Kozak, M., Yang, S., & Liu, F. (2021). COVID-19: potential effects on Chinese citizens' lifestyle and travel. *Tourism Review*, 76(1), 74-87. <https://doi.org/10.1108/TR-03-2020-0110>
- Wen, T., Leung, X. Y., Li, B., & Hu, L. (2021). Examining framing effect in travel package purchase: An application of double-entry mental accounting theory. *Annals of Tourism Research*, 90, 103265. <https://doi.org/https://doi.org/10.1016/j.annals.2021.103265>
- Wong, J.-Y., & Wang, C.-H. (2009). Emotional labor of the tour leaders: An exploratory study. *Tourism Management*, 30(2), 249-259.
- Xie, H., Minton, E. A., & Kahle, L. R. (2016). Cake or fruit? Influencing healthy food choice through the interaction of automatic and instructed mental simulation. *Marketing Letters*, 27(4), 627-644. <https://doi.org/10.1007/s11002-016-9412-3>
- Yeh, W., & Barsalou, L. W. (2006). The situated nature of concepts. *The American journal of psychology*, 119(3), 349-384.
- Yin, C.-Y., Poon, P., & Su, J.-L. (2017). Yesterday once more? Autobiographical memory evocation effects on tourists' post-travel purchase intentions toward destination products. *Tourism Management*, 61, 263-274. <https://doi.org/https://doi.org/10.1016/j.tourman.2017.02.014>
- Zhang, K., Zhang, J., & Yang, J. (2023). The influence of human elements in photographs on tourists' destination perceptions and intentions. *Tourism Management*, 95, 104684. <https://doi.org/https://doi.org/10.1016/j.tourman.2022.104684>

Table 1. Features of photo advertisements with no tourists' images

<i>Overall counts</i>	Sanya	Lijiang	Suzhou	Totals
	108	130	171	409
<b><i>Main element</i></b>				
Destination scenery	63 (58%)	92 (71%)	140 (82%)	295 (72%)
Hospitality facilities	22 (21%)	24 (19%)	5 (3%)	51 (12%)
Transportation facilities	6 (5%)	3 (2%)	2 (1%)	11 (3%)
Recreation facilities	9 (8%)	0 (0%)	1 (1%)	10 (2%)
Plants	1 (1%)	3 (2%)	7 (4%)	11 (3%)
Animals	5 (5%)	3 (2%)	7 (4%)	15 (4%)
Others	2 (2%)	5 (4%)	9 (5%)	16 (4%)

Table 2. Features of photo advertisements with tourists' images

<i>Overall counts</i>	Sanya	Lijiang	Suzhou	Totals
	154	143	98	395
<b><i>Number of tourists</i></b>				
= 1	25 (16%)	43 (30%)	44 (45%)	112 (28%)
= 2	98 (64%)	77 (54%)	36 (37%)	211 (54%)
= 3	15 (10%)	7 (5%)	7 (7%)	29 (7%)
> 3	16 (10%)	16 (11%)	11 (11%)	43 (11%)
<b><i>Gender</i></b>				

Male only	5 (3%)	8 (6%)	15 (15%)	28 (7%)
Female only	30 (20%)	60 (42%)	45 (46%)	135 (34%)
Multiple genders	119 (77%)	75 (52%)	38 (39%)	232 (59%)
<b><i>Age</i></b>				
Child age	7 (5%)	2 (1%)	13 (13%)	22 (6%)
Young & middle-age	98 (63%)	134 (94%)	61 (62%)	293 (74%)
Older age	14 (9%)	1 (1%)	1 (1%)	16 (4%)
Multiple ages	35 (23%)	6 (4%)	23 (24%)	64 (16%)
<b><i>Body orientation</i></b>				
Facing forward	90 (58%)	65 (45%)	51 (52%)	206 (52%)
Facing back	27 (18%)	27 (19%)	18 (18%)	72 (18%)
Facing sideways	37 (24%)	51 (36%)	29 (30%)	117 (30%)
<b><i>Facial expression</i></b>				
Enjoyable	113 (73%)	85 (60%)	54 (55%)	252 (64%)
Neutral	8 (5%)	22 (15%)	22 (23%)	52 (13%)
Sad	0 (0%)	4 (3%)	0 (0%)	4 (1%)
No face shown	33 (22%)	32 (22%)	22 (22%)	87 (22%)
<b><i>Body posture</i></b>				
Interactive	149 (97%)	129 (90%)	77 (79%)	355 (90%)
Non-interactive	5 (3%)	14 (10%)	21 (21%)	40 (10%)
<b><i>Reputation</i></b>				

