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Abstract

A lack of credibility in the tourism sector has become a social and environmental concern. This article argues that destination source credibility as a destination-level stimulus can have significant influences on tourist environmentally responsible behavior. Based on the stimulus-organism-response theory, this paper developed an integrated model of the relationships between destination source credibility and tourist environmentally responsible behavior, with destination image (cognitive and affective) and place attachment as mediators. Three sets of survey data were collected at a Chinese national wetland park (N = 451), a world heritage cultural landscape site (N = 453), and a world cultural heritage site (N = 450). A serial multiple mediation model was tested through combining bootstrapping and Bayesian approaches. The results indicated that destination source credibility enhanced tourists' cognitive and affective image, place attachment, and environmentally responsible behavior. In addition, the effect of destination source credibility on environmentally responsible behavior was partially and sequentially mediated by (cognitive and then affective) destination image and place attachment, among which place attachment emerged as the most powerful mediator. Robustness of these findings was confirmed across different destination types. Theoretical contribution and practical implication for sustainable destination management are discussed.

Keywords: Destination source credibility; Destination image; Place attachment; Tourist environmentally responsible behavior; Bayesian method.

1. Introduction

Environmental protection and enhancement in tourism destinations has been a key issue for sustainable tourism development. Increasing studies indicate that tourists can exert power through adopting environmentally responsible behavior (e.g., Dolnicar et al., 2019; Lee et al., 2013). Due to its critical role in fostering sustainable tourism, tourist environmentally responsible behavior (hereafter, TERB) has become a major topic in tourism research. A special interest has been developed to understand the antecedents of TERB (e.g., Han, 2015; Li & Wu, 2019; Ramkissoon et al., 2013; Wang & Zhang, 2020). However, previous literature on TERB focuses relatively less on destination factors (e.g., destination marketing and branding practices) as the stimulus of TERB (e.g., Cheng et al., 2013; He et al., 2018; Su et al., 2020a).

The destination-level stimulus is important considering the asymmetric information between tourists and the destination (Su et al., 2020a). This information asymmetry exists primarily due to the unique feature of the tourism experience, i.e., transitorily being away from home in an unfamiliar destination usually for hedonic purposes (e.g., Li & Wu, 2019). What makes the examination of destination factors even more salient is the increasing report on negative tourism practices, such as the pitfalls of zero-fee (shopping) tours (Fu, 2010), false advertisement (Guan et al., 2017), unreasonable price (Liu et al., 2021), or other practices broadly termed as "tourist scams" (Xu et al., 2022). These deceptive activities can be easily disseminated online and socially amplified to impede the reputation of and thus trust toward a specific destination (Su et al., 2020b), induce (either on-site or prospective) tourists' adverse destination perceptions (Zhang & Zhang, 2013), and result in deviant behavior, including unfriendly behaviors toward the destination environment (Fan et al., 2014). In other words, the information asymmetry characteristic of the tourism sector, its resultant tourism scams, and associated negative outcomes suggest that a lack of credibility in the tourism sector has become a social and environmental concern (Vinzenz et al., 2019). This points to the need of examining the credibility issue in tourists' reactions toward the destination. Along the line, this paper examines an emerging concept—destination source credibility—as a destination-level stimulus in tourists' decision-making process, with a particular focus on its

impact on TERB.

Destination source credibility is the application of credibility in tourism destinations (Pike, 2005). Credibility is the extent to which an object is viewed as a reliable and truthful source of information (Tirole, 1988). Source credibility is the information receiver's perceived trust in the source of information (Ohanian, 1990). Veasna et al. (2013) applied the concept of source credibility in tourism research and developed it into destination source credibility to represent a destination's ability in influencing people's beliefs on the validity of their marketing and communication assertions. Destination source credibility has been shown to significantly affect tourists' information search and selection behavior (Ayeh, 2015). It has also been supported to exert a strong influence on tourists' overall attitudes toward destinations (Kerstetter & Cho, 2004), tourist satisfaction, and their behavioral intentions (e.g., Kani et al., 2017; Veasna et al., 2013; Vg et al., 2021). Despite the important role of credible information in people's pro-social and environmental behavior (Halder et al., 2021) and the fact that the influence of credibility has been documented in various green consumer behavior settings (e.g., Carrete et al., 2012; Mansoor & Paul, 2021), surprisingly to the best of our awareness, there is no empirical study that explicitly examines the impact of destination source credibility on TERB, and the specific mechanisms that might explain the relationship.

To make salient the role of destination source credibility as the destination-level stimulus in TERB, we argue that, theoretically, credible information source from the destination could signal the valued attributes (i.e., being reliable and trustworthy) of that destination, which might further cue tourists to perceive that destination as being socially responsible toward all stakeholders (including tourists); this perception of destination social responsibility has been established to increase TERB (e.g., Su, & Swanson, 2017). In addition, we argue that credible destination sources would contribute to tourists' positive notion of the destination image, and are likely congruent with tourists' self-concept, thus being more likely to arouse tourists' identification with and emotional attachment (i.e., place attachment) to that destination, and promote TERB as a result.

Thus, this paper aims to empirically test the above-mentioned theoretical assumptions to determine (1) whether destination source credibility has a direct impact on TERB, (2)

whether this impact might be sequentially mediated by destination image and place attachment, and (3) the relative importance of the proposed mediators on the relationship between destination source credibility and TERB. To this end, the current paper applied the stimulus-organism-response (SOR) theory (Mehrabian & Russell, 1974) as the overarching framework, considering that destination source credibility functions as a stimulus, destination image and place attachment as the organism, and TERB as the behavioral response. By examining a serial multiple mediation model based on the SOR framework, this paper makes an important theoretical contribution through linking together the separate literature on destination source credibility and TERB, and establishing their intermediate mechanisms. This paper can also offer practical implications to destination management organizations on tourist behavior management.

The remaining paper is structured as follows: Section 2 provides a brief introduction of the SOR theory and a detailed explanation of the proposed hypotheses. Section 3 & 4 presents the method and results of Study 1, which was conducted in a nature-based tourism site. To explore whether the destination type might change the pattern of result¹, in Section 5, we replicated the study in two urban and cultural tourism sites (Study 2 & 3) to cross-validate the results. Section 6 concludes with a discussion of results, theoretical and practical implications, and potential limitations.

2. Literature review and hypothesis development

2.1. Stimulus-organism-response theory

The stimulus-organism-response (hereafter, SOR) theory by Mehrabian and Russell (1974) proposes that when exposed to a stimulus (S), people will generate cognitive and affective internal states (O), which will in turn trigger their responses (R). That is, individuals' internal states mediate the impact of stimulus on their eventual responses, such as behavioral responses of approach or avoidance (Lee et al., 2011). SOR offers a robust and parsimonious framework to integrate individual perceptions and emotions regarding external stimuli in explaining behaviors that are subsequently elicited (Su et al., 2020a). The validity of SOR has been verified in various settings, such as environmental psychology, consumer behavior, and

also pro-environmental studies in the tourism context (e.g., Kim et al., 2020; Su & Swanson, 2017; Tang et al., 2019). The current paper applies the SOR theory to examine relationships between destination source credibility (as an extrinsic stimulus), destination image and place attachment (as the organism), and TERB (as the behavioral response).

Stimulus - Destination source credibility. Stimulus in the SOR theory can include both object stimuli and social psychological stimuli (Lee et al., 2011). Destination source credibility is regarded as the stimulus, as per Veasna's et al. (2013) definition of it as "the believability that the destination management is willing and capable of delivering on its promises related to a specific destination" (p.512). Source credibility of a particular destination is a function of individuals' knowledge and expertise in assessing the trustworthiness of the received information (Rieh, 2010). Though being perceived by tourists, destination source credibility is an objective destination source credibility captures the capability of tourism destinations in enhancing tourists' believability concerning the validity of their assertions (Ohanian, 1990; Veasna et al., 2013). Thus, destination source credibility is a combination of the external object stimulus and a social psychological stimulus (Jacoby, 2002), functioning as an initiating driver in our model.

Organism - Destination image. Organism in the SOR theory represents one's cognitive and affective internal states (Lee et al., 2011). In this paper, destination image can be properly treated as the organism. Destination image matters in tourists' destination choice, pre- and post-trip evaluation, decision-making and resultant behaviors (Stylos et al., 2016). In general, it is a set of impressions, beliefs, knowledge, and emotional feelings people have toward a particular tourism destination (Zhang et al., 2014). Destination image is a multifaceted concept, composed of cognitive and affective components (e.g., Chiu et al., 2014; Martin & Bosque, 2008). This research followed this two-dimensional view and divided destination image into cognitive and affective images. The cognitive component of destination image is an evaluation of the attributes or characteristics (for example, physical properties like beautiful scenery) of a tourism destination (Gartner, 1994), which together help form a cognitive mental schema of that place (Stylidis et al., 2017). The affective image, on the other hand, concerns an individual's subjective feelings about and emotional responses

toward the destination (Baloglu & Brinberg, 1997). Recent research also mentions conative image as another dimension of destination image (Stylos et al., 2016). Conative image is "analogous to behavior since it is the intent or action component" (Pike & Ryan, 2004, p. 334). Though the three-dimensional structure is recognized by image scholars, conative image and its measurement overlap with destination loyalty, and these two concepts are often used interchangeably in the tourism literature (Stylidis et al., 2021, p.4). Therefore, conative image is not included here as we are interested in TERB as the behavioral response.

