



# Developing a Food Experience Scale for Wellness Tourism in Island Destinations: A Case Study of Hainan, China

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**Kyung Hee University** 

Wanyan Cheng(Ph.D student),
Changsok Yoo (Professor),

Johye Hwang (Professor)

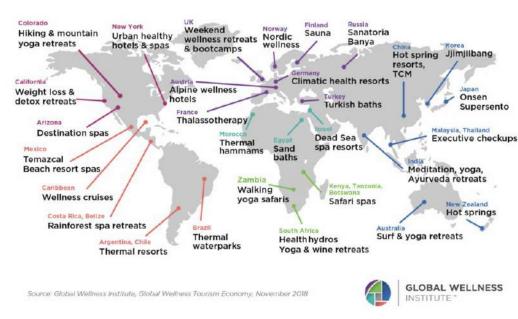




### The Global Surge of Wellness Tourism



#### **Every Destination Has Something Unique to Offer**



Source: Source: Source: Global Wellness Institute

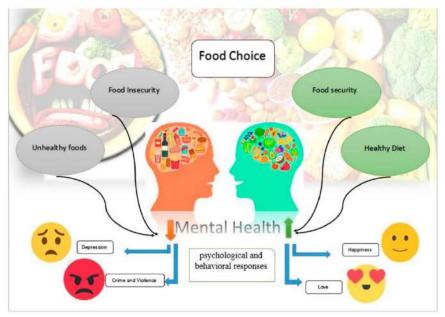
- ✓ Global wellness market size: \$6.3 trillion in 2023, representing 6.03% of global GDP(Global Wellness Economy Monitor 2024).
- ✓ Wellness tourism contributed \$830.2 billion, with a projected annual growth rate of 10.2% (Global Wellness Institute, 2024)
- Studies focus on visible wellness experiences—such as spa treatments, mindfulness retreats, and natural environments (Forlani et al., 2022; Soltani et al., 2020)
- **✔** Food remains less underexplored yet essential component of wellness

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# How Food Becomes a Wellness Experience





Source: Heidari et al., 2023

Source: Timesofindia, 2025

- ✓ Food provides emotional pleasure, self-care, and symbolic meaning (Soltani et al., 2020).
- **✓** Shared dining fosters healing and social intimacy (Forlani et al., 2022).
- ✓ Tourists value healthy features like lightness and herbal balance (Yang & Xu, 2024).
- ✓ Food is often studied through gastronomy or nutrition labels, not as a structured wellness experience (Apak & Gürbüz, 2023).



Source: Baidu

# Why Hainan?



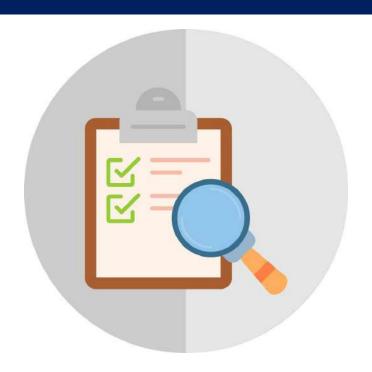


- ✓ National wellness island policy encourages integration of food, medicine, and tourism (Tang, 2012).
- ✓ Hainan cuisine reflects health-oriented principles like mildness, herbal elements, and food therapy (Yang et al., 2021).
- **✓ Tourists express preferences driven by both cultural authenticity and wellness motivations** (Liu & Choe, 2023).









