

Exploring the moderating effects of incidental emotions on rewards for encouraging hotel guests' towel reuse behavior

Article

Accepted Version

Wong, P. and Wan, C. (2024) Exploring the moderating effects of incidental emotions on rewards for encouraging hotel guests' towel reuse behavior. *Environment and Behavior*. ISSN 1552-390X doi: <https://doi.org/10.1177/00139165241298063>
Available at <https://centaur.reading.ac.uk/119621/>

It is advisable to refer to the publisher's version if you intend to cite from the work. See [Guidance on citing](#).

To link to this article DOI: <http://dx.doi.org/10.1177/00139165241298063>

Publisher: SAGE

All outputs in CentAUR are protected by Intellectual Property Rights law, including copyright law. Copyright and IPR is retained by the creators or other copyright holders. Terms and conditions for use of this material are defined in the [End User Agreement](#).

www.reading.ac.uk/centaur

CentAUR

Central Archive at the University of Reading

Reading's research outputs online

1
2
3 **Exploring the Moderating Effects of Incidental Emotions on**
4
5
6 **Rewards for Encouraging Hotel Guests' Towel Reuse Behaviour**
7
8
9

10 **Phoebe Wong**

11 School of Professional Education and Executive Development,
12 The Hong Kong Polytechnic University
13 Hong Kong, China
14 [0000-0002-6404-928X](tel:0000-0002-6404-928X)
15
16

17
18 **Calvin Wan**

19 School of Business
20 University of Reading
21 United Kingdom
22
23
24
25

26 **Corresponding Author:**

27 Phoebe Wong, PhD

28 phoebe.wong@cpce-polyu.edu.hk

29 [0000-0002-6404-928X](tel:0000-0002-6404-928X)
30
31

32 **Keywords:** Incidental emotions, Hope and fear, Reward certainty and uncertainty, Pro-
33 environmental behaviour
34
35

36 **Funding Statement/ Acknowledgments**

37 This research was fully supported by a grant from the Research Grants Council of the Hong
38 Kong Special Administrative Region, China (Project No.: UGC/FDS24/H10/20).
39
40

41 **Data Availability Statement**

42 Authors elect not to share data
43

44 **Conflicts of Interest**

45 None declared.
46

47 **Ethics Approval Statement**

48 All respondents in this study gave their informed consent prior to participating in the study.
49
50
51
52
53
54
55
56
57
58
59
60

Exploring the Moderating Effects of Incidental Emotions on Rewards for Encouraging Hotel Guests' Towel Reuse Behaviour

Abstract

Promoting sustainable practices to hotel guests, such as towel reuse, can help reduce the hotel industry's environmental impact and raise awareness about the importance of environmental conservation. However, little is known about how hotel guests' incidental emotions that arise incidentally (not intentionally induced) influence the effectiveness of rewards in promoting sustainable behaviour. This study adopts the Appraisal Tendency Framework (ATF) to examine the interaction effect of incidental emotions (hope vs. fear) and reward certainty on tourists' pro-environmental behaviours. The study employs a 2x2 between-subject experimental design (Incidental emotions: hope vs fear) x (Reward types: certainty vs uncertainty). The findings show that there are significant interaction effects of incidental emotions and (un)certain monetary rewards on guests' towel reuse behaviour. The research has both theoretical implications for research on reward types and incidental emotions and practical implications for designing and implementing rewards to encourage pro-environmental behaviours.

Keywords: Incidental emotions, Hope and fear, Reward certainty and uncertainty, Pro-environmental behaviour

1. Introduction

Tourists are becoming more aware of the importance of pro-environmental behaviour and taking steps to reduce their environmental impact and promote sustainable tourism while travelling (Casado-Díaz et al., 2020; Su and Li, 2022). Some tourists are increasingly aware of the importance of recycling and waste reduction, such as bringing reusable water bottles and shopping bags to reduce waste. Other tourists stay in eco-friendly accommodations, such as hotels implementing green initiatives to reduce environmental impact (Ban and Ramsaran, 2017). Hotel companies have also implemented various green initiatives and energy-saving interventions (e.g. energy-efficient lighting or water-saving measures) to reduce their environmental impact (Wang et al., 2023). For example, the Marriot International hotel chain introduced the “Make a Green Choice” program to encourage towel reuse (Marriot International Inc., 2019). Hence, innovative energy-saving interventions can influence hotel guests’ pro-environmental behaviours by providing them with tangible ways to contribute to environmental conservation.

While the hospitality and tourism sector contributes significantly to nations’ economic development, there are growing concerns about the negative environmental impacts (e.g. waste generation and carbon emissions due to increased tourism activities or increased water consumption due to guest needs and cleaning) caused by the operations and activities in the sector (McKercher, 1993; Mikayilov et al., 2019). Researchers in hospitality and tourism have attempted to investigate how tourists’ can be motivated to be more environmentally responsible in their sustainable behaviours (Ahmad et al., 2020; Miller et al., 2015; Tonge et al., 2015). Prior studies applied various behavioural models to understanding the impact of social and psychological factors that influence tourists’ pro-environmental behaviours (Table 1). Loureiro et al. (2022) suggested that understanding tourists’ emotions in pro-environmental behaviours is one of the emerging areas to be investigated in future studies. Emotions are one of the core

1
2
3 building blocks in the hospitality and tourism fields to construct experiences and influence
4
5 people's choice behaviours (Bastiaansen et al., 2019; Tuerlan et al., 2021). On a valence-based
6
7 approach, emotions are specific psychological states (i.e. positive or negative) triggered by
8
9 individuals' subjective experiences and cognitive appraisals of an event or situation (Wyer et
10
11 al., 2019). In other words, individuals' thoughts and interpretations of the event or situation can
12
13 lead to different emotional responses that can be either positive or negative. When predicting
14
15 future outcomes in goal attainment, hope is regarded as a positive anticipatory emotion, whereas
16
17 fear is represented as a negative anticipatory emotion (Harvey & Victoravich, 2009;
18
19 Lagomarsino & Lemarié, 2024).
20
21
22
23

24
25 There are two concepts of the role of emotions in decision-making and judgement:
26
27 integral and incidental emotions. Integral emotions are directly associated with consumer
28
29 judgement being made in product choices (Poels & Dewitte, 2019), pro-environmental
30
31 behaviours (Sun & Trudel, 2017), vacations (Prayag et al., 2017) and hotel services (Ali et al.,
32
33 2016). For example, guests feel good when served by friendly and helpful hotel staff. Incidental
34
35 emotion is developed from a separate and unconnected event or situation (e.g., a magnificent
36
37 landscape or worn-out decoration). Still, such unrelated emotions can also influence
38
39 individuals' decisions (Achar et al., 2016). People often are unaware of being influenced by
40
41 incidental emotions. Such emotions can influence decisions in the short term and become the
42
43 basis for future decisions. Although studies on integral emotions in consumer behaviours are
44
45 prolific, studies on the effect of incidental emotions on judgements and choices have been
46
47 underexplored (Lerner and Keltner, 2000).
48
49
50
51

52
53 Rewards and incentives for individuals can encourage pro-environmental behaviours
54
55 (Bolderdijk et al., 2018; Steg & Vlek, 2009). Rewards have been widely studied to attract and
56
57 retain customers (NastasoIU & Vandenbosch, 2019). Previous studies have investigated the role
58
59 of rewards in motivating customer behaviours that often focus on customer loyalty (NastasoIU
60

1
2
3 & Vandenbosch, 2019), and referrals (Ryu & Feick, 2007) and reviews on products/ services
4
5 (Wang et al., 2018). Furthermore, rewards and incentives are often regarded as effective tools
6
7 to encourage desirable behaviours (e.g. behaviours in tax incentives for electric cars and
8
9 pricing-based energy tariffs) (Gärling & Schuitema, 2007; Mahmoodi et al., 2021; Steg & Vlek,
10
11 2009). However, these studies only focused on fixed or guaranteed rewards where individuals
12
13 are assured of receiving specific rewards or incentives upon completing a desired action.
14
15 Limited understanding has been gained of how reward certainty and uncertainty (i.e. guaranteed
16
17 or chance-based) influence pro-environmental behaviours, particularly in the hospitality and
18
19 tourism context. The nature of reward certainty and uncertainty can contribute to understanding
20
21 customer decision-making and behaviours.
22
23
24
25

26
27 Echoing Wang et al.'s (2023:1363) call to examine more “mechanisms driving different
28
29 kinds of hotel pro-environmental behaviours, such as... towel reuse”, this study aims to fill the
30
31 gap by investigating the interplay effects of incidental emotions (hope and fear) and reward
32
33 certainty and uncertainty on tourists' pro-environmental behaviours. Although there is a general
34
35 understanding of how emotions influence pro-environmental behaviours, there is still a need to
36
37 delve deeper into the specific effects of incidental emotions, like anticipatory emotions of hope
38
39 and fear, about the predictability of rewards in hospitality and tourism. More research is
40
41 required to understand the underlying mechanisms through which these emotions impact
42
43 decision-making and tourists' responses. There are different forms of pro-environmental
44
45 behaviours in hospitality behaviours. This study focused on towel reuse because it helps lower
46
47 carbon footprint and reduce the operational costs of accommodation providers (Cvelbar et al.,
48
49 2017). The results of this study are expected to provide insights to businesses and marketers for
50
51 designing effective strategies for encouraging pro-environmental behaviours.
52
53
54
55

56
57 The following section will summarise the theoretical background and the proposed
58
59 hypotheses. The methods section will describe the research design, materials and data analysis
60

1
2
3 method adopted in this study. The findings of this study will then be presented, followed by a
4
5 discussion of the theoretical and managerial implications of the study. Finally, the research
6
7 limitations and conclusions are provided.
8
9