Organism - Place attachment. Place attachment is a salient concept for studying the relationship between humans and a particular place (Ramkissoon et al., 2013). It is "a positive affective bond between an individual and a specific place, the main characteristic of which is the tendency of the individual to maintain closeness to such a place" (Hidalgo & Hernández, 2001, p. 274). Thus, place attachment represents an affective internal state that is captured as the organism in the SOR theory. Despite being a ubiquitous construct of people's connection to places, place attachment has been diverse in terms of its conceptualization and measurement (Ramkissoon et al., 2013). Some studies measured place attachment with four dimensions: place identity, place dependence, place social bonding, and place affect (e.g., Jiang et al. 2017; Kyle et al., 2004; Ramkissoon et al., 2012). This paper, however, only included place identity and place dependence as measures of place attachment (as a secondorder construct) because these two dimensions (1) are the most classical conceptualization of place attachment (Vaske & Kobrin, 2001), (2) have been validated as an abbreviated and effective measure of place attachment (Boley et al., 2021), and (3) have been validated as first-order factors generating place attachment (e.g., Hosany et al., 2017; Loureiro, 2014). To augment the parsimony and interpretability of the model with fewer parameters, this paper regarded place attachment as a second-order construct, including place dependence and place identity.

Response - Tourist environmentally responsible behavior (TERB). Response in the SOR theory is the final action or outcome of people's reactions (Lee et al., 2011). In our model, TERB serves as the behavioral response. TERB is the behavior that "harms the environment as little as possible, or even benefits the environment" (Steg & Vlek, 2009, p.309). Identifying approaches to increase TERB is of great importance to the cultural and ecological

sustainability of destinations (Su et al., 2018). A number of theoretical frameworks, such as the theory of planned behavior, norm activation model, and value-belief-norm model, have been adopted to explain TERB (Wu et al., 2021). More recently, researchers have attempted to modify, extend, or merge the related theories to present a more integrated and comprehensive framework for constructing proposed conceptual models on TERB (e.g., Han, 2015; Wang et al., 2020). Despite these available theoretical frameworks, TERB is still perceived as an under-studied topic that requires more empirical research (Antimova et al., 2012), particularly studies on the role of destination-level attributes as stimuli of TERB (He et al., 2018; Su, & Swanson, 2017).

Hence, to broaden the current understanding of the factors affecting TERB, this research employed the SOR theory as the overarching framework to examine: whether destination source credibility (as the stimulus) might facilitate TERB (as the virtuous behavioral response toward the destination) through engaging tourists' internal states of (cognitive and affective) destination image and place attachment (as the organism). Detailed hypotheses of the relationships between these variables are as follows.

2.2. Relationships between stimulus and organism

Destination source credibility is the degree to which tourists perceive the claims of tourism destination marketing practices as truthful and believable (Phau & Ong, 2007). Credible destination sources can lower tourists' information gathering and processing costs and their (to be) perceived risk/uncertainty (Veasna et al., 2013), thus serving as one of the central cues in tourists' decision-making process and influencing tourists' attitudes and their subsequent behavior (Jiménez-Barreto et al., 2020). In this paper, we argue that reliable information and contents from destination agencies (i.e., destination source credibility) can exert considerable influence on destination image. As per the definition, destination image is people' perceptions of and emotional responses toward the destination that are formed based on information processing from various sources (Zhang et al., 2014). According to signaling theory, when people consider the information source from a destination as credible, this stimulating factor is likely to exert a persuasive influence on their favorable perceptions of destination arousal of that destination image (Connelly et al., 2011). This rationale of the positive association between destination source credibility and

destination image has been supported in previous studies (e.g., Kani et al., 2017; Veasna et al., 2013). However, these earlier studies either considered destination image only as a cognitive image or treated destination image as a unified latent variable, failing to test the influence of destination source credibility on affective image. Considering destination source credibility as the stimulus and a two-dimensional view of destination image, we hypothesize that:

- H₁: Destination source credibility positively impacts tourists' cognitive image.
- H₂: Destination source credibility positively impacts tourists' affective image.

Destination source credibility can also have an impact on tourists' place attachment toward the destination. Place attachment captures the bond (e.g., positive beliefs and emotional linkages) between tourists and the place. Specifically, the identity component of place attachment toward the destination reflects the degree to which tourists incorporate that destination in the self-concept (for example, "I identify strongly with this destination"); the dependence component of place attachment represents the emotionally functional connection of tourists toward the destination (for example, "I enjoy visiting this destination more than any other destination") (Vaske & Kobrin, 2001; Boley et al., 2021). The relationship between destination source credibility and place attachment can be explained by the theory of self-congruity. The notion of self-congruity is to assess whether there is a (mis)match between people's perception of an object (tourism destination in this case) and themselves (Sirgy, 1985). Only when tourists view the destination sources as reliable, trustworthy, and credible, will they perceive a match between the tourism destination and themselves and expand to include the destination in their self-concept (Reitsamer & Brunner-Sperdin, 2021). That means credible destination sources can make tourists identify with and become emotionally attached to that destination place (Shang & Luo, 2021; Veasna et al., 2013). Therefore, we posit that destination source credibility as the stimulus will have a positive impact on place attachment:

H₃: Destination source credibility positively impacts tourists' place attachment.

2.3. Relationship between stimulus and response

Credible information serves an important role in the decision-making of pro-social and environmental behavior (Halder et al., 2021). The influence of credibility has been

 documented in various green consumer behavior settings (e.g., Carrete et al., 2012; Mansoor & Paul, 2021). For example, Carrete et al. (2012) found that a lack of credibility was one of the key themes related to uncertainty in people's adoption of green consumer behavior. In a similar vein, Mansoor & Paul (2021) suggested that perceived green brand credibility was an effective predictor of consumer choice behavior for green electronics. In the context of airline travel, Zhang et al. (2019) confirmed a positive and direct influence of source credibility on air travelers' purchase intention of aviation voluntary carbon offsetting.

Although the significance of credibility is well recognized, the research team is not aware of any study that has explicitly examined the relationship between destination source credibility and TERB. In this paper, we assume that destination source credibility has positive influence on TERB. According to the signaling theory, a signal can reflect the valued attributes or characteristics of the signaler (Connelly et al., 2011). That is, credible sources of destination marketing and branding practices can cue tourists to perceive that destination as reliable and trustworthy and, by extension, view the destination as socially responsible to accommodate the needs of different stakeholders (including tourists as the guest). As reciprocal responses, tourists will perform virtuous behaviors (e.g., positive word-of-mouth or revisit) (e.g., Su et al., 2020b), including behaving in an environmentally responsible way during travel in that destination (Su & Swanson, 2017). Therefore, we hypothesize that:

H₄: Destination source credibility positively impacts TERB.

2.4. Mediating role of the organism

Based on the SOR framework, this paper further hypothesizes that the influence of destination source credibility on TERB will be mediated by the organism, i.e., (cognitive and affective) destination image and place attachment. We explain the theoretical relationships among these variables as follows:

Destination image as a mediator has been explored in previous studies. For instance, Veasna et al. (2013) found that the effect of destination source credibility on place attachment is indirectly influenced via destination image. Their study, however, only assessed the mediating effect of the cognitive component of destination image while not examining the potential impact of affective image. Notably, the role of positive emotions toward the destination as a mediator of the link between destination-level stimulus and TERB was highlighted in a later study by Su and Swanson (2017).

In this paper, we argue that (cognitive and affective) destination image will mediate the relationship between destination source credibility and TERB. As mentioned previously, destination image is formulated through information processing from various sources (Zhang et al., 2014). When tourists perceive the marketing source from a specific destination as true and believe in the promises delivered by that destination, they are more likely to have a positive evaluation of and be emotionally aroused by that destination image (e.g., Kani et al., 2017; Veasna et al., 2013). This favorable evaluation and emotional arousal of the destination image would further strengthen the perceived match between tourists and that credible and truthful destination—a term called "signal fit" (Connelly et al., 2011)—such that tourists are more likely to engage in TERB when in that destination as a virtuous reciprocal response to the signified characteristics (e.g., being reliable) of the destination. Thus, the following two hypotheses are proposed:

H₅: *The positive impact of destination source credibility on TERB is mediated by tourists' cognitive image.*

H₆: *The positive impact of destination source credibility on TERB is mediated by tourists' affective image.*

Place attachment is often identified as a mediator between exogenous and endogenous variables. In environmental studies, for example, Cheng et al. (2013) indicated that TERB was indirectly influenced by destination attractiveness via the mediation of place attachment. Similarly, Fan et al. (2014) demonstrated that place attachment mediated the effect of destination image on TERB. In addition, Hosany et al. (2017) found that positive emotions were mediated by place attachment in forming TERB. In this paper, we propose that place attachment will mediate the effect of destination source credibility on TERB. The theoretical explanation for this assumption is clear. Due to the self-concept congruity effect (Sirgy, 1985), tourists are more likely to identify with and become emotionally attached to a destination that is perceived as reliable and trustful; this identification and attachment of that place would further lead to subsequent TERB (e.g., Cheng et al., 2013; Ramkissoon et al.,

2013; Vaske & Kobrin, 2001) since the place (tourism destination) is included as an extended part of the self-concept and serves to satisfy people's emotional and functional needs. This explanation is also aligned with the SOR framework; thus, we hypothesize that:

H₇: The positive impact of destination source credibility on TERB is mediated by tourists' place attachment.

2.5. A serial multiple mediation model

Building on the above-mentioned hypotheses, this paper goes further to predict that the impact of destination source credibility (as the external stimulus and an initiating driver in the model) on TERB (the response) will be mediated, in sequence, by destination image and place attachment (the organism). Some paths of the serial mediation model have been supported in previous studies. For example, destination image mediated the relationship between destination source credibility and place attachment toward the destination (e.g., Veasna et al., 2013). Meanwhile, place attachment mediated the link between destination image and TERB (Fan et al., 2014). Concerning the sequence of the cognition and affect/emotion component of destination image, we propose that cognitive image is a driver of affective image. According to the appraisal theory, things are cognitively appraised before engendering affective reactions (Keller et al., 2012), especially when there is an external stimulus. This means, when tourists are exposed to the stimulus of destination marketing sources, they develop cognitive evaluations (e.g., whether these information sources are credible) first before processing these sources to form a cognitive image of that destination; afterwards, favorable evaluation of cognitive image would give rise to affective responses toward the destination image, which then facilitate subsequent intentions or behaviors—a process of the "cognitive primacy" model (Lazarus, 1984). Drawing upon relationships between these key variables and adopting SOR as the theoretical foundation, we thus proposed an integrative model (see Figure 1) with destination source credibility as the stimulus, cognitive image as the starting point of the mediation that induces affective image and place attachment, and eventually leads to TERB.

