Passion as a Determinant in Sport Consumption: the Case of Amateur Cyclists

Luca Ferrucci¹, Fabio Forlani¹ and Antonio Picciotti¹

¹University of Perugia, Department of Economics, Perugia, Italy

Abstract

This paper analyses sport passion as a possible determinant for sport consumption. The purpose of this research, after defining the concept of passion for cycling, is to understand the existing relations between the latter and the costs incurred to practice this sport at an amateur level. This research is exploratory in nature and uses a qualitative mix-method approach. Given the need to isolate individual dynamics of cyclists from socio-cultural influences, the interviewees were selected from a restricted and homogeneous geographical area: the Umbria Region (Italy). The study is structured in two phases: in the first phase 22 in-depth interviews were carried out; in the second phase a group interview was preferred. In order to guarantee transparency and verifiability of the results, the answers were handled with the help of a word processing software (NVIVO). The results of this research suggest that cyclists’ consumption models are instrumentally influenced by the passion for cycling, more than other characteristics previously studied in sport management literature. This study provides useful indications on how to develop new forms of market segmentation. It also offers an approach for the operationalization of the level of passion for cycling, which enriches the current equipment of sports management researchers, who can also use the work in other contexts of free time consumption. This work highlights the key role of passion as a determinant for sport consumption and represents an original connection between psychological studies on sport passion and economic studies on sport consumption.

Keywords: cycling, passion, sport expenses, sport consumption; mix-method approach

Introduction

Cycling is the fourteenth most popular sport in the world, it ranks in the top ten in Europe and the top five in Italy, France and Spain. Amateur cycling, which is practiced for fun, health and tourism reasons is one of the most popular sports in Europe (Thibaut, Vos, Lagae, Puyenbroeck & Scheerder, 2016; Scheerder, Vos, & Taks, 2011).

In Italy, according to the Italian National Institute of Statistics data (ISTAT, 2017), 8.2% of individuals who practice sports carry out a cycling activity (about 1.935.000 people). In addition to direct consumption, cycling also generates a significant tourist and recreational (events) induced. According to Italian National Tourist Research Institute (ISNART) data, in 2018 bicycle tourism, in its narrow sense, recorded a presence of 21.9 million tourists (2.4% of the Italian tourist movement). On an European level, the European Cycling Federation (2018) estimates 2.3 billion bicycle touring trips per year.

In the face of a growing industry and a significant economic impact for European economy as a whole, management literature on cycling is still limited. A growing interest for cycle tourism (Perić, Wise, & Dragičević, 2017) and for the analysis of its impact on tourist destinations (Han, Meng, & Kim, 2017) can be observed, while still few studies focus on the spending patterns of cyclists (Thibaut et al., 2016). Specifically, little attention is given to individual passion (Vallerand et al., 2003) as instrumental for sport expenditure.

Given the importance of knowing consumer behavior in practicing sports for both public institutions and businesses and the need to explore these issues with regards to specific behaviours per category of expenditure and per specific sports (Thibaut, Eakins, Vos, & Scheerder, 2017; Wicker,
Breuer, & Pawlowski, 2010) the purpose of this study is to analyse the dimension of passion for cycling in order to understand if passion is determinant in amateur cyclists’ spending patterns.

Individual passion instrumental in sport consumption

The traditional approach used in the analysis of the participation and expenditure models in sports activities has neoclassical roots and its theories are based on: consumer rationality; utility maximisation given the constraints of time and money; stability of preferences; market balance (Thibaut et al., 2016; Pawlowski & Breuer, 2011; Downward & Rasciute, 2011; Downward, 2007). These approaches are based on Becker’s (1965) “theory of household production” which stated that the economic decisions of individuals are determined by their available income and the amount of time dedicated to sports (Breuer, Hallmann, & Wicker, 2011; Pawlowski & Breuer, 2011; Wicker et al., 2010).

