Check for updates

#### **OPEN ACCESS**

EDITED BY Miguel A. Sahagun, High Point University, United States

REVIEWED BY Aleksandra Terzić, Serbian Academy of Sciences and Arts, Serbia

\*CORRESPONDENCE Oliver Cruz-Milán ⊠ oliver.cruzmilan@tamucc.edu

SPECIALTY SECTION This article was submitted to Organizational Psychology, a section of the journal Frontiers in Psychology

RECEIVED 09 December 2022 ACCEPTED 25 January 2023 PUBLISHED 15 February 2023

#### CITATION

Cruz-Milán O (2023) Loyalty in the time of COVID-19: A review of the literature in tourism destination settings. *Front. Psychol.* 14:1119737. doi: 10.3389/fpsyg.2023.1119737

#### COPYRIGHT

© 2023 Cruz-Milán. This is an open-access article distributed under the terms of the Creative Commons Attribution License (CC BY). The use, distribution or reproduction in other forums is permitted, provided the original author(s) and the copyright owner(s) are credited and that the original publication in this journal is cited, in accordance with accepted academic practice. No use, distribution or reproduction is permitted which does not comply with these terms.

# Loyalty in the time of COVID-19: A review of the literature in tourism destination settings

## Oliver Cruz-Milán\*

Department of Management and Marketing, College of Business, Texas A&M University-Corpus Christi, Corpus Christi, TX, United States

Tourism destinations constitute a conglomerate of attractions, service providers, and retailers that make up the overall offerings and experiences that attract visitors. However, given the severe consequences that the COVID-19 pandemic has had on the tourism industry, it is crucial to appraise consumer loyalty towards destinations in the context of the coronavirus disruptions. An increasing number of academic works examining the factors that influence destination loyalty have been carried out since the pandemic breakout, but no evaluation of their cumulative results and findings has been offered in the literature. Therefore, this research conducts a review of studies that have empirically investigated the drivers of destination loyalty during the pandemic in diverse geographical settings. By analyzing 24 journal articles selected from the Web of Science (WoS) database, this work adds to the literature by providing an assessment of the state-of-the-art body of knowledge about the explanation and prediction of loyalty for tourism destinations in the context of COVID-19.

#### KEYWORDS

COVID-19, loyalty, destination, tourism, literature review, explanation, prediction, theory

# Introduction

Building consumer loyalty is an essential objective for managers and is among the core relational constructs that have drawn greater attention in marketing and consumer behavior (Keller, 2013; Solomon, 2015). For instance, the importance of loyalty in retailing has been investigated by marketing scholars as a way to understand its drivers and explanatory frameworks (Dunne et al., 2014). In a parallel form in which customer loyalty is developed for retailing businesses and other service providers, tourist loyalty can also be formed towards the places where people travel to. However, unlike conventional goods, services, and/or stores, tourism destinations represent products and experiences concentrated in a given geographical location, with numerous private and public stakeholders, and fragmented marketing activities by many entities (Gursoy et al., 2009; Pike, 2012). Destinations are bundles of complex, dynamic ecosystems in which economic forces, environmental settings, and visitor-resident interactions contribute to shape consumer attitudes and responses (Pike, 2005; Ritchie and Crouch, 2011). At the outset of 2020 the health pandemic caused by COVID-19 (or SARS-CoV-2) generated a worldwide crisis that suddenly disrupted the travel and tourism industry (World Tourism Organization, 2020). The sanitary measures imposed by authorities severely damaged tourism-reliant regions that suffered a drastic drop in visitors due to the suspension/reduction of operations and the fear of infection by travelers (Sigala, 2020; Fotiadis et al., 2021; Gössling et al., 2021). Against this backdrop, the way in which the coronavirus overall threat has affected the degree of consumer loyalty for tourism destinations remains unknown.

Destination loyalty can be defined as the "behavioral consistency of repeated visits to a destination fueled by a psychological desire to visit the destination "(Niininen, 2022, p. 870). Over the years, consumer loyalty has been studied in the travel and tourism academic literature

identifying the processes and phases of loyalty building. Based mostly on the works of Jacoby and Chestnut (1978) and Oliver (1999), loyalty in the context of destinations has been conceptualized in terms of attitudinal and behavioral dimensions by Back and Parks (2003), or as a composite combining both dimensions according to Oppermann (2000). Tourist attitudinal loyalty is usually operationalized through cognitive (thoughts/beliefs), affective (feelings/emotions), and conative (intentions/willingness) components, while behavioral loyalty is measured through overt actions (actual visits to the destination). In this respect, given the uniqueness and peculiarity of tourism contexts (Gartner, 2014; Williamson and Hassanli, 2022) and the need to better understand the impact of the pandemic on travel (World Travel and Tourism Council, 2021), the objective of this research is to provide an integrated, updated view of the body of knowledge generated about destination loyalty since COVID-19 appeared.

By conducting a review of empirical results from studies elaborated during the pandemic, this work contributes to identify the drivers of destination loyalty as the focal construct, supporting the advancement of marketing theory based on inductive-statistical explanations (Hunt, 2010). Understanding how different variables are organized in nomological networks to predict consumer behavior permits building theory by means of new hypothesis-testing, replication studies, and the potential to generate empirical generalizations (Colquitt and Zapata-Phelan, 2007; Corley and Gioia, 2011; Calder et al., 2019). This type of works represents a valuable contribution by synthetizing empirical results that extend the boundaries and conditions of extant knowledge, which adds to the development of theoretical frameworks in marketing and management (Whetten, 1989; Ladik and Stewart, 2008) particularly in an unprecedented scenario such as the COVID-19 pandemic (Yang et al., 2021). According to Williamson and Hassanli (2022), various types of destination loyalty are: homogeneous (to a single destination), horizontal (to other similar destinations), vertical (to providers at different levels of the tourism system), and experiential (to a holiday style, activity, or experience independent of a specific location). For the purpose of this work, the focus of the review is on homogeneous loyalty, reflected as the desire to return to the same, previously visited destination.

