

A Study on the Relationship between Place Identity and

Leisure Benefits for Foreign Tourists in Taiwan

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Abstract— Taiwan is one of the world's renowned tourist destinations. The sustained growth in inbound tourism not only brings substantial economic benefits to Taiwan but also enhances global awareness and fosters goodwill among people worldwide. This study employs empirical research to examine the differences in foreign tourists' place attachment to Taiwan and the varying levels of leisure benefits they derive from recreational activities during their stay. Additionally, it investigates the correlation between place identity and leisure benefits. The key findings reveal that among foreign tourists, environmental identity scores the highest in place identity, while commitment scores the lowest. In terms of leisure benefits, social benefits rank the highest, whereas physiological benefits rank the lowest. A significant positive correlation exists between place identity and leisure benefits, with a canonical correlation relationship observed between the two. The research findings provide a valuable reference for future studies on the travel and leisure behaviors of tourists visiting Taiwan.

Keywords—Place Identity; Leisure Benefits; Taiwan Tourism; Empirical Research; Place Attachment

I. INTRODUCTION

Taiwan is renowned for its diverse and rich historical-cultural landscape, abundant natural resources, and a hospitable society. Additionally, its ubiquitous night markets and convenience stores, coupled with a wide array of distinctive local delicacies, attract gourmands from around the world. Visiting this beautiful island offers tourists a vibrant and rewarding experience, solidifying Taiwan's reputation as one of the world's premier tourist destinations. The sustained growth in inbound tourism not only generates substantial economic benefits but also enhances global awareness and fosters cross-cultural goodwill.

This study employs empirical research to examine foreign tourists' place attachment to Taiwan, analyze variations in the leisure benefits derived from their recreational activities, and assess the correlation between place attachment and leisure benefits.

II. THEORETICAL CONCEPTS AND LITERATURE REVIEW

2.1 Theoretical Concepts

Place identity refers to an individual's association with a specific place through complex perceptual and non-perceptual processes involving thoughts, beliefs, preferences, feelings, values, goals, and behavioral intentions [1]. It represents an interactive process through which individuals transform a geographical area into a meaningful place concept [2], enabling them to distinguish one place from others [3]. In essence, place identity reflects an individual's psychological and emotional attachment and sense of belonging toward a particular place. When individuals interact with and experience a place, such engagement may fulfill certain specific needs, thereby generating symbolic meanings or emotional connections with the place. Place identity is not static but evolves in response to environmental changes. As an individual's place identity strengthens, it influences their cognitive perceptions and behaviors toward the place [4]. Regarding the measurement dimensions of place identity, Breakwell initially proposed three dimensions: continuity, self-esteem, and distinctiveness, later adding self-efficacy in 1992 [5]. Alternatively, Lalli (1992) suggested that an individual's familiarity with and sense of belonging to a place serve as evaluation criteria for place identity. Through conceptual integration, Lalli proposed five measurement dimensions: evaluation. familiarity, attachment, continuity, and commitment [6]."

The concept of "benefits" encompasses both monetary and non-monetary dimensions. Monetary benefits refer to economic gains that can be quantified in monetary units, representing the financial expenditure required to obtain goods or services. Non-monetary benefits denote positive transformations benefiting individuals, groups, societies, or entities, emphasizing the fulfillment of individuals' needs [7]. Leisure benefits generally refer to the physiological, psychological, environmental, and social impacts individuals experience during leisure activities, stimulated by environmental, activity-related, temporal, and psychological factors. These impacts, when subjectively evaluated by individuals, constitute leisure benefits [8]. Essentially, leisure benefits represent individuals' subjective assessments of whether their leisure experiences meet their personal needs and objectives [9]. Regarding the measurement dimensions of leisure benefits, Bammel et al. (1982) proposed a six-dimensional framework comprising physiological benefits, social benefits, relaxation benefits, educational benefits, psychological benefits, and aesthetic benefits [10]. Cordes et al. (1999) identified that leisure participation yields physiological, emotional, psychological, and social benefits [11]. Alternatively, Bright (2000) suggested that leisure activities influence human lifestyles through psychological, physiological, social, economic, and environmental benefits [12].