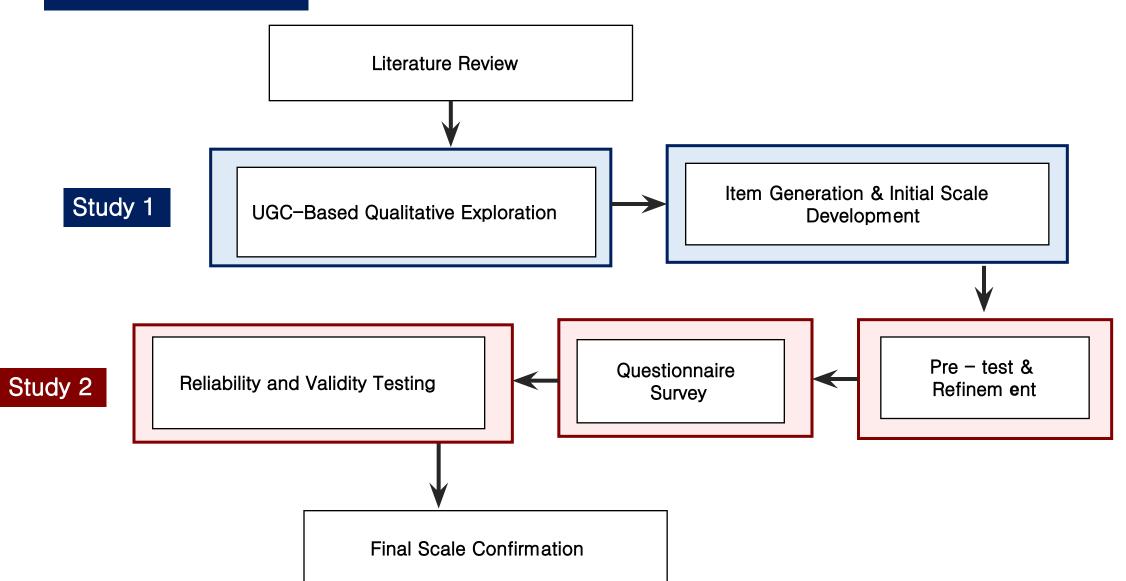
- Prior models emphasize taste, safety, and authenticity but overlook wellness-oriented dimensions (Zhong & Cheng, 2017).
- The therapeutic and symbolic roles of food in healing remain underexplored (Forlani et al., 2022).
- A tailored measurement scale is needed to capture wellness-specific food experiences (Stone & Zou, 2023).

#### l . Introduction – Background











#### Research Questions



- 1. What key dimensions define food experiences in wellness tourism?
- 2.Can user-generated content be used to extract representative and theoretically valuable items for constructing a food experience scale?
- 3. Does the developed food experience scale demonstrate sound reliability and construct validity?
- 4. What measurable and unique attributes characterize food experiences in Hainan, as a tropical island-based wellness tourism destination?

# Research purpose

- ✓ To identify the core dimensions of food experience in wellness tourism.
- ✓ To generate measurement items based on user-generated content (UGC) analysis.
- ✓ To develop and validate a food experience scale for H ainan wellness tourism settings.

#### **II** . Literature Review





#### **Island-Based Wellness Food Experiences**

- Island destinations offer natural conditions ideal for healing and relaxation, such as humid air, mild climate, and quiet environments (Parra-López & Martínez-González, 2018)
- Hainan is China's most prominent tropical island destination, especially attractive for seasonal wellness migration by elderly tourists (Liu, 2022)
- Tourists from northern China relocate to Hainan during winter for wellness purposes, driving demand in food, healthcare, and accommodation sectors (Liu, 2022)
- Island wellness destinations attract long-stay visitors with strong preferences for nutritious, low-processed, and local-origin foods (Wang et al., 2024)
- Global wellness travelers favor tropical islands for climate escape, nature immersion, and cultural contrast (Ruggieri & Platania, 2024)

This research focuses on how wellness-oriented food experiences are perceived by tourists in Hainan, an island destination rich in natural and cultural resources.