10 **2. Theoretical background**

11 **2.1 Pro-environmental behaviour in the hospitality industry**

12
13 Pro-environmental behaviour refers to actions taken by individuals or organisations to reduce
14
15 their negative impact on the environment and promote sustainability (Wesselink et al., 2017).
16
17 This includes conserving energy and water, reducing waste, using environmentally friendly
18
19 products, engaging in sustainable transportation practices, and supporting environmental
20
21 initiatives and policies (Thomas & Sharp, 2013). Studies on pro-environmental behaviours in
22
23 the context of hospitality are related to the 3Rs: recycling, reusing (e.g. linen and towels),
24
25 reducing (e.g. unnecessary water usage or daily room cleaning) (Table 1). In the context of
26
27 reusing, Gössling et al.'s (2019) study confirmed that using the comprehensive message is
28
29 more effective in increasing hotel guests' intention to reuse towels and linens than using the
30
31 existing standard and simplified messages. Budovska et al.'s findings (2020) ratified that the
32
33 Theory of Planned Behaviour (TPB) variables affected hotel guests' intention to reuse towels.
34
35 Similarly, Nosrati et al. (2023) adopted the value-attitude-behaviour (VAB) model to
36
37 investigate the relationship between cultural and individual values on pro-environmental
38
39 behaviours. Using the same VAB model, Wang et al. (2023) examined how altruistic,
40
41 biospheric and egoistic values influence attitude and energy-saving behaviours in three
42
43 different types of hotel guests (i.e. leisure, business and extended-stay residents). In the context
44
45 of water conservation, Han and Hyun (2018) confirmed that cognitive and normative factors
46
47 significantly influence water conservation intention. Han et al. (2020) further added the
48
49 affective determinants of anticipated feelings of pride and guilt in understanding customers'
50
51 waste reduction and water-saving intentions. In addition, Chan et al. (2022) reported that the
52
53
54
55
56
57
58
59
60

monetary incentive approach was the most effective approach to influencing linen reuse intention. However, there is a gap in examining the effectiveness of reward certainty (e.g., guaranteed price discounts) or uncertainty (e.g. chance-based price discounts) to motivate hotel guests' sustainable behaviours. As Yang and Thøgersen (2022:217) commented, "The relative effectiveness of economic incentives and appeals to promote environmental responsibility still needs further investigation". Addressing this gap, this study adopts the Appraisal Tendency Framework (ATF) to examine the interaction effect of the incidental emotions of hope and fear and reward certainty and uncertainty on tourists' pro-environmental behaviours.

Table 1: Recent studies of Pro-Environmental Behaviours (PEB) in the Hospitality Context

| Author(s) & Year | Theory & Independent variables | Moderator(s)/ Mediator(s) | Dependent variable | Key findings |
|-------------------------|---|---|---|---|
| Han and Hyun, (2018) | Biospheric value, Environmental concern, Willingness to sacrifice for the environment, Personal norm, Descriptive social norm | --- | Water conservation intention | Intention to water conservation in hotels are significantly influenced by tourists' biospheric value, environmental concern, willingness to sacrifice for the environment, personal norm, and descriptive social norm. |
| Gössling et al., (2019) | Normative appeals: standard, simplified, and comprehensive messages | ---- | Actual Behaviour on Towel Reuse and Linen Reuse | The comprehensive message can increase both towel and linen reuse than the existing standard and simplified messages. |
| Han et al., (2020) | Cognitive determinants: Environmental value, concern and awareness | Mediators: Anticipated feelings of pride and guilt, moral norm Moderator: Involvement of green behaviour | Intentions to waste reduction and water saving | The cognitive, affective and normative factors influence significantly on customers' waste reduction and water saving intention. |
| Budovska et al., (2020) | Theory of Planned Behaviour (TPB): Attitude, Subjective norm, Perceived behavioural control, Past behaviour | Moderator: Message framing: Injunctive, Descriptive, Combined normative, Standard | Intention to Reuse Towels | Attitude, subjective norm, and perceived behavioural control positively influence hotel guests' intention to reuse towels. Past behaviour has direct and indirect effects on TPB variables. No statistical difference in 4 messages |

| | | | | |
|------------------------|---|--|-----------------------------|--|
| Chan et al., (2022) | Message Framing: Standardized approach, Normative approach, Non-monetary Incentive approach, Incentive approach | | Linen reuse intention | The findings revealed that the monetary incentive approach was the most effective approach to influence linen reuse intention. |
| Nosrati et al., (2023) | Value-Attitude-Behaviour (VAB): Perceived hedonic value Perceived utilitarian value | Moderators: cultural values Mediator: Attitude toward tourism | Pro-Environmental Behaviour | The perceived hedonic and utilitarian values have positive influence on attitude toward tourism and pro-environmental behaviour. |
| Wang et al., (2023) | Value-Attitude-Behaviour (VAB): Altruistic values Biospheric values Egoistic values Place attachment | Mediator: Attitude and personal norm | Energy-saving Behaviour | Both altruistic and biospheric values have positive impact on energy-saving behaviours while egoistic values have a negative role. |

2.2 The Appraisal Tendency Framework (ATF)

Emotions play a vital role in driving consumption within the tourism and hospitality industry (Le et al., 2020). People's evaluations often involve both cognitive and emotional appraisals in their decision-making process (Achar et al., 2016). Encountering different social and physical environments (e.g., feeling loved/ neglected or experiencing sunny/ stormy weather), people perceive and react differently to identical information depending on whether they are in a positive or negative mood (Kim et al., 2010; Van Lange et al., 2011). The Appraisal Tendency Framework (ATF) proposes that "each emotion activates a cognitive predisposition to appraise future events in line with the central appraisal dimension that triggered the emotion" (Lerner & Keltner, 2000, p. 477).

One of the emotions under the ATF framework is incidental emotions which refer to people's experiences derived from a separate and irrelevant situation unrelated to the other situation (Lerner & Keltner, 2000). Despite the unrelatedness of these two events, the incidental emotion developed from the previous unconnected situation influences and transfers to the subsequent judgements and behaviours of discrete topics (Achar et al., 2016). Incidental emotion can impact how individuals process and respond to information. Individuals may develop incidental emotions from dispositional effects or past events that can influence their

1
2
3 decision-making (Garg et al., 2005; Wyer et al., 2019). For instance, consumers who just
4 watched a horror movie and experienced the emotion of fear will subsequently influence their
5 product evaluation or perception of risk-taking when purchasing a lottery ticket. People
6
7 sometimes are unaware of the impact of the incidental event on their subsequent decision-
8 making (Lerner et al., 2007). Incidental emotions have been widely studied in consumer
9 research in terms of product evaluations (Kim et al., 2010), brand preferences (Dunn & Hoegg,
10 2014; Venkatraman et al., 2012), risk perception (Ferrer & Ellis, 2021) and advertisements
11 (Poels & Dewitte, 2019).

12
13
14
15
16
17
18
19
20
21
22 Incidental emotions can be important in an individual's attitudes and behaviours towards
23 the environment in unexpected ways. Research has shown that incidental emotions can have a
24 significant impact on pro-environmental participation (Ibanez et al., 2017). Positive emotions,
25 such as awe or happiness, have been found to increase people's willingness to engage in pro-
26 environmental behaviours. Negative emotions, such as anger, can also motivate individuals to
27 take action towards environmental issues. However, incidental emotions in relation to reward
28 (un)certainty (e.g. cash rebates, vouchers or discounts) in pro-environmental participation
29 receive limited attention. This study will focus on the incidental emotions (i.e., fear and hope)
30 that interplay with guaranteed or chance-based monetary rewards (i.e. reward certainty and
31 uncertainty) to identify the effective incentive to encourage people's pro-environmental
32 behaviours.

33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 **2.2.1 Fear**

49
50 Fear is a negative anticipatory emotion responding to the current or anticipated dangerous or
51 frightening situations in which people potentially feel threatened (Dunn & Hoegg, 2014;
52 LaTour & Rotfeld, 1997; Longmire et al., 2021). Under the Appraisal Tendency Framework
53 of emotional and cognitive appraisals in judgement and choice, incidental fear can elicit
54 people's feelings of uncertainty when they perceive unstable and uncontrollable situations
55
56
57
58
59
60

1
2
3 (Lerner & Keltner, 2001). Subsequently, people make choices that help them ease off their
4 negative feelings and attempt to gain more control over the situation (Moulard et al., 2012).
5
6 For example, using a framing manipulation of a hypothetical scenario of “Asian disease
7 problems”, Lerner and Keltner (2001) participants who experienced fear from an irrelevant
8 event (i.e., incidental fear from the scenario) decided not to put too much risk in gambling
9 situations when they feel pessimistic about the out-of-control situation. Similarly, in the context
10 of financial decision-making, the incidental emotion of fear manipulated by a horror movie
11 exposure made participants sell stocks earlier to minimise the monetary loss as the simulated
12 stock market has the characteristics of high uncertainty and low controllability (Lee &
13 Andrade, 2011). Likewise, Dunn and Hoegg (2014) found that consumers who experienced
14 fear-induced events had a stronger emotional attachment to brands as a coping mechanism for
15 affiliation. Longmire et al.'s (2021) study on materialism also concluded that people with
16 incidental fear believe that possessing more goods can gain ‘strength in things’ and reduce
17 uncertainty in an adverse situation. These studies of anticipatory fear in different contexts show
18 that individuals with the incidental fear emotion consistently make their certainty judgments
19 and choices to reduce risk in an attempt to gain more control over the situations.
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39

40 **2.2.2 Hope**

41 Hope is a positive anticipatory emotion based on the anticipation of desirable outcomes
42 (Cavanaugh et al., 2015; Wyer et al., 2019). Olsen et al. (2021) found that hope is a significant
43 determinant of youth participation in a volunteer tourism program. In marketing, Revlon
44 founder Charles Revson (1906-1975) once said, “In the factory, we make cosmetics. In the
45 drugstore, we sell hope” (Maclaran & Chatzidakis, 2022). People purchase cosmetics, hoping
46 to become more beautiful or sign up for a gym membership, expecting to be healthier in the
47 future. As Lazarus (2006, p. 16) described, hopeful people are ‘yearning for better and believing
48 the wished-for-improvement is possible.’ Hope has a future orientation that makes people
49
50
51
52
53
54
55
56
57
58
59
60