2.2 Literature Review

Research on the relationship between leisure participants' place identity and the leisure benefits they derive from activities in a given location, or other leisure-related concepts, remains limited. Place identity is often considered a component of place attachment in leisure studies. For instance, Bricker et al. (2000) found that whitewater rafting participants' place identity strengthens with increased levels of recreation specialization, including investment, centrality, and experience [13]. Kyle et al. (2003) demonstrated that hikers' place identity on trails can be predicted by their leisure involvement, particularly through self-expression and attraction [14]. Liang (2005) suggested that birdwatchers with stronger serious leisure characteristics exhibit higher place identity toward birding sites [15]. Similarly, Alexandris et al. (2006) revealed that skiers' loyalty to ski resorts significantly influences their place identity [16].

Studies on leisure benefits are relatively more

extensive. Coleman (1993) argued that individuals experiencing higher life stress perceive greater leisure benefits from their activities [17]. Philipp's (1997) research highlighted that African American men primarily derive relaxation and self-actualization benefits from leisure, whereas women experience stronger social and self-affirmation benefits. In contrast, European American women reported significantly higher relaxation and self-actualization benefits than men [18]. Courneya et al. (1998) and Gordon et al. (2000) found that participants with higher leisure involvement gain greater physiological, psychological, and social benefits compared to those with lower involvement [19-20]. Additionally, Parry et al. (1999) indicated that leisure benefits contribute to positive emotions, enhance life satisfaction, and effectively predict participants' well-being [21].

III. EMPIRICAL RESEARCH METHODOLOGIES

3.1 Questionnaire Scale Design

The measurement scales used in this study's questionnaire were developed based on established references, as summarized in Table 1. Excluding basic demographic information, all items employed closed-ended single-choice questions requiring respondents to answer truthfully. Each item was measured using a 5-point Likert scale (ranging from 5 = strongly agree to 1 = strongly disagree, with higher scores indicating stronger perceived attributes. To assess foreign tourists' place identity toward Taiwan, this study integrated dimensions of History and Culture, and Environment, building upon existing theoretical frameworks while adapting to research needs. For measuring Leisure Benefits, Cultural Benefits and Cognitive Benefits dimensions were incorporated alongside conventional measures.

Scale	Measurement Dimension	Questions	Question Content	Score Significance	Reference Source	
Subject	Personal	1-1 to 1-7	Gender, age, education, marriage,	The score	Based on	
Profile	Background		occupation, monthly income,	reflects the	research	
			nationality	basic	needs.	
	Itinerary	1-8 to		situation of		
	Planning	1-14		the subjects,		
			Port of entry, length of stay in	and has		
			Taiwan, number of partners, type	nothing to do		
			of activity, accommodation, diet,	with the		
			average daily expenditure	measurement of cognitive		
				level.		
Place	History and		I am very clear about Taiwan's	The higher	References	
Identity	Culture	2-1	historical context and related	the score, the	to	
			historical events and figures	higher the	Breakwell	
			I think Taiwan has better protected	degree of	[5], Lalli [6]	
		2-2	and inherited the culture and	place identity,	and research	
			cultural landscape of the Chinese	and the	need to be	

Table 1	Ouestion	naire desigi	n and cor	npilation

		nation	higher	the	adjusted.
		I think that the folk activities,	degree	of	aujusicu.
		festivals and celebrations in	place id		
	2-3	Taiwan can reflect the essence of	•	•	
		Chinese folk culture.	to falwa	11.	
Environment		I can clearly point out the			
Environment	2-4	geographical location of Taiwan.			
		I think the natural environment			
	2.5				
	2-5	and climatic conditions in Taiwan			
		are very suitable for living.			
		I think life in Taiwan is very			
	2-6	convenient, and various living			
		supporting facilities are quite			
		complete.			
		I think the people in Taiwan are			
	2-7	very warm and friendly, and the			
		social order is very good. I am			
		willing to live in Taiwan.			
Distinctiveness		I think I am a part of Taiwan			
	2-8	society, and I will be proud to be a			
		person from Taiwan.			
		I think Taiwan has many			
	2-9	advantages that my hometown			
		doesn't have.			
Attachment		I think living in Taiwan gives me a			
	2-10	sense of home and makes me have			
		a strong sense of belonging.			
	2 11	I think Taiwan and its people have			
	2-11	great significance to me.			
		I have a strong emotional			
	2-12	attachment to Taiwan. If possible,			
		I will visit Taiwan frequently.			
Self-efficacy		I feel quite good about myself			
	2-13	when I'm in Taiwan.			
		I feel that my daily needs can be			
	2-14	easily met when I'm in Taiwan.			
		I feel safe, stable and relaxed			
	2-15	when I am in Taiwan.			