Some authors (Thibaut et al., 2016; Scheerder et al., 2011; Lera-López & Rapún-Gárate, 2005) have, however, noted how consumers’ behavior in sport does not appear to be completely rational. According to these authors, economic agents have limited rationality and, consequently, both psychological and social factors are fundamental in determining consumption behavior (Hallmann & Wicker, 2015; Lera-López & Rapún-Gárate, 2011; Scheerder et al., 2011; Downward & Rasciute, 2011).

In more recent literature (Thibaut et al., 2017; Wicker, Prinz, & Weimar, 2013; Wicker et al., 2010), these perspectives seem to be converging. While keeping the basis of Becker’s theory, sport management researchers recognize the importance of “human capital” (Thibaut et al., 2017), characterised by socio-demographic dimensions and “sport-specific consumption capital” (Wicker et al., 2013, 2010).

With regard to the determinants of cyclists’ spending, the only available work is Thibaut et al.’s (2016) where, in addition to socio-demographic determinants, the authors have also tested specific determinants related to cycling as: Cycling intensity, Cycling capital and AIOs (Attitudes, Interests, Opinions). Research conducted on about 6,000 cyclists enabled Thibaut et al. (2016) to reach the conclusion that cycling expenditure is more influenced by “sports intensity variables” and “AIOs variables” rather than “classic orthodox socio-economic and socio-demographic variables”.

Despite these arguments, there are no studies in sport management literature which specifically analyse sport passion as determinant in sport consumption behaviour, whereas there are a number of works which describe how sport passion holds affective, cognitive and behavioral implications for individuals (Choi, 2019; Wakefield, 2016; Vallerand et al., 2008, 2006; Thomson, MacInnis, & Park, 2005), with references to the passion for cycling (Luth, Flinchbaugh, & Ross, 2017).

Under this perspective, passion is defined “as a strong inclination towards an activity that individuals like (or even love), that they value (and thus find important), and in which they invest time and energy” (Vallerand et al., 2008). In their work, these authors have provided and analysis of the behavioural consequences from leisure activities (including sports), proving that, if internalised in one’s personal identity, they tend to grow, thus, generating passion. In some individuals this process is so strong that the object of their passion becomes a central feature in their personal identity. These authors describe the aforementioned phenomenon as the Dualistic Model of Passion and distinguish between two different ways of experiencing passion: obsessive and harmonious. In obsessive passion the individual feels an uncontrollable impulse to commit wholeheartedly and morbidity to the activity he loves, so much so as to suffer from negative consequences to his other social activities (personal and work-related). On the other hand, in harmonious passion, the strong urge to commit to the sport activity is under full control. Passion experienced in the latter way does not harm social life but improves both social and work performance.

By analyzing the scale used by Vallerand et al. (2003) to differentiate between harmonious and obsessive passion on one hand, and Thibaut et al. (2016) entries in the Cycling intensity and AIOs categories on the other, it is possible to notice several similar elements so as to consider the latter ones as possible proxy variables of passion, rather than determinants in their own rights. Therefore, it is deemed useful to explore this connection, since also consumer models and job satisfaction (Luth et al., 2017) could vary depending on the type of passion for cycling. Accordingly, the first proposition to be proven is the following:

PR1: passion is a relevant phenomenon of amateur sport activities which manifests itself with different levels of intensity and must be measured using multiple dimensions.

The different types of expenses in sport consumption

In sport management literature, there are different scientific contributions which define behavior and types of sport expenditure. Wicker et al. (2010, 2013), have identified different types of expenditure which are directly linked to sport activities, whereas Lera-López and Rapún-Gárate (2011) have widened their approach to indirect expenditures, suggesting the sub-division in two macro-groups: participation-related sport consumption and attendance-related sport consumption. The latter approach has also been used by Thibaut et al. (2017) who, in a transversal work on different types of sports, have subdivided the total expenditures in nine categories of direct expenditures and three indirect ones.

The only study available with regards to cycling is Thibaut et al. (2016), where the authors considered both direct and indirect expenditures, deeming more reasonable to classify them in costs incurred for the purchase of non-durable and durable goods. This approach is considered especially suitable for the current work, under a management point of view, both for the sport discipline analysed and for the resulting implications on consumers’ spending patterns.