## **Review approach**

The review of the literature was conducted through the Web of Science (WoS) platform (JCR, 2022), as in recent marketing and tourism systematic analyses (e.g., Gupta et al., 2022; Liu et al., 2022). The search query of key terms in English ("loyalty" + "destination" + "COVID" + "tourism") specified the date ranges from November 1, 2019, the month when COVID-19 presumably appeared (Myoung, 2022) to November 1, 2022. The initial search yielded 57 records, of which 3 contained titles and/or abstracts in English, but their content was written in other languages (two in Spanish and one in German). Out of the 57, 33 works were excluded from further analysis because they did not comply with all the following criteria: (a) empirical research with data collected during the specified range period; (b) quantitative operationalization of the loyalty construct; (c) focused on tourism destinations, rather than individual products or business sectors (e.g., hotels, airlines, cruises); (d) framed in the context of the COVID-19 pandemic (e.g., research results and/or implications). The remaining 24 journal articles that were ultimately reviewed are provided in Table 1.

## **Results**

## **Descriptive analysis**

The analysis of articles shown in Table 1 revealed that all studies operationalized destination loyalty as attitudinal loyalty, with coefficients of determination (R<sup>2</sup>) ranging from 0.234 to 0.942. The outcome variables employed scale items corresponding to conative, affective, and/ or cognitive loyalty to elicit revisit intentions or likelihood to return to the same destination. The operationalization of destination loyalty typically included scale items referring to recommendation or positive word-of-mouth (WOM) about the destinations, combined with other revisit intentions items within the same loyalty construct. However, some investigations specified and operationalized tourists' recommendations or endorsements as additional, separate constructs in their models (e.g., Chebli et al., 2021; Kralikova et al., 2021; Koç et al., 2022; Suhartanto et al., 2022; Carvache-Franco et al., 2022a,b).

All 24 articles reported the use of survey-based methods for data collection (electronically and in-person), with samples ranging from 123 to 774 (average sample size = 382). As indicated in Table 1, the majority of the articles reported that their survey participants were domestic tourists, which is not surprising due to travel restrictions and border closures during 2020. Indeed, most studies that used samples of international tourist respondents collected their survey data later in 2021 (e.g., Otero-Gomez and Giraldo-Perez, 2022; Šerić and Mikulić, 2022; Carvache-Franco et al., 2022a,b). Of the reviewed studies, 7 utilized co-variance based structural equation modeling (CB-SEM), while 11 employed partial least squares structural equation modeling (PLS-SEM), in line with the growing popularity of PLS-SEM in tourism marketing research (Hair et al., 2021). The rest of the works reported other analysis techniques (e.g., multiple regression, cluster analysis, correlations). In terms of the geographical contexts, the investigated destinations correspond to countries in the Americas (North, Central, and South America), Europe, Northern Africa, the Middle East, as well as Asia (South, East, and Southeast Asia), reflecting the wide diversity of study settings in which the research projects were developed.

The reviewed studies were published mostly in tourism-oriented journals, some of which are included in the Australian Business Deans Council list (ABDC, 2019) rated "A\*" (Journal of Travel Research), rated "A" (Current Issues in Tourism, Journal of Destination Marketing & Management, Journal of Retailing and Consumer Services, Journal of Travel & Tourism Marketing, Tourism Recreation Research), or rated "B" (Tourism and Hospitality Research, Tourism Review). Three journals published more than one of the works reviewed: Sustainability (five articles), Journal of Destination Marketing & Management (three articles), and Current Issues in Tourism (two articles). The fact that two studies were published in Spanish language journals by Otero-Gomez and Giraldo-Perez (2022) in Revista Universidad & Empresa, and by Garcia-Reinoso et al. (2021) in El Periplo Sustentable reflects the growing interest of academics based in Latin America to disseminate their research to broader audiences through journals indexed in international databases (Cruz-Milán, 2014). The review identified recurrent theories and conceptual frameworks under which the hypotheses were developed. Examples of some well-known theories employed are Mehrabian and Russell's (1974) stimulus-organism-response (S-O-R) in Koç et al. (2022), Majeed et al. (2022), and Nie et al. (2022), Rogers' (1975) protection motivation theory (PMT) in Rather (2021) and Cambra-Fierro et al. (2022), or Ajzen's (1991) theory of planned

#### TABLE 1 Published research reviewed.

| Authors/<br>Journal  | Destination<br>context   | Sample<br>size | Sample<br>characteristics            | Data<br>collection<br>period | Analysis/<br>software                            | Loyalty<br>construct   | Variance<br>explained  |
|--|--|----------------|--------------------------------------|------------------------------|--|--|------------------------|
| Chebli et al.<br>(2021) Journal of<br>Tourism and<br>Services                          | Algeria (Sahara)   | n = 123        | Domestic tourists                    | January–February,<br>2021    | CB-SEM<br>(AMOS)                                 | Intention to<br>revisit: 1 item<br>(conative)                              | $R^2 = N/A$            |
| Zaman et al.<br>(2021) Cogent<br>Business &<br>Management                              | South Korea (various destinations)   | n = 266        | Expatriates living in<br>South Korea | January–May, 2020            | PLS-SEM<br>(SmartPLS)                            | Destination<br>loyalty: 3 items<br>(cognitive,<br>affective,<br>conative)  | R <sup>2</sup> = 0.355 |
| Hassan and<br>Soliman (2021)<br>Journal of<br>Destination<br>Marketing &<br>Management | Egypt  | n = 543        | Domestic tourists                    | April–May, 2020              | PLS-SEM<br>(WarpPLS)                             | Revisit intention:<br>3 items (conative,<br>affective)                     | R <sup>2</sup> = 0.690 |
| Garcia-Reinoso<br>et al. (2021) El<br>Periplo Sustentable                              | Ecuador (Manta)  | n = 484        | Domestic tourists                    | April–May, 2020              | Cluster analysis<br>(SPSS)                       | Intentions to<br>return: (items not<br>shown in article)                   | $R^2 = N/A$            |
| Woosnam et al.<br>(2021) Journal of<br>Travel & Tourism<br>Marketing                   | Last destination<br>visited during the<br>pandemic by<br>participants in USA | n =600         | Domestic tourists                    | June–August, 2020            | CB-SEM (EQS)                                     | Destination<br>loyalty: 3 items<br>(conative)                              | R <sup>2</sup> = 0.360 |
| Han et al. (2021)<br>Frontiers in<br>Psychology  | China  | n =456         | Domestic tourists                    | December, 2020               | CB-SEM<br>(AMOS),<br>mediation<br>(PROCESS)      | Tourist loyalty: 3<br>items (conative)                                     | R <sup>2</sup> = 0.942 |
| Rather (2021)<br>Journal of<br>Destination<br>Marketing &<br>Management                | India (Jammu and<br>Kashmir)   | n = 325        | Not specified                        | June–July, 2020              | PLS-SEM<br>(SmartPLS),<br>mediation<br>(PROCESS) | Revisit intention:<br>3 items (conative,<br>affective)                     | R <sup>2</sup> = 0.690 |
| Kralikova et al.<br>(2021) European<br>Countryside                                     | Czech Republic<br>(Moravian wine<br>region)                                  | n = 345        | Domestic tourists                    | May–June, 2020               | OLS multiple<br>regression                       | Revisit intention:<br>(items not shown<br>in article)                      | $R^2 = N/A$            |
| Suhartanto et al.<br>(2022) <i>Tourism</i><br>Recreation<br>Research                   | Indonesia  | n = 300        | Domestic tourists                    | January–February,<br>2021    | PLS-SEM<br>(SmartPLS)                            | Intention to visit<br>the destination: 2<br>items (conative)               | R <sup>2</sup> = 0.485 |
| Manchanda and<br>Deb (2022)<br>Current Issues in<br>Tourism                            | Destination visited<br>through virtual<br>reality tourism<br>applications    | n =484         | Not specified                        | November–<br>December, 2020  | CB-SEM<br>(AMOS)                                 | Intention to<br>physically visit the<br>destination: 3<br>items (conative) | $R^2 = N/A$            |
| Tu et al. (2022)<br>SAGE Open  | China (Gaochun<br>District)  | n = 375        | Domestic tourists                    | December, 2020               | CB-SEM<br>(AMOS)                                 | Tourist behavioral<br>intentions: 5 items<br>(conative)                    | $R^2 = N/A$            |
| Torabi et al.<br>(2022)<br>Sustainability  | Iran (Tehran)  | <i>n</i> = 380 | Domestic tourists                    | May, 2020                    | PLS-SEM<br>(SmartPLS)                            | Intention to<br>revisit: 3 items<br>(conative)                             | $R^2 = 0.373$          |

