

Self-control today, indulgence tomorrow? How judgment bias and temporal distance influence self-control decisions

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3 ***Self-Control Today, Indulgence Tomorrow? How Judgment Bias and Temporal***
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5 ***Distance Influence Self-Control Decisions***
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9 **Abstract**

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11 **Purpose:** This research analyzes how judgment bias (optimism vs. pessimism) and
12 temporal distance influence self-control decisions. This research also analyzes the
13 mediating role of perceived control on judgment bias and temporal distance.
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17 **Design/methodology/approach:** Three studies (1 laboratory and 2 online
18 experiments) analyze how judgment bias and temporal distance influence self-control
19 decisions on consumers' willingness to pay.
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24 **Findings:** The findings uncover an important boundary condition of temporal distance
25 on self-control decisions. In contrast to previous research, the findings indicate that
26 individuals exposed to optimism (vs. pessimism) bias display more self-control in the
27 future and make choices that are more indulgent in the present. The findings also
28 reveal that perceived control mediates the effects of judgment bias and temporal
29 distance.
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37 **Practical implications:** The findings help managers to adapt short and long-term
38 marketing efforts, based on consumers' momentary judgment biases and on their
39 chronic judgment bias orientation.
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44 **Originality/value:** This research contributes to the literature on self-control and
45 temporal distance, showing that judgment bias reverses previous research findings on
46 self-control decisions.
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51 **Keywords:** self-control, judgment bias, temporal distance, optimism and pessimism
52 bias, construal level
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INTRODUCTION

East Rutherford, NJ, 2014: "The Seattle Seahawks have won their first Super Bowl title, crushing the favored Denver Broncos 43-8" (NFL.com, 2014).

Rio de Janeiro, Brazil on 8 July 2014: "Brazil v Germany: the biggest humiliation in the history of Brazilian football. A 7-1 thrashing in the World Cup signals the night the music died" (The Telegraph, 2014).

After the Super Bowl or FIFA World Cup, supporters of one team experience positive outcomes, while supporters of the other team experience negative outcomes. Because of judgment biases, supporters may inflate or deflate their expectations of satisfaction from subsequent purchasing decisions through optimistic or pessimistic lenses. These biases in judgment can lead to optimism bias (i.e., a tendency to expect positive outcomes) or a pessimism bias (i.e., a tendency to expect negative outcomes). Therefore, consumers may increase or reduce their consumption, employing self-control mechanisms in their actions (Goodman and Malkoc, 2012).

Research supports the notion that self-control and indulgence depend on temporal distance (Laran, 2010). Past studies show that self-control information persuades individuals to exercise self-control in the present but tends to orient them toward indulgence in the future (Laran and Janiszewski, 2009). Although previous research suggests that people tend to perceive the future more clearly than the present (Busseri, Choma, and Sadava, 2009), this behavior is subject to change. For example, in the context of sports, expectations of positive results are normally greater than expectations of defeat for team fans. In this case, the immediate present interferes in the decisions about the future (Hirt, Zillmann, Erickson, and Kennedy, 1992).

The current work proposes that judgment biases and temporal distance influence self-control decisions. In three studies, we analyze how judgment bias and temporal distance influence self-control decisions on consumers' willingness to pay. In

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3 addition, we examine the mediating role of perceived control and alternative mediators
4 (mood, self-confidence, and self-esteem) on judgment bias and temporal distance.
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6 Theoretically, this research contributes to the literature on self-control and temporal
7 distance (Shah, James, Kruglanski, and Arie, 2003; Laran, 2010; Goodman and
8 Malkoc 2012), showing that judgment bias can change how consumers focus on self-
9 control decisions in the present and in the future. In managerial terms, the findings may
10 help companies to adopt short-term and long-term marketing efforts, based on the
11 momentary judgments of consumers and on consumers' chronic judgment bias
12 orientation.
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24 **JUDGMENT BIAS, TEMPORAL DISTANCE, AND SELF-CONTROL DECISIONS**