H₈: *The positive impact of destination source credibility on TERB is sequentially mediated by tourists' cognitive image, affective image, and place attachment.*

In view of the fact that affective image is influenced by cognitive image (e.g., Chiu et al., 2014; Martin & Bosque, 2008) and these two cognitive and affective components can separately trigger the formation of place attachment (e.g., Veasna et al., 2013; Huang et al., 2021), the serial multiple specific indirect paths shown in Figure 1 can also been divided into additional three types: (1) cognitive image \rightarrow affective image mediation sequence; (2) cognitive image \rightarrow place attachment mediation sequence; (3) affective image \rightarrow place attachment mediation sequence; (3) affective image \rightarrow place attachment mediation paths is of importance to unearth the most critical mediators. Accordingly, there is an urgent need for a specific indirect test that provides tenable evidence on the relationships among destination source credibility and tourist environmentally responsible behavior. Based on the arguments discussed above, the following three hypotheses are provided:

- H₉: The positive impact of destination source credibility on TERB is sequentially mediated by tourists' cognitive image and affective image.
- H₁₀: *The positive impact of destination source credibility on TERB is sequentially mediated by tourists' cognitive image and place attachment.*
- H₁₁: *The positive impact of destination source credibility on TERB is sequentially mediated by tourists' affective image and place attachment.*

[Insert Figure 1 here]

3. Methods

3.1. Measurement of constructs

Multi-item scales were used to measure each construct. Validated scales from previous research were identified and modified to suit the study setting (see Appendix 1 for full information). Six items were adopted from Veasna et al. (2013) to measure destination source credibility. Cognitive image was evaluated using five items from Baloglu and McCleary (1999) and Prayag and Ryan (2012), which was later validated by Shen (2012). Four items from Stylidis et al. (2017) and Stylos et al. (2016) were used to measure affective image. Place attachment was considered as a two-dimensional concept: place dependence and place identify. Place dependence refers to the functional bonds that people have with places (Anton & Lawrence, 2016), while place identity a profound connection between a person's identity

and a place (Ramkissoon et al., 2012). Four items were adapted and modified from Ramkissoon et al. (2013) and Tsai (2012) to measure place dependence. The scale of place identity was adapted from Tonge et al. (2015) and Xu and Zhang (2016). For TERB, this study considers it as one-dimensional construct (e.g., Chiu et al., 2014; Su & Swanson, 2017). Four items from the work of Fan et al. (2014), which was later validated by Qiu (2017) and Xu's et al. (2018) in Chinese contexts, were adopted to measure TERB. Most of the items were measured based on a 5-point Likert scales, anchored from "strongly disagree" (1) to "strongly agree" (5). Affective image was the only variable measured on a five-point semantic differential scale.

3.2. Pretest of measures

The survey was conducted in Chinese. Translation and back-translation between English and Chinese were used to enhance the quality of the survey. Prior to the formal data collection, a pre-test of the measurement items was conducted. Three tourism researchers and five experienced tourists formed an expert panel to check the content validity of the survey. In addition, a pilot test was performed with a convenience sample of 60 tourists who visited Xixi Wetland National Park in February 2017. They were invited to respond to all indicators and provide feedback regarding any issues with the scale. The reliability check via Cronbach's alpha (all > 0.70) and validity through standard factor loading (all > 0.50) indicated acceptable reliability and validity.

3.3. Data collection and respondent characteristics

Three sets of data were collected in three tourism destinations in Hangzhou, China. The first set of survey data was collected in Xixi National Wetland Park in March and June 2017. It was used to test the conceptual model. The second and third sets of data were collected in West Lake (a world heritage cultural landscape site) and China's Grand Canal (Hangzhou section) (a world cultural heritage site) from August to November 2021 under the request of reviewers' comments to cross-validate the model. All the three destinations are open access to tourists without fee charging to the majority sites. They thus attract millions of diversified tourists every year. The three destinations share commonality in terms of being environmentally sensitive and requiring TERB (Li & Wu, 2019).

A convenient sampling procedure technique was adopted in all sessions of data

collection. Four different trained research assistants from a local university helped administer the survey at the exists of the wetland park or key gathering points of tourists. Only domestic tourists and those who were willing to participate were given the self-administered questionnaire. The process was closely supervised and monitored by the principal researcher. Questionnaires were distributed to five hundred participants with 451 valid ones subsequently identified. To ensure the quality of robustness test, 453 and 450 copies of valid surveys were collected in the second and third studies, respectively. Appendix 2 presents the participant profile.

Prior to the formal data analyses, the three datasets were assessed for normality. The skewness and kurtosis values of all indicators varied from -1 to +1, indicating that the data met normality requirements (Hair et al., 2009). The Henze-Zirkler multivariate normality test was applied to determine if there was a normal distribution (Henze & Zirkler, 1990). It was found that the three datasets were multivariate normal (HZ_{Study 1-3} = [1.002, 1.017], $p_{Study 1-3} = [0.493, 0.499]$). Accordingly, all the three sets of data in this study were appropriate for further analysis by AMOS. In the following results sections, the results from study 1 will be firstly presented, followed by the robustness-test using the second and third sets of data.

4. Results from the Xixi Wetland Park (Study 1)

4.1. Common method variance test

Two statistical analyses were performed to ensure that common method variance (CMV) was not a major concern. Harman's single-factor test was used to evaluate the possible occurrence of CMV. Exploratory factor analysis indicated the existence of a multi-factor structure. The variance for the first factor (40.3%) was below the threshold of 50%, indicating that CMV did not appear to be a severe issue (Podsakoff & Organ, 1986). Confirmatory factor analysis was employed to verify whether a common latent factor accounted for all of the variance in the data (Nunkoo et al., 2018). The proposed measurement model fit significantly better than the common factor model ($\Delta \chi^2(12) = 1942.086$, p < 0.001), showing that CMV was not an issue for the current research.

4.2. Measurement model test

Before testing the proposed hypotheses using SEM, confirmatory factor analysis was

conducted to assess the reliability and validity of the constructs and to evaluate the model fit for the measurement model. A series of results (TLI = 0.926, CFI = 0.934, SRMR = 0.050, and RMSEA = 0.057) suggested that the measurement model was a good fit to the data. Cronbach's alpha of each construct ranged from 0.827 to 0.895 (Table 1), indicating the internal reliability of the measurement model was acceptable. In addition, two types of construct validity measures, including convergent and discriminant validity, were assessed. Place attachment was regarded as a second-order construct (e.g., Hosany et al., 2017), including place dependence ($\beta = 0.791$, p < 0.001) and place identity ($\beta = 0.887$, p < 0.001). The composite reliability values ranged from 0.827 to 0.896 (Table 1). The values of standard factor loadings, average variance extracted (AVE) and composite reliability of each construct suggested high convergent validity (Hair et al., 2009). Discriminant validity was calculated by comparing the square root of each construct's AVE with the correlations between pairs of latent variables (Hair et al. 2009). Strong evidence of discriminant validity was observed (Table 2). These results revealed that the measurement model was both reliable and valid. Further hypothesis testing of the structural model was then justified.

[Insert Tables 1 & 2 here]

4.3. Structural model test

The hypothesized relationships were evaluated using SEM. Table 3 and Figure 2 present the standardized coefficient estimates and corresponding *t*-values. The values of the analysis showed that the goodness-of-fit indices of the structural model fit the data well. The findings provided support for all hypothesized direct relationships.

[Insert Table 3 here]

[Insert Figure 2 here]

4.4. Explanatory power of model

The explanatory power of the model is estimated by the R^2 of its major endogenous variables (Cohen, 1988). R^2 values of 0.25, 0.09, and 0.01 are the threshold values to indicate large, medium, and small effects, respectively. The findings from the squared multiple correlations showed that the structural model explained 39.9%, 48.7%, 57.1%, and 54.9% of the variance

for cognitive image, affective image, place attachment, and TERB, respectively. These results reveal indicated the model possessed sufficient explanatory power. The large effects

of the

endogenous variables are captured in the model.

4.5. Mediating effects test

The relationship between destination source credibility and TERB was hypothesized to be partially mediated by cognitive image, affective image, and place attachment. To test the significance of indirect effects, a combination of bootstrapping and Bayesian approaches was used. While it is common to employ *p*-values in tourism research, recent studies suggest using bootstrapping and Bayesian approaches (Assaf & Tsionas, 2018; Feinberg, 2012). Bootstrapping is a powerful statistical approach (MacKinnon et al., 2004), which is especially suitable to test intervening variable effects as it does not impose the assumption of normality of the sampling distribution (Preacher & Hayes, 2008). The Bayesian method for analyzing mediation effects has similar advantages as those for bootstrapping (Yuan & MacKinnon, 2009). Using both bootstrapping and Bayesian approaches to test for mediating effects is a type of methodological triangulation, which ensures the validity of the analysis.

The number of bootstrap samples was set to 5,000, using both percentile and bias-corrected confidence intervals of 95% (hereafter, PCI and BCI). The bootstrapping approach was created and run to test the specific indirect effects (Table 4). In bootstrapping analysis, the mediation effect is significant if the confidence interval for the indirect effect does not contain zero (Zhao et al., 2010). Hence, a significant specific indirect effect was identified for destination source credibility on TERB via place attachment (PCI: [0.089, 0.268]; BCI: [0.093, 0.277]), providing support for H₇. Similarly, H₈, H₁₀, and H₁₁ were confirmed. However, the mediating effect for CI between destination source credibility and TERB was not significant (PCI: [-0.020, 0.145]; BCI: [-0.021, 0.143]), thus not supporting H₅. Likewise, H₆ and H₉ were not supported.

The custom-estimands option in the Bayesian estimation procedure with Markov chain Monte Carlo (MCMC) simulation techniques in AMOS (Arbuckle, 2009) was also undertaken to test the mediating effect. The analysis produced identical results to the bootstrapping approach (Table 4).