(Continued)

### TABLE 1 (Continued)

| Authors/<br>Journal   | Destination<br>context  | Sample<br>size | Sample<br>characteristics                | Data<br>collection<br>period  | Analysis/<br>software                         | Loyalty<br>construct   | Variance<br>explained  |
|---|---|----------------|--|---|---|--|------------------------|
| Koç et al. (2022)<br>Journal of<br>Destination<br>Marketing &<br>Management                       | Turkey (Pamukkale)  | n = 256        | Domestic tourists                        | August–September,<br>2020   | PLS-SEM                                       | Revisit intention:<br>5 items (conative)                                   | R <sup>2</sup> = 0.296 |
| Papadopoulou<br>et al. (2022)<br>Journal of Travel<br>Research                                    | Various<br>Mediterranean<br>destinations                                  | n = 582        | Domestic and international tourists      | May, 2020   | CB-SEM<br>(Mplus),<br>moderation<br>(PROCESS) | Intention to<br>revisit and<br>recommend: 5<br>items (conative)            | R <sup>2</sup> = 0.820 |
| Lin et al. (2022)<br>Current Issues in<br>Tourism   | Destination visited<br>during the pandemic<br>by participants in<br>China | n = 283        | Domestic tourists                        | November, 2021  | CB-SEM<br>(AMOS)                              | Destination<br>loyalty: 4<br>(conative,<br>cognitive)                      | $R^2 = N/A$            |
| Nie et al. (2022)<br>Journal of<br>Destination<br>Marketing &<br>Management                       | China (Nanjing)   | n = 535        | Domestic tourists                        | April–May, 2021   | PLS-SEM<br>(SmartPLS)                         | Loyalty: 5 items<br>(conative)   | R <sup>2</sup> = 0.323 |
| Otero-Gomez and<br>Giraldo-Perez<br>(2022) Revista<br>Universidad &<br>Empresa                    | Colombia<br>(Villavicencio)   | <i>n</i> = 130 | International tourists                   | August–September,<br>2021   | Spearman's rho<br>correlations<br>(JASP)      | Revisit intention:<br>4 items (conative)                                   | R <sup>2</sup> = N/A   |
| Carvache-Franco<br>et al. (2022a)<br><i>Sustainability</i>  | Ecuador (Santa<br>Elena)  | <i>n</i> = 318 | Domestic and international tourists      | April–June, 2021  | Multiple<br>regression (SPSS)                 | Return intentions:<br>1 item (conative)                                    | R <sup>2</sup> = 0.358 |
| Carvache-Franco<br>et al. (2022b)<br><i>Sustainability</i>  | Costa Rica (Jacó)   | n = 304        | Domestic and international tourists      | June, 2021  | Multiple<br>regression (SPSS)                 | Return intentions:<br>1 item (conative)                                    | $R^2 = 0.234$          |
| Lee and Kim<br>(2022)<br><i>Sustainability</i>  | South Korea   | n = 774        | International students in<br>South Korea | Not specified. The<br>study<br>operationalized<br>constructs related<br>to COVID-19 | PLS-SEM<br>(SmartPLS)                         | Place loyalty: 4<br>items (conative)                                       | R <sup>2</sup> = 0.423 |
| Cambra-Fierro<br>et al. (2022)<br>European Research<br>on Management<br>and Business<br>Economics | Peru (Lima)   | n = 250        | Not specified                            | December,<br>2020-January, 2021   | PLS-SEM<br>(SmartPLS)                         | Destination<br>loyalty: 4 items<br>(conative,<br>affective)                | R <sup>2</sup> = 0.435 |
| Majeed et al.<br>(2022) Tourism<br>and Hospitality<br>Research                                    | Destination<br>previously visited by<br>participants in China             | n = 579        | Not specified                            | October, 2020   | EFA and CFA                                   | Destination brand<br>choice / loyalty: 5<br>items (conative,<br>cognitive) | $R^2 = N/A$            |
| Šerić and Mikulić<br>(2022) <i>Tourism</i><br><i>Review</i>                                       | Croatia   | n = 333        | International tourists                   | Summer–Fall, 2021   | PLS-SEM                                       | Brand loyalty: 4<br>items (cognitive,<br>affective,<br>conative)           | $R^2 = N/A$            |

(Continued)