Non-celebrities	145 (94%)	132 (92%)	94 (96%)	371 (94%)
Celebrities	9 (6%)	11 (8%)	4 (4%)	24 (6%)
<b><i>Background elements</i></b>				
Destination scenery	83 (54%)	88 (61%)	51 (52%)	222 (56%)
Hospitality facilities	9 (6%)	12 (8%)	6 (6%)	27 (7%)
Transportation facilities	8 (5%)	11 (8%)	2 (2%)	21 (5%)
Recreation facilities	41 (27%)	11 (8%)	24 (25%)	76 (19%)
Plants	1 (0%)	7 (5%)	7 (7%)	15 (4%)
Animals	8 (5%)	11 (8%)	0 (0%)	19 (5%)
Others	4 (3%)	3 (2%)	8 (8%)	15 (4%)

Table 3. Evaluation of the attractiveness of the images in the stimulus materials

Group	Tourists' images			Destination landscape images		
Study 2						
M <sub>attractiveness</sub>	5.80	5.06	4.86	4.86	5.80	5.34
SD <sub>attractiveness</sub>	1.35	1.14	1.61	1.61	0.96	1.26
Used in study	Yes	No	No	No	Yes	No
Study 3						
M <sub>attractiveness</sub>	4.03	5.94	4.54	6.00	5.00	5.74
SD <sub>attractiveness</sub>	1.25	0.91	1.17	0.87	1.48	1.36
Used in study	No	Yes	No	Yes	No	No
Study 4						
M <sub>attractiveness</sub>	4.23	5.29	5.71	5.74	5.83	5.54
SD <sub>attractiveness</sub>	1.44	1.15	1.13	0.92	1.15	1.34
Used in study	No	No	Yes	No	Yes	No

Table 4. Moderating effect in Study 4

Group tour package										Self-guided tour package									
Outcome	Moderator	Effect	SE	t	Sig.	95%CI		Outcome	Moderator	Effect	SE	t	Sig.	95%CI					
						LICI	UICI							LICI	UICI				
EMS	TIs * RTE	0.868	0.309	2.810	0.006	0.253	1.484	EMS	TIs * RTE	-0.528	0.197	-2.676	0.009	-0.920	-0.135				
	M <sub>RTE</sub> *1SD	0.014	0.459	0.031	0.975	-0.899	0.928		M <sub>RTE</sub> -1SD	0.060	0.343	0.176	0.861	-0.623	0.743				
	M <sub>RTE</sub>	0.925	0.321	2.879	0.005	0.285	1.565		M <sub>RTE</sub>	-0.592	0.240	-2.465	0.016	-1.070	-0.113				
	M <sub>RTE</sub> +1SD	1.835	0.454	4.044	< 0.001	0.931	2.740		M <sub>RTE</sub> +1SD	-1.243	0.341	-3.645	< 0.001	-1.923	-0.564				
PI	TIs * RTE	1.015	0.370	2.740	0.008	0.277	1.753	PI	TIs * RTE	-0.519	0.225	-2.303	0.024	-0.968	-0.070				
	M <sub>RTE</sub> -1SD	-0.176	0.549	-0.321	0.749	-1.271	0.919		M <sub>RTE</sub> -1SD	-0.209	0.392	-0.534	0.595	-0.989	0.571				
	M <sub>RTE</sub>	0.887	0.385	2.307	0.024	0.121	1.655		M <sub>RTE</sub>	-0.850	0.274	-3.101	0.003	-1.396	-0.304				
	M <sub>RTE</sub> +1SD	1.952	0.544	3.588	< 0.001	0.868	3.035		M <sub>RTE</sub> +1SD	-1.491	0.390	-3.826	< 0.001	-2.267	-0.714				

Figure 1. OTAs' photo advertisements for tour packages (from Ctrip)