1
2
3 willing to take a chance and stay optimistic about attainable outcomes. In light of the temporal
4 focus of events, Lerner and Keltner (2000) suggested that the same valence of positive emotions
5 can have different cognitive appraisals of certainty. While the feelings of happiness and pride
6 are derived from present and past events that have happened (i.e., certainty), hope is evoked
7 from the expectation of future events that are uncertain but attainable to have a positive outcome
8 (Smith & Ellsworth, 1985; Winterich & Haws, 2011). Averill et al.'s (1990) study also showed
9 that college students' hope diminished when the anticipated event occurred, and the expected
10 outcome had been confirmed.
11
12
13
14
15
16
17
18
19
20
21

22 In the goal-congruency dimension, people with hope stay optimistic and believe that good
23 outcomes could occur in a positive environment and undesired outcomes could be prevented in
24 a negative situation (MacInnis & De Mello, 2005). As Chew and Ho (1994:268) contended,
25 'hope is experienced when there is enjoyment in delaying the resolution of uncertainty often
26 involving a potential gain'. The incidental emotion of hope may also induce self-control
27 motivation to achieve favourable outcomes (Wyer et al., 2019). For example, Winterich and
28 Haws's (2011) study on unhealthy food consumption reported that respondents in the hopeful
29 condition chose to consume less unhealthy food to attain better health. These studies imply that
30 consumers with the anticipatory emotion of hope are willing to take risks in uncertain situations.
31 While there are studies on hope in the marketing context, little research has addressed how the
32 incidental emotion of hope influences consumers' judgment on choices in their behaviour
33 (Poels & Dewitte, 2008). Understanding the anticipatory emotion of hope can help to develop
34 more effective strategies for promoting and encouraging pro-environmental behaviours (He et
35 al., 2022).
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53

54 **2.3 Reward Certainty and Uncertainty**

55 Reward certainty and uncertainty are based on the concept of certainty effect in prospect theory
56 ranging from certain to probable (i.e. random or by chance) in probability (Kahneman and
57
58
59
60

1
2
3 Tversky, 2013). Rewards are one of the most effective promotional tools used in marketing to
4 influence buying behaviours (Goldsmith & Amir, 2010; Shi et al., 2021; Zou et al., 2022).
5
6 Companies use rewards as incentives to induce purchase decisions or change purchase
7 behaviours (e.g., use a particular credit card to collect more rewards). Generally, rewards can
8 be classified as certainty and uncertainty incentives (Shen et al., 2015). The valued reward at
9 certainty refers to a definite value of the incentive (such as bonus, premium, price or discount)
10 that consumers know a guaranteed incentive that they will receive. Reward uncertainty is a
11 chance-based random incentive (e.g., lucky draws, contests or instant-win games) that
12 consumers will not know the exact value of rewards they obtain beforehand. There is a risk
13 involved in unpredictable and unknown rewards that consumers may have a chance to win the
14 highest prize or nothing. Consumers may feel apprehensive and lose control of chance-based
15 and uncertain rewards with insufficient reward information (Zou et al., 2022).
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30

31 Previous studies examined the effectiveness of reward certainty and uncertainty in
32 relation to risk aversion and suggested that reward uncertainty might not be as effective in sales
33 promotion as reward certainty (Kimball 1993; Shen et al. 2015). The perception of risk plays a
34 significant role in influencing consumers' choices of rewards (Shen et al., 2019). In the seminal
35 work of Kahneman and Tversky (1979), they concluded that people who are averse to risks
36 would be less interested in uncertain rewards as they want to be sure of what they receive. In
37 addition, Laran and Tsiras (2013) posited that consumers with an emphasis on their cognitive
38 decision-making process tended to avoid taking risks. Hence, consumers' purchase intention
39 decreased when they were offered rewards that were not guaranteed (i.e., not knowing the exact
40 value of the reward beforehand). However, reward uncertainty can be desirable for consumers
41 with a positive state of affective emotion as they perceive the unpredictable nature of rewards
42 as full of possibilities in the outcomes (Goldsmith and Amir, 2010). Despite rewards often used
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

1
2
3 in promotion in consumer marketing, studies on incidental emotions (i.e., fear and hope)
4 influencing consumers' judgement on reward certainty or uncertainty receive limited attention.
5
6
7

8 It has been argued that research should consider specific emotions (e.g., hope and fear)
9 rather than emotions in general, as specific emotion influences certain customers' choice
10 judgements (Winterich & Haws, 2011). Much academic research on reward uncertainty
11 reported that consumers with positive feelings found reward uncertainty enjoyable and were
12 willing to take the risk for unknown outcomes (Lee & Qiu, 2009; Zou et al., 2022). However,
13 the underlying mechanisms that the specific anticipatory emotions influence reward certainty
14 and uncertainty remain largely underexplored.
15
16
17
18
19
20
21
22
23
24

25 To respond to the call to examine the interplay of conditions and reward certainty and
26 uncertainty (Goldsmith & Amir, 2010; Su et al., 2018), this article aims to explore the
27 effectiveness of specific anticipatory emotions (i.e., fear and hope) under reward certainty and
28 uncertainty. It is expected that people with the emotion of fear are motivated to choose
29 guaranteed rewards (i.e. reward certainty) because of the pessimistic risk perception (Achar et
30 al., 2016). They prefer to avoid risk to reduce uncertainty and gain a feeling of control over a
31 situation. In contrast, people with the emotion of hope feel more optimistic and positive about
32 anticipated future events and regard chance-based rewards as possibilities. Hence, we proposed
33 the following hypotheses:
34
35
36
37
38
39
40
41
42
43
44

45
46 **Hypothesis 1:** A fear-framed condition compared with a hope-framed condition will be more
47 effective in eliciting strong participation intention in pro-environmental promotion when paired
48 with reward certainty.
49
50
51

52
53 **Hypothesis 2:** A hope-framed condition compared with a fear-framed condition will be more
54 effective in eliciting strong participation intention in pro-environmental promotion when paired
55 with reward uncertainty.
56
57
58
59
60

3. Methods

3.1. Study Context

Hong Kong is one of the key tourist-generating markets in Asia Pacific (Guillet et al., 2011). The hectic lifestyle and high-density living environment play a role in motivating residents to actively seek leisure activities as a break from their relentless pace of life (Guillet, Law & Leung, 2012). Staycations have gained popularity during the COVID-19 pandemic mainly due to the travel restrictions; this drives people to stay in the city and spend their vacations close to home (Muritala, Hernández-Lara, & Sánchez-Rebull, 2022; Zhang et al., 2021).

As a viable alternative for urban dwellers seeking relaxation and rejuvenation, this study examines the pro-environmental behaviours of staycation guests in Hong Kong. In light of the recent Product Eco-responsibility (Amendment) Bill 2023, which prohibits hotels from providing complimentary disposable toiletries and in-room plastic bottled water to guests, this study focuses on guests' voluntary pro-environmental practices, such as towel reuse, within the context of staycations. The findings would provide valuable insights into consumer sustainable behaviour and offer significant implications for the local hospitality industry's sustainability efforts and environmental initiatives.

3.2. Research Design

A 2 (Incidental emotions: fear vs. hope) × 2 (Rewards: certainty vs. uncertainty) between-subjects experimental design was employed. The study was conducted through an online survey. With the specification of desired respondent characteristics (e.g., gender, age, and education), the respondents were recruited through a marketing research agency. The respondents were randomly assigned to one of the four conditions.

Prior studies generally employed two different approaches to induce incidental emotion. The first method involves utilising an autographical emotional memory task (Dunn & Schweitzer, 2005; Jin & Atkinson, 2021) in which respondents are asked to write a personal

1
2
3 experience related to the target emotion. The second approach involves exposing participants
4
5 to materials designed to evoke the desired emotion, such as reading a paragraph or watching a
6
7 video (Dunn & Hoegg, 2014; Longmire et al., 2021). The second method was used in this
8
9 research as it allows for more consistency and control, reducing potential variations that might
10
11 arise from personal experiences. The materials were selected and pre-tested by a small sample
12
13 (i.e. 30 respondents, approximately 10% of the total sample) via the marketing research agency
14
15 to check the wording and the logical flow of the survey sequence. In the incidental fear
16
17 condition, respondents' fear emotions were induced by reading an article originally from The
18
19 Sun that was translated by a local newspaper AM730 *Woman, 21, shared a shocking photo of*
20
21 *a mouth ulcer she ignored for months that turned into cancer* and a 2.5-min movie trailer for
22
23 the horror movie *Halloween Kills, Trailer*. Given their intense and unsettling content, these
24
25 materials are well-suited to elicit fear effectively. Respondents assigned to the incidental hope
26
27 conditions were asked to read an article from BBC News, *Why We Should All Hold On to Hope*
28
29 and a 2.5-minute video on the poem *And the People Stayed Home* by Kitty O'Meara that offers
30
31 an optimistic view of the future about the pandemic. During the pandemic, when many people
32
33 were experiencing significant challenges and a lack of social interaction, these materials
34
35 provided a sense of reassurance and encouragement. The positive contents of these materials
36
37 could effectively enhance feelings of hope in the prevailing sense of hardship. In addition, each
38
39 respondent was asked to read one of the following messages about guaranteed or chance-based
40
41 random rewards (i.e. reward certainty or uncertainty). The reward was set at USD12.80, which
42
43 aligns with the average room rate in Hong Kong of USD110 (Statista, 2023). This amount
44
45 represents a 12% discount that is consistent with early bird and loyalty offers typically provided
46
47 by hotels in the industry. This incentive level is considered appropriate to effectively encourage
48
49 participation without compromising the pro-environmental intentions of the customers.
50
51
52
53
54
55
56
57
58
59
60

Reward Certainty

‘Imagine you are on vacation and stay at the same hotel for three consecutive nights. The hotel is running a promotional program in which customers will get **a cash rebate of USD\$12.8** if they do not request a new towel daily (i.e., reusing the towel).’

Reward Uncertainty

‘Imagine being on vacation and staying at the same hotel for three consecutive nights. The hotel is running a promotional program in which customers will **get a cash rebate of USD\$0 or USD \$12.8** if they do not request a new towel daily (i.e., reusing the towel). **The amount of cash rebate will be randomly determined by the computer.**’

In line with the research ethics, with consent, respondents were granted 2 minutes to read through the news article; after 2 minutes, they were allowed to move to watch the video. After the whole video was played, the respondents were allowed to proceed with an online survey section that requested to complete an online survey, including manipulation checks, dependent variables, and demographic questions.