#### TABLE 1 (Continued)

| Authors/<br>Journal | Destination<br>context | Sample<br>size | Sample<br>characteristics | Data<br>collection<br>period | Analysis/<br>software | Loyalty<br>construct | Variance<br>explained |
|---------------------|------------------------|----------------|---------------------------|------------------------------|-----------------------|----------------------|-----------------------|
| Huete-Alcocer       | Spain (Córdoba)        | <i>n</i> = 154 | Not specified             | November, 2021               | PLS-SEM               | Loyalty to           | $R^2 = 0.604$         |
| and Hernandez-      |                        |                |                           |                              | (SmartPLS)            | destination: 4       |                       |
| Rojas (2022)        |                        |                |                           |                              |                       | items (conative)     |                       |
| Journal of          |                        |                |                           |                              |                       |                      |                       |
| Retailing and       |                        |                |                           |                              |                       |                      |                       |
| Consumer Services   |                        |                |                           |                              |                       |                      |                       |

Journal titles are shown in italics. Software used for statistical analysis are in parentheses when reported. EFA = Exploratory factor analysis; CFA = Confirmatory factor analysis; CB-SEM = Covariance-based structural equation modeling; PLS-SEM = Partial least squares structural equation modeling; OLS=Ordinary Least Square; R2 = Coefficient of determination; N/A = Not available.



behavior (TPB) in Torabi et al. (2022), adding to the integration of research findings with higher-level theoretical explanations (Hunt, 2010).

# Predictors of destination loyalty

The review of the research results reported in the articles reveal a variety of constructs that predict destination loyalty as illustrated in Figure 1. The determinants of destination loyalty found as statistically significant with available effects as Beta coefficients (Vogt and Johnson, 2016) were: satisfaction ( $\beta$ =0.790) by Papadopoulou et al. (2022); destination image ( $\beta$ =0.530) by Zaman et al. (2021); emotional and functional value ( $\beta$ =0.477) by Carvache-Franco et al. (2022); perceived values ( $\beta$ =0.382) and emotions ( $\beta$ =0.434) by Tu et al. (2022); happiness

( $\beta$  not reported) by Kralikova et al. (2021); cultural-archaeological and sun-beach motivations ( $\beta$  not reported) by Garcia-Reinoso et al. (2021); emotional solidarity's dimensions of feeling welcomed ( $\beta$ =0.560), emotional closeness ( $\beta$ =0.240), and sympathetic understanding ( $\beta$ =0.530) by Woosnam et al. (2021); tourists' cultural intelligence ( $\beta$ =0.166) by Zaman et al. (2021); destination experiencescape's dimensions of key attractions ( $\beta$ =0.250) auxiliary elements ( $\beta$ =0.380), and atmosphere ( $\beta$ =0.230) by Lin et al. (2022); and the overall consumer-based brand equity (CBBE) of the destination ( $\beta$ =0.590) by Otero-Gomez and Giraldo-Perez (2022).

While the previously mentioned constructs are among those usually found in the tourism marketing and destination loyalty literature, other research models examined the effects of constructs more closely operationalized to measure consumers' perceptions and attitudes specifically related to COVID-19. For instance, Otero-Gomez and Giraldo-Perez (2022) demonstrated the impact of information posted on social media about the destination during the pandemic ( $\beta$ =0.263) on destination loyalty. The study by Rather (2021) also found the effect of social media information about the destination ( $\beta$ =0.610) as an antecedent of tourist's engagement, which in turn had an impact ( $\beta$ =0.630) on destination loyalty, exhibiting a partial mediation. In Rather's (2021) work, the impact of engagement on destination loyalty was negatively moderated by risk of traveling during COVID-19 (-0.032) and fear of COVID-19 (-0.037). Research by Hassan and Soliman (2021) examined a model in which loyalty was determined by the destination's reputation ( $\beta$ =0.367), social responsibility ( $\beta$ =0.227), and tourists' trust ( $\beta$ =0.293). Hassan and Soliman (2021) also found that tourists' fear of COVID-19 moderated the effects of social responsibility (0.143), reputation (-0.121) and trust (-0.075) on destination loyalty.

Han et al. (2021) investigated destination loyalty predicted by the degree of tourism public health service quality ( $\beta = 0.172$ ), tourists' trust  $(\beta = 0.240)$ , and satisfaction with the destination  $(\beta = 0.615)$ . The model showed that the latter two constructs mediated the effects between public health service quality and destination loyalty. Chebli et al. (2021) found tourists' loyalty was determined by satisfaction ( $\beta = 0.688$ ), which in turn was preceded by the perceived quality's dimensions of physical/ scenic environment ( $\beta$ =0.233), relational environment ( $\beta$ =0.213), entertainment ( $\beta = -0.881$ ) and reliability/governance ( $\beta = 0.363$ ) at the destination. Similarly, the research by Cambra-Fierro et al. (2022) concluded that destination loyalty is explained by perceived quality  $(\beta = 0.660)$ , which in turn is predicted by the destination's image  $(\beta = 0.543)$  and perceived health safety  $(\beta = 0.194)$  producing indirect (mediation) effects. Other constructs specifically operationalized for the pandemic context identified in the review were the degree of consistency of integrated marketing communications (IMC) as a safe destination ( $\beta$ =0.408) examined by Šerić and Mikulić (2022), and the biosecurity  $(\beta = 0.185)$  and relaxation  $(\beta = 0.404)$  motivations used in the model by Carvache-Franco et al. (2022a).

The perceived crowding at destinations was found to negatively impact ( $\beta = -0.180$ ) tourist's destination loyalty in the research of Papadopoulou et al. (2022), and the relationship is moderated by overtourism awareness ( $\beta$  = 0.300). Similarly, the model estimated by Nie et al. (2022) revealed destination loyalty not only influenced by the extent of crowding at the destination ( $\beta = -0.144$ ), but also by its perceived popularity ( $\beta$ =0.172) and attractiveness ( $\beta$ =0.464). Interestingly, a moderation through multi-group analysis (MGA) comparing COVID-19 vaccination status (vaccinated vs. non-vaccinated) yielded a greater, positive effect of attractiveness on loyalty in tourists who had been vaccinated. The study by Lee and Kim (2022) demonstrated the impact of cognitive place image ( $\beta = 0.170$ ) and affective place image ( $\beta = 0.535$ ) as immediate antecedents of destination loyalty. In the same model, the authors found cognitive place image predicted by social risks of COVID-19 ( $\beta$ =-0.135) and personal risks of COVID-19 ( $\beta$ =0.140), while the affective place image was determined by social risks perceptions of COVID-19 ( $\beta = -0.119$ ) through the assessment of mediation effects. Similarly, Koç et al. (2022) evidenced the impact of the positive emotions such as joy ( $\beta = 0.250$ ) and positive surprise ( $\beta = 0.201$ ) on destination loyalty, and demonstrated that the influence of negative tourist-to-tourist interaction at the destination on loyalty is mediated by joy (-0.076).