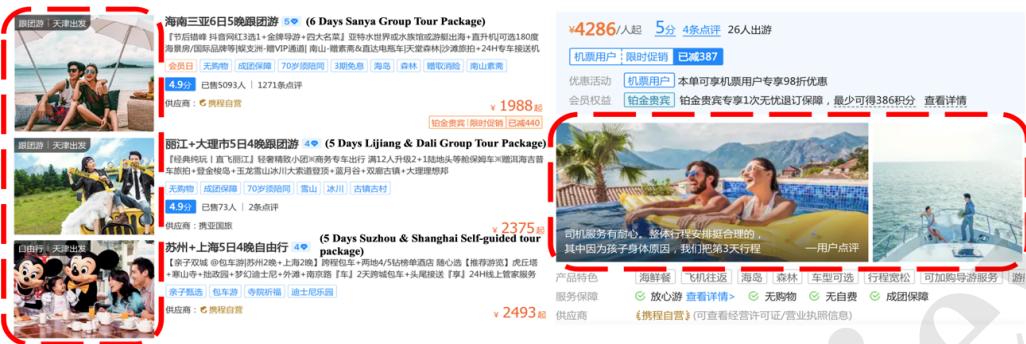


Figure 2. Theoretical frame

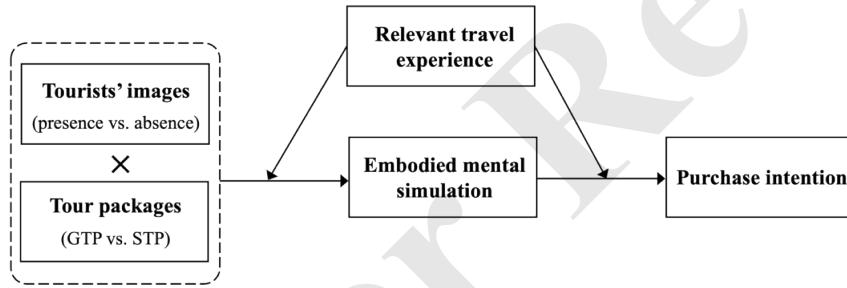


Figure 3. Main effect in Study 2

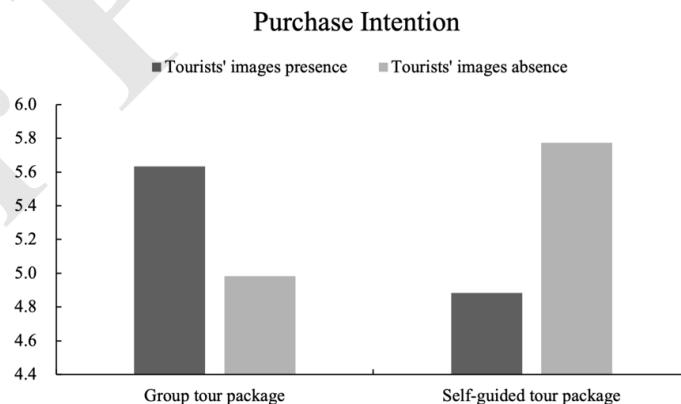


Figure 4. Mediating effect in Study 3

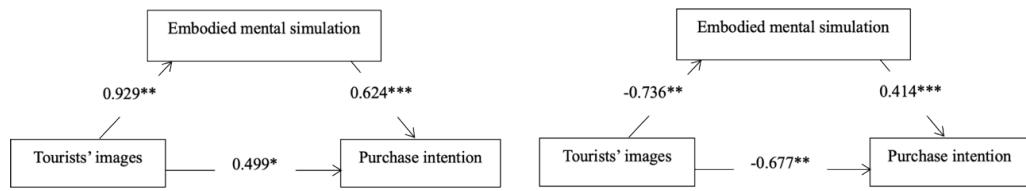


Figure 5a. Floodlight analysis results (GTP)