	Promise	0.16	I think the future development of		
		2-16	Taiwan is closely related to me.		
		0.17	I think the future development of		
		2-17	Taiwan will be even better.		
			If possible, I am more than willing		
		2-18	to make contributions to the future		
			development of Taiwan.		
Leisure			Engaging in leisure activities in	The higher	Refer to
Benefits		2 1	Taiwan can prevent the occurrence	the score, the	Bammel et
		3-1	of diseases and make the body	higher the	al. [10]
			healthier.	degree of	Cordes et al.
			Engaging in leisure activities in	leisure benefit	[11] Bright
	Physiological	3-2	Taiwan can exercise the muscles	attributes, and	[12] and
	Benefits	5-2	and build up the physique, making	the more they	research
			one stronger.	believe that	need to
			Engaging in leisure activities in	they can get	adjust the
		3-3	Taiwan can make me more	better leisure	compilation
		5-5	refreshed, and give me more drive	benefits in	
			and motivation.	Taiwan.	
	Psychological		Engaging in leisure activities in		
	Benefits	3-4	Taiwan enables me to effectively		
		5 -	adjust my stress and makes me		
			feel much more relaxed.		
			Engaging in leisure activities in		
			Taiwan can help me adjust		
		3-5	negative emotions effectively and		
			enhance positive emotions as well		
			as emotional stability.		
			Engaging in leisure activities in		
			Taiwan can make me forget my		
		3-6	worries and depression for a		
			while, making my mood cheerful		
			and enabling me to feel the joy of		
			life.		
			Engaging in leisure activities in		
		3-7	Taiwan is helpful for my personal		
		-	growth and experience, and it		
			enables me to have a more		

		positive self-evaluation.
Social Benefits		Engaging in leisure activities in
	3-8	Taiwan can enable me to make
	5-0	more friends and expand my
		social circle.
		Engaging in leisure activities in
		Taiwan is helpful for my
	3-9	communication with the people of
		Taiwan and can broaden my
		horizons
		Engaging in leisure activities in
		Taiwan can enable me to receive
	3-10	more care from my Taiwanese
		friends and the outside world.
Educational		Engaging in leisure activities in
Benefits		Taiwan can inspire me to have a
	3-11	deeper understanding and insights
		in dealing with people and
		handling affairs.
		Engaging in leisure activities in
	3-12	Taiwan can enable me to learn a
		lot of new knowledge and skills.
		Engaging in leisure activities in
		Taiwan can make me realize the
	3-13	importance of protecting the
		global environment and
		maintaining ecological balance.
Cultural		Engaging in leisure activities in
Benefits		Taiwan can enable me to
	3-14	recognize the importance and
		necessity of protecting historical
		and cultural heritages.
		Engaging in leisure activities in
		Taiwan can enable me to learn
	3-15	how to immerse myself in the
		atmosphere endowed by the
		natural and cultural landscapes.
	3-16	Engaging in leisure activities in

		Taiwan can help me deepen my
		understanding of the core values
		of things and the meaning of life.
Cognitive		Engaging in leisure activities in
Benefits		Taiwan can enable me to
	3-17	recognize the social connotations
		of Taiwan and its diverse
		characteristics.
		Engaging in leisure activities in
	2 10	Taiwan can help me pay more
	3-18	attention to, identify with, and
		care for Taiwan.

3.2 Survey Implementation

The study targeted non-Taiwanese and non-Chinese international tourists, employing accidental sampling at departure halls of three major Taiwanese airports (Taipei Songshan Airport, Taoyuan International Airport, and Kaohsiung International Airport) during May 2024. Researchers administered paper questionnaires on-site and collected them immediately upon completion. Of 422 distributed questionnaires, 396 valid responses were obtained, yielding a 93.84% valid response rate.

3.3 Scale Validation Analysis

All questionnaire items demonstrated satisfactory discriminatory power, with critical ratio (CR) values

exceeding 3.0, significance levels p < 0.05, and correlation coefficients $r \ge 0.4$, thus retaining all items [22]. In addition, the Cronbach's alpha (α) values of the overall scale and the three scales of place identity and leisure benefits in this article are 0.914, 0.891, and 0.898, respectively, indicating high internal consistency and good reliability of the formal questionnaire scale [22-23].