Three of the reviewed works addressed technological innovations used by consumers and also as part of the destination's offerings. Suhartanto et al. (2022) showed the influence that virtual reality (VR) has on intentions to physically "return" to the destination as determined by experience with VR system ( $\beta$  = 0.186), experience with VR attraction ( $\beta$ =0.178), and satisfaction with VR ( $\beta$ =0.401). Manchanda and Deb (2022) also researched the use of multisensory VR technology and found destination loyalty predicted by VR immersion ( $\beta = 0.479$ ) and satisfaction with VR ( $\beta$ =0.096), with the statistically significant moderation of health risk (-0.477) between VR immersion and loyalty. Further, Manchanda and Deb (2022) found partial mediation effects of satisfaction with VR between VR immersion and destination loyalty, and of VR loyalty between satisfaction with VR and destination loyalty. Torabi et al. (2022) operationalized loyalty towards destinations with smart tourism technologies (STTs), which was determined by memorable experiences with STT ( $\beta$  = 0.421) and satisfaction with STT  $(\beta = 0.243)$ . Another special case of loyalty operationalization was in the research by Huete-Alcocer and Hernandez-Rojas (2022), who found cuisine-based destination loyalty formed by the overall image of the destination ( $\beta$  = 0.219), its local gastronomy ( $\beta$  = 0.251), and satisfaction with restaurants ( $\beta$ =0.403), all of which are in turn predicted by COVID-19 safety measures at restaurants. Finally, Majeed et al. (2022) developed the destination brand image and tourist behavior (DBITB) scale which included a dimension corresponding to destination choice/ loyalty, but no prediction of external constructs was reported.

## Conclusion

Due to the lack of a synthesis about research on tourism destination loyalty in COVID-19 settings, a literature review was conducted by examining 24 journal articles published in 2021 and 2022. Although the search for studies encompassed the time period since the coronavirus appeared, none of the 24 studies was published with an assigned volume/issue during 2020. It seems logical that when the pandemic crisis first broke out early in 2020 (first epidemic wave), many authors devoted their work to design, execute, write, and submit their research for peer-review, which ultimately led to final journal publication in the following years. In this respect, it should be noted that the effects of the constructs in the estimated loyalty models could have been influenced by the distinct time periods in which survey-data was obtained for each study. The perceived threat of infection according to fluctuations in coronavirus waves (upward or downward trends) has an impact on tourists' risk assessments and intentions to travel (Fotiadis et al., 2021). Considering the lack of consensus on the criteria for determining the duration of epidemic waves (Zhang et al., 2021) which manifest heterogeneously across countries depending on COVID-19 variants (Dhama et al., 2023) and other factors (e.g., geography, population, institutional measures, vaccination rates), it is uncertain the extent to which destination loyalty was affected by the timing in which data was collected in each country.

While some of the articles studied destination loyalty drawing from existing models in the marketing and tourism literature framed within the context of COVID-19 impacts, others works hypothesized moderation and/or mediation effects with new constructs specifically relevant to the pandemic disruptions (e.g., Han et al., 2021; Hassan and Soliman, 2021; Rather, 2021; Cambra-Fierro et al., 2022; Lee and Kim, 2022; Manchanda and Deb, 2022; Nie et al., 2022; Papadopoulou et al., 2022). The overall results from the reviewed models show the substantial impact that some drivers continue to have on loyalty, as exhibited by the effects from destination satisfaction ( $\beta$ =0.790) by Papadopoulou et al. (2022) and ( $\beta$ =0.688) by Chebli et al. (2021), perceived quality ( $\beta$ =0.660) by Cambra-Fierro et al. (2022), engagement ( $\beta$ =0.630) by

Rather (2021), or destination image ( $\beta$ =0.530) by Zaman et al. (2021). This serves as corroboration about key constructs that meta-analytic studies prior to the pandemic identified as determinant on destination loyalty, such as satisfaction (Ladeira et al., 2016) or destination image (Zhang et al., 2014). Further, despite the various effects induced by the novel coronavirus-related constructs were generally smaller (e.g., perceived health safety, destination crowding, risks and fear of COVID-19, vaccination status), such findings add to the literature by providing evidence about their role in swaying tourists' loyalty in pandemic contexts. This is because the incorporation of such variables in mediation and conditional process models allows to enhance the prediction of the focal outcomes (Woodside, 2017), and in this case contributes to the better explanation of loyalty and thus a greater understanding of phenomena and theory building (Kumar et al., 2013).

Nonetheless, it appears that loyalty towards destinations in some parts of the world could have been additionally influenced by the restrictions imposed on overseas travel to certain regions during the pandemic. This is suggested by the large variance explained in the loyalty outcomes reported for highly populated countries with significant domestic markets such as China (Han et al., 2021), India (Rather, 2021), or some in the European area (Papadopoulou et al., 2022) that are typically strong outbound tourism countries. For instance, the border closures in some countries produced an inflow of foreign travelers to other destinations with little restrictive health controls, as was the case of the Mexican Caribbean region in which returning visitors became a decisive factor to keep economic and business activity during the pandemic (Cruz-Milán and Lagunas-Puls, 2021). In this respect, sanitary-related policies established by authorities along with travelers' cautionary measures seem to give way to emerging models of behavior conditioned by pandemic threats, requiring research programs to better understand how tourist segments and their loyalty towards destination may be altered (Zenker and Kock, 2020; Miao et al., 2021).

## Limitations and further research

The literature review was performed based on the records provided by the Web of Science (WoS) database derived from key term queries in English. Therefore, studies that could have been obtained by searching key terms in other languages were not included in the review. Further, the 24 works analyzed correspond to studies published in the form of journal articles, so other types of research in books, chapters, conference proceedings, or dissertations/theses were out of the scope of the review. The findings of the studies were based on convenience samples, which calls for caution in inferring generalizations given the limitations of non-probabilistic sampling (Vogt and Johnson, 2016). In terms of potential research avenues, the reviewed models estimated the effects of some constructs typically specified in the literature (e.g., satisfaction, trust, values), but other constructs such as commitment or involvement in the loyalty explanation chain could be incorporated in future studies

# References

(Vásquez-Párraga and Sahagún, 2020). Additionally, since none of the investigations employed measures of behavioral loyalty variables in the analyses, further research is necessary using actual visitation through self-reported measures (e.g., post-trip surveys), secondary data (e.g., tourist arrival records) or big data analytics (e.g., GPS-mobility).