Experiential expenses (Pencarelli & Forlani, 2018; Chanavat & Bodet, 2014), such as bicycle tourism events and bicycle tourism experiences (Han et al., 2017) are of a different nature (more emotional) and are usually not carried out in the place of residence, and therefore they were separated from the other types of expenditure.

For the purposes of this paper, expenditures for amateur cycling activities are divided into four categories: consumption expenditures, long-term or multiannual expenditures, participation in cycling events expenditures, holiday or tourist experience expenditures.

All of the contributions above, despite being detailed and thorough, do not, however, consider the role that passion plays in determining the amount and type of sport expen-
PR2: passion is a determinant element which positively influences costs incurred for amateur cycling activities.

Method

Given that the purpose of this work is to explore the existing relationship between passion and costs incurred for cycling, isolating the former from possible local behavioural and cultural influences, it was decided to study amateur cyclists coming from the same geographical and cultural context. Thus, the Umbria Region was chosen for its limited dimension (880,285 people on 01/01/2020), for its geographical position (the Centre of Italy) and for its high number of cycling enthusiasts and cycling clubs (75).

From a methodological point of view, taking into account the explorative nature of this work, a qualitative-type of research design was chosen (McGinley, Wei, Zhang, & Zheng, 2021) and, in order to explore both the results of a personal reflection and the ones resulting from the social interaction of the studied subjects, a mixed method approach (QUAL+QUAL) was used. Studies on mix method approaches argue that the combination of different approaches allows for a triangulation of data and a better understanding of research issues and complex phenomena (Molina-Azorín & Font, 2016; Creswell & Plano Clark, 2007).

This research was conducted in two phases, using two qualitative instruments: a semi-structured qualitative interview and a group interview. During the first phase (May 2019), 22 face-to-face in-depth interviews were carried out on 22 amateur cyclists residing in different municipalities of the Umbria Region who practice different cycling specialities (road and mountain bike), with different age, sex, studies background and employment, who belong or not to an amateur cycling club. The same 18 open-ended questions were asked to each of the 22 interviewees.

The number of interviews was widely within the standards of qualitative studies (12-15), reaching, after the twentieth interview, a saturation of the obtainable information (McGinley et al., 2021). Each interview was 75 minutes long.

All interviews were recorded and, subsequently, transcribed in full.

During the second phase, in order to evaluate the information obtained from the in-depth interviews, and on the basis of the dynamics which emerge from the interactions between amateur cyclists, a group interview was organised with the participation of 8 randomly selected individuals from the 22 interviewed ones. The group interview was 90 minutes long, it was duly recorded and subsequently transcribed.

The information obtained was treated according to the “credibility, transferability, dependability, and confirmability” principles which, as highlighted by McGinley et al. (2021), are requisites to define rigour in a qualitative research. In the first stage, two of the authors conducted, separately, an analysis of the texts by using the Nvivo (Release 1.3) software. The results were then discussed, both in terms of the numbers and types of nodes identified and in terms of existing relationships, with a high rate of agreement (over 80%).

Following the discussion above, the results were submitted to the third author who has a personal knowledge of the studied phenomenon (being a practicing amateur cyclist) in order to highlight any inconsistencies or lack of data. At the end of this process an unanimous view on the soundness and completeness of the information set was reached by the authors. Lastly, associations for a cross-referenced check of the data were made, identifying the main existing relationships.

Results

The dimensions of sport passion

Using the Vallerand et al. (2003) metrics, it is possible to identify the nature of sport passion as an individual emotional commitment. The survey identified two groups of individuals: 1) those who declare to practice cycling in a balanced manner with regards to other leisure activities, in search of physical wellbeing, being outdoors and socialising and having fun (10/22); 2) those who experience a totalising passion for cycling, regarding this sport as a crucial experience in their existence (12/22).