3.3. Measures

Manipulation check questions. Respondents’ understanding of fear-hope framing was assessed via eight 7-point scales adapted from the study of Feldman and Hart (2018) and Watson and Clark (1994). The items are presented as “*The newspaper article/video clip makes me feel afraid/jittery/hopeful/optimistic*”. Meanwhile, two 7-point items were used to measure the understanding of certainty-uncertainty framing, “*The above scenario describes that, if customers did not request a new towel every day, they would get an instant cash rebate of USD\$12.8 / cash rebate of USD\$0 or USD\$12.8.*”

Dependent variables. Participants were required to indicate their intention was measured by three 7-point items, which were adapted from the study on pro-environmental behaviour by Wan et al. (2017): “*How likely are you to reuse hotel towels?*”, “*How willing are you to reuse*

1
2
3 *hotel towels?*”, “*How motivated are you to reuse hotel towels?*” (1=not at all, 7=very much; α
4 = .933).
5
6

7 **3.4. Data Collection and Analysis**

8
9
10 Data was collected through the online panel services of an international marketing research
11 agency, *Kantar Group*. The target respondents are people in Hong Kong aged 18 or above who
12 have stayed at a local hotel over the past two years as Hong Kong people enjoyed a staycation
13 in a hotel without leaving the city during COVID-19. The study recruited respondents who had
14 completed a staycation at hotels and focused on their individual pro-environmental behaviours.
15 The sample included guests with diverse purposes for their stay, and this approach allows us
16 to capture and understand individual experiences across a wide range of staycation contexts.
17 The data collection was conducted between January and February 2022. During this period,
18 the city imposed stringent travel restrictions, including the flight ban from many overseas
19 countries. The minimum sample size required for each study was estimated using G*Power 3.1
20 software (Faul et al., 2009). For this study, having four experimental groups, using a two-tailed
21 test of significance at the 5% level, under a power of 95% and an estimated medium effect size
22 of 0.25, at least 279 respondents should be recruited in total. Finally, 350 valid responses were
23 collected for the analysis, fulfilling the sample size requirement. Manipulation checks were
24 performed using one-way ANOVA to compare the difference between the fear vs hope
25 conditions and the reward certainty vs reward uncertainty conditions. To test the hypotheses,
26 we employed a general linear model (GLM) analysis using SPSS 28.0, along with pairwise
27 comparisons. A two-way ANCOVA was conducted to examine the main and interaction effects
28 of incidental emotions and reward (un)certainty on guests’ intention to reuse towels. This
29 approach allowed us to control for potential covariates related to demographic differences and
30 better understand how incidental emotions and reward (un)certainty influenced pro-
31 environmental behaviour.
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

4. Findings

4.1. Respondents' Profile

A total of 350 Hong Kong respondents recruited by a market research agency participated in the study (177 males and 173 females) with a mean age of 40.41 (SD = 12.129). Their education level ranged from secondary (23.1%) to post-secondary (18.0%) and degree or above (58.9%) (Table 2). The respondents were randomly allocated to one of the four experimental conditions. The N for each condition ranged from 87 to 88. The sample size of 350 exceeds the minimum requirement determined by prior power analysis as described in Section 3.4. This ensures sufficient statistical power to support the findings of this study.

Table 2 Respondents' Profile

| Demographic Variables | Category | Frequency | Percentage |
|-----------------------|-----------------|-----------|------------|
| Gender | Male | 177 | 50.6 |
| | Female | 173 | 49.4 |
| Age | 18-24 | 44 | 12.6 |
| | 25-34 | 76 | 21.7 |
| | 35-44 | 93 | 26.6 |
| | 45-54 | 87 | 24.9 |
| | > = 55 | 50 | 14.3 |
| Education Level | Lower Secondary | 7 | 2.0 |
| | Upper Secondary | 74 | 21.1 |
| | Sub-degree | 63 | 18.0 |
| | Degree of above | 206 | 58.9 |

4.2. Manipulation Checks – Emotion Induction

To evaluate the success of both emotion induction of fear-hope framing manipulations, one-way ANOVA was conducted. As expected, respondents in the induced fear condition rated their emotions triggered by the newspaper article and video as 'afraid' and 'jittery' significantly

1
2
3 higher than those in the hope condition. By contrast, respondents in the induced hope condition
4
5 rated their emotions elicited by materials as 'hopeful' and 'optimistic' significantly higher. On
6
7 the other hand, the two items checking the reward (un)certainty also demonstrated the expected
8
9 difference between the respondents that are assigned to the reward certainty vs reward
10
11 uncertainty conditions. In sum, both manipulations were successful (Table 3).
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

For Peer Review

Table 3 Manipulation Checks

| Manipulation | Condition | Mean | <i>F</i> | <i>Sig.</i> |
|--|-------------|------|----------|-------------|
| Checks | | | | |
| <i>The newspaper article makes me feel...</i> | | | | |
| afraid | fear | 5.70 | 617.981 | <.001 |
| | hope | 2.63 | | |
| jittery | fear | 5.73 | 585.523 | <.001 |
| | hope | 2.62 | | |
| hopeful | fear | 3.48 | 101.369 | <.001 |
| | hope | 4.79 | | |
| optimistic | fear | 3.09 | 167.681 | <.001 |
| | hope | 4.86 | | |
| <i>The video clip makes me feel...</i> | | | | |
| afraid | fear | 4.94 | 355.521 | <.001 |
| | hope | 2.21 | | |
| jittery | fear | 4.97 | 347.318 | <.001 |
| | hope | 2.16 | | |
| hopeful | fear | 2.67 | 317.076 | <.001 |
| | hope | 5.03 | | |
| optimistic | fear | 2.58 | 403.094 | <.001 |
| | hope | 5.21 | | |
| <i>The above scenario describes that, if customers did not request for a new towel every day, they will get an instant cash rebate of...</i> | | | | |
| USD\$12.8 | certainty | 6.02 | 258.385 | <.001 |
| | uncertainty | 3.13 | | |
| USD\$0 or \$12.8 | certainty | 3.07 | 198.458 | <.001 |
| | uncertainty | 5.70 | | |

4.3. Interplay Effect of Rewards and Incidental Emotions

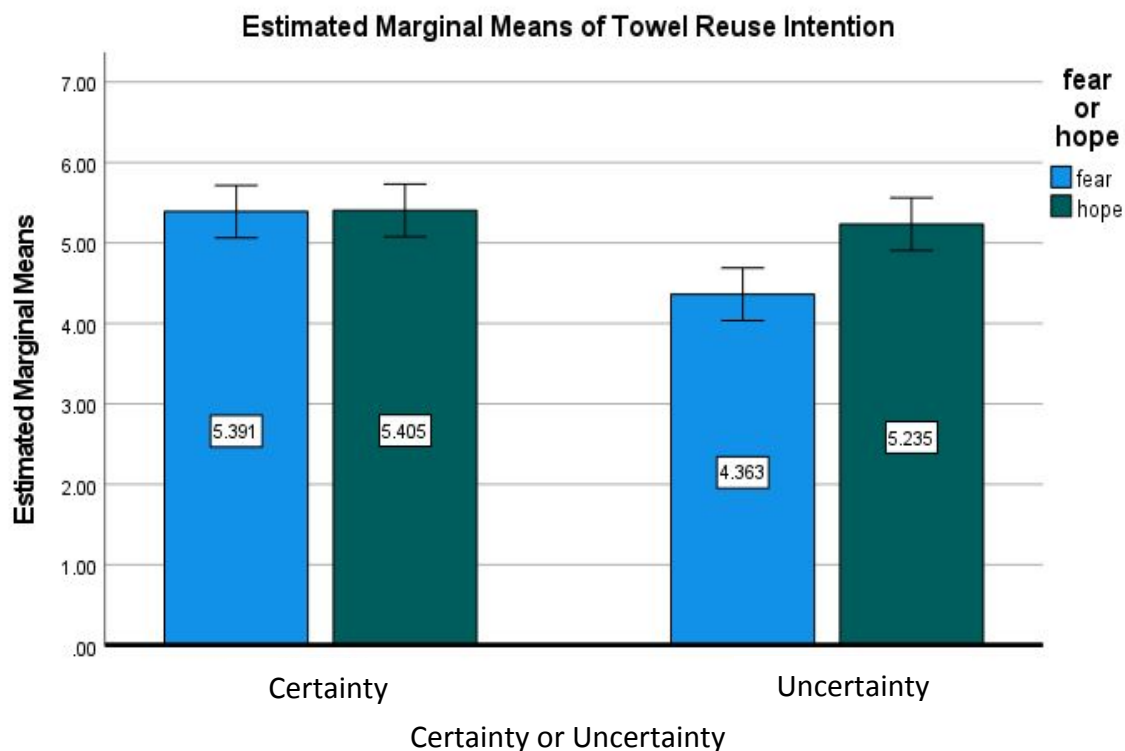
GLM analysis was performed to test the main and interaction effects of incidental emotion and reward (un)certainty on towel reuse intention. The GLM framework provides a flexible and robust approach for analysing data with multiple factors and their interactions, and specifically, it allows for the modelling of relationships between one or more categorical predictors and a continuous dependent variable (Rutherford, 2012). The demographic variables, i.e. gender, age, and education level, were added as co-variates. The results showed that the main effects and the two-way interaction effect significantly influence the respondents' intention to reuse towels during the hotel stay (Table 4).