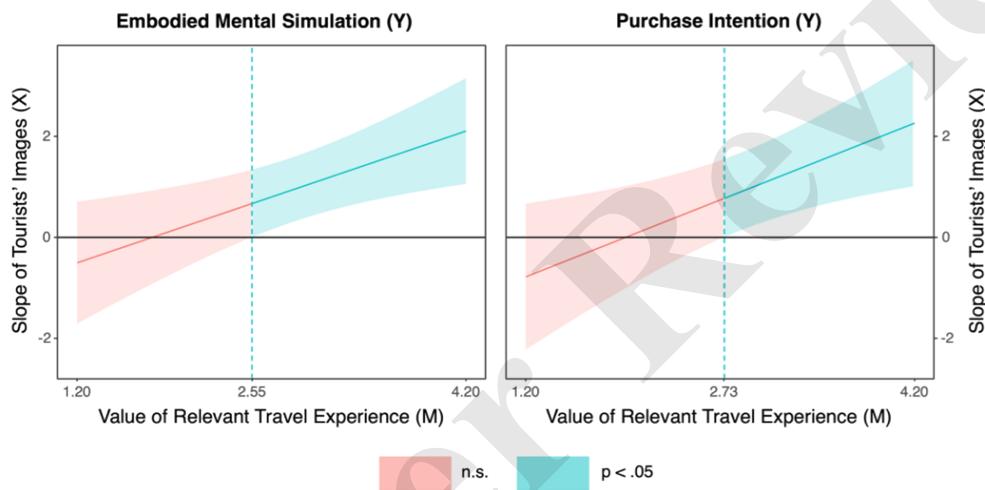
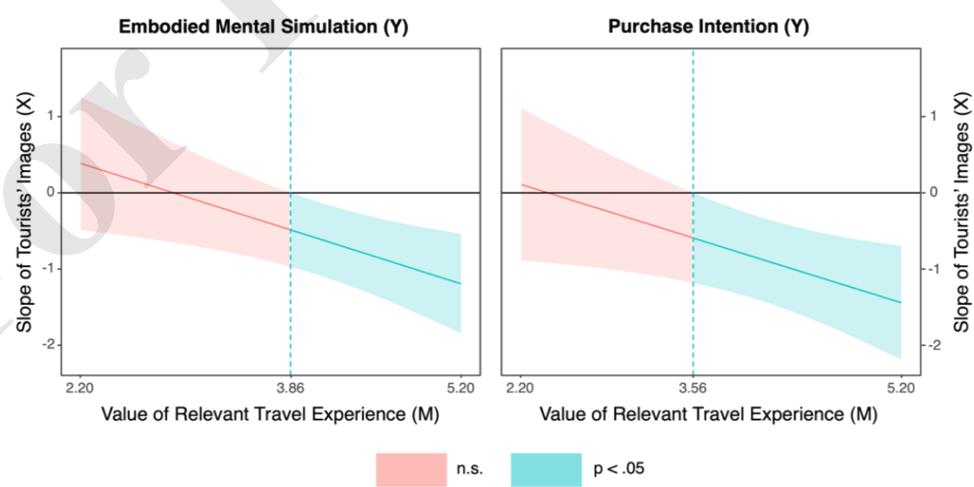


Figure 5b. Floodlight analysis results (STP)



## APPENDIX

### Appendix A. Some photo advertisements captured from Ctrip (Study 1)



### Appendix B. Experimental scenarios

#### Group tour package (GTP)

Recently, due to the physical and mental stress, you decide to give yourself a vacation and take a trip. You have enough time and money, in order to save energy, you come to online travel agency (OTA) platform to buy group tour packages. Among all the destinations, you finally pick out Sanya/ Lijiang/ Suzhou. Below is the product description of the Sanya/ Lijiang/ Suzhou group tour packages you find on the OTA platform, please read it carefully:

#### Chinese version

 团队服务	 交通	 游玩
<ul style="list-style-type: none"><li>含司机接送和导游讲解服务</li><li>全程安排专业中英文双语导游和司机负责带团</li><li>10人成团</li><li>2人起订，不足10人与陌生人拼团</li></ul>	<ul style="list-style-type: none"><li>飞机往返</li><li>行中用车</li></ul>	<ul style="list-style-type: none"><li>10个景点（固定）</li><li>无购物活动</li></ul>
 住宿	 餐食	
<ul style="list-style-type: none"><li>五星酒店</li><li>含4晚精品五星级酒店</li></ul>	<ul style="list-style-type: none"><li>精美特色餐食</li><li>餐厅与食物固定</li></ul>	

## English version

### 团队服务

- Including driver pick-up and tour guide service  
Professional bilingual tour guides and drivers will be arranged throughout the entire tour
- Tour group of ten people  
Reservation threshold is at least two people  
Less than ten people need to form a group with strangers

### 住宿

- five-star hotel  
Includes 4 nights in a boutique five-star hotel

### 交通

- Round trip flight
- Transportation for tour  
Premium sedan or coach  
(including transportation to scenic spots)