The review of journal articles found that only one of the examined models specified cognitive and affective dimensions as drivers of destination loyalty (Lee and Kim, 2022). Hence, future studies may assess the impact of health and safety risks on consumer loyalty encompassing other constructs along the cognitive-affective routes in the formation of CBBE (Keller, 2016) in the context of tourism destinations (Tasci, 2021). Similarly, this review identified that one of the works investigated destination loyalty in terms of the value provided by the gastronomic and restaurant offerings (Huete-Alcocer and Hernandez-Rojas, 2022), which calls for further research exploring the specific role of other businesses and retailers (e.g., hotels, entertainment venues, shopping centers, theme parks) in building tourism destination loyalty. It is also recommended to implement longitudinal research designs, or studies through experimental/quasi-experimental approaches (Stoner et al., 2022) as a way to better ascertain cause-effect relationships (Kerlinger and Lee, 2000; Hunt, 2010).

## Author contributions

OC-M conceived, designed the concept, collected the data, wrote the manuscript, and read and agreed to the published version of the manuscript.

## Funding

This publication was supported by the TAMU-CC Open Access Publication Fund.

# Conflict of interest

The author declares that the research was conducted in the absence of any commercial or financial relationships that could be construed as a potential conflict of interest.

## Publisher's note

All claims expressed in this article are solely those of the authors and do not necessarily represent those of their affiliated organizations, or those of the publisher, the editors and the reviewers. Any product that may be evaluated in this article, or claim that may be made by its manufacturer, is not guaranteed or endorsed by the publisher.

ABDC (2019). Australian business deans council's journal quality list. Available at: https://abdc.edu.au/research/abdc-journal-quality-list/ (Accessed November 3, 2022).

Ajzen, I. (1991). The theory of planned behavior. Organ. Behav. Hum. Decis. Process. 50, 179–211. doi: 10.1016/0749-5978(91)90020-T

Back, K.-J., and Parks, S. C. (2003). A brand loyalty model involving cognitive, affective, and conative brand loyalty and customer satisfaction. *J. Hosp. Tour. Res.* 27, 419–435. doi: 10.1177/10963480030274003

Calder, B. J., Brendl, M., and Tybout, A. M. (2019). "Integrating effects and theory in research and application" in *Handbook of research methods in consumer psychology*. eds. F. R. Kardes, P. M. Herr and N. Schwarz (New York: Routledge), 419–437.

Cambra-Fierro, J. J., Fuentes-Blasco, M., Huerta-Alvarez, R., and Olavarria-Jaraba, A. (2022). Destination recovery during COVID-19 in an emerging economy: insights from Peru. *Eur. Res. Manag. Bus. Econ.* 28:100188. doi: 10.1016/j.iedeen.2021. 100188

Carvache-Franco, M., Contreras-Moscol, D., Orden-Mejia, M., Carvache-Franco, W., Vera-Holguin, H., and Carvache-Franco, O. (2022a). Motivations and loyalty of the demand for adventure tourism as sustainable travel. *Sustainability* 14:8472. doi: 10.3390/su14148472

Carvache-Franco, M., Viquez-Paniagua, A. G., Carvache-Franco, W., Perez-Orozco, A., and Carvache-Franco, O. (2022b). Perceived value in sustainable coastal and marine destinations: a study of Jacó in Costa Rica. *Sustainability* 14:8569. doi: 10.3390/su14148569

Chebli, A., Kadri, B., and Ben Said, F. (2021). Promotion of domestic tourism by enhancing the practice of alternative tourism as a quality measure to satisfy and retain National Tourists. *JoTS* 12, 61–85. doi: 10.29036/jots.v12i23.274

Colquitt, J. A., and Zapata-Phelan, C. P. (2007). Trends in theory building and theory testing: a five-decade study of the academy of management journal. *Acad. Manag. J.* 50, 1281–1303. doi: 10.5465/amj.2007.28165855

Corley, K. G., and Gioia, D. A. (2011). Building theory about theory building: what constitutes a theoretical contribution? *Acad. Manag. Rev.* 36, 12–32. doi: 10.5465/amr.2009.0486

Cruz-Milán, O. (2014). "La Construcción Teórica en la Investigación en Administración y Mercadotecnia Turística en México" in De la Dimensión Teórica al Abordaje Empírico del Turismo en México: Perspectivas Multidisciplinarias. eds. J. C. Monterrubio-Cordero and Á. López-López (Mexico: Instituto de Geografía-UNAM and UAEM), 37-50.

Cruz-Milán, O., and Lagunas-Puls, S. (2021). Effects of COVID-19 on variations of taxpayers in tourism-reliant regions: the case of the Mexican Caribbean. *J. Risk Financ. Manag.* 14:578. doi: 10.3390/jrfm14120578

Dhama, K., Nainu, F., Frediansyah, A., Yatoo, M. I., Mohapatra, R. K., Chakraborty, S., et al. (2023). Global emerging omicron variant of SARS-CoV-2: impacts, challenges and strategies. *J. Infect. Public Health* 16, 4–14. doi: 10.1016/j.jiph.2022.11.024

Dunne, P. M., Lusch, R. F., and Carve, J. R. (2014). Retailing. 8th Edn. Mason, OH: South-Western/Cengage.

Fotiadis, A., Polyzos, S., and Huan, T.-C. (2021). The good, the bad and the ugly on COVID-19 tourism recovery. *Ann. Tour. Res.* 87:103117. doi: 10.1016/j.annals. 2020.103117

Garcia-Reinoso, N., Blanco-Gonzalez, B., and Quintero-Ichazo, Y. (2021). Factores determinantes en la comercialización de productos turísticos en el cantón Manta, Manabí. *EPS* 41, 83–109. doi: 10.36677/elperiplo.v0i41.12234

Gartner, W. C. (2014). Brand equity in a tourism destination. *Place Brand. Public Dipl.* 10, 108–116. doi: 10.1057/pb.2014.6

Gössling, S., Scott, D., and Hall, C. M. (2021). Pandemics, tourism and global change: a rapid assessment of COVID-19. *J. Sustain. Tour.* 29, 1–20. doi: 10.1080/09669582. 2020.1758708

Gupta, D. G., Shin, H., and Jain, V. (2022). Luxury experience and consumer behavior: a literature review. *Mark. Intell. Plan.* doi: 10.1108/MIP-12-2021-0438

Gursoy, D., Baloglu, S., and Chi, C. G. (2009). Destination competitiveness of middle eastern countries: an examination of relative positioning. *Anatolia* 20, 151–163. doi: 10.1080/13032917.2009.10518901

Hair, J. F., Hult, G. T. M., Ringle, C. M., Sarstedt, M., Danks, N. P., and Ray, S. (2021). "An introduction to structural equation modeling" in *Partial least squares structural equation modeling (PLS-SEM) using R: a workbook* (Cham: Springer), 1–29.