Table 4 GLM Analysis

| Variable | Mean Square | <i>F</i> | <i>Sig.</i> | η_p^2 |
|--|-------------|----------|-------------|------------|
| Fear vs. Hope | 17.174 | 7.146 | .008 | .020 |
| Certainty vs. Uncertainty | 31.092 | 12.937 | <.001 | .036 |
| Fear vs. Hope * Certainty vs. Uncertainty | 16.016 | 6.664 | .010 | .019 |
| Control Variable | | | | |
| Gender | 1.344 | .559 | .455 | .002 |
| Age | 5.047 | 2.100 | .148 | .006 |
| Education Level | 5.178 | 2.155 | .143 | .006 |

The main effect of incidental emotions on towel reuse intentions was significant ($M_{\text{Fear}} = 4.877$, $M_{\text{Hope}} = 5.320$, $F = 7.146$, $p < 0.01$, $\eta_p^2 = 0.02$) in which hope elicited a stronger intention to reuse towel than fear and the effect size of 0.020 indicated a small to medium effect (Cohen, 2013). The main effect of reward certainty was also significant ($M_{\text{Certain}} = 5.398$, $M_{\text{Uncertain}} = 4.799$, $F = 12.937$, $p < 0.001$, $\eta_p^2 = 0.036$) in which guaranteed reward (i.e. certainty) was more effective in eliciting stronger pro-environmental intention than chance-based random reward (i.e. uncertainty) with a small to medium effect. Furthermore, the interaction effect of

1
2
3 incidental emotion and reward certainty was significant ($F = 664, p < 0.05, \eta_p^2 = 0.019$). The
4
5 graphical representation of the interaction is shown in Figure 1. The further pairwise
6
7 comparisons showed that when fear is paired with a guaranteed reward (i.e. reward certainty),
8
9 the respondents indicated a stronger intention to reuse towels ($M_{\text{Fear-Certainty}} = 5.391$ vs. $M_{\text{Fear-}}$
10
11 $M_{\text{Fear-Uncertainty}} = 4.363, p < .001$). Thus, hypothesis 1 is partially supported. In the reward uncertainty
12
13 condition, the incidental emotion of fear elicited a weaker intention than hope to reuse towels
14
15 ($M_{\text{Fear-Uncertainty}} = 4.363$ vs. $M_{\text{Hope-Uncertainty}} = 5.235, p < .001$) and this supported Hypothesis 2.
16
17 However, no significant difference was found between fear and hope emotions in reward
18
19 certainty conditions.
20
21
22
23
24
25



51
52
53
54
55
56
57
58
59
60

Figure 1 Means of the Four Experimental Conditions

5. Discussion

Understanding and managing incidental emotions is crucial for businesses in the tourism and hospitality industry, as emotions are often a key factor in decision-making and can significantly influence the overall travel experience (Walls et al., 2011). The Appraisal Tendency Framework (ATF) provides a theoretical foundation for understanding how individuals experiencing a specific emotion activate their cognitive predisposition to assess future events. In particular, the framework explains how individuals' positive/ negative future-oriented incidental emotions (i.e. hope and fear) derived from unrelated or peripheral situations or events will shape their judgement and behaviours. For example, hope as an incidental emotion can arise from hotel guests' positive experiences through greener hotel surroundings (e.g. rooftop gardens and green walls) stimulating the senses of sight, smell and hearing. By eliciting positive future-oriented emotions of hope, hotels can motivate guests with random chance-based rewards (i.e. uncertainty) to promote effective and sustainable behaviours. When offering uncertain rewards, such as lucky draws, respondents in the hope-framed condition have a stronger intention to participate in the towel reuse promotion. The findings suggest that using incidental emotions and rewards can be an effective way for hotels to promote sustainable behaviours among their customers.

5.1. Theoretical Implications

This study advances the understanding of the interplay effects between incidental emotions (fear vs. hope) and reward (un)certainty. The incidental emotions that are unconnected to the situation or context also exert a significant impact on sustainable behaviours (Andrade & Ariely, 2009). Promoting sustainable practices to hotel guests, such as towel reuse, can help reduce the hotel industry's environmental impact and raise awareness about the importance of sustainability and environmental conservation. Using the context of towel reuse during hotel stays, this study contributes to the literature by examining the interaction effects of incidental

1
2
3 emotions and reward (un)certainty. Individuals tend to be more risk-averse when experiencing
4 fear and more risk-seeking when experiencing hope. Hope has the characteristic of future
5 positive orientation: individuals are inclined to take chances for attainable outcomes and be
6 more open to the unknown. When hope is paired with reward uncertainty, it can strengthen
7 individuals' cognitive appraisals of their sustainable behaviours. In other words, chance-based
8 random rewards (i.e. uncertainty) can be desirable for individuals with a positive state of
9 affective emotion (Goldsmith & Amir, 2010). It can also be explained using Hofstede's cultural
10 dimension of "Uncertainty Avoidance", which is related to the degree of acceptance of
11 uncertain or ambiguous situations (Hofstede, 2001). Hong Kong has a very low score of 29 on
12 "Uncertainty Avoidance" compared with other collectivist countries/ regions, such as Japan
13 (92), Korea (85) and Taiwan (69) in Asia (Insights, 2024). People with low "Uncertainty
14 Avoidance" feel more hopeful and comfortable with ambiguity. Hence, they are willing to take
15 risks for unknown outcomes (i.e. chance-based random rewards).

16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33 Tourists' incidental emotions of fear can also be influenced when they encounter visible
34 signs of negative surroundings (e.g. signs of environmental degradation). Knowing that tourists
35 with fear tend to avoid risk-taking in their decision-making, guaranteed rewards (i.e. certainty)
36 will be a better option to motivate them to participate in pro-environmental behaviours. This
37 fills the gaps by examining the incidental emotions and rewards (un)certainty in the hospitality
38 and tourism sector. By understanding the underlying mechanisms that drive the relationship
39 between incidental emotions and decision-making, researchers can further develop theoretical
40 models to understand individuals' sustainable behaviours, which in turn can inform the
41 development of more effective interventions and policies.
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

5.2. Managerial Implications

From a managerial perspective, the findings of this study provide insightful recommendations for businesses and managers for designing appropriate rewards for encouraging pro-environmental behaviours. Several strategies that hotels can use to ensure their sustainability initiatives are eliciting the desired incidental emotional responses from guests. For the immediate effect, environmental stimuli within the service scope can arouse incidental emotions (Su et al., 2018), potentially influencing customers' perception in evaluating reward (un)certainty. Hotels can use the design of the physical environment to evoke positive emotions related to sustainability, such as incorporating green spaces, natural materials, and energy-efficient lighting in surroundings to create a sense of calm and well-being. The findings in this study show that hotels can utilise incidental emotions of hope and fear along with guaranteed and chance-based rewards (i.e. reward certainty and uncertainty) in pro-environmental promotions. For example, hotels can induce guests' incidental emotions of hope by sharing and highlighting visions of sustainable initiatives on their official website or social media platforms to create a positive impact on the environment or local community. Maintaining a sense of optimism (even in uncertain circumstances), guests envision hope in future scenarios and, hence, have a high chance to accept uncertain rewards, such as lucky draws or surprise deals, to engage in eco-friendly behaviours. Chance-based rewards as variable promotional costs can reduce marketing expenses while effectively motivating customer behaviours (Goldsmith & Amir, 2010; Rahman & Reynolds, 2019). In addition, when guests perceive cities/ areas that are unsafe or polluted, their incidental emotions of fear might be evoked. In this case, guaranteed rewards, such as fixed price discounts or rebates, would be a more effective incentive for hotels to promote sustainable behaviours.

In addition, hotels can also consider other aspects, such as advertising, digital touchpoints, and digital reward apps, that instil customers' incidental emotions (Kemp et al.,

2021; Straker et al., 2015; Wang et al., 2016). For example, smart hotels have leveraged artificial intelligence and technology to enhance customer experiences, focusing on sustainable operation efficiency (Sinha et al., 2021). Leveraging data analytics in reward apps, companies collect customers' data points on communication messages (i.e. posts) through interactions such as comments, likes, and shares to detect their emotional cues of hope and fear. Based on customers' responses, companies can predict and categorise them into different groups (e.g. hope or fear). They can now adjust incentive strategies that offer a mix of rewards to resonate with their emotional state.

5.3. Limitations and Future Study

This study confronts limitations that need to be acknowledged for future endeavours. First, this study used the intention to reuse towels as the outcome variable. This is one of the many forms of pro-environmental behaviours in the hospitality and tourism fields. Therefore, future studies can consider measuring and examining other types of pro-environmental behaviours. Second, this study's reliance on self-reported measures may lead to a weak conclusion because of the potential attitude-behaviour gap. Together with self-reported behavioural data, a field experiment measuring actual behaviours is recommended for future research to validate the findings of this study. For example, the study of Nowak et al. (2023) had access to visitors' actual donations as well as self-reported surveys to provide a comprehensive perspective to evaluate the norm nudges in tourists' sustainable behaviours. Third, we recruited participants through a paid online panel service, and all participants were self-selected to participate in the research. The voluntary participation may suggest that participants are already interested in the environmental issue, which, in turn, may result in significant relationships in the end. Fourth, we did not distinguish between respondents staying alone or with others. Future research could explore how these factors may influence pro-environmental behaviour in staycations.