[Insert Table 4 here]

To further explore the relative importance of the significant indirect effects between destination source credibility and TERB, pairwise contrasts of these effects were conducted.

The magnitude of the DSC \rightarrow PA \rightarrow TERB path was significantly different from the DSC \rightarrow CI \rightarrow PA \rightarrow TERB path (PCI: [-0.224, -0.023]; BCI: [-0.233, -0.028]; Bayesian: [-0.221, -0.03]). Likewise, the DSC \rightarrow PA \rightarrow TERB path and the DSC \rightarrow CI \rightarrow AI \rightarrow PA \rightarrow TERB path had significant differences. Similarly, the DSC \rightarrow PA \rightarrow TERB path was significantly stronger than the DSC \rightarrow AI \rightarrow PA \rightarrow TERB path. However, by comparing the paths among the DSC \rightarrow CI \rightarrow \rightarrow PA \rightarrow TERB path, the DSC \rightarrow CI \rightarrow AI \rightarrow PA \rightarrow TERB path, the DSC \rightarrow CI \rightarrow AI \rightarrow PA \rightarrow TERB path, the DSC \rightarrow CI \rightarrow AI \rightarrow PA \rightarrow TERB path, the DSC \rightarrow CI \rightarrow AI \rightarrow PA \rightarrow TERB path, the DSC \rightarrow CI \rightarrow AI \rightarrow PA \rightarrow TERB path, the DSC \rightarrow CI \rightarrow AI \rightarrow PA \rightarrow TERB path, the DSC \rightarrow CI \rightarrow AI \rightarrow PA \rightarrow TERB path, the DSC \rightarrow CI \rightarrow AI \rightarrow PA \rightarrow TERB path, the DSC \rightarrow CI \rightarrow AI \rightarrow PA \rightarrow TERB path, the DSC \rightarrow CI \rightarrow AI \rightarrow PA \rightarrow TERB path, the DSC \rightarrow CI \rightarrow AI \rightarrow PA \rightarrow TERB path, the DSC \rightarrow CI \rightarrow AI \rightarrow PA \rightarrow TERB path, the DSC \rightarrow CI \rightarrow AI \rightarrow PA \rightarrow TERB path, the DSC \rightarrow CI \rightarrow AI \rightarrow PA \rightarrow TERB path, the DSC \rightarrow CI \rightarrow AI \rightarrow PA \rightarrow TERB path, the DSC \rightarrow CI \rightarrow AI \rightarrow PA \rightarrow TERB path, the DSC \rightarrow CI \rightarrow AI \rightarrow PA \rightarrow TERB path, there were no significant differences due to the 95% confidence intervals including zero (Table 5).

[Insert Table 5 here]

5. Robustness test in the West Lake (Study 2) and China's Grand Canal (Study 3):

To cross-validate our results and also explore whether the destination type might alter the mechanism of destination source credibility on TERB (Stylidis et al., 2021; Wang et al., 2020), we conducted similar analyses with the second and third sets of data collected at West Lake (N = 453) and China's Grand Canal (N = 450). Though representing diverse tourism destinations for the cross-validation purpose, these three tourism sites are all environmentally fragile and require TERB. The conceptual model passed through both reliability and validity tests (see Appendix 3). In addition to structural model assessment (Figures 3 & 4), specific mediation analysis was examined via bootstrapping and Bayesian approaches (see Tables 4 & 5). Overall, the cross-validation test of all the proposed hypotheses generated highly consistent findings between the three samples, which indicated that the findings withstood the change of the destination context and were thus robust.

[Insert Figures 3 & 4 here]

6. Discussion, conclusions and implications

6.1. Discussion and conclusions

The contribution of TERB to a destination's sustainability and the necessity to understand its antecedents provided the motivation for this research. Stimulus-organism-response (SOR) theory was adopted to develop a conceptual framework, delineating the direct and indirect antecedents of TERB. Three sets of survey data were conducted to examine a serial multiple mediation model through a combination of bootstrapping and Bayesian method. The results

supported the majority of the research hypotheses. It's worth noting that the results of studies 2 & 3 were identical with the results in study 1.

Consistent with the prior literature (Veasna et al., 2013), this paper provided tenable support for the viewpoint that cognitive image can be driven by destination source credibility (H₁). This is likely explained by reasoning that destination source credibility serves as an important signal for the formation of cognition image as per signaling theory (Connelly et al., 2011). Unlike the previous studies focusing on cognitive image, this paper makes a pioneering effort to shed light on the link between destination source credibility and affective image. It was found that the positive effect in the above association was also identified (H₂). Once tourists regard destination information source is believable, positive emotions toward a specific destination will be activated. That is, perceived credible information source, not only helps contribute to the cognition image generation, but also results in the affective image response.

In support of the theory of self-congruity (Sirgy, 1985) and previous research findings (Shang & Luo, 2021; Veasna et al., 2013), the results demonstrated that destination source credibility significantly enhanced the formation of place attachment (H_3) . It means that credible information source can augment their self-concept toward a particular destination to shape deep bonds between individuals and places. Similar to the past studies' findings in the area of green consumer behavior (e.g., Carrete et al., 2012; Mansoor & Paul, 2021), the results of this paper showed that destination source credibility was an important trigger of TERB (H₄). These findings thus highlight the importance of destination source credibility as an important foundation for two-dimensional image, place attachment, and TERB. Contrary to Wang's et al. (2020) results that affective attitude mediated the impact of cognitive attitude on TERB, this paper found that there would be a superior role of cognition in explaining TERB when an external stimulus was salient. Specific to this paper, when tourists were exposed to the destination stimulus (i.e., destination source credibility), they first formed cognitive image as a precursor of affective image in the link to TERB. This result highlights the critical role of external stimulus in shaping and even changing the primacy of cognition or emotion in tourists' pro-environmental decision-making.

This paper supported four specific indirect relationships: DSC \rightarrow PA \rightarrow TERB (H₇),

DSC \rightarrow CI \rightarrow AI \rightarrow PA \rightarrow TERB (H₈), DSC \rightarrow CI \rightarrow PA \rightarrow TERB (H₁₀), and

DSC \rightarrow AI \rightarrow PA \rightarrow TERB (H₁₁) (Table 4). However, the other three proposed indirect relationships were not supported: DSC \rightarrow CI \rightarrow TERB (H₅), DSC \rightarrow AI \rightarrow TERB (H₆), and DSC \rightarrow CI \rightarrow AI \rightarrow TERB (H₉). The findings implied that unless place attachment is formed, neither cognitive nor affective images will increase TERB. A pairwise contrast of the specific significant indirect effects was conducted and provided evidence of the importance of place attachment. This paper indicated that place attachment, when compared to cognitive and affective images, was the most important mediating variable between destination source credibility and TERB. This result can be explained as follows. It was commonly recognized that compared to cognitive factors, affection plays a more important role in pro-environmental behavior (Wang & Wu, 2015). Affective image is dynamic and subject to change in different time periods (Choi et al., 2011). That is, it is an immediate and temporary emotion toward a specific destination (Fan et al., 2014). Compared to affective image, place attachment is showing better explanatory power in predicting TERB. This result is in congruence with Oiu's (2017) finding. One explanation may be that attachment is understood as a deep and lasting affective bonding between individuals across time and space (Bowlby, 1969). Once place attachment is formed, it will lead to TERB. The emotional tie elicits empathy toward destination which further altruistically provoke the attitude towards destination protection (Chubchuwong et al., 2015); tourists with stronger place attachment are inclined to place more affection on the particular destination and generate pro-environmental attitudes thereby (Qu et al., 2019).

6.2. Theoretical contributions

Building upon the key concepts advanced in previous studies, this paper extends the existing work in four notable ways, generating unique theoretical implications. First, this represents the first attempt to assess the effects of destination source credibility as the destination-level stimulus on TERB. This is important considering that previous literature on TERB concentrates relatively less on destination factors (e.g., destination marketing and branding practices) as the stimulus of TERB (e.g., Cheng et al., 2013; He et al., 2018; Su et al., 2020a). The empirical support for a significant impact of destination source credibility on TERB advances studies on source credibility and environmentally responsible behavior (e.g.,

Carrete et al., 2012; Halder et al., 2021; Mansoor & Paul, 2021) through its application to destinations, a non-residential context.

Second, this paper adds to the current literature by examining destination image and place attachment as mediators of the impact of destination source credibility on TERB. To the researchers' best knowledge, no previous studies have considered the link between destination source credibility and TERB, nor is there empirical evidence for the mediating role of any intervening variables in the association. Therefore, this study is innovative and contributes to the existing body of knowledge in two ways. One lies in its investigation of the indirect effects of destination source credibility on TERB via destination image and place attachment. Four significant indirect paths are identified through which destination source credibility influences TERB (Table 4). These results indicate that the indirect effects of destination source credibility on TERB are recognized via the mediating effects of destination image and place attachment. This lends empirical evidence to support the link of

 $DSC \rightarrow CI \rightarrow AI \rightarrow PA \rightarrow TERB$. The sequence provides insights into the underlying relationship between destination source credibility and TERB, making this a useful addition to the existing literature. Moreover, benchmarking the influences of cognitive image, affective image, and place attachment within the relationship between destination source credibility and TERB is insightful. The comparative importance of the four significant indirect paths is explained in a serial multiple mediator model, providing a comprehensive view for a better theoretical understanding of the role of destination source credibility in the TERB decision-making process.

Further, the selection of three differentiated study settings offers ample opportunities to validate the proposed framework beyond a single destination and across different types of tourism attractions. Cross-validation method was conducted to examine a conceptual model's robust in different contexts. The results of all three studies demonstrated that consistent findings between the three samples were totally established. It means that the proposed model (Figure 1) holds across different situations, not only in nature-based tourism contexts, but also in urban and cultural tourism contexts.

Fourth, this research offers a methodological contribution to the current tourism literature by combining the bootstrapping and Bayesian approaches for the mediation analysis.