#### **Prior Studies about Food in Wellness Tourism**

- **✓** Food enhances wellness tourism through both sensory pleasure and symbolic meaning (Forlani et al., 2022)
- **✓** Food-related ambience and quality influence subjective well-being in health-focused trips (Yang & Xu, 2024)
- **✓** Local cuisine supports cultural identity and contributes to destination sustainability (Taheri & Gannon, 2021)
- ✓ Tourists' perceptions of food value—functional, emotional, social, cultural—shape satisfaction and loyalty (Zhu et al., 2024)
- **✓** Wellness food products integrate flavor, cleanliness, environment, and service into an overall experience (Muskat et al., 2023)

Despite these findings, no validated scale has yet been developed to systematically measure food experiences in wellness tourism. This study aims to fill that gap by proposing a context-specific measurement tool tailored to island wellness tourism

#### **II** . Literature Review





#### **Theories Behind Wellness Food Experiences**

- Experience Economy Theory highlights food as immersive and personalized experience (Pine & Gilmore, 1998)
- **✓** Memorable Tourism Experiences (MTE) model explains how food leaves long-term emotional memories (Kim et al., 2012)
- **▶** PERMA framework links food with well-being through positive emotion, engagement, meaning, and relationships (Seligman, 2011)
- These theories must be adapted to Chinese collectivist contexts where harmony, family meals, and health beliefs shape food meaning (Yang et al., 2021)
- ✓ Local beliefs like 清淡 (light), 食补 (food-based healing), and 草本平衡 (herbal balance) enhance cultural depth of wellness dining (Yang et al., 2021)

These theoretical lenses inform the development of a culturally grounded food experience scale tailored for Chinese wellness tourists in Hainan.





#### Xiaohongshu and UGC

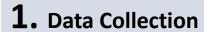
- **✓** UGC reflects rich emotional, contextual, and narrative data from real travelers (Zhou, 2020)
- ✓ Xiaohongshu combines visual storytelling and affective writing—ideal for food and wellness tourism (Wang et al., 2022)
- ✓ Content on Xiaohongshu shapes destination image, health perception, and cultural understanding (Li & Lee, 2024)

These UGC data form the empirical basis for extracting themes and constructing initial measurement items for the wellness food experience scale.



# Study1: Item Generation & Initial Scale Development







- Collect data from the web using Python
   (Contains "Hainan" and "Wellness tourism" and "Food")
- Store data in the original database(200 blogs)

# 2. Text Processing



- Remove meaningless words (using various dictionaries)
- Remove specific words (advertisements, special characters)
- Split and prepare text

# 3. Text Analysis

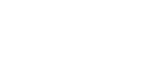


- Co-occurrence network analysis
- Inductive Coding
- Store analysis results in the database

# 4. Scale development



- Analyze the results and data
- Develop six dimensions scale





# Study 1: Pre Test

- A preliminary survey was conducted on 100 adult consumers.
- Results showed that Cronbach's  $\alpha$  values for the six dimensions were all above 0.86, indicating good to excellent reliability. Specifically, emotional value ( $\alpha$  = 0.919), memory value ( $\alpha$  = 0.906), cultural value ( $\alpha$  = 0.885), health attributes ( $\alpha$  = 0.918), sensory experience ( $\alpha$  = 0.863), and dining atmosphere ( $\alpha$  = 0.881) all demonstrated satisfactory internal consistency.

# Study 2: Sample & Measure

Participants	300 participants (over 19 age adult)
Survey period	July 12 – 14, 2025
Survey method	<ol> <li>Online survey managed by Wenjuanxing specializing in online surveys.</li> <li>24 Questionnaires</li> </ol>
Effective Sampling	Final 284 data