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28 Extensive research on decision-making has studied the role of optimistic and
29 pessimistic judgment biases on consumption (Mueller, 1957, Tobin, 1959, Katona,
30 1975). The optimistic (vs. pessimistic) judgment bias is a trait that expresses the
31 tendency of individuals to think that they are less likely than others to experience
32 negative events and are more likely to experience positive events (Helweg-Larsen and
33 Shepperd, 2001). Marketing studies have analyzed the effects of optimistic and
34 pessimistic biases on consumer intentions and attitudes (Nguyen and Claus, 2013),
35 spending and saving behavior (Katona, 1974), consumer satisfaction (Westbrook,
36 1980), in predicting future behavior (Yang and Urminsky, 2015).
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47 Recent studies in psychology and marketing find that consumers seek a
48 balance between the present and the future in self-control decisions (Laran and
49 Janiszewski, 2009; Laran, 2010; Goodman and Malkoc 2012). Self-control is a process
50 by which an initial response is reconsidered, allowing for a different response (Vohs,
51 Kathleen, Baumeister, Roy, and Tice, 2008). Self-control enables people to control
52 their consumption impulses, within limits and parameters acceptable to the society
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3 (Shah, James, Kruglanski, and Arie, 2003; Laran, 2010; White, Rhiannon, and Dahl,
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5 2011).

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7 For Construal Level Theory, the temporal distance can explain differences in
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9 purchase patterns for the present *versus* future (Trope, Liberman, and Wakslak, 2007;
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11 Eyal, Liberman, Trope, and Walther, 2004). This occurs because present decisions are
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13 richer in detail (concrete) than future ones (abstract) (Liberman and Trope, 1998;
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15 Freitas, Gollwitzer, and Trope, 2004; Laran, 2010). For example, imagine a fan who will
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17 buy a ticket to watch a team today or in six months. For the present situation (today)
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19 many details are involved (e.g. which players are likely to play, the prices of tickets),
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21 whereas for the future situation (six months from now) it will not be possible to know
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23 the specific details (e.g. who will be playing).
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27 Consumers tend to use judgment biases to project their future consumption
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29 behavior (Tanner and Carlson, 2009). One key concept affecting judgment bias is the
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31 relationship of optimism/pessimism about future events (Lench and Ditto, 2008).
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33 Optimistic (vs. pessimistic) bias predisposes consumers to anticipate the good things
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35 that can happen. We argue that consumers induced to exhibit self-control are more
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37 likely to be persuaded in the future but oriented toward indulgence in the present.
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39 Specifically, we propose that judgment biases and temporal distance influence self-
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41 control decisions (hypothesis 1):
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45 **H1.** *Optimistic (vs. pessimistic) bias will result in greater*
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47 *self-control in the future and greater indulgence in the*
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49 *present.*
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52 53 **THE MEDIATION PROCESS OF PERCEIVED CONTROL ON JUDGMENT BIAS**

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57 Individuals decisions have generated numerous explanations from the judgment
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59 bias perspective. Judgment bias serves to protect and strengthen the self, producing
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3 thoughts that increase self-esteem and reduce perceived risk (Taylor and Armor,
4 1996). The judgments of optimism and pessimism tend to be enhanced when
5 individuals make comparisons (Menon et al., 2009). One factor that influences biases
6 in judgment is perceived control (Klein and Helweg-Larsen, 2002). The perception of
7 control can then directly modify biases in comparative judgments (Lin et al., 2004).
8 Situations with a greater perceived control lead to optimistic judgments (Kruger, 1999),
9 whereas lower perceived control situations lead to pessimistic judgments (Menon et al.,
10 2009).

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13 Previous studies have demonstrated that people's perception of control and
14 psychological distance can influence judgment bias (Menon et al., 2009). We argue
15 that optimistic and pessimistic biases and temporal distance tend to influence
16 perceived control, which in turn, will influence consumers' self-control decisions. More
17 specifically, we hypothesize that:

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33 **H2.** *Perceived control mediates the effect of optimistic (vs.*
34 *pessimistic) bias and temporal distance on self-control*
35 *decisions.*
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41 **OVERVIEW OF STUDIES**