Han, J. Y., Zuo, Y. F., Law, R., Chen, S. R., and Zhang, M. (2021). Service quality in tourism public health: trust, satisfaction, and loyalty. *Front. Psychol.* 12:731279. doi: 10.3389/fpsyg.2021.731279

Hassan, S. B., and Soliman, M. (2021). COVID-19 and repeat visitation: assessing the role of destination social responsibility, destination reputation, holidaymakers? Trust and fear arousal. *J. Destin. Mark. Manag.* 19:100495. doi: 10.1016/j.jdmm.2020.100495

Huete-Alcocer, N., and Hernandez-Rojas, R. D. (2022). Do SARS-CoV-2 safety measures affect visitors experience of traditional gastronomy, destination image and loyalty to a world Heritage City? *J. Retail. Consum. Serv.* 69:103095. doi: 10.1016/j.jretconser.2022.103095

Hunt, S.D. (2010). Marketing theory: Foundations, controversy, strategy, resourceadvantage theory, M.E. Sharpe, Armonk.

Jacoby, J., and Chestnut, R. W. (1978). *Brand loyalty: Measurement and management*. New York: John Wiley.

JCR (2022). Journal Citation Reports Web of Science. Clarivate.

Keller, K.L. (2013). Strategic Brand Management: Building, measuring, and managing brand equity (4th ed.) Upper Saddle River: Pearson–Prentice Hall.

Keller, K. L. (2016). Reflections on customer-based brand equity: perspectives, progress, and priorities. AMS Rev. 6, 1–16. doi: 10.1007/s13162-016-0078-z

Kerlinger, F.N., and Lee, H.B. (2000). Foundations of behavioral research, 4th ed., Cengage, Belmont.

Koç, B., Kucukergin, K. G., and Dimanche, F. (2022). How destructive are negative tourist-to-tourist interactions despite the mitigating effect of optimism? *J. Destin. Mark. Manag.* 23:100693. doi: 10.1016/j.jdmm.2022.100693

Kralikova, A., Kubat, P., and Ryglova, K. (2021). Visitors' happiness and loyalty in the Morovian wine region. *Eur. Countrys.* 13, 750–767. doi: 10.2478/euco-2021-0040

Kumar, V., Pozza, I. D., and Ganesh, J. (2013). Revisiting the satisfaction-loyalty relationship: empirical generalizations and directions for future research. *J. Retail.* 89, 246–262. doi: 10.1016/j.jretai.2013.02.001

Ladeira, W. J., Santini, F. O., Araujo, C. F., and Sampaio, C. H. (2016). A meta-analysis of the antecedents and consequences of satisfaction in tourism and hospitality. *J. Hosp. Mark. Manag.* 25, 975–1009. doi: 10.1080/19368623.2016.1136253

Ladik, D. M., and Stewart, D. W. (2008). The contribution continuum. J. Acad. Mark. Sci. 36, 157–165. doi: 10.1007/s11747-008-0087-z

Lee, N., and Kim, B. S. (2022). Can international Students' risk perception and place image create an advantage in safeguarding place loyalty in post-COVID-19 tourism? *Sustainability* 14:10633. doi: 10.3390/su141710633

Lin, H. X., Shi, S., and Gursoy, D. (2022). Destination experiencescape: conceptualization and scale development amid COVID-19 pandemic. *Curr. Issue Tour.* 25, 4047–4074. doi: 10.1080/13683500.2022.2075716

Liu, A., Kim, Y. R., and Song, H. (2022). Toward an accurate assessment of tourism economic impact: a systematic literature review. *An. Tour. Res. Emp. Insights* 3:100054. doi: 10.1016/j.annale.2022.100054

Majeed, S., Zhou, Z. M., and Kim, W. G. (2022). Destination brand image and destination brand choice in the context of health crisis: scale development. *Tour. Hosp. Res.*:146735842211267. doi: 10.1177/14673584221126798

Manchanda, M., and Deb, M. (2022). Effects of multisensory virtual reality on virtual and physical tourism during the COVID-19 pandemic. *Curr. Issue Tour.* 25, 1748–1766. doi: 10.1080/13683500.2021.1978953

Mehrabian, A., and Russell, J. A. (1974). An approach to environmental psychology. Cambridge, MA: The MIT Press.

Miao, L., Im, J., Fu, X., Kim, H., and Zhang, Y. E. (2021). Proximal and distal post-COVID travel behavior. *Ann. Tour. Res.* 88:103159. doi: 10.1016/j.annals.2021.103159

Myoung, J. (2022). Two years of COVID-19 pandemic: where are we now? *J. Microbiol.* 60, 235–237. doi: 10.1007/s12275-022-1679-x

Nie, Z. H., Xu, L., Zhang, H. L., Cao, Y. H., Zhang, C., Pan, J. X., et al. (2022). Crowding and vaccination: tourist? two-sided perception on crowding and the moderating effect of vaccination status during COVID-19 pandemic. *J. Destin. Mark. Manag.* 24:100705. doi: 10.1016/j.jdmm.2022.100705

Niininen, O. I. (2022). "Destination loyalty" in *Encyclopedia of tourism management and marketing*. ed. D. Buhalis (Cheltenham, UK: Edward Elgar), 870-872.