### 餐食

- Exquisite special meals  
Restaurants and food are fixed

### 游玩

- 10 attractions (fixed)
- No shopping activity

## Self-guided tour package (STP)

Recently, due to the physical and mental stress, you decide to give yourself a vacation and take a trip. You have enough time and money, in order to save energy, you come to online travel agency (OTA) platform to buy self-guided tour packages. Among all the destinations, you finally pick out Sanya/ Lijiang/ Suzhou. Below is the product description of the Sanya/ Lijiang/ Suzhou. self-guided tour packages you find on the OTA platform, please read it carefully:

## Chinese version

### 团队服务

- 含司机接送和导游讲解服务  
安排司机负责景区接送与双语导游讲解（自选）
- 无旅游团  
人数无限制，即订即走，产品服务自由组合

### 交通

- 飞机往返
- 行中用车  
精品轿车或旅游车（含景区交通）

### 游玩

- 10个景点（自选）
- 无购物活动

### 住宿

- 五星酒店  
含4晚精品五星级酒店

### 餐食

- 精美特色餐食  
餐厅和食物自选

## English version

### 团队服务

- Including driver pick-up and tour guide service  
Drivers between scenic spots and bilingual tour guides (all optional)
- No tour group  
No limit to the number of people, order now and go  
Optional combination of products and services

### 交通

- Round trip flight
- Transportation for tour  
Premium sedan or coach  
(including transportation to scenic spots)

### 游玩

- 10 attractions (optional)
- No shopping activity

### 住宿

- five-star hotel  
Includes 4 nights in a boutique five-star hotel

### 餐食

- Exquisite special meals  
Choose your own restaurants and food

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

## Appendix C. Experimental stimuli

### Study 2 - GTP

#### [Tourists' images presence]



跟团游

5心 海南三亚5日4晚跟团游  
初游经典 万人好评 国际品牌旗舰店！【喜...  
官方自营 “这五天过得太快乐啦！” “很享受的体验”  
5.0分 已售 999 人 ¥ 2999 起

#### [Tourists' images absence]



跟团游

5心 海南三亚5日4晚跟团游  
初游经典 万人好评 国际品牌旗舰店！【喜...  
官方自营 “这五天过得太快乐啦！” “很享受的体验”  
5.0分 已售 999 人 ¥ 2999 起

Note: “三亚” means “Sanya”; “跟团游” means “Group tour package”; “[官方自营](#)” means “[Officially provided by OTA](#)”; “这五天过得太快乐啦!” means “These five days have been so happy!”; “很享受的体验” means “Very enjoyable experience”; “[5.0 分](#)” means “[5.0 points](#)”; “已售” means “Already sold”.

### Study 2 - STP

#### [Tourists' images presence]



自由行

5心 海南三亚5日4晚自由行  
初游经典 万人好评 国际品牌旗舰店！【喜...  
官方自营 “这五天过得太快乐啦！” “很享受的体验”  
5.0分 已售 999 人 ¥ 2999 起

#### [Tourists' images absence]



自由行

5心 海南三亚5日4晚自由行  
初游经典 万人好评 国际品牌旗舰店！【喜...  
官方自营 “这五天过得太快乐啦！” “很享受的体验”  
5.0分 已售 999 人 ¥ 2999 起

Note: “三亚” means “Sanya”; “自由行” means “Self-guided tour package”; “[官方自营](#)” means “[Officially provided by OTA](#)”; “这五天过得太快乐啦!” means “These five days have been so

1  
2  
3  
4 happy!”; “很享受的体验” means “Very enjoyable experience”; “**5.0 分**” means “**5.0 points**”; “已  
5 售” means “Already sold”.  
6  
7  
8

### 9 **Study 3 - GTP** 10

11 [Tourists' images presence]  
12

13   
14 **跟团游**  
15 **丽江5日4晚跟团游**  
16 **『自营隐奢·高端定制』金茂凯悦+2晚雪...**  
17 **官方自营** “这五天过得太快乐啦！” “很享受的体验”  
18 **5.0分 已售 999 人** **¥ 2999 起**

19 [Tourists' images absence]  
20

21   
22 **跟团游**  
23 **丽江5日4晚跟团游**  
24 **『自营隐奢·高端定制』金茂凯悦+2晚雪...**  
25 **官方自营** “这五天过得太快乐啦！” “很享受的体验”  
26 **5.0分 已售 999 人** **¥ 2999 起**