IV. RESEARCH ANALYSIS RESULTS

4.1 Analysis of Scale Attribute Degree

The results of the subject scale measurement are presented in Table 2

	Component Scale		Questions		Compo	onent Scale	S	Scale
Scale		Question	Average	Standard	Average	Standard	Average	Standard
		Number		Deviation		Deviation		Deviation
Place	History and	2-1	3.41	0.986	3.77	0.806	3.62	0.710
Identity	Culture	2-2	4.08	0.694				
		2-3	3.82	0.772				
	Environment	2-4	3.74	0.901	3.99	0.765		
		2-5	4.11	0.834				
		2-6	4.19	0.690				
		2-7	3.92	0.741				
	Distinctiveness	2-8	3.42	0.884	3.53	0.827		

Table 2 Scale measurement results

		2-9	3.63	0.907				
	Attachment	2-10	3.27	0.986	3.46	0.741		
		2-11	3.41	0.877				
		2-12	3.70	0.911				
	Self-efficacy	2-13	3.55	0.898	3.73	0.743		
		2-14	3.86	0.815				
		2-15	3.77	0.920				
	Promise	2-16	3.19	0.844	3.22	0.917		
		2-17	3.32	0.762				
		2-18	3.44	0.799				
Leisure		3-1	3.03	0.972	3.32	0.841	3.81	0.654
Benefits	Physiological Benefits	3-2	3.39	0.877				
	Denents	3-3	3.54	0.869				
	Psychological	3-4	3.69	0.756	3.78	0.716		
	Benefits	3-5	3.65	0.844				
		3-6	3.85	0.793				
		3-7	3.93	0.816				
	Social Benefits	3-8	4.05	0.790	4.08	0.698		
		3-9	4.21	0.671				
		3-10	3.97	0.812				
	Educational	3-11	3.61	0.922	3.80	7.818		
	Benefits	3-12	3.80	0.789				
		3-13	3.98	0.703				
	Cultural Benefits	3-14	4.13	0.678	3.93	0.730		
		3-15	3.89	0.684				
		3-16	3.77	0.815				
	Cognitive	3-17	4.01	0.713	3.97	0.668		
	Benefits	3-18	3.92	0.799				

The subjects exhibit the highest place identity towards Taiwan in terms of environmental identity and the lowest in terms of commitment. This indicates that foreign tourists tend to recognize the utility provided by Taiwan's natural, living, and social environment more than they do the future development of Taiwan.

In terms of history and culture, Taiwan is widely acknowledged for its preservation and inheritance of Chinese national culture and cultural landscapes. Environmentally, there is consensus that life in Taiwan is highly convenient, supported by comprehensive living amenities. Differentiating factors also highlight numerous advantages unique to Taiwan, which are often absent in individuals' home regions. Regarding attachment attributes, the majority exhibit a strong emotional connection to Taiwan and express a willingness to visit frequently.

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Concerning self-efficacy attributes, it is widely perceived that their daily requirements can be readily satisfied while in Taiwan. With respect to commitment attributes, most are eager to contribute to Taiwan's future development.

The leisure activities in Taiwan yield the highest benefits in the social domain and the lowest in the physical domain. This indicates that foreign tourists generally perceive these activities as opportunities to receive greater social care, expand their social networks, and foster friendships with the local people of Taiwan, while they find them less effective in maintaining physical health or enhancing physical fitness by leisure activities. Regarding physical benefits, participants often report feeling more refreshed, motivated, and energetic. In terms of psychological benefits, most believe these activities contribute to personal growth, positive self-evaluation, and a more enriched experience. Social benefits: Tourists finding these activities facilitate better communication with locals and broaden their perspectives. Educational benefits: they recognize the importance of environmental protection and ecological balance. Cultural benefits: Tourists appreciate the significance of preserving historical and cultural heritage. Cognitive benefits: they gain a deeper understanding of Taiwan's social connotations and diverse characteristics.