#### IV. Result – Sample Coding





No.	Item Description (Candidate Scale Item)	Example UGC Excerpt (Source Code)	Coding Notes / Keywords	Dimension
1	I am willing to try traditional Hainanese foods such as coconut chicken or fermented vinegar broth.	"第一次喝糟粕醋, 味道很特别, 有点冲但真的上头, 很有地方感觉。" (XHS18-5)	curiosity, authenticity, local identity	Local Cultural Value
2	Hainan's food helps me maintain a healthy diet during travel.	"这里的菜特别清淡, 而且药膳的搭配很科学, 吃完感 觉特别轻松。" (XHS05-7)	light diet, balance, nourishment	Health Attributes
3	I find the flavor and aroma of Hainanese dishes very enjoyable.	"一进餐厅就闻到椰奶香味, 真的很诱人。" (XHS09-2)	aroma, taste, sensory pleasure	Sensory Experience
4	I enjoy eating in tranquil, nature-integrated environments in Hainan.	"在热带花园里吃早餐, 阳光 洒在餐桌上, 超级放松。" (XHS12-8)	natural setting, calm, healing	Dining Atmosphere
5	Sharing meals in Hainan with loved ones makes me feel more emotionally connected.	"和爸妈一起吃椰子鸡真的很 温馨, 有家的感觉。" (XHS03-6)	family bonding, warmth	Emotional Value
6	I love discovering hidden local eateries in Hainan.	"在小巷里找到一家老字号的 汤粉店, 太惊艳了!" (XHS14-1)	discovery, surprise, uniqueness	Memory Value

Based on systematic content analysis of Xiaohongshu user-generated reviews, we identified and constructed six key dimensions that characterize tourists' food experiences in wellness tourism.

#### IV. Result – Scale Development

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Dimension	Item	Reference
	I am willing to try traditional local food in Hainan (e.g., coconut chicken, zhaopo vinegar)	
ensory Experience	Hainanese cuisine helps me understand local culture	Yan et al. (2023); Tang (2012)
Local Caltarat Value	Local ingredients enhance the cultural atmosphere of the meal	GS I
	Dining in Hainan sparked my interest in local traditions	
	I believe Hainanese food benefits my physical health	
	I value consuming light meals during travel	Taheri & Gannon (2021)
Health Attributes	I prefer menus with health labels or nutritional recommendations	Yang & Xu (2024)
	Hainanese cuisine makes me more aware of the diet-health connection	
	The taste of Hainanese food left a deep impression on me	
Sensory Experience	I enjoy the color, aroma, and flavor combinations of the food	Forlani et al. (2022); Muskat et al. (2023)
Sensory Experience	The presentation and smell of the food enhanced my dining pleasure	Kim et al. (2024)
	The cuisine offered a multi-sensory enjoyment	
	I enjoy dining in natural settings	
Dining Atmosphere	The dining environment made me feel relaxed	7hu et al. (2024): Wang et al. (2024)
Diffiling Attriosphiere	I prefer immersive dining atmospheres	Zhu et al. (2024); Wang et al. (2024)
J enjoy The pre The cui I enjoy The cui I enjoy The dir I prefer The ear	The eating environment in Hainan felt pleasant	
	Sharing Hainanese food with travel companions makes the experience better	
Emotional Value	I value emotional connection during meals	Zhou (2020); Wang et al. (2022)
Linotional value	Hainanese cuisine enhanced my bonds with travel companions	
	The dining process made me feel warmth	
	I enjoy discovering lesser-known local foods	
MamanyValua	Some dining experiences were memorable	Zhu et al. (2024); Kim et al. (2024)
Memory Value	Food experiences in Hainan created unique memories	Ziiu et al. (2024), Kiiii et al. (2024)
	I would consider revisiting Hainan because of the food memories	

We developed a 24-item scale based on UGC analysis and literature review to measure food experience in wellness tourism.