1
2
3 Future studies may consider a more diverse and representative sample for investigation.
4
5 In addition to personal emotions, future research may examine social emotions that arise in
6
7 response to social interactions or situations with others. Taking others' perspectives in the
8
9 emotional experiences will impact their judgement and behaviours. Furthermore, the types of
10
11 hotels (e.g., smart, luxury, or chain hotels) or hotels in different regions may have different
12
13 energy-saving schemes or sustainable promotional strategies (Wang et al., 2023). Future
14
15 studies may compare companies' strategies or customers' sustainable behaviour in various
16
17 types of hotels. Future research may also explore how tourists' cultural backgrounds and
18
19 incidental emotions interact with reward types in promoting pro-environmental behaviours in
20
21 different countries/ regions. For example, the quality of government providing more
22
23 sustainable facilities and environments in public areas plays an important role in people's pro-
24
25 environmental behaviours (Kulin and Johansson, 2021).
26
27
28
29

30 **Conclusions**

31
32 The sustainability practices of hospitality and tourism businesses warrant particular attention
33
34 because of the intense use of resources and potential impacts on the environment (Cerchione
35
36 & Bansal, 2020). Encouraging pro-environmental behaviours in the hospitality and tourism
37
38 sector can differ from that in the everyday context (Budovska et al., 2020), as hospitality and
39
40 tourism businesses are used to provide a hedonic customer experience, which may be the
41
42 barrier to motivating sustainable consumption. This study offers empirical evidence on how
43
44 incidental emotions and reward (un)certainty influence the intention to reuse towels in a hotel.
45
46 Although guaranteed rewards (i.e. certainty) are generally preferable by customers for
47
48 engaging in pro-environmental behaviours, unknown rewards (i.e. uncertainty) would also be
49
50 effective when paired with incidental emotions of hope. This study contributes to the literature
51
52 by advancing the understanding of the interplay effect of incidental emotions and reward
53
54 (un)certainty. Hotel companies and managers need to consider the feelings elicited by their
55
56
57
58
59
60

1
2
3 service-scape and touchpoints in the hotel customer journey when formulating sustainable
4 activities and the associated rewards.
5
6
7

8 **References**

- 9
10
11 Achar, C., So, J., Agrawal, N., & Duhachek, A. (2016). What we feel and why we buy: the
12 influence of emotions on consumer decision-making. *Current Opinion in Psychology*,
13 *10*, 166-170.
14
15
16
17
18 Ahmad, W., Kim, W. G., Anwer, Z., & Zhuang, W. (2020). Schwartz personal values, theory
19 of planned behavior and environmental consciousness: How tourists' visiting
20 intentions towards eco-friendly destinations are shaped? *Journal of Business*
21 *Research*, *110*, 228-236.
22
23
24
25
26
27 Ali, F., Amin, M., Cobanoglu, C., 2016. An integrated model of service experience, emotions,
28 satisfaction, and price acceptance: an empirical analysis in the chinese hospitality
29 industry. *Journal of Hospitality Marketing & Management*, *25*(4), 449–475.
30
31
32
33
34 Andrade, E. B., & Ariely, D. (2009). The enduring impact of transient emotions on decision
35 making. *Organizational behavior and human decision processes*, *109*(1), 1-8.
36
37
38
39 Averill, J. R., Catlin, G., & Chon, K. K. (1990). Study 1: The Anatomy of Hope. In J. R.
40 Averill, G. Catlin, & K. K. Chon (Eds.), *Rules of Hope* (pp. 9-35). Springer New
41 York. https://doi.org/10.1007/978-1-4613-9674-1_2
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

- 1
2
3 Bolderdijk, J. W., Lehman, P. K., & Geller, E. S. (2018). Encouraging pro-environmental
4
5 behaviour with rewards and penalties. *Environmental Psychology: An introduction*,
6
7 273-282.
8
9
10 Budovska, V., Torres Delgado, A., & Øgaard, T. (2020). Pro-environmental behaviour of
11
12 hotel guests: Application of the Theory of Planned Behaviour and social norms to
13
14 towel reuse. *Tourism and Hospitality Research*, 20(1), 105-116.
15
16
17 Chan, M. K. M., Tsang, N. K., & Au, W. C. W. (2022). Effective approaches for encouraging
18
19 hotel guests' voluntary bedding linen reuse behavior. *International Journal of*
20
21 *Hospitality Management*, 101, 103105.
22
23
24 Casado-Díaz, A. B., Sellers-Rubio, R., Rodriguez-Sanchez, C., & Sancho-Esper, F. (2020).
25
26 Predictors of willingness to pay a price premium for hotels' water-saving
27
28 initiatives. *Journal of Travel & Tourism Marketing*, 37(7), 773-784.
29
30
31 Cavanaugh, L. A., Bettman, J. R., & Luce, M. F. (2015). Feeling love and doing more for
32
33 distant others: Specific positive emotions differentially affect prosocial consumption.
34
35 *Journal of Marketing Research*, 52(5), 657-673.
36
37
38 Cerchione, R., & Bansal, H. (2020). Measuring the impact of sustainability policy and
39
40 practices in tourism and hospitality industry. *Business Strategy and the Environment*,
41
42 29(3), 1109-1126.
43
44
45 Chen, H. S., & DeSalvo, D. (2022). The effect of message framing and focus on reducing
46
47 food waste. *Journal of Quality Assurance in Hospitality & Tourism*, 23(3), 650-668.
48
49
50 Chew, S. H., & Ho, J. L. (1994). Hope: An empirical study of attitude toward the timing of
51
52 uncertainty resolution. *Journal of Risk and Uncertainty*, 8(3), 267-288.
53
54
55 Chi, O. H., Denton, G., & Gursoy, D. (2021). Interactive effects of message framing and
56
57 information content on carbon offsetting behaviors. *Tourism Management*, 83,
58
59 104244.
60

- 1
2
3 Choi, S., & Kim, S. (2013). Effects of a reward program on inducing desirable customer
4 behaviors: The role of purchase purpose, reward type and reward redemption timing.
5 *International Journal of Hospitality Management*, 32, 237-244.
6
7
8
9
10 Cohen, J. (2013). *Statistical power analysis for the behavioral sciences*. Routledge.
11
12 Cvelbar, L. K., Grün, B., & Dolnicar, S. (2017). Which hotel guest segments reuse towels?
13 Selling sustainable tourism services through target marketing. *Journal of Sustainable*
14 *Tourism*, 25(7), 921-934.
15
16
17
18 Dolnicar, S., Juvan, E., & Grün, B. (2020). Reducing the plate waste of families at hotel
19 buffets—A quasi-experimental field study. *Tourism Management*, 80, 104103.
20
21
22 Dolnicar, S., Knezevic Cvelbar, L., & Grün, B. (2017). Do pro-environmental appeals trigger
23 pro-environmental behavior in hotel guests? *Journal of Travel Research*, 56(8), 988-
24 997.
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
- Dunn, J. R., & Schweitzer, M. E. (2005). Feeling and believing: the influence of emotion on trust. *Journal of Personality and Social Psychology*, 88(5), 736.
- Dunn, L., & Hoegg, J. (2014). The impact of fear on emotional brand attachment. *Journal of consumer research*, 41(1), 152-168.
- Faul, F., Erdfelder, E., Buchner, A., & Lang, A.-G. (2009). Statistical power analyses using G* Power 3.1: Tests for correlation and regression analyses. *Behavior Research Methods*, 41(4), 1149-1160.
- Feldman, L., & Hart, P. S. (2018). Is there any hope? How climate change news imagery and text influence audience emotions and support for climate mitigation policies. *Risk Analysis*, 38(3), 585-602.
- Ferrer, R. A., & Ellis, E. M. (2021). Preliminary evidence for differential effects of integral and incidental emotions on risk perception and behavioral intentions: a meta-analysis of eight experiments. *Journal of Behavioral Decision Making*, 34(2), 275-289.

- 1
2
3 Garg, N., Inman, J. J., & Mittal, V. (2005). Incidental and Task-Related Affect: A Re-Inquiry
4 and Extension of the Influence of Affect on Choice. *Journal of consumer research*,
5 32(1), 154-159.
6
7
8
9
10 Goldsmith, K., & Amir, O. (2010). Can uncertainty improve promotions? *Journal of*
11 *Marketing Research*, 47(6), 1070-1077.
12
13
14 Gracia, E., Bakker, A. B., & Grau, R. M. (2011). Positive emotions: The connection between
15 customer quality evaluations and loyalty. *Cornell Hospitality Quarterly*, 52(4), 458-
16 465.
17
18
19
20
21
22 Grazzini, L., Rodrigo, P., Aiello, G., & Viglia, G. (2018). Loss or gain? The role of message
23 framing in hotel guests' recycling behaviour. *Journal of Sustainable Tourism*, 26(11),
24 1944-1966.
25
26
27
28
29 Gärling, T., & Schuitema, G. (2007). Travel demand management targeting reduced private
30 car use: effectiveness, public acceptability and political feasibility. *Journal of Social*
31 *issues*, 63(1), 139-153.
32
33
34
35
36 Gössling, S., Araña, J. E., & Aguiar-Quintana, J. T. (2019). Towel reuse in hotels:
37 Importance of normative appeal designs. *Tourism Management*, 70, 273-283.
38
39
40 Guillet, B. D., Lee, A., Law, R., & Leung, R. (2011). Factors affecting outbound tourists'
41 destination choice: The case of Hong Kong. *Journal of Travel & Tourism Marketing*,
42 28(5), 556-566.
43
44
45
46
47 Guillet, B. D., Law, R., & Leung, R. (2012). Travel motivations and travel distance with
48 temporal advance: A case study of Hong Kong pleasure travelers. *Journal of*
49 *Destination Marketing & Management*, 1(1-2), 107-117.
50
51
52
53
54 Han, S., Lerner, J. S., & Keltner, D. (2007). Feelings and Consumer Decision Making: The
55 Appraisal-Tendency Framework. *Journal of Consumer Psychology*, 17(3), 158-168.
56
57
58
59
60

- 1
2
3 Han, H., & Hyun, S. S. (2018). Eliciting customer green decisions related to water saving at
4 hotels: Impact of customer characteristics. *Journal of Sustainable Tourism*, 26(8),
5 1437-1452.
6
7
8
9
10 Han, H., Chua, B. L., & Hyun, S. S. (2020). Eliciting customers' waste reduction and water
11 saving behaviors at a hotel. *International Journal of Hospitality Management*, 87,
12 102386.
13
14
15
16
17 Harvey, P., & Victoravich, L. M. (2009). The influence of forward-looking antecedents,
18 uncertainty, and anticipatory emotions on project escalation. *Decision Sciences*, 40(4),
19 759-782.
20
21
22
23
24 He, M., Blye, C. J., & Halpenny, E. (2022). Impacts of environmental communication on
25 pro-environmental intentions and behaviours: a systematic review on nature-based
26 tourism context. *Journal of Sustainable Tourism*, 1-23.
27
28
29
30
31 He, J., Cai, X., Li, G., Zou, X., & Morrison, A. M. (2022). Volunteering and pro-
32 environmental behavior: the relationships of meaningfulness and emotions in
33 protected areas. *Journal of Sustainable Tourism*, 1-18.
34
35
36
37
38 Hofstede, G. 2001. *Cultural Consequences*. Thousand Oaks, CA: SAGE.
39
40 Huang, Y., Ma, E., & Wang, D. (2021). Message framing strategies, food waste prevention,
41 and diners' repatronage intentions: The mediating role of corporate social
42 responsibility. *Journal of Sustainable Tourism*, 29(10), 1694-1715.
43
44
45
46
47 Ibanez, L., Moureau, N., & Roussel, S. (2017). How do incidental emotions impact pro-
48 environmental behavior? Evidence from the dictator game. *Journal of Behavioral and*
49 *Experimental Economics*, 66, 150-155.
50
51
52
53
54 Insights, H. (2024). Country comparison tool. Helsinki, Finland: Hofstede Insights. Retrieved
55 from: <https://www.theculturefactor.com/country-comparison-tool>
56
57
58
59
60