4.2 Analysis of the Correlation of Scale Attributes

This study employs Pearson product-moment correlation analysis (PPCA) to examine the relationships between various attribute factors of foreign tourists' place identity toward Taiwan and their perceived leisure benefits during their stay. Additionally, canonical correlation analysis (CCA) is applied to further validate these relationships.

4.2.1 Pearson Product-moment Correlation Analysis of Scale Attributes

The results of the PPCA indicate a positive relationship between place identity and each group of attribute factors associated with leisure benefits, as detailed in Table 3. Specifically, 28 groups of attribute factors exhibit significant correlations. positive underscoring a significant positive relationship between foreign tourists' place identity toward Taiwan and the leisure benefits they derive from the island. Consequently, as the place identity of foreign tourists toward Taiwan increases, so does their recognition of the leisure benefits obtained from participating in activities in Taiwan. Among the attribute factors demonstrating significant positive correlations, the correlation between environmental identity and social benefits is the strongest, whereas the correlation between commitment identity and physical benefits is the weakest.

The analysis presented in Table 3 indicates that leisure benefit attributes exhibiting a relatively high correlation with place identity among foreign tourists include social benefits, cognitive benefits, and cultural benefits. Conversely, the attribute factors that do not demonstrate a significant positive correlation reveal lower associations between place identity aspects such as commitment, history, and attachment, and leisure benefits. This suggests that foreign tourists' considerations regarding Taiwan's future development, historical culture, and emotional belonging are less likely to contribute to enhanced overall leisure benefits during their participation in leisure activities within Taiwan.

4.4.2 Canonical Correlation Analysis of Scale Attributes

In this study, each attribute of place identity serves as a control variable (X variable), while each attribute of leisure benefits functions as a criterion variable (Y variable). Canonical Correlation Analysis (CCA) is utilized to examine the relationship between the attributes of foreign tourists' place identity regarding Taiwan and their perceived leisure benefits derived from visiting Taiwan. The findings are presented in Table 4 and Figure 1. According to the test results, this paper elucidates the correlation of two pairs of canonical factors, both of which

Sc	cale Attributes	Leisure Benefits						
		Physiological	Psychological	Social	Educational	Cultural	Cognitive	
		Benefits	Benefits	Benefits	Benefits	Benefits	Benefits	
Place	History and Culture	0.097	0.141	0.442*	0.468*	0.602**	0.524**	
Identity	Environment	0.200	0.482**	0.713 * *	0.502*	0.451*	0.695***	
				*				
	Distinctiveness	0.156	0.406*	0.417*	0.478**	0.557**	0.491**	
	Attachment	0.132	0.494 *	0.535 * *	0.187	0.400^{*}	0.475**	
	Self-efficacy	0.641 ***	0.502*	0.587**	0.400*	0.104	0.503*	
	Promise	0.090	0.498**	0.596**	0.522 * *	0.615**	0.704***	
				*				

Table 3 Pearson product moment correlation analysis results of scale

exhibit	statistically	significant	canonical	correlation	coefficients.

p < .05 * p < .01 * p < .01

(1)The canonical correlation coefficient for the first pair of canonical factors is 0.753, with an overlap of 40.8%. For the second canonical factor, the correlation coefficient is 0.216, and the overlap is 5.5%. It is evident that the six control variables of place identity predominantly influence the six criterion variables of leisure benefits through the first pair of canonical factors.

(2) The first canonical factor $\chi 1$ of the X variable accounts for 61.8% of the total variance of the first canonical factor $\eta 1$ of the Y variable. Conversely, the first canonical factor $\eta 1$ of the Y variable explains 72.6% of the variance within the Y variable. The overlap between the X variable and the Y variable is 40.8%, indicating that the X variable can explain 40.8% of the total variance of the Y variable through the first pair of canonical factors ($\chi 1$ and $\eta 1$). Similarly, the X variable accounts for 5.5% of the total variance of the Y variable via the second pair of canonical factors ($\chi 2$ and $\eta 2$).

(3)The total overlap between the X variable and the Y variable from the first pair to the second pair of canonical factors is 46.3%. This indicates that the six control variables related to place identity account for 46.3% of the total variance of the six criterion variables associated with

leisure benefits, as mediated by the first and second pairs of canonical factors. Furthermore, these two pairs of canonical factors directly explain 66.5% of the total variance in leisure benefits experienced by independent mainland tourists participating in leisure activities in Taiwan.