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45 Three studies (1 laboratory and 2 online experiments) analyze how judgment
46 bias and temporal distance influence self-control decisions on consumers' willingness
47 to pay. Judgment bias was made salient by scenarios (Study 1), chronically assessed
48 in terms of participants' orientation (Study 2) or measured using real performance of
49 soccer teams during a national championship (Study 3). Study 1 analyzes the effect of
50 optimistic (vs. pessimistic) bias on participants' willingness to spend for sporting goods.
51 Study 2 examines the mediation process of perceived control in which participants'
52 judgment bias orientation influence self-control decisions in the present and in the
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3 future. Study 3 shows that participants' judgment bias towards soccer teams in a real
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5 competition situation also influence self-control decisions.
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9 **STUDY 1: The Effects of Optimistic Scenarios on the Purchase of Sport Goods**

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14 Study 1 aims to examine how judgment bias (pessimism vs. optimism) and
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16 temporal distance may influence access to self-control information and thereby
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18 influence the purchasing of sporting goods. In Study 1, we aim to demonstrate that
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20 judgments made under bias may change the impact of self-control on the purchase of
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22 sporting goods from their team. Study 1 includes information regarding how optimistic
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24 scenario (e.g. hiring a talented player) *versus* pessimistic scenario (e.g. hiring a poor
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26 player) influence self-control decisions, asking respondents to choose whether to buy
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28 sporting goods in the present and future. We predicted that when exposed to the
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30 optimistic scenario, the priming information of self-control will be inhibited. However,
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32 when exposed to the pessimistic scenario, the self-control priming information should
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34 be maintained or gain potential.
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39 **Method**