- 1
2
3 Jin, E., & Atkinson, L. (2021). The moderating role of emotion: The combinatory effects of
4 positive emotion and news framing techniques on climate change attitudes.
5
6 *Journalism & Mass Communication Quarterly*, 98(3), 749-768.
7
8
9
10 Kahneman, D., & Tversky, A. (1979). Prospect Theory: An Analysis of Decision under Risk.
11
12 *Preference, Belief, and Similarity*, 549.
13
14
15 Kahneman, D., & Tversky, A. (2013). Prospect theory: An analysis of decision under risk. In
16
17 L. MacLean & W. Ziemba (Eds.), *Handbook of the Fundamentals of Financial Decision*
18
19 *Making: Part I* (pp. 97-127). World Scientific: New York.
20
21
22 Kemp, E., Bui, M., & Chapa, S. (2012). The role of advertising in consumer emotion
23
24 management. *International Journal of Advertising*, 31(2), 339-353.
25
26
27 Kim, H., Park, K., & Schwarz, N. (2010). Will this trip really be exciting? The role of
28
29 incidental emotions in product evaluation. *Journal of Consumer Research*, 36(6), 983-
30
31 991.
32
33
34 Kulin, J., & Johansson Sevä, I. (2021). Quality of government and the relationship between
35
36 environmental concern and pro-environmental behavior: a cross-national
37
38 study. *Environmental Politics*, 30(5), 727-752.
39
40
41 Lagomarsino, M., & Lemarié, L. (2024). Hope for the environment: Influence of goal and
42
43 temporal focus of emotions on behavior. *International Journal of Consumer*
44
45 *Studies*, 48(2), e13020.
46
47
48 Laran, J., & Tsiros, M. (2013). An investigation of the effectiveness of uncertainty in
49
50 marketing promotions involving free gifts. *Journal of marketing*, 77(2), 112-123.
51
52
53 LaTour, M. S., & Rotfeld, H. J. (1997). There are threats and (maybe) fear-caused arousal:
54
55 Theory and confusions of appeals to fear and fear arousal itself. *Journal of*
56
57 *Advertising*, 26(3), 45-59.
58
59
60

- 1
2
3 Lazarus, R. S. (2006). Emotions and interpersonal relationships: Toward a person-centered
4 conceptualization of emotions and coping. *Journal of personality*, 74(1), 9-46.
5
6
7
8 Le, D., Pratt, M., Wang, Y., Scott, N., & Lohmann, G. (2020). How to win the consumer's
9 heart? Exploring appraisal determinants of consumer pre-consumption
10 emotions. *International Journal of Hospitality Management*, 88, 102542.
11
12
13
14 Lee, C. J., & Andrade, E. B. (2011). Fear, social projection, and financial decision making.
15 *Journal of Marketing Research*, 48(SPL), S121-S129.
16
17
18
19 Lee, Y. H., & Qiu, C. (2009). When uncertainty brings pleasure: The role of prospect
20 imageability and mental imagery. *Journal of consumer research*, 36(4), 624-633.
21
22
23
24 Lerner, J. S., Han, S., & Keltner, D. (2007). Feelings and Consumer Decision Making:
25 Extending the Appraisal-Tendency Framework. *Journal of Consumer Psychology*,
26 17(3), 181-187.
27
28
29
30 Lerner, J. S., & Keltner, D. (2000). Beyond valence: Toward a model of emotion-specific
31 influences on judgement and choice. *Cognition & emotion*, 14(4), 473-493.
32
33
34
35 Lerner, J. S., & Keltner, D. (2001). Fear, anger, and risk. *Journal of Personality and Social*
36 *Psychology*, 81(1), 146.
37
38
39
40 Li, S., Saayman, A., Stienmetz, J., & Tussyadiah, I. (2022). Framing effects of messages and
41 images on the willingness to pay for pro-poor tourism products. *Journal of Travel*
42 *Research*, 61(8), 1791-1807.
43
44
45
46
47 Li, Y., Yang, D., Sun, Y., & Wang, Y. (2021). Motivating recycling behavior—Which
48 incentives work, and why?. *Psychology & Marketing*, 38(9), 1525-1537.
49
50
51
52 Longmire, S. J., Chan, E. Y., & Lawry, C. A. (2021). Find me strength in things: Fear can
53 explain materialism. *Psychology & Marketing*, 38(12), 2247-2258.
54
55
56
57
58
59
60

- 1
2
3 Loureiro, S. M. C., Guerreiro, J., & Han, H. (2022). Past, present, and future of pro-
4
5 environmental behavior in tourism and hospitality: A text-mining approach. *Journal*
6
7 *of Sustainable Tourism*, 30(1), 258-278.
8
9
10 MacInnis, D. J., & De Mello, G. E. (2005). The concept of hope and its relevance to product
11
12 evaluation and choice. *Journal of marketing*, 69(1), 1-14.
13
14 Maclaran, P., & Chatzidakis, A. (2022). Breaking the silences: women in the history of
15
16 marketing thought and practice. In *Gendered Marketing* (pp. 21-43). Edward Elgar
17
18 Publishing.
19
20
21 Mahmoodi, J., Hille, S., Patel, M. K., & Brosch, T. (2021). Using rewards and penalties to
22
23 promote sustainability: Who chooses incentive-based electricity products and why?
24
25 *Journal of Consumer Behaviour*, 20(2), 381-398.
26
27
28 Marriott International Inc. (2019) "Sustainability happens here", Sheraton Phoenix
29
30 Downtown. Retrieved from:
31
32 [https://www.marriott.com/marriottassets/marriott/PHXGP/PDF/PHXGP_SHER_Gran](https://www.marriott.com/marriottassets/marriott/PHXGP/PDF/PHXGP_SHER_Grand_Phoenix_Downtown_Sustainability_Flyer.pdf)
33
34 [d_Phoenix_Downtown_Sustainability_Flyer.pdf](https://www.marriott.com/marriottassets/marriott/PHXGP/PDF/PHXGP_SHER_Grand_Phoenix_Downtown_Sustainability_Flyer.pdf)
35
36
37 McKercher, B. (1993). Some fundamental truths about tourism: Understanding tourism's
38
39 social and environmental impacts. *Journal of Sustainable Tourism*, 1(1), 6-16.
40
41
42 Mikayilov, J. I., Mukhtarov, S., Mammadov, J., & Azizov, M. (2019). Re-evaluating the
43
44 environmental impacts of tourism: does EKC exist? *Environmental Science and*
45
46 *Pollution Research*, 26(19), 19389-19402.
47
48
49 Miller, D., Merrilees, B., & Coghlan, A. (2015). Sustainable urban tourism: understanding
50
51 and developing visitor pro-environmental behaviours. *Journal of Sustainable*
52
53 *Tourism*, 23(1), 26-46.
54
55
56
57
58
59
60

- 1
2
3 Moulard, J. G., Kroff, M. W., & Folse, J. A. G. (2012). Unraveling consumer suspense: The
4 role of hope, fear, and probability fluctuations. *Journal of Business Research*, *65*(3),
5 340-346.
6
7
8
9
10 Muritala, B. A., Hernández-Lara, A. B., & Sánchez-Rebull, M. V. (2022). COVID-19
11 staycations and the implications for leisure travel. *Heliyon*, *8*(10).
12
13
14 Nastasoïu, A., & Vandenbosch, M. (2019). Competing with loyalty: How to design
15 successful customer loyalty reward programs. *Business Horizons*, *62*(2), 207-214.
16
17
18
19 Nosrati, S., Kim, S. S., & Leung, J. (2023). Moderating effects of cultural values on the
20 relationship between individual values and pro-environmental behavior. *Journal of*
21 *Hospitality and Tourism Management*, *57*, 158-169.
22
23
24
25
26 Nowak, M., Alnyme, O., & Heldt, T. (2023). Testing the effectiveness of increased frequency
27 of norm-nudges in encouraging sustainable tourist behaviour: a field experiment using
28 actual and self-reported behavioural data. *Journal of Sustainable Tourism*, 1-25.
29
30
31
32
33 Olsen, L. M., Andereck, K., & Vogt, C. (2021). Providing hope: influences of volunteer
34 tourism on program youth. *Journal of Sustainable Tourism*, *29*(8), 1403-1421.
35
36
37
38 Poels, K., & Dewitte, S. (2008). Hope and self-regulatory goals applied to an advertising
39 context: Promoting prevention stimulates goal-directed behavior. *Journal of Business*
40 *Research*, *61*(10), 1030-1040.
41
42
43
44
45 Poels, K., & Dewitte, S. (2019). The role of emotions in advertising: A call to action. *Journal*
46 *of Advertising*, *48*(1), 81-90.
47
48
49 Prayag, G., Hosany, S., Muskat, B., Del Chiappa, G., 2017. Understanding the relationships
50 between Tourists' emotional experiences, perceived overall image, satisfaction, and
51 intention to recommend. *Journal of Travel Research*, *56* (1), 41-54.
52
53
54
55
56
57
58
59
60