<table>
<thead>
<tr>
<th>N.</th>
<th>Balanced passion</th>
<th>Totalizing passion</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>X</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Verbatim</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>It is result-driven</td>
<td>TOT</td>
</tr>
<tr>
<td>If I could, I would go 8 days a week</td>
<td>TOT</td>
</tr>
<tr>
<td>I could define my passion for cycling with a number: 100%</td>
<td>TOT</td>
</tr>
<tr>
<td>It’s an ardent passion, from the heart</td>
<td>TOT</td>
</tr>
<tr>
<td>It allows me to keep in touch with nature and it helps me to relax</td>
<td>BAL</td>
</tr>
<tr>
<td>I’ve been without a bicycle for a while but I was less profitable</td>
<td>TOT</td>
</tr>
<tr>
<td>A sort of reason for living</td>
<td>TOT</td>
</tr>
<tr>
<td>For me it is just for fun</td>
<td>BAL</td>
</tr>
<tr>
<td>I have a bit of an addiction to this passion</td>
<td>TOT</td>
</tr>
<tr>
<td>I give it a fair amount of free time, it allows me to do other things too</td>
<td>BAL</td>
</tr>
<tr>
<td>It has become more serious and more continuous</td>
<td>TOT</td>
</tr>
</tbody>
</table>
With regards to the characteristics of passion for cycling and its measuring metrics (proposition 1), amateur cyclists are almost unanimous (21/22) in regarding free time spent cycling as the most representative element of sport passion. Free time spent can, in turn, be expressed as a percentage of the available free time and/or the number of outings per week.

Table 2. Dimensions of passion

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Balanced passion</th>
<th>Totalizing passion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Free time</td>
<td>Free time as the most representative aspect of passion</td>
<td>Free time as the most representative aspect of passion</td>
</tr>
<tr>
<td></td>
<td>Free time dedicated to cycling as a minor (less than 30% 5/10) or proportionate (between 30% and 60% 5/10) part of available free time</td>
<td>A lot of free time dedicated to cycling, in many cases (7/12) over 70% of available free time</td>
</tr>
<tr>
<td>Weekly outings</td>
<td>Small number (once or twice weekly) or medium number (three of four times a week) of weekly outings (5/10 and 4/10)</td>
<td>In the majority of cases (7/12), a high number of weekly outings (5 times and more)</td>
</tr>
<tr>
<td>Km per year</td>
<td>In the majority of cases (7/10), low number of km per year (up to 5 thousand)</td>
<td>In the majority of cases (10/12), high number of km per year (over 10 thousand)</td>
</tr>
<tr>
<td>Spent income</td>
<td>Low percentage (up to 20%) of income spent on sport activity</td>
<td>For some (6/12) low percentage of income spent on sport activity (up to 20%) while for others (3/12) spent resources make up more than 50% of available income</td>
</tr>
<tr>
<td>Type of cyclist</td>
<td>Amateur who defines himself in most cases (6/10) as cycle-sportive</td>
<td>Amateur who defines himself as cycle-professional (10/12)</td>
</tr>
<tr>
<td>Competitive nature</td>
<td>Competitiveness in most cases with oneself (6/10) and, in a few cases (2/10) lack of competitive nature at all</td>
<td>Competitiveness in some cases with the others (4/12) and in other cases both with oneself and the others (4/12)</td>
</tr>
<tr>
<td>Type of outings</td>
<td>Coexistence of individual and group outings with preference given to the latter for socializing purposes</td>
<td>Complementarity between individual training outings and group outings of a recreational and competitive nature.</td>
</tr>
</tbody>
</table>

A further significant variable to measure the level of passion is the total number of kilometres covered yearly, calibrated, however, with the characteristics of the various cycling disciplines (e.g. road vs. mountain bike) and the physical aspects of the individual (age, physical fitness, etc.)

The competitive dimension is also significant, not necessarily with regards to official competitions but expressed during habitual outings in relation to one’s own personal best or in relation to peers’ performance. Individuals with a more totalizing passion define themselves as bicycle-professionals and are characterized by a higher level of competitiveness (with others and with themselves) as opposed to cyclists with a more balanced passion who tend to define themselves as bicycle-sportive.