27 Note: “丽江” means “Lijiang”; “跟团游” means “Group tour package”; “**官方自营**” means  
28 “**Officially provided by OTA**”; “这五天过得太快乐啦!” means “These five days have been so  
29 happy!”; “很享受的体验” means “Very enjoyable experience”; “**5.0 分**” means “**5.0 points**”; “已  
30 售” means “Already sold”.  
31  
32  
33  
34

### 35 **Study 3 - STP** 36

37 [Tourists' images presence]  
38

39   
40 **自由行**  
41 **丽江5日4晚自由行**  
42 **『自营隐奢·高端定制』金茂凯悦+2晚雪...**  
43 **官方自营** “这五天过得太快乐啦！” “很享受的体验”  
44 **5.0分 已售 999 人** **¥ 2999 起**

45 [Tourists' images absence]  
46

47   
48 **自由行**  
49 **丽江5日4晚自由行**  
50 **『自营隐奢·高端定制』金茂凯悦+2晚雪...**  
51 **官方自营** “这五天过得太快乐啦！” “很享受的体验”  
52 **5.0分 已售 999 人** **¥ 2999 起**

Note: “丽江” means “Lijiang”; “自由行” means “Self-guided tour package”; “[官方自营](#)” means “[Officially provided by OTA](#)”; “这五天过得太快乐啦!” means “These five days have been so happy!”; “很享受的体验” means “Very enjoyable experience”; “[5.0 分](#)” means “[5.0 points](#)”; “已售” means “Already sold”.

## Study 4 - GTP

### [Tourists' images presence]

The screenshot shows a travel listing for a 5-day tour in Suzhou. The title is “跟团游 苏州5日4晚跟团游”。 The listing includes a photo of two tourists in traditional Chinese attire, a brief description, and ratings. The rating section shows “5.0分 已售 999人 ￥2999起”.

### [Tourists' images absence]

The screenshot shows a travel listing for a 5-day tour in Suzhou. The title is “跟团游 苏州5日4晚跟团游”. The listing includes a photo of a boat on a canal, a brief description, and ratings. The rating section shows “5.0分 已售 999人 ￥2999起”.

Note: “苏州” means “Suzhou”; “跟团游” means “Group tour package”; “[官方自营](#)” means “[Officially provided by OTA](#)”; “这五天过得太快乐啦!” means “These five days have been so happy!”; “很享受的体验” means “Very enjoyable experience”; “[5.0 分](#)” means “[5.0 points](#)”; “已售” means “Already sold”.

## Study 4 - STP

### [Tourists' images presence]

The screenshot shows a travel listing for a 5-day self-guided tour in Suzhou. The title is “自由行 苏州5日4晚自由行”. The listing includes a photo of two tourists in traditional Chinese attire, a brief description, and ratings. The rating section shows “5.0分 已售 999人 ￥2999起”.

[Tourists' images absence]



Note: “苏州” means “Suzhou”; “自由行” means “Self-guided tour package”; “官方自营” means “Officially provided by OTA”; “这五天过得太快乐啦!” means “These five days have been so happy!”; “很享受的体验” means “Very enjoyable experience”; “5.0 分” means “5.0 points”; “已售” means “Already sold”.

## Appendix D. Measurement Items

Variables	Measurement items	Source
<i>Advertisement type (Manipulation check)</i>	<ol style="list-style-type: none"> <li>To what extent do you think these are group tour package / self-guided tour package advertisements? (1= <i>not at all</i>, 7= <i>very much</i>)</li> <li>To what extent do you think these advertisements contain / do not contain tourists' images? (1= <i>not at all</i>, 7= <i>very much</i>)</li> </ol>	Magnini & Kim, 2016; T. Wen et al., 2021
<i>Embodied mental simulation</i>	<ol style="list-style-type: none"> <li>When viewing the advertisement, to what extent did images of attending a group tour / self-guided tour in Lijiang / Suzhou come to your mind? (1= <i>few or no</i>, 7= <i>lots of</i>)</li> <li>When viewing the advertisement, how much of the experience of attending a group tour / self-guided tour in Lijiang / Suzhou can you imagine? (1= <i>few or no</i>, 7= <i>a lot of</i>)</li> <li>To what extent while viewing the advertisement could you imagine attending a group tour / self-guided tour in Lijiang / Suzhou? (1= <i>not at all</i>, 7= <i>to a great extent</i>)</li> </ol>	Elder & Krishna, 2011
<i>Relevant travel experience</i>	<ol style="list-style-type: none"> <li>I have a lot of experience with group tours / self-guided tours. (1= <i>strongly disagree</i>, 7= <i>strongly agree</i>)</li> <li>My frequency of group tours / self-guided tours in recent years is on average per year ____.</li> </ol>	Dodd et al., 2005; Li et al., 2021
<i>Purchase intention</i>	<ol style="list-style-type: none"> <li>For this tour package, I would like to buy it. (1= <i>strongly disagree</i>, 7= <i>strongly agree</i>)</li> <li>For this tour package, I probably will buy it in the future. (1= <i>strongly disagree</i>, 7= <i>strongly agree</i>)</li> </ol>	Yin et al., 2017