The past few years have witnessed an increasing number of tourism studies employing the bootstrapping method for testing mediation effects (e.g., Hosany et al., 2017). However, the Bayesian approach has not been used to its full advantage (Assaf, Tsionas, & Oh, 2018). This investigation responded to previous calls for using the Bayesian approach in tourism studies (Assaf & Tsionas, 2018). The results of the Bayesian test for indirect effects were in line with the results of the bootstrapping test. Such a combination of methods strengthens validity by comparing the respective results and makes a pioneering methodological attempt by performing specific mediation analysis via multiple methods.

6.3. Practical implications

The findings are potentially meaningful for sustainable destination management. The results pinpointed the critical role of destination source credibility in predicting cognitive and affective images, place attachment and TERB. Our results lend empirical evidence tourist scams (Xu et al., 2022), as these deceptive activities can also have negative environmental potentials, impeding tourists' pro-environmental actions toward the destination. In this sense, destination management organizations (DMOs) should pay special attention to the credibility of the communicated information sources, through creating and delivering trustworthy information. For example, in one of our study sites, Xixi National Wetland Park takes various strategies to enhance tourists' perceived credibility. In this national park, the prices for all the services and souvenirs are all clearly marked. In addition, tourist flow information is shared with on-site visitors and potential visitors through smart technologies so that they can better manage their schedules and view the destination source as transparent and reliable. In so doing, destination managers can facilitate tourists' positive evaluation of destination image and evoke their emotional resonance with the destination—a process that not only plays a role in (either onsite or perspective) tourists' destination choice but also their virtuous behavior toward the destination. This is important because destination managers can, to some extent, encourage tourists' environmentally friendly behaviors simply by doing their in-role job in affirming the reliability and trustfulness of their marketing and communication practices. Another benefit of communicating credible information sources is supported by our results. Specifically, place attachment functions as the most powerful mediator in the link between destination source credibility and TERB. That is, when the

 information sources tourists receive from destination agencies are deemed trustful, they are likely to enhance their identification with and emotional attachment to the destination, and then behave in a responsible way to steward the natural environment. This result might be especially interesting to destination managers who are struggling to promote tourists' attachment to the destination or who are unsure about the power of credible information sources in eliciting TERB. In sum, our results suggest that destination managers might make the most use of credible information sources in their future destination marketing and branding practices in a way that also benefits the natural environment.

6.4. Limitations and future research directions

This paper had limitations that must be acknowledged. First, this study uses self-evaluated behavior, which may have potential biases. Future research can conduct observations of actual TERB, or people's evaluations of others' TERB, to minimize potential biases. Second, the proposed theoretical model based on SOR is open to extension. Additional constructs can be included to extend the theoretical framework. For instance, TERB may differ based on the types of destination information sources used by tourists. Examining how different categories of information sources that might drive TERB will thus be interesting and meaningful. Additionally, the difficulty of performing TERB varies with the specific behavioral types. Future research should focus on the sub-types of TERB to explore the differences in the individuals' decision-making process. Finally, given that TERB can be explained by multiple implementation paths with equivalent results, fuzzy-set qualitative comparative analysis can be adopted to explore the sufficient causal configurations that resulting in TERB. A combination of these two approaches might help open the "black-box" of TERB in a more holistic and systematic way.

References

- Antimova, R., Nawijn, J., & Peeters, P. (2012). The awareness/attitude-gap in sustainable tourism. *Tourism Review*, 67(3), 7-16.
- Anton, C. E., & Lawrence, C. (2016). The relationship between place attachment, the theory of planned behaviour and residents' response to place change. *Journal of Environmental Psychology*, 47, 145-154.
- Arbuckle, J. (2009). AMOS 18 User's Guide. Chicago: Amos Development Corporation.
- Assaf, A. G., & Tsionas, M. (2018). Bayes factors vs. p-values. *Tourism Management*, 67, 17-31.
- Assaf, A. G., Tsionas, M., & Oh, H. (2018). The time has come: Toward Bayesian SEM estimation in tourism research. *Tourism Management*, *64*, 98-109.
- Ayeh, J. K. (2015). Travellers' acceptance of consumer-generated media. *Computers in Human Behaviour*, 48, 173-180.
- Baloglu, S., & Brinberg, D. (1997). Affective images of tourism destinations. *Journal of Travel Research*, 35(4), 11-15.
- Baloglu, S., & McCleary, K. W. (1999). A model of destination image formation. Annals of Tourism Research, 26(4), 868-897.
- Boley, B. B., Strzelecka, M., Yeager, E. P., Ribeiro, M. A., Aleshinloye, K. D., Woosnam, K. M., & Mimbs, B. P. (2021). Measuring place attachment with the Abbreviated Place Attachment Scale (APAS). *Journal of Environmental Psychology*, 74, 101577.
- Bowlby, J. (1969). Attachment and loss: Vol.1. Attachment. New York: Basic Books.
- Carrete, L., Castaño, R., Felix, R., Centeno, E., & González, E. (2012). Green consumer
- behavior in an emerging economy. Journal of Consumer Marketing, 29(7), 470-481. Chiu, Y.
 - H., Lee, W. I., & Chen, T. H. (2014). Environmentally responsible behavior in ecotourism. *Asia Pacific Journal of Tourism Research*, *19*(8), 876-889.
- Cheng, T. M., Wu, H. C., & Huang, L. M. (2013). The influence of place attachment on the relationship between destination attractiveness and environmentally responsible behavior for island tourism in Penghu, Taiwan. *Journal of Sustainable Tourism*, 21(8), 1166-1187.
- Choi, J. G., Tkachenko, T., & Sil, S. (2011). On the destination image of Korea by Russian tourists. *Tourism Management*, *32*(1), 193-194.
- Chubchuwong, M., Beise-Zee, R., & Speece, M. W. (2015). The effect of nature-based tourism, destination attachment and property ownership on environmental-friendliness of visitors. *Asia Pacific Journal of Tourism Research*, 20(6), 656-679.
- Cohen, J. (1988). *Statistical Power Analysis for the Behavioral Sciences (2nd ed.)*. Hillsdale, NJ: Lawrence Erlbaum Associates.

- Connelly, B. L., Certo, S. T., Ireland, R. D., & Reutzel, C. R. (2011). Signaling theory: A review and assessment. *Journal of Management*, *37*(1), 39-67.
- Dolnicar, S., Cvelbar, L. K., & Grün, B. (2019). A sharing-based approach to enticing tourists to behave more environmentally friendly. *Journal of Travel Research*, 58(2), 241-252.
- Fan, J., Qiu, H., & Wu, X. (2014). Tourist destination image, place attachment and tourists' environmentally responsible behavior. *Tourism Tribune*, 29(1), 55-66.
- Feinberg, F. M. (2012). Mediation analysis and categorical variables. *Journal of Consumer Psychology*, 22(4), 595-598.
- Fu, L. (2010). On the legal solution for the problem of "Zero or negative tour fee" practice. *Tourism Tribune*, *25*(9), 71-76.
- Gartner, W. C. (1994). Image formation process. *Journal of Travel & Tourism Marketing*, 2(2-3), 191-216.
- Guan, X., X, L., & Pi, P. (2017). The effect of negative publicity on tourism destination image and how to repair the tourists' trustworthiness of destination. *Business Management Journal.* 39(8), 146-158.
- Hair, J. F., Black, W. C., Babin, B. J., & Anderson, R. E. (2009). *Multivariate data analysis* (7th ed.). Upper Saddle River, NJ: Prentice Hall.
- Halder, D., Pradhan, D., & Chaudhuri, H. R. (2021). Forty-five years of celebrity credibility and endorsement literature. *Journal of Business Research*, *125*, 397-415.
- Han, H. (2015). Travelers' pro-environmental behavior in a green lodging context. *Tourism Management, 47*, 164-177.
- Han, H. (2021). Consumer behavior and environmental sustainability in tourism and hospitality. *Journal of Sustainable Tourism*, 29(7), 1021-1042.
- He, X., Hu, D., Swanson, S. R., Su, L., & Chen, X. (2018). Destination perceptions, relationship quality, and tourist environmentally responsible behavior. *Tourism management perspectives*, 28, 93-104.
- Henze, N., & Zirkler, B. (1990). A class of invariant consistent tests for multivariate normality. *Communications in Statistics Theory and Methods*, 19 (10): 3595-3617.
 Hidalgo, M. C., & Hernández, B. (2001). Place attachment: Conceptual and empirical questions. *Journal of environmental psychology*, 21(3), 273-281.
- Hosany, S., Prayag, G., Veen, R. V. D., Huang, S., & Deesilatham, S. (2017). Mediating effects of place attachment and satisfaction on the relationship between tourists emotions and intention to recommend. *Journal of Travel Research*, *56*(8), 1079-1093.
- Huang, J., Lu, L., & Song, Y. (2021). Theoretical and empirical exploration of human-environment relationship in tourism context from a microcosmic perspective. Acta

Geographica Sinica, 76(10), 2360-2378.

- Jacoby, J. (2002). Stimulus organism response reconsidered: an evolutionary step in modeling (consumer) behavior. *Journal of consumer psychology*, *12*(1), 51-57.
- Jiang, Y., Ramkissoon, H., Mavondo, F. T., & Feng, S. (2017). Authenticity: The link between destination image and place attachment. *Journal of Hospitality Marketing & Management*, 26(2), 105-124.
- Jiménez-Barreto, J., Rubio, N., Campo, S., & Molinillo, S. (2020). Linking the online destination brand experience and brand credibility with tourists' behavioral intentions toward a destination. *Tourism Management*, *79*, 104101.
- Kani, Y., Aziz, Y. A., Sambasivan, M., & Bojei, J. (2017). Antecedents and outcomes of destination image of Malaysia. *Journal of Hospitality & Tourism Management*, 32, 89-98.

Keller, C., Bostrom, A., Kuttschreuter, M., Savadori, L., Spence, A., & White, M. (2012).
Bringing appraisal theory to environmental risk perception. *Journal of risk* research, 15(3), 237-256.