(4) Among the place identity attributes within the control variables, those exhibiting a relatively high correlation with the first canonical factor $(\chi 1)$ include, in descending order: 'environment', 'distinctiveness', 'historical culture', 'self-efficacy', 'commitment', and 'attachment'. All of these attributes have canonical structure coefficients exceeding 0.7. Similarly, among the leisure benefit attributes in the criterion variables, those demonstrating a significant correlation with the first canonical factor (n1) are, in sequence: 'social benefits', 'cultural benefits', 'cognitive benefits', 'physical benefits', 'educational benefits', and 'psychological benefits', each with canonical structure coefficients surpassing 0.7. Given that the canonical structure coefficients share consistent positive and negative signs, it is clear that a positive relationship exists between these factors. Consequently, an elevated sense of place identity among foreign tourists toward Taiwan correlates with a heightened recognition of the leisure benefits derived from engaging in recreational activities within the region.

(5)Among the place identity attributes within the control variables, those exhibiting a relatively high correlation with the second canonical factor χ^2 primarily include 'environment' and 'distinctiveness'. Similarly, among the leisure benefit attributes within the criterion variables, those demonstrating a relatively high correlation with the second canonical factor η^2 predominantly comprise 'social benefits' and 'cultural benefits'. Given that

the canonical structure coefficients share consistent positive and negative signs, a positive relationship exists between these factors. Consequently, an elevated environmental identity of foreign tourists toward Taiwan correlates with heightened awareness of the social benefits derived from engaging in leisure activities in Taiwan. Likewise, a stronger sense of distinctiveness identity of foreign tourists toward Taiwan is associated with increased recognition of the cultural benefits obtained through participation in leisure activities in Taiwan.

	~1		5 5		
Control Variable (X variable)	Typical	Factors	Criterian Variable (Varriable)	Typical Factors	
	χ ¹	χ^2	• Criterion Variable (Y variable)	η^{1}	η 2
History and Culture	-0.892	-0.397	Physiological Benefits	-0.787	-0.265
Environment	-0.916	0.594	Psychological Benefits	-0.766	-0.325
Distinctiveness	-0.909	0.473	Social Benefits	-0.898	0.467
Attachment	-0.773	-0.292	Educational Benefits	-0.785	-0.268
Self-efficacy	-0.833	-0.360	Cultural Benefits	-0.863	0.402
Promise	-0.794	-0.346	Cognitive Benefits	-0.817	-0.303
Extract the percentage of variance	78.5 %	16.2 %	Extract the percentage of variance	72.6 %	13.5 %
Percentage overlap	44.8 %	6.8 %	Percentage overlap	40.8%	5.5 %
			Square of typical correlation coefficient	0.618	0.047
			Canonical correlation	0.753**	0.216*

Table 4 Typical	correlation	analysis	results	of the scale

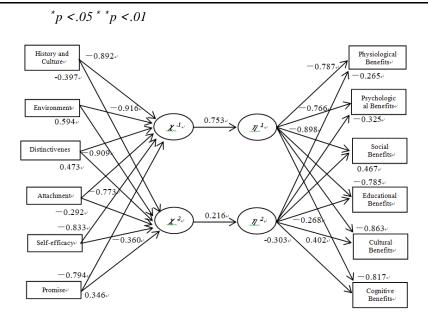


Fig.1 Typical correlation analysis path diagram of the scale

V. CONCLUSIONS

The principal findings of this study reveal three key conclusions:

1. Among foreign tourists' sense of place identity in Taiwan, environmental identity ranks the highest, whereas commitment identity ranks the lowest. In relation to their perception of leisure benefits derived from participating in leisure activities in Taiwan, awareness of social benefits is the highest, while awareness of physical benefits is the lowest.

2. A substantial positive correlation exists between foreign tourists' sense of local identity toward Taiwan and their awareness of the leisure benefits derived from engaging in leisure activities within Taiwan. Specifically, an increased sense of local identity toward Taiwan corresponds to a heightened awareness of the leisure advantages gained through participation in such activities.

3. A canonical correlation relationship exists between foreign tourists' local identity towards Taiwan and their awareness of the leisure benefits obtained from participating in leisure activities in Taiwan.

The aforementioned research findings can serve as valuable reference materials for studying the tourism and leisure behaviors of visitors to Taiwan.

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