3. For this tour package, I would like to recommend it to  
my friends.

(1= *strongly disagree*, 7= *strongly agree*)

## Appendix E. Means, Standard Deviations, Skewness, and Kurtosis for Key Variables

Study	Measure Items	M	SD	Skewness	Kurtosis
<b>Study</b> <i>Advertisement type (Manipulation check)</i>					
2	To what extent do you think these are group tour package / self-guided tour package advertisements?	4.27	2.11	-0.24	-1.27
	To what extent do you think these advertisements contain / do not contain tourists' images?	4.01	2.03	0.11	-1.36
<b>Purchase intention</b>					
	For this tour package, I would like to buy it.	5.42	1.29	-1.39	1.58
	For this tour package, I probably will buy it in the future.	5.34	1.44	-1.16	1.17
	For this tour package, I would like to recommend it to my friends.	5.19	1.62	-1.26	1.14
<b>Study</b> <i>Advertisement type (Manipulation check)</i>					
3	To what extent do you think these are group tour package / self-guided tour package advertisements?	4.49	1.90	-0.46	-0.91
	To what extent do you think these advertisements contain / do not contain tourists' images?	4.29	2.05	-0.29	-1.23
<b>Embodied mental simulation</b>					
	When viewing the advertisement, to what extent did images of attending a group tour / self-guided tour in Lijiang come to your mind?	5.37	1.45	-1.24	1.18
	When viewing the advertisement, how much of the experience of attending a group tour / self-guided tour in Lijiang can you imagine?	5.32	1.41	-1.07	0.95
	To what extent while viewing the advertisement could you imagine attending a group tour / self-guided tour in Lijiang?	5.26	1.44	-0.97	0.16
<b>Purchase intention</b>					
	For this tour package, I would like to buy it.	5.42	1.32	-1.12	1.16
	For this tour package, I probably will buy it in the future.	5.29	1.33	-1.14	1.12

For this tour package, I would like to recommend it to my friends. 5.11 1.33 -0.95 0.88

Study	<i>Advertisement type (Manipulation check)</i>				
4	To what extent do you think these are group tour package / self-guided tour package advertisements?	4.25	1.96	-0.18	-1.18
	To what extent do you think these advertisements contain / do not contain tourists' images?	3.98	2.14	0.11	-1.40
	<i>Embodied mental simulation</i>				
	When viewing the advertisement, to what extent did images of attending a group tour / self-guided tour in Suzhou come to your mind?	5.49	1.50	-1.18	0.78
	When viewing the advertisement, how much of the experience of attending a group tour / self-guided tour in Suzhou can you imagine?	5.41	1.49	-0.95	0.16
	To what extent while viewing the advertisement could you imagine attending a group tour / self-guided tour in Suzhou?	5.27	1.54	-0.92	0.15
	<i>Purchase intention</i>				
	For this tour package, I would like to buy it.	5.30	1.22	-0.91	-0.04
	For this tour package, I probably will buy it in the future.	5.29	1.60	-0.74	-0.58
	For this tour package, I would like to recommend it to my friends.	5.01	1.72	-0.71	-0.48
	<i>Relevant travel experience</i>				
	I have a lot of experience with group tours / self-guided tours.	4.88	1.37	-0.24	-0.67
	My frequency of group tours / self-guided tours in recent years is on average per year_____.	2.03	1.64	0.73	0.18