Oliver, R. L. (1999). Whence consumer loyalty? J. Mark. 63, 33-44. doi: 10.1177/00222429990634s105

Oppermann, M. (2000). Tourism destination loyalty. J. Travel Res. 39, 78-84. doi: 10.1177/004728750003900110

Otero-Gomez, M. C., and Giraldo-Perez, W. (2022). Medición del valor de marca basado en las percepciones del turista internacional: una investigación sobre Villavicencio (Colombia). *Revunivempresa* 24, 1–23. doi: 10.12804/revistas.urosario.edu.co/ empresa/a.11133

Papadopoulou, N. M., Ribeiro, M. A., and Prayag, G. (2022). Psychological determinants of tourist satisfaction and destination loyalty: the influence of perceived overcrowding and Overtourism. *J. Travel Res.* [Online ahead of print]. 004728752210890. doi: 10.1177/00472875221089049

Pike, S. (2005). Tourism destination branding complexity. J. Prod. Brand Manag. 14, 258–259. doi: 10.1108/10610420510609267

Pike, S. (2012). Destination positioning opportunities using personal values: elicited through the repertory test with laddering analysis. *Tour. Manag.* 33, 100–107. doi: 10.1016/j.tourman.2011.02.008

Rather, R. A. (2021). Demystifying the effects of perceived risk and fear on customer engagement, co-creation and revisit intention during COVID-19: a protection motivation theory approach. *J. Destin. Mark. Manag.* 20:100564. doi: 10.1016/j.jdmm.2021.100564

Ritchie, J. R. B., and Crouch, G. I. (2011). "A model of destination competitiveness and sustainability" in *Destination marketing and management. Theories and applications.* eds. Y. Wang and A. Pizam (Wallingford: CABI), 326–339.

Rogers, R. W. (1975). A protection motivation theory of fear appeals and attitude change. *J. Psychol.* 91, 93–114. doi: 10.1080/00223980.1975.9915803

Šerić, M., and Mikulić, J. (2022). The impact of integrated marketing communications consistency on destination brand equity in times of uncertainty: the case of Croatia. *Tour. Rev.* [Epub ahead of print]. doi: 10.1108/TR-03-2022-0166

Sigala, M. (2020). Tourism and COVID-19: impacts and implications for advancing and resetting industry and research. J. Bus. Res. 117, 312–321. doi: 10.1016/j.jbusres.2020.06.015

Solomon, M. R. (2015). Consumer behavior: Buying, having, and being (11th ed.). Upper Saddle River: Pearson.

Stoner, J. L., Felix, R., and Blank, A. S. (2022). Best practices for implementing experimental research methods. *Int. J. Consum. Stud.*. [Online ahead of print]. doi: 10.1111/ijcs.12878

Suhartanto, D, Dean, D, Semiawan, T, Kusdibyo, L, and Sobarna, A. (2022). Cognizing tourist loyalty during covid-19 pandemic through virtual reality lens. *Tour. Recreat. Res.* 1:13. doi: 10.1080/02508281.2021.1974274 [Epub ahead of print].

Tasci, A. D. A. (2021). A critical review and reconstruction of perceptual brand equity. *Int. J. Contemp. Hosp. Manag.* 33, 166–198. doi: 10.1108/IJCHM-03-2020-0186

Torabi, Z. A., Shalbafian, A. A., Allam, Z., Ghaderi, Z., Murgante, B., and Khavarian-Garmsir, A. R. (2022). Enhancing memorable experiences, tourist satisfaction, and revisit intention through smart tourism technologies. *Sustainability* 14:2721. doi: 10.3390/su14052721

Tu, W., Zhou, L., Haobin, B. Y., and Yan, Q. (2022). Conceptualizing and assessing the competitiveness of slow tourism destinations: evidence from the first accredited Cittaslow in China. *SAGE Open* 12:215824402110688. doi: 10.1177/21582440211068823

Vásquez-Párraga, A. Z., and Sahagún, M. A. (2020). "Explaining customer loyalty to retail stores: a moderated explanation chain of the process" in *Handbook of research on retailing techniques for optimal consumer engagement and experiences*. eds. F. Musso and E. Druica (Hershey, PA: IGI Global), 15–32.

Vogt, WP, and Johnson, RB. (2016). The SAGE dictionary of statistics & methodology (5th ed). Thousand Oaks: SAGE Publications.

Whetten, D. A. (1989). What constitutes a theoretical contribution? Acad. Manag. Rev. 14, 490–495. doi: 10.2307/258554

Williamson, J., and Hassanli, N. (2022). "Loyalty" in *Encyclopedia of tourism management and marketing*. ed. D. Buhalis (Cheltenham, UK: Edward Elgar), 97–99.

Woodside, A. G. (2017). "Solving the core theoretical issues in consumer behavior in tourism" in *Consumer behavior in tourism and hospitality research*. eds. A. Decrop and A. G. Woodside (Bingley, UK: Emerald), 141–168.

Woosnam, K. M., Joo, D., Aleshinloye, K. D., and Denley, T. J. (2021). Emotional solidarity and destination loyalty amid the COVID-19 pandemic: a comparison of two scales. *J. Travel Tour. Mark.* 38, 541–553. doi: 10.1080/10548408.2021.1969317

World Tourism Organization (2020). Impact assessment of the COVID-19 outbreak on international tourism. Madrid: UNWTO.

World Travel and Tourism Council (2021). *Travel & Tourism Economic Impact 2021*. London: WTTC.

Yang, Y., Zhang, C. X., and Rickly, J. M. (2021). A review of early COVID-19 research in tourism: launching the annals of tourism Research's curated collection on coronavirus and tourism. *Ann. Tour. Res.* 91:103313. doi: 10.1016/j.annals.2021.103313

Zaman, U., Aktan, M., Qureshi, M. G., Bayrakdaroglu, F., and Nawaz, S. (2021). Every storm will pass: examining expat's host country-destination image, cultural intelligence and renewed destination loyalty in COVID-19 tourism. *Cogent Bus. Manag.* 8:1969631. doi: 10.1080/23311975.2021.1969631

Zenker, S., and Kock, F. (2020). The coronavirus pandemic – a critical discussion of a tourism research agenda. *Tour. Manag.* 81:104164. doi: 10.1016/j.tourman. 2020.104164

Zhang, S. X., Arroyo Marioli, F., Gao, R., and Wang, S. (2021). A second wave? What do people mean by COVID waves?-a working definition of epidemic waves. *Risk Manag. Healthc. Policy* 14, 3775–3782. doi: 10.2147/RMHP.S326051

Zhang, H., Fu, X., Cai, L. A., and Lu, L. (2014). Destination image and tourist loyalty: a meta-analysis. *Tour. Manag.* 40, 213–223. doi: 10.1016/j.tourman.2013.06.006