- Kerstetter, D., & Cho, M. H. (2004). Prior knowledge, credibility and information search. *Annals of Tourism Research*, *31*(4), 961-985.
- Kim, M. J., Lee, C. K., & Jung, T. (2020). Exploring consumer behavior in virtual reality tourism using an extended stimulus-organism-response model. *Journal of travel research*, 59(1), 69-89.
- Kyle, G. T., Mowen, A. J., & Tarrant, M. (2004). Linking place preferences with place meaning: An examination of the relationship between place motivation and place attachment. *Journal of Environmental Psychology, 24*(4), 439-454.

Lazarus, R. S. (1984). On the primacy of cognition. American Psychologist, 39(2), 124-129.

Lee, S., Ha, S., & Widdows, R. (2011). Consumer responses to high-technology products: Product attributes, cognition, and emotions. *Journal of Business Research*, 64(11), 1195-1200.

Lee, T. H., Jan, F. H., & Yang, C. C. (2013). Conceptualizing and measuring environmentally responsible behaviors from the perspective of community-based tourists. *Tourism Management*, 36, 454-468.

Li, Q. C., & Wu, M. Y. (2019). Rationality or morality? A comparative study of pro-environmental intentions of local and nonlocal visitors in nature-based destinations. *Journal of Destination Marketing & Management*, 11, 130-139.

Liu, Y., Zhang, R., & Yao, Y. (2021). How tourist power in social media affects tourism market regulation after unethical incidents. *Annals of Tourism Research*, *91*, 103296.

- Loureiro, S. M. C. (2017). Medical tourists' emotional and cognitive response to credibility and Servicescape. *Current Issues in Tourism, 20*(15), 1633-1652.
- Loureiro, S. M. C. (2014). The role of the rural tourism experience economy in place attachmentand behavioral intentions. *International Journal of Hospitality Management*, 40, 1-9.
- MacKinnon, D. P., Lockwood, C. M., & Williams, J. (2004). Confidence limits for the indirect effect. *Multivariate Behavioral Research*, *39*(1), 99-128.
- Mansoor, M., & Paul, J. (2021). Consumers' choice behavior: an interactive effect of expected eudaimonic well-being and green altruism. *Business Strategy and the Environment*, 31, 94-109.
- Martin, H. S., & Bosque, I. A. (2008). Exploring the cognitive-affective nature of destination image and the role of psychological factors in its formation. *Tourism Management, 29*(2), 263-277.
- Mehrabian, A., & Russell, J. A. (1974). An approach to environmental psychology. Cambridge, MA: The MIT Press.
- Muisyo, P. K., Qin, S., Julius, M. M., Ho, T. H., & Ho, T. H. (2021). Green HRM and employer branding: The role of collective affective commitment to environmental management change and environmental reputation. *Journal of Sustainable Tourism*, https://doi.org/10.1080/09669582.2021.1988621.
- Nunkoo, R., Ribeiro, M. A., Sunnassee, V., & Gursoy, D. (2018). Public trust in mega event planning institutions. *Tourism Management*, *66*, 155-166.
- Ohanian, R. (1990). Construction and validation of a scale to measure celebrity endorsers' perceived expertise, trustworthiness, and attractiveness. *Journal of Advertising*, *19*(3), 39-52.
- Pike, S. (2005). Tourism destination branding complexity. *Journal of Product & Brand Management, 14*(4), 258-259.
- Pike, S., & Ryan, C. (2004). Destination positioning analysis through a comparison of cognitive, affective, and conative perceptions. *Journal of Travel Research*, 42(4), 333-342.
- Phau, I., & Ong, D. (2007). An investigation of the effects of environmental claims in promotional messages for clothing brands. *Marketing Intelligence & Planning*, 25(7), 772-788.
- Podsakoff, P.M. & Organ, D.W. (1986). Self-reports in organizational research: Problems and prospects. *Journal of Management*, *12*(4), 531-544.
- Prayag, G., & Ryan, C. (2012). Antecedents of tourists' loyalty to Mauritius. Journal of

Travel Research, 51(3), 342-356.

- Preacher, K.J., Hayes, A.F. (2008). Asymptotic and resampling strategies for assessing and comparing indirect effects in multiple mediator models. *Behavior Research Methods*, *40*(3), 879-891.
- Qiu, H. (2017). Tourism festival image, festival attachment, festival tourists' environmentally responsible attitude and behavior. *Zhejiang Social Sciences*, (2), 84-93.
- Qu, Y., Xu, F., & Lyu, X. (2019). Motivational place attachment dimensions and the pro-environmental behaviour intention of mass tourists. *Current Issues in Tourism*, 22(2), 197-217.
- Ramkissoon, H., Weiler, B., & Smith, L. D. G. (2012). Place attachment and pro-environmental behaviour in national parks. *Journal of Sustainable Tourism*, 20(2), 257-276.
- Ramkissoon, H., Smith, L. D., & Weiler, B. (2013). Testing the dimensionality of place attachment and its relationships with place satisfaction and pro-environmental behaviours. *Tourism Management*, 36, 552-566.
- Reitsamer, B. F., & Brunner-Sperdin, A. (2021). It's all about the brand: place brand credibility, place attachment, and consumer loyalty. *Journal of Brand Management, 28*, 291-301.
- Rieh, S. Y. (2010). Credibility and cognitive authority of information. In M. Bates, & M. N.Maack (Eds.), Encyclopedia of library and information sciences (3rd ed.). New York:Taylor & Francis.
- Shang, Z., & Luo, J. (2021). Modeling of the impact of the credibility of the destination endorser on the place attachment of potential Tourists. *Frontiers in psychology, 12*, 759207.
- Sirgy, M. J. (1985). Using self-congruity and ideal congruity to predict purchase motivation. *Journal of Business Research*, 13(3), 195-206.
- Shen, P. Y. (2012). A study on the effects of social responsibility of tourism enterprises on destination image and tourist loyalty. *Tourism Tribune*, *27*(2), 72-79.
- Steg, L., & Vlek, C. (2009). Encouraging pro-environmental behaviour. Journal of Environmental Psychology, 29(3), 309-317.
- Stylidis, D., Shani, A., & Belhassen, Y. (2017). Testing an integrated destination image model across residents and tourists. *Tourism Management*, *58*, 184-195.
- Stylidis, D., Woosnam, K. M. & Tasci, A. D. A. (2021): The effect of resident-tourist interaction quality on destination image and loyalty. *Journal of Sustainable Tourism*, https://doi.org/10.1080/09669582.2021.1918133

- Stylos, N., Vassiliadis, C. A., Bellou, V., & Andronikidis, A. (2016). Destination images, holistic images and personal normative beliefs. *Tourism Management*, 53, 40-60.
- Su, L., Hsu, M. K., & Boostrom Jr, R. E. (2020a). From recreation to responsibility: Increasing environmentally responsible behavior in tourism. *Journal of Business Research*, 109, 557-573.

Su, L., Lian, Q., & Huang, Y. (2020b). How do tourists' attribution of destination social responsibility motives impact trust and intention to visit? *Tourism Management*, 77, 103970.

Su, L., & Swanson, S. R. (2017). The effect of destination social responsibility on tourist environmentally responsible behavior. *Tourism Management*, *60*, 308-321.

Su, L., Swanson, S. R., & Chen, X. (2018). Reputation, subjective well-being, and environmental responsibility. *Journal of Sustainable Tourism*, 26(8), 1344-1361.

Tang, P., He, J. (2020). The impact of cultural heritage rejuvenation experience quality on visitors' destination loyalty. *Nankai Business Review*, 23(5), 76-87.

Tang, Z., Warkentin, M., & Wu, L. (2019). Understanding employees' energy saving behavior from the perspective of stimulus-organism-responses. *Resources, Conservation* and Recycling, 140, 216-223.

Tonge, J., Ryan, M. M., Moore, S. A., & Beckley, L. E. (2015). The effect of place attachment on pro-environment behavioral intentions of visitors to coastal natural area tourist destinations. *Journal of Travel Research*, 54(6), 730-743.

Tsai, S. P. (2012). Place attachment and tourism marketing. *International Journal of Tourism Research*, 14(2), 139-152.

Vg, G., Park, E., & Lee, C. K. (2021). Testing the influence of destination source credibility,

destination image, and destination fascination on the decision - making process: Case of the Cayman Islands. *International Journal of Tourism Research*, 23(4), 569-580.

Wang, J., & Wu, L. (2015). The categories, dimensions and mechanisms of emotions in the studies of pro-environmental behavior. *Advances in Psychological Science*, 23(12), 2153-2166.

Wang, X., Qin, X., & Zhou, Y. (2020). A comparative study of relative roles and sequences of cognitive and affective attitudes on tourists' pro-environmental behavioral intention. *Journal of Sustainable Tourism*, 28(5), 727-746.

Wang, X., & Zhang, C. (2020). Contingent effects of social norms on tourists' pro-environmental behaviours. *Journal of Sustainable Tourism*, 28(10), 1646-1664. Wu, J.

S., Font, X., Liu, J. (2021). The elusive impact of pro-environmental intention on holiday on pro-environmental behaviour at home. *Tourism Management, 85*, 104283.

- Vaske, J. J., & Kobrin, K. C. (2001). Place attachment and environmentally responsible behavior. The Journal of environmental education, 32(4), 16-21.
- Veasna, S., Wu, W. Y., & Huang, C. H. (2013). The impact of destination source credibility on destination satisfaction. Tourism Management, 36(3), 511-526.

Vinzenz, F., Priskin, J., Wirth, W., Ponnapureddy, S., & Ohnmacht, T. (2019). Marketing sustainable tourism: The role of value orientation, well-being and credibility. Journal of Sustainable Tourism, 27(11), 1663-1685.