#### Appendix F. Participants profiles

	Study 2	Study 3	Study 4
	N = 160	N = 152	N = 156
<i>Gender</i>			
Male	65 (40.6%)	64 (42.1%)	64 (41.0%)
Female	95 (59.4%)	88 (57.9%)	92 (59.0%)
<i>Age</i>			

0-20	4 (2.5%)	5 (3.3%)	6 (3.8%)
21-30	92 (57.5%)	78 (51.3%)	98 (62.8%)
31-40	44 (27.5%)	51 (33.6%)	35 (22.4%)
41-50	13 (8.1%)	12 (7.9%)	13 (8.3%)
51-60	7 (4.4%)	6 (3.9%)	2 (1.3%)
>60	-	-	2 (1.3%)
<b>Educational level</b>			
Elementary school or below	-	3 (2.0%)	1 (0.6%)
Junior high school	2 (1.3%)	1 (0.7%)	-
High school	3 (1.9%)	3 (2.0%)	1 (0.6%)
Technical school	11 (6.9%)	8 (5.3%)	15 (9.6%)
Undergraduate	120 (75.0%)	106 (69.7%)	105 (67.3%)
Graduate	24 (15.0%)	28 (18.4%)	33 (21.2%)
PhD	-	3 (2.0%)	1 (0.6%)
<b>Job occupation</b>			
Student	46 (28.7%)	36 (23.7%)	36 (23.1%)
Nationalized enterprise	25 (15.6%)	29 (19.1%)	20 (12.8%)
Public institution	10 (6.3%)	5 (3.3%)	10 (6.4%)
Government official	7 (4.4%)	4 (2.6%)	8 (5.1%)
Private enterprise	66 (41.3%)	71 (46.7%)	69 (44.2%)
Foreign enterprise	6 (3.8%)	5 (3.3%)	10 (6.4%)
Freelance	-	2 (1.3%)	3 (1.9%)
<b>Monthly income (RMB)</b>			
0-¥2,000	10 (6.3%)	21 (13.8%)	21 (13.5%)
¥2,001-¥4,000	22 (13.8%)	12 (7.9%)	21 (13.5%)
¥4,001-¥6,000	43 (26.9%)	37 (24.3%)	39 (25.0%)
¥6,001-¥8,000	40 (25.0%)	35 (23.0%)	36 (23.1%)
More than ¥8,000	45 (28.1%)	47 (30.9%)	39 (25.0%)

## References

Dodd, T. H., Laverie, D. A., Wilcox, J. F., & Duhan, D. F. (2005). Differential Effects of Experience, Subjective Knowledge, and Objective Knowledge on Sources of Information used in

- 1  
2  
3  
4 Consumer Wine Purchasing. *Journal of Hospitality & Tourism Research*, 29(1), 3-19.  
5 <https://doi.org/10.1177/1096348004267518>  
6  
7 Elder, R. S., & Krishna, A. (2011). The “Visual Depiction Effect” in Advertising: Facilitating  
8 Embodied Mental Simulation through Product Orientation. *Journal of Consumer Research*,  
9 38(6), 988-1003. <https://doi.org/10.1086/661531>  
10  
11 Li, C., Wang, Y., Lv, X., & Li, H. (2021). To buy or not to buy? The effect of time scarcity and  
12 travel experience on tourists' impulse buying. *Annals of Tourism Research*, 86, 103083.  
13 <https://doi.org/https://doi.org/10.1016/j.annals.2020.103083>  
14  
15 Magnini, V. P., & Kim, S. (2016). The influences of restaurant menu font style, background color,  
16 and physical weight on consumers' perceptions. *International Journal of Hospitality  
17 Management*, 53, 42-48. <https://doi.org/https://doi.org/10.1016/j.ijhm.2015.11.001>  
18  
19 Wen, T., Leung, X. Y., Li, B., & Hu, L. (2021). Examining framing effect in travel package purchase:  
20 An application of double-entry mental accounting theory. *Annals of Tourism Research*, 90,  
21 103265. <https://doi.org/https://doi.org/10.1016/j.annals.2021.103265>  
22  
23 Yin, C.-Y., Poon, P., & Su, J.-L. (2017). Yesterday once more? Autobiographical memory evocation  
24 effects on tourists' post-travel purchase intentions toward destination products. *Tourism  
25 Management*, 61, 263-274. <https://doi.org/https://doi.org/10.1016/j.tourman.2017.02.014>  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60