For the definition of the level of passion, economic resources for cycling activities and the outing methods, seem to be less significant.

The evidence gathered from the individual interviews was confirmed by the group interview. After being asked again, the interviewees confirmed the importance of free time spent as an expression of passion and the need for a multidimensional measurement.
The impact of passion on sport expenditure

The spending and consumer behaviour of amateur cyclists differs according to the type of passion.

With regards to long-term expenditure, cyclists who have a totalising passion for this sport are the ones who invest the greater the involvement and intensity of practice, the greater the wear on certain technical components (tires, brakes, etc.), on clothing products and a greater consumption of dedicated food and beverages (supplements, energy bars, etc.).

As to the third category of expenditures, referring to participation in sporting events, two distinct behaviors have been observed. Amateur cyclists with a totalising passion favor events with a competitive nature which take place on a national level and require a rather significant economic commitment. Balanced amateur cyclists, on the other hand, have a tendency to participate in non-competitive events (rallies) which often take place in a local context with the purpose of a gathering and which require a lower level of expense.

Lastly, expenditures for tourist cycling experiences that are not linked to any sporting event, follow a different dynamic. This type of expenditure does not seem to be important for the interviewed individuals. Only 7 cyclists stated to have had this type of experience in the past and, only 3 out of these 7 have actually stayed in places outside of the region. The difference in behavior between the two groups does not seem as evident as in the previous categories. It can be, in fact, underlined that for this method of bicycle use, the social dimension represents an instrumental factor, since, besides sharing the passion, an intimacy of a relationship, friendship which goes beyond cy-

The group interview confirmed the results of the in-depth interviews, also with regards to the expenditure patterns and the influence of the level of passion on sport expenses and has underlined how passion is contaminated by the social dimension.

Discussion

According to the classical models (Becker, 1965; Downward & Rasciute, 2011). If, however, we assume that consumption is guided by passion, both rational and irrational, hedonistic and experiential, important aspects emerge on sport consumption which have been overlooked in previous literature. Under this perspective, free time and available income represent necessary but not sufficient conditions (one may have high resources that are not necessarily used for sport activities). Passion, therefore, represents and is the activator of sport practice and, consequently, sport spending patterns. The results of this research confirm this approach and state: 1) the role of passion as determinant for amateur cycling; 2) the existence of the dynamics of activity, expenditure and consumption which grow as the passion for sports increases.

Incurred cost does not saturate itself, as increased sporting activity and improved performance produce a desire for new activity to achieve ever new goals with regards to one self (competing with one self) and with regards to other members of the community (competing with the others).

This cycle, with different intensity as the passion varies,
was encountered in three of the four categories: greater long-term expenditures (periodic up-grading of technical equipment with a tendency to accumulate them), current expenditure (greater consumption due to wear connected to greater activity), cycling events (participating in increasingly challenging competitive events).

A different dynamic seems to take place with regards to consumption connected with cycle-tourist experiences which are more related to a social dimension.

From a theoretical point of view this study offers distinct implications: 1) it represents, from a marketing perspective, the link between scientific literature on sporting passion which takes a predominantly psychological value, and scientific literature on sports consumption with an economic intake and with the aim of adopting appropriate policies; 2) it provides useful indications on how to develop new forms of segmentation of the market for businesses in the sector; 3) it offers indications for the operationalization of the level of passion in amateur cycling by identifying a number of variables: percentage of free time spent; number of weekly outings; Km completed per year; performance level (km per outing, average speed, altitude level covered, etc.); level of competitiveness; economic resources used.

Due to its explorative nature, this study does not allow any generalizations. The variables can be verified in different socio-cultural dimensions and further tested with quasi-quantitative or qualitative techniques in order to identify and measure cause-and-effect relationships in representative samples of the targeted universe.

Lastly, this research lays out considerable scope for development to test the role and influence of passion in other sports and consumer contexts (e.g. cinema, museums, theatres, etc.).

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Conflict of Interest
The authors declare that there are no conflicts of interest.

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References