- Xu, D., Murphy, L., Chen, T., & Pearce, P. L. (2022). Differentiating tourist scam cases: Towards a taxonomy of deceptive schemes. Journal of Hospitality and Tourism Management, 50, 159-167.
- Xu, S., Kim, H. J., Liang, M., & Ryu, K. (2018). Interrelationships between tourist involvement, tourist experience, and environmentally responsible behavior. Journal of Travel & Tourism Marketing, 35 (7), 856-868.
- Xu, Z., & Zhang, J. (2016). Antecedents and consequences of place attachment. Journal of Destination Marketing & Management, 5(2), 86-96.
- Yuan, Y., & Mackinnon, D. P. (2009). Bayesian mediation analysis, Psychological Methods, 14(4), 301-322.
- Zhang, B., Ritchie, B., Mair, J., & Driml, S. (2019). Is the airline trustworthy? The Impact of Source Credibility on Voluntary Carbon Offsetting. Journal of Travel Research, 58(5), 715-731.
- Zhang, H., Fu, X., Cai, L. A., & Lu, L. (2014). Destination image and tourist loyalty. Tourism Management, 40(1), 213-223.
- Zhang, W., & Zhang, H. (2013). Empirical research on bad faith behavior in the tourism market. Tourism Tribune, 28(5), 99-108.
- Zhao, X., Lynch, J. G., & Chen, Q. (2010). Reconsidering Baron and Kenny: Myths and Truths about Mediation Analysis, Journal of Consumer Research, 37(2), 197-206.

Figure



Figure 1. Conceptual model

Note: H_1 = DSC \rightarrow CI, H_2 = DSC \rightarrow AI, H_3 = DSC \rightarrow PA, H_4 = DSC \rightarrow TERB, H_5 = DSC \rightarrow CI \rightarrow TERB, H_6 = DSC \rightarrow AI \rightarrow TERB, H_7 = DSC \rightarrow PA \rightarrow TERB, H_8 = DSC \rightarrow CI \rightarrow AI \rightarrow PA \rightarrow TERB, H_9 = DSC \rightarrow CI \rightarrow AI \rightarrow TERB, H_{10} = DSC \rightarrow CI \rightarrow PA \rightarrow TERB, H_{11} = DSC \rightarrow AI \rightarrow PA \rightarrow TERB; the mediating hypotheses were colored as blue. DSC = destination source credibility, CI = cognitive image, AI = affective image, PA = place attachment, TERB = tourist environmentally responsible behavior.



Figure 2. Results of hypothetical model (Study 1).



Figure 3. Results of hypothetical model (Study 2).



Figure 4. Results of hypothetical model (Study 3).

Table

Table 1. Assessment of measurement model (Study 1).

Construct and item	Mean	SD	Std. factor loading	<i>t</i> values	CR	AVE	alpha
DSC					0.896	0.590	0.895
DSC1	3.579	0.667	0.757	15.138			
DSC2	3.696	0.679	0.769	15.358			
DSC3	3.670	0.649	0.790	15.758			
DSC4	3.721	0.661	0.845	16.783			
DSC5	3.721	0.675	0.733	14.658			
DSC6	3.674	0.668	0.707	—			
CI					0.866	0.563	0.863
CI1	3.896	0.703	0.738	14.092			
CI2	3.812	0.701	0.789	14.927			
CI3	3.860	0.690	0.795	15.034			
CI4	3.712	0.725	0.734	14.015			
CI5	3.594	0.731	0.692	—			
AI					0.857	0.601	0.85
AI1	3.809	0.724	0.707	15.714			
AI2	3.883	0.722	0.736	16.502			
AI3	3.643	0.777	0.833	19.096			
AI4	3.645	0.793	0.818	—			
PA					0.827	0.706	0.892
PD			0.791	11.219	0.891	0.671	0.89
PD1	3.106	0.900	0.808	19.170			
PD2	3.228	0.874	0.816	19.405			
PD3	3.073	0.936	0.835	20.000			
PD4	3.027	0.901	0.817				
PI			0.887		0.832	0.554	0.83
PI1	3.386	0.747	0.763	14.671			
PI2	3.501	0.737	0.772	14.813			
PI3	3.370	0.776	0.724	13.981			
PI4	3.295	0.830	0.716				
TERB					0.828	0 547	0.82
TERB1	3 552	0 702	0 780	14 615	0.020	0.017	0.02
TERB2	3 585	0.656	0.668	12 759			
TERB3	3 4 5 5	0.745	0 796	14 854			
TEDD4	2 6 1 9	0.648	0.706				

Note: DSC= destination source credibility; CI= cognitive image; AI= affective image; PA= place attachment; PD= place dependence; PI= place identity; TERB= tourist environmentally responsible behavior; CR= composite reliability; AVE= average variance extracted.

Table 2. Discriminant validity assessment.

Case	Construct	DSC	CI	AI	PA	TERB
Study 1	DSC	0.768				
(<i>N</i> =451)	CI	0.632	0.751			
	AI	0.621	0.639	0.775		
	PA	0.686	0.624	0.647	0.840	
	TERB	0.638	0.561	0.553	0.704	0.739
Study 2	DSC	0.820				
(<i>N</i> =453)	CI	0.598	0.787			
``´´	AI	0.534	0.585	0.813		
	PA	0.643	0.602	0.606	0.769	
	TERB	0.573	0.451	0.477	0.685	0.796
Study 3	DSC	0.785				
(<i>N</i> =450)	CI	0.541	0.766			
· · · ·	AI	0.510	0.560	0.801		
	PA	0.536	0.503	0.517	0.796	
	TERB	0.499	0.325	0.401	0.608	0.754

Table 3. Structural model assessment.

Case	Hypotheses	paths	Standardized coefficient	<i>t</i> -value	Results
Study 1	H_1	DSC→CI	0.632***	10.198	Supported
(<i>N</i> =451)	H ₂	DSC→AI	0.361***	5.867	Supported
(H_3	DSC→PA	0.386***	5.423	Supported
	H_4	DSC→TERB	0.236**	3.213	Supported
	$\chi^2/df = 2.467$, TLI = 0.926 , CFI = 0	.934, SRMR = 0.050, RMS	SEA = 0.0	57
Study 2	H_1	DSC→CI	0.598***	11.451	Supported
(N=453)	H_2	DSC→AI	0.286***	5.003	Supported
(1, 100)	H_3	DSC→PA	0.359***	5.490	Supported
	H_4	DSC→TERB	0.224***	3.330	Supported
	$\chi^2/df = 2.955$, $TLI = 0.925$, $CFI = 0$.933, SRMR = 0.044, RMS	SEA = 0.0	66
Study 3	H_1	DSC→CI	0.541***	10.098	Supported
(N=450)	H_2	DSC→AI	0.292***	5.134	Supported
(1, 100)	H_3	DSC→PA	0.299***	4.655	Supported
	H_4	DSC→TERB	0.255***	3.901	Supported
	$\chi^2/df = 2.594$, TLI = 0.930 , CFI = 0	.938, SRMR = 0.043, RMS	SEA = 0.0	60
<i>Note</i> : * <i>p</i> <	< 0.05, ** <i>p</i> < 0.0	01, *** <i>p</i> < 0.001.			

Hypotheses	Specific indirect path	Case	Point	Prod	luct of		Boo	tstrap		Bay	esian	Results
			estimate	coeff	icients	Р	CI	В	CI			
				SE	Z	Lower	Upper	Lower	Upper	95% Lower	95% Upper	-
H ₅	DSC→CI→TERB	Study 1	0.061	0.042	1.452	-0.020	0.145	-0.021	0.143	-0.024	0.150	Not supported
		Study 2	-0.018	0.037	-0.486	-0.093	0.052	-0.092	0.054	-0.090	0.050	Not supported
		Study 3	-0.050	0.037	-1.351	-0.130	0.016	-0.127	0.016	-0.121	0.015	Not supported
H ₆	DSC→AI→TERB	Study 1	0.020	0.027	0.741	-0.031	0.077	-0.027	0.081	-0.030	0.074	Not supported
		Study 2	0.015	0.018	0.833	-0.022	0.049	-0.017	0.052	-0.019	0.051	Not supported
		Study 3	0.022	0.02	1.100	-0.016	0.063	-0.014	0.064	-0.014	0.061	Not supported
H ₇	DSC→PA→TERB	Study 1	0.166	0.046	3.609	0.089	0.268	0.093	0.277	0.089	0.272	Supported
		Study 2	0.165	0.041	4.024	0.097	0.258	0.096	0.257	0.091	0.259	Supported
		Study 3	0.136	0.038	3.579	0.069	0.217	0.074	0.222	0.071	0.223	Supported
H ₈	DSC→CI→AI→PA→	Study 1	0.031	0.014	2.214	0.011	0.064	0.012	0.068	0.013	0.059	Supported
	TERB	Study 2	0.032	0.012	2.667	0.014	0.060	0.015	0.063	0.015	0.059	Supported
		Study 3	0.025	0.010	2.500	0.010	0.047	0.011	0.050	0.011	0.045	Supported
H ₉	DSC→CI→AI→TERB	Study 1	0.014	0.019	0.737	-0.025	0.052	-0.021	0.056	-0.021	0.053	Not supported
		Study 2	0.013	0.016	0.813	-0.018	0.045	-0.016	0.047	-0.016	0.044	Not supported
		Study 3	0.016	0.015	1.067	-0.012	0.046	-0.011	0.047	-0.01	0.047	Not supported
H ₁₀	DSC→CI→PA→TERB	Study 1	0.055	0.026	2.115	0.013	0.114	0.015	0.120	0.016	0.108	Supported
		Study 2	0.061	0.023	2.652	0.021	0.114	0.023	0.117	0.021	0.113	Supported
		Study 3	0.049	0.02	2.450	0.015	0.093	0.017	0.097	0.015	0.093	Supported
H ₁₁	DSC→AI→PA→TERB	Study 1	0.043	0.017	2.529	0.016	0.083	0.017	0.089	0.017	0.081	Supported
		Study 2	0.038	0.014	2.714	0.016	0.069	0.018	0.074	0.016	0.071	Supported

Table 4. Specific mediation analysis through bootstrapping and Bayesian approaches.