#### IV. Result – Sample Profile



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#### Demographic Characteristics of Study Participants

Variable		Frequency	Ratio	Variable		Frequency	Ratio	
Canadan	Male	136	47.9		Students	16	5.6	
Gender	Female	158	52.1		Office employees	110	38.7	
	19-29	58	20.4	- Occupation	0	Self-employed	20	7.0
	30-39	60	21.1	Occupation	Professionals	34	12.0	
Age	40-49	52	18.3	<del>-</del> -		Services	14	4.9
	50-59	58	20.4		Others/Unemployed	90	31.7	
	Over 60	56	19.7		2,000,000 won or less	60	21.1	
	Middle School	2	0.7		2,010,000 – 3,000,000 won	68	23.9	
	High School	57	20.4	Manthhulmanna	3,010,000 – 4,000,000 won	60	21.1	
<b>Education Level</b>	College Degree	32	11.3	Monthly Income	4,010,000 – 5,000,000 won	42	14.8	
	Bachelor's Degree	156	54.9		5,010,000 – 6,000,000 won	26	9.2	
	Above Master's Degree	38	12.7	-	Above 6,010,000 won	28	9.9	
	Total	284	100.0	Т	otal	284	100.0	

Participants were 57.9% male, with 20.4% in the 19-29 age group and 21.1% in the 30-39 age group. Additionally, 54.9% held bachelor's degrees, and 23.9% reported a monthly income in the range of 2 million to 3 million won. And 38.7% held

#### IV. Result – Factor Analysis & Validity

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Factors		Standardized estimates	р	AVE	CCR	Cronbach's α
	CV1	0.808	***			0.834
	CV2	0.828	***		0.835	
Cultural value	CV3	0.843	***	0.558		
	CV4	0.789	***			
	HA1	0.804	***			0.822
I I a dala associante a	HA2	0.789	***	0.527	0.022	
Health attributes	HA3	0.814	***	0.537	0.823	
	HA4	0.823	***			
	AC1	0.738	***			0.808
Samaama aanaaniaaa	AC2	0.798	***	0.540	0.044	
Sensory experience	AC3	0.832	***	0.519	0.811	
	AC4	0.819	***			
	DA1	0.860	***			0.820
Bisis standard	DA2	0.810	***	0.540	0.828	
Dining atmosphere	DA3	0.812	***	0.548		
Ī	DA4	0.759	***			
	EV1	0.821	***			0.852
T	EV2	0.838	***	0.591	0.852	
Emotional value	EV3	0.843	***			
İ	EV4	0.827	***			
	MV1	0.833	***	0.548 0.859		0.827
Memory value	MV2	0.800	***			
	MV3	0.828	***		0.859	
	MV4	0.789	***			

Kaiser-Meyer-Olkin test (KMO=0.974) and Bartlett's test of sphericity (df =190 , p < .001)





## General Conclusion

- This study developed a dedicated measurement scale for food experiences in wellness tourism, consisting of six dimensions (local cultural value, health attributes, sensory experience, dining atmosphere, emotional value, and memory value) and 24 items, addressing a significant gap in structured assessment tools.
- By applying inductive content analysis to user-generated content (UGC) from Xiaohongshu, the study identified experience-based constructs that closely reflect real tourist perceptions.
- Grounded in the Experience Economy, Memorable Tourism Experiences (MTE), and PERMA well-being frameworks, the study provides a theoretical model linking food, experience, and wellness.
- Preliminary reliability and validity tests confirm the scale's robustness, indicating strong potential for future research and practical use.





# Theoretical Implication

- 1. This research expands the scope of food-related tourism studies by shifting focus from functional aspects to emotional, symbolic, and cultural values in the wellness context.
- 2. It demonstrates how UGC can serve as a valid and rich source for scale development in experience-based tourism research, offering a methodological contribution.

### **Practical Implication**

- 1. The proposed scale can support destination managers and tourism operators in service evaluation, product design, and market segmentation—especially in island-based wellness destinations like Hainan.
- 2. For policy-makers, the scale provides a visitor-centered evaluation tool that can inform wellness tourism policies promoting integrated "wellness-food-tourism" strategies.



1. The UGC data were primarily drawn from Xiaohongshu, which skews toward younger Chinese users; future studies should include broader demographic groups such as elderly and international tourists.

2. While the scale showed promising reliability and validity, cross-regional and cross-cultural testing is needed to enhance external validity and ensure generalizability.



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# Thank You