- 1
2
3 Raghunathan, R., & Pham, M. T. (1999). All negative moods are not equal: Motivational
4 influences of anxiety and sadness on decision making. *Organizational Behavior and*
5 *Decision Processes*, 79(1), 56-77.
6
7
8
9
10 Raghunathan, R., Pham, M. T., & Corfman, K. P. (2006). Informational properties of anxiety
11 and sadness, and displaced coping. *Journal of Consumer Research*, 32(4), 596-601.
12
13
14 Rahman, I., & Reynolds, D. (2019). The influence of values and attitudes on green consumer
15 behavior: A conceptual model of green hotel patronage. *International Journal of*
16 *Hospitality & Tourism Administration*, 20(1), 47-74.
17
18
19
20
21 Rosenbaum, M. S., & Massiah, C. (2011). An expanded servicescape perspective. *Journal of*
22 *Service Management*.
23
24
25
26 Ryu, G., & Feick, L. (2007). A penny for your thoughts: Referral reward programs and
27 referral likelihood. *Journal of marketing*, 71(1), 84-94.
28
29
30
31 Sandberg, B., Hurmerinta, L., & Leino, H. M. (2022). The interplay between customers'
32 incidental and integral affects in value experience. *Marketing Theory*,
33 14705931221099314.
34
35
36
37 Santos, V., Sousa, B., Ramos, P., & Valeri, M. (2022). Emotions and involvement in tourism
38 settings. *Current Issues in Tourism*, 25(10), 1526-1531.
39
40
41
42 Shen, L., Fishbach, A., & Hsee, C. K. (2015). The motivating-uncertainty effect: Uncertainty
43 increases resource investment in the process of reward pursuit. *Journal of Consumer*
44 *Research*, 41(5), 1301-1315.
45
46
47
48
49 Shen, L., Hsee, C. K., & Talloen, J. H. (2019). The fun and function of uncertainty: Uncertain
50 incentives reinforce repetition decisions. *Journal of Consumer Research*, 46(1), 69-
51 81.
52
53
54
55
56
57
58
59
60

- 1
2
3 Shi, H., Chen, R., & Xu, X. (2021). How reward uncertainty influences subsequent
4
5 donations: The role of mental accounting. *Journal of Business Research*, 132, 383-
6
7 391.
8
9
- 10 Sinha, M., Fukey, L. N., & Sinha, A. (2021). Artificial Intelligence and Internet of Things
11
12 readiness: inclination for hotels to support a sustainable environment. In *Cognitive*
13
14 *Computing for Human-Robot Interaction* (pp. 327-353). Academic Press.
15
16
- 17 Smith, C. A., & Ellsworth, P. C. (1985). Patterns of cognitive appraisal in emotion. *Journal*
18
19 *of Personality and Social Psychology*, 48(4), 813.
20
21
- 22 Steg, L., & Vlek, C. (2009). Encouraging pro-environmental behaviour: An integrative
23
24 review and research agenda. *Journal of Environmental Psychology*, 29(3), 309-317.
25
26
- 27 Stadlthanner, K. A., Andreu, L., Ribeiro, M. A., Font, X., & Mattila, A. S. (2022). The
28
29 effects of message framing in CSR advertising on consumers' emotions, attitudes, and
30
31 behavioral intentions. *Journal of Hospitality Marketing & Management*, 31(7), 777-
32
33 796.
34
35
- 36 Statista. (2023). Hong Kong: average hotel room rate by tariff level.
37
38 [https://www.statista.com/statistics/956217/hong-kong-average-hotel-room-rate-by-](https://www.statista.com/statistics/956217/hong-kong-average-hotel-room-rate-by-tariff-level/)
39
40 [tariff-level/](https://www.statista.com/statistics/956217/hong-kong-average-hotel-room-rate-by-tariff-level/)
41
42
- 43 Straker, K., Wrigley, C., & Rosemann, M. (2015). The role of design in the future of digital
44
45 channels: Conceptual insights and future research directions. *Journal of Retailing and*
46
47 *Consumer Services*, 26, 133-140.
48
49
- 50 Su, Q., & Li, F. (2022). Gain or loss? The congruence effect of message framing and mindset
51
52 on consumers' willingness to pay a premium for pro-environmental hotels. *Journal of*
53
54 *Sustainable Tourism*, 1-24.
55
56
- 57 Su, L., Wan, L. C., & Wyer Jr, R. S. (2018). The contrasting influences of incidental anger
58
59 and fear on responses to a service failure. *Psychology & Marketing*, 35(9), 666-675.
60

- 1
2
3 Sun, M., & Trudel, R. (2017). The effect of recycling versus trashing on consumption: Theory
4 and experimental evidence. *Journal of Marketing Research*, 54(2), 293-305.
5
6
7
8 Thomas, C., & Sharp, V. (2013). Understanding the normalisation of recycling behaviour and
9 its implications for other pro-environmental behaviours: A review of social norms and
10 recycling. *Resources, Conservation and Recycling*, 79, 11-20.
11
12
13
14 Tuerlan, T., Li, S., & Scott, N. (2021). Customer emotion research in hospitality and tourism:
15 conceptualization, measurements, antecedents and consequences. *International*
16 *Journal of Contemporary Hospitality Management*, 33(8), 2741-2772.
17
18
19
20 Rutherford, A. (2012). ANOVA and ANCOVA: a GLM approach. John Wiley & Sons.
21
22
23
24 Ryan, M. M., Moore, S. A., & Beckley, L. E. (2015). The effect of place attachment on pro-
25 environment behavioral intentions of visitors to coastal natural area tourist
26 destinations. *Journal of Travel Research*, 54(6), 730-743.
27
28
29
30 Üçok Hughes, M., Bandoni, W. K., & Pehlivan, E. (2016). Storygiving as a co-creation tool
31 for luxury brands in the age of the internet: a love story by Tiffany and thousands of
32 lovers. *Journal of Product & Brand Management*, 25(4), 357-364.
33
34
35
36
37 Van Lange, P. A. M., Higgins, E. T., & Kruglanski, A. W. (2011). *Handbook of Theories of*
38 *Social Psychology : Geographical Perspectives*. Sage.
39
40
41
42 <http://digital.casalini.it/9781446269008>
43
44
45 Venkatraman, V., Clithero, J. A., Fitzsimons, G. J., & Huettel, S. A. (2012). New scanner
46 data for brand marketers: How neuroscience can help better understand differences in
47 brand preferences. *Journal of Consumer Psychology*, 22(1), 143-153.
48
49
50
51 Walls, A. R., Okumus, F., & Wang, Y. (2011). Cognition and affect interplay: A framework
52 for the tourist vacation decision-making process. *Journal of Travel & Tourism*
53 *Marketing*, 28(5), 567-582.
54
55
56
57
58
59
60

- 1
2
3 Wan, C., Shen, G. Q., & Choi, S. (2017). Experiential and instrumental attitudes: Interaction
4 effect of attitude and subjective norm on recycling intention. *Journal of*
5
6 *Environmental Psychology*, 50, 69-79.
7
8
9
10 Wang, Q., Sun, Y., Zhu, J., & Zhang, X. (2018). The impact of uncertain rewards on
11
12 customers' recommendation intention in social networks. *Internet Research*. 28(4),
13
14 1029-1054.
15
16
17 Wang, J. C., Wang, Y.-C., & Tai, Y.-F. (2016). Systematic review of the elements and
18
19 service standards of delightful service. *International Journal of Contemporary*
20
21 *Hospitality Management*. 28(7), 1310-1337.
22
23
24 Wang, Q. C., Lou, Y. N., Liu, X., Jin, X., Li, X., & Xu, Q. (2023). Determinants and
25
26 mechanisms driving energy-saving behaviours of long-stay hotel guests: Comparison
27
28 of leisure, business and extended-stay residential cases. *Energy Reports*, 9, 1354-1365.
29
30
31 Wang, X., & Zhang, C. (2020). Contingent effects of social norms on tourists' pro-
32
33 environmental behaviours: The role of Chinese traditionality. *Journal of Sustainable*
34
35 *Tourism*, 28(10), 1646-1664.
36
37
38 Watson, D., & Clark, L. A. (1994). The PANAS-X: Manual for the positive and negative
39
40 affect schedule-expanded form.
41
42 <https://www2.psychology.uiowa.edu/faculty/clark/panas-x.pdf>
43
44
45 Wesselink, R., Blok, V., & Ringersma, J. (2017). Pro-environmental behaviour in the
46
47 workplace and the role of managers and organisation. *Journal of Cleaner*
48
49 *Production*, 168, 1679-1687.
50
51
52 Winterich, K. P., & Haws, K. L. (2011). Helpful hopefulness: The effect of future positive
53
54 emotions on consumption. *Journal of Consumer Research*, 38(3), 505-524.
55
56
57
58
59
60

- 1
2
3 Wyer, R. S., Dong, P., Huang, X., Huang, Z., & Wan, L. C. (2019). The Effect of Incidental
4 Emotions on Judgments and Behavior in Unrelated Situations: A Review. *Journal of*
5 *the Association for Consumer Research*, 4(2), 198-207.
6
7
8
9
10 Yang, B., & Mattila, A. S. (2020). Consumer responses to savings message framing. *Annals*
11 *of Tourism Research*, 84, 102998.
12
13
14 Yang, X., & Thøgersen, J. (2022). When people are green and greedy: A new perspective of
15 recycling rewards and crowding-out in Germany, the USA and China. *Journal of*
16 *Business Research*, 144, 217-235.
17
18
19
20
21 Ye, T., & Mattila, A. S. (2021). The effect of ad appeals and message framing on consumer
22 responses to plant-based menu items. *International Journal of Hospitality*
23 *Management*, 95, 102917.
24
25
26
27
28 Yoon, A., Jeong, D., Chon, J., & Yoon, J.-H. (2019). A study of consumers' intentions to
29 participate in responsible tourism using message framing and appeals. *Sustainability*,
30 11(3), 865.
31
32
33
34
35
36
37
38 Zhang, N., Jia, W., Wang, P., Dung, C. H., Zhao, P., Leung, K., ... & Li, Y. (2021). Changes
39 in local travel behaviour before and during the COVID-19 pandemic in Hong Kong.
40 *Cities*, 112, 103139.
41
42
43
44
45 Zou, L. W., Yim, C. K. B., & Chan, K. W. (2022). How firms can create delightful customer
46 experience? Contrasting roles of future reward uncertainty. *Journal of Business*
47 *Research*, 147, 477-490.
48
49
50
51
52
53
54
55
56
57
58
59
60