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	Study 3	0.034	0.012	2.833	0.013	0.061	0.015	0.067	0.014	0.061	Supported
	https://mc.manuse	criptcentra	al.com/cv	rp-jost Er	nail: rsus-	peerrevie	ew@jourr	als.tandf.co	o.uk		

Contrast	Case	Point	Prod	uct of	Bootstrap		Baye	esian	Results		
		estimate	coeff	icients	P	CI	В	CI			
			SE	Ζ	Lower	Upper	Lower	Upper	95% Lower	95% Upper	-
1-2	Study 1	0.024	0.028	0.857	-0.029	0.083	-0.026	0.085	-0.025	0.079	No significant difference
	Study 2	0.028	0.026	1.077	-0.022	0.082	-0.021	0.085	-0.019	0.08	No significant difference
	Study 3	0.024	0.023	1.043	-0.02	0.073	-0.02	0.073	-0.017	0.07	No significant difference
1-3	Study 1	0.012	0.031	0.387	-0.049	0.076	-0.048	0.077	-0.043	0.071	No significant difference
	Study 2	0.023	0.027	0.852	-0.027	0.081	-0.025	0.083	-0.028	0.078	No significant difference
	Study 3	0.016	0.025	0.640	-0.031	0.067	-0.031	0.067	-0.029	0.065	No significant difference
1-4	Study 1	-0.111	0.051	-2.176	-0.224	-0.023	-0.233	-0.028	-0.221	-0.03	Significant difference
	Study 2	-0.105	0.046	-2.283	-0.205	-0.022	-0.204	-0.021	-0.203	-0.019	Significant difference
	Study 3	-0.087	0.041	-2.122	-0.171	-0.01	-0.176	-0.013	-0.181	-0.01	Significant difference No
2-3	Study 1	-0.012	0.013	-0.923	-0.042	0.012	-0.047	0.008	-0.039	0.01	significant difference No
	Study 2	-0.005	0.011	-0.455	-0.027	0.019	-0.029	0.018	-0.03	0.017	significant difference No
	Study 3	-0.009	0.009	-1.000	-0.028	0.01	-0.03	0.008	-0.03	0.01	significant difference
2-4	Study 1	-0.135	0.045	-3.000	-0.235	-0.061	-0.246	-0.065	-0.237	-0.061	Significant difference
	Study 2	-0.133	0.041	-3.244	-0.223	-0.063	-0.224	-0.063	-0.224	-0.06	Significant difference
	Study 3	-0.111	0.038	-2.921	-0.191	-0.045	-0.195	-0.048	-0.197	-0.044	Significant difference
3-4	Study 1	-0.123	0.044	-2.795	-0.221	-0.049	-0.228	-0.052	-0.225	-0.047	Significant difference
	Study 2	-0.128	0.041	-3.122	-0.22	-0.056	-0.219	-0.056	-0.22	-0.054	Significant difference
	Study 3	-0.102	0.038	-2.684	-0.184	-0.035	-0.188	-0.037	-0.191	-0.034	Significant difference

Table 5. Contrasts among significant specific indirect effects.

 $\textit{Note:} \ (1) \ \mathsf{DSC} \rightarrow \mathsf{CI} \rightarrow \mathsf{PA} \rightarrow \mathsf{TERB} \ \mathsf{path}; \ (2) \ \mathsf{DSC} \rightarrow \mathsf{CI} \rightarrow \mathsf{AI} \rightarrow \mathsf{PA} \rightarrow \mathsf{TERB} \ \mathsf{path}; \ (3) \ \mathsf{DSC} \rightarrow \mathsf{AI} \rightarrow \mathsf{PA} \rightarrow \mathsf{TERB} \ \mathsf{path}; \ (4) \ \mathsf{DSC} \rightarrow \mathsf{PA} \rightarrow \mathsf{TERB} \ \mathsf{path}.$

Construct	Item	Item label	Source
Destination	Information claims from this destination are believable.	DSC1	Veasna et al., 2013
source credibility (DSC)	This destination is committed to delivering on its claims.	DSC2	
	Over time, my experiences with this destination led me to expect it keeps its promises.	DSC3	
	This destination has a name you can trust.	DSC4	
	This destination has the ability to deliver what it promises.	DSC5	
	This destination delivers what it promises.	DSC6	
Cognitive	Beautiful scenery	CI1	Baloglu &
image (CI)	Cleanliness	CI2	McCleary, 1999;
	Offers personal safety	CI3	Prayag & Ryan,
	Good quality of infrastructure	CI4	2012
	General level of service is high	CI5	
Affective	Unpleasant – pleasant	AI1	Stylidis et al.,
image (AI)	Distressing – relaxing	AI2	2017; Stylos et al.,
	Gloomy – exciting	AI3	2016
	Boring – interesting	AI4	
Place dependence (PD)	For the activities I enjoy the most, the settings and facilities provided by this destination are the best.	PD1	Ramkissoon et al., 2013; Tsai, 2012
	For what I like to do, I could not imagine anything better than the settings and facilities provided by this destination.	PD2	
	I enjoy visiting this destination more than any other destination.	PD3	
	I do not find any other destination capable of serving my needs better than this destination.	PD4	

Appendix 1. Measures of model constructs.

Place	Visiting this destination has a special meaning in my life.	PI1	Tonge et al., 2015;
identity (PI)	I identify strongly with this destination.	PI2	Xu & Zhang, 2016
	This destination is a very special destination to me.	PI3	
	I feel visiting this destination is part of my life.	PI4	
Tourist environment-	I discuss environmental protection issues of the destination with companions.	TERB1	Fan et al., 2014
ally responsible behavior (TERB)	I try to convince companions to adopt positive behaviors in the environment of this destination.	TERB2	
	I report activities damaging the environment of the destination.	TERB3	
	When I see trash in the destination, I pick it up.	TERB4	

Variable	Catagory	Study 1 (2	V = 451)	Study 2 (A	V = 453)	Study 3 (A	V = 450)
Variable	Category	Frequency	Percent	Frequency	Percent	Frequency	Percent
Gender	Male	220	48.8%	218	48.1%	221	49.1%
	Female	231	51.2%	235	51.9%	229	50.9%
Age	< 25	134	29.7%	94	20.8%	98	21.8%
	25-34	169	37.5%	131	28.9%	127	28.2%
	35-44	102	22.6%	122	26.9%	114	25.3%
	45-59	37	8.2%	82	18.1%	85	18.9%
	≥ 60	9	2.0%	24	5.3%	26	5.8%
Information	Traditional channels	108	23.9%	66	14.6%	71	15.8%
sources	Tourism network marketing platforms	164	36.4%	82	18.1%	83	18.4%
	Consumer-generated media (CGM)	78	17.3%	97	21.4%	91	20.2%
	More than the above sources	101	22.4%	208	45.9%	205	45.6%
Education	Junior high or below	20	4.4%	26	5.7%	31	6.9%
	Senior high, TAFE or similar	62	13.7%	45	9.9%	55	12.2%
	Diploma education	159	35.3%	141	31.1%	137	30.4%
	Undergraduate	170	37.7%	177	39.1%	168	37.3%
	Postgraduate	40	8.9%	64	14.1%	59	13.1%
Individual	< 2000	106	23.5%	77	17.0%	81	18.0%
disposable	2000-2999	93	20.6%	72	15.9%	73	16.2%
(RMB/month)	3000-3999	78	17.3%	70	15.5%	67	14.9%
	4000-4999	69	15.3%	67	14.8%	64	14.2%
	5000-5999	46	10.2%	60	13.2%	62	13.8%
	≥ 6000	59	13.1%	107	23.6%	103	22.9%

Appendix 2. Demographic profiles of respondents.

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Construct		Study	2 (<i>N</i> =45	3)		Study 3 (<i>N</i> =450)					
	Loading	t values	CR	AVE	alpha	Loading	t values	CR	AVE	alpha	
DSC			0.925	0.672	0.924			0.906	0.617	0.906	
DSC1	0.733	17.890				0.748	17.415				
DSC2	0.869	23.133				0.825	19.858				
DSC3	0.801	20.345				0.753	17.559				
DSC4	0.808	20.63				0.744	17.304				
DSC5	0.864	22.931				0.828	19.962				
DSC6	0.835					0.810					
CI			0.891	0.620	0.889			0.876	0.587	0.876	
CI1	0.746	16.219				0.71	15.242				
CI2	0.826	18.219				0.774	16.815				
CI3	0.815	17.955				0.778	16.897				
CI4	0.777	16.998				0.786	17.088				
CI5	0.769					0.779					
AI			0.886	0.661	0.883			0.877	0.641	0.874	
AI1	0.892	17.73				0.85	17.195				
AI2	0.835	16.789				0.778	15.816				
AI3	0.8	16.127				0.838	16.991				
AI4	0.714					0.731					
PA			0.743	0.592	0.912			0.772	0.633	0.915	
PD	0.722	11.581	0.930	0.768	0.928	0.693	10.591			0.927	
PD1	0.894	28.767				0.895	29.557				
PD2	0.884	28.09				0.876	28.109				
PD3	0.819	23.864				0.807	23.518				
PD4	0.906					0.917					
Ы	0.814		0.904	0.703	0.903	0.886		0.903	0.699	0.902	

Appendix 3. Assessment of measurement model (Study 2 & 3).

PI1	0.833	21.565				0.836	20.891			
PI2	0.903	24.279				0.846	21.245			
PI3	0.77	19.132				0.829	20.661			
PI4	0.843					0.832				
TERB			0.874	0.634	0.873			0.840	0.569	0.840
TERB1	0.786	16.865				0.741	14.415			
TERB2	0.874	18.736				0.778	15.043			
TERB3	0.758	16.207				0.763	14.801			
TERB4	0.762					0.733				
Goodness-of	$\gamma^2/df = 2$	2.955, TLI	= 0.925	, CFI = 0).933,	$\chi^2/df = 2$	2.594, TLI =	= 0.930,	CFI = 0	.938,
fit indices	SRM	R = 0.043	8, RMSI	EA = 0.0)66	SRM	IR = 0.0431	, RMSE	A = 0.0	60