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43 *Participants and Procedure.* Two hundred and eight participants, aged 17 to 54
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45 years, from a major Brazilian University were invited to participate in a lab experiment
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47 (85.6% male, $M_{age} = 37.165$, $SD = 9.22$). The design of the experiment was 2 (temporal
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49 distance: present *versus* future) x 2 (Judgment: optimism *versus* pessimism bias) x 2
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51 (priming effect: self-control *versus* neutral). The priming effect was manipulated
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53 between-subjects (i.e. participants received self-control or neutral information), while
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55 the temporal distance factor was manipulated within-subjects (i.e. each participant
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57 made a choice for the present and the future). Further studies (2 and 3) were also
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59 conducted to reduce the within-subjects design limitation. The questionnaire was
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3 conducted in Portuguese, and the scales translated using the procedure of back-
4 translation (Zikmund and Babin et al., 2008).
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7 *Procedure and stimuli.* The procedure of study 1 consisted of three tasks. The
8 first task involved activation of the cognitive process through a set of words randomly
9 presented, the second task involved the manipulation of optimism biases (hiring a good
10 player) and pessimism biases (hiring a poor player), and the third task involved a
11 consumption choice for the present vs. the future. Participants entered the lab and
12 completed the study on a computer.
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20 The first task was intended to activate the priming effect via a set of random
21 words and phrases (Srull and Wier, 1979). Participants were randomly assigned to one
22 of two conditions: self-control and neutral. In the first condition, participants were
23 presented with a random set of words and then asked to select the phrase that best
24 represented the words. Forty words were grouped into four different blocks used to
25 generate the self-control priming. Each block contained ten words that were randomly
26 presented. Eight of these ten words activated self-control, using expressions such as
27 *save, uncertainty, risk, join, restriction*, among others. The other two expressions were
28 familiar words that, at first, had no meaning, such as *water, car, night, dog, life*, among
29 others. After observing the set of words, the participant had to choose the one that best
30 represented the ten words from four options, such as "*Tomorrow is uncertain, so we*
31 *need to save.*" The search for words and the correct choice of phrases aimed to turn
32 the information into a priming effect of self-control. In the neutral condition, no attempt
33 was made to activate any specific type of information. The same procedure was
34 adopted as in the first condition. The sentences formed in this condition had no specific
35 meaning for the study (neutral condition). Phrases such as "*The horse maintains its*
36 *health by running and jumping*" and "*The game was stressful, so I was nervous*"
37 brought the most coherent choices for the ten words presented. In both conditions,
38 respondents were given free time to complete the sentences.
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3 The second task was associated with the judgment of optimistic or pessimistic
4 bias. The optimism/pessimism bias was manipulated using a scenario. We have
5 adapted scenarios from the traditional view of judgment bias (Scheier et al., 1994).
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7 However, instead of traditional scale items (e.g. "I'm always optimistic about my future",
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9 "Overall, I expect more good things to happen to me than bad"), participants read a
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11 scenario about their favorite team. Specifically, in the optimistic bias, participants were
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13 stimulated to answer who was the best player in the championship and were told that:
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15 "Your team has just hired this player". In contrast, participants in the pessimistic
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17 scenario received instructions that their team hired the worst player of the
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19 championship.
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24 After the optimism/pessimism manipulation, we thanked the participants and
25 asked them to begin a new task. The following instructions were given to the
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27 participants: "*Imagine that you only have R\$ 1,000 (US\$ 333.33) to spend during the*
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29 *month, counting all costs*". The respondent should then choose two products to buy
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31 from their favorite team, one to use today in their team's game and one that they will
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33 only be able to buy in six months. It was indicated to the respondents that the products
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35 were linked to the team they cheered for. In total, six products with different prices were
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37 listed. The original values were in Brazilian Reais (BRL). The values were converted
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39 into dollars to facilitate the analysis. Products were not described, and only the prices
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41 were linked to each: R\$ 50 (US\$ 16.66); US\$ R\$ 130 (US\$ 43.66); R\$ 160 (US\$
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43 53.66); R\$ 200 (US\$ 66.66); R\$ 230 (US\$ 76.66) and R\$ 260 (US\$ 86.66).
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47 After observing the prices of the products, respondents were asked to choose a
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49 product that represented the present (to be used today at their team's game) and
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51 another that represented the future (to be purchased in six months). Before choosing
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53 products, respondents received a recommendation not to take into consideration the
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55 current situation of their team. The participants were then asked to indicate, on a scale
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57 of 1 to 100, their level of passion for their team. This measure was used to check the
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59 manipulation. The mean level of passion was 56.43% (SD = 23.58). The summary
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3 statistics show that the participants were not extremely passionate about their teams,
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5 which could skew the data collected.
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7 *Pretest.* Forty participants from the same sample evaluated the type of product
8 that should be used. The suggestion was to designate parts of team uniforms as
9 choices for the present and future. These parts included: *main team jersey, second*
10 *jersey, workout jersey, goalkeeper jersey, cold outfit,* among others. However, most
11 participants first chose the main uniform of the team as a sign of identification. As this
12 would prevent a more parsimonious choice of the respondent, it was decided not to
13 identify the product but only the price. The product was named "sports article". When
14 asked about spending on a product associated with the club they cheered for,
15 participants agreed that values between R\$ 50 (US\$ 16.66) and R\$ 260 (US\$ 86.66)
16 would be acceptable to a person who earned between R\$ 1,000 (US\$ 333.33) and R\$
17 2,000 (US\$ 666.66) per month.
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30 The optimism bias participants were encouraged to indicate who they believed
31 was the best player currently playing. In the pessimistic scenario, participants were
32 encouraged to indicate who they believed was the worst player currently playing.
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34 Directly afterward, they were given the following stimulus: "*Your team has just hired*
35 *that player*". After these statements were made in both scenarios, two questions were
36 asked to assess whether this news would have enabled positive feelings regarding
37 their judgments. The first question was whether their team had made a good choice.
38 The response options were dichotomous (yes vs. no). The second question consisted
39 of six statements, where the first three exhibited pessimism bias (*fans of other teams*
40 *would make fun of the participant's team; the participant's team would make fools of*
41 *themselves when announcing the hiring, and the fans of the participant's team would*
42 *revolt against the president of the team*), and the remaining three exhibited optimism
43 bias (*fans of other teams would be jealous of the participant's team; the participants*
44 *would be respected if this player were hired; and the fans of the participant's team*
45 *would support the decision of the president to hire this player*).
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3 Finally, participants were interrogated to verify the procedures for debriefing
4 (Bargh and Chartrand, 2000; Fitzsimons and Shiv, 2001). Directly afterward,
5 participants were informed of the real purpose of the experiment. They were then
6 thanked and dismissed.
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11 12 13 **Results and Discussion**

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18 *Interpretation of the priming manipulation.* Through analysis of the first data set,
19 evidence of manipulation in the first task of the experiment can be observed. With
20 respect to the above time manipulation, we did not find a significant difference between
21 the averages in the self-control and neutral conditions ($F_{(1,208)} = 0.154$; *ns*). Participants
22 in the self-control condition were exposed to a longer period ($M = 2$ minutes and 02
23 seconds) than those in the neutral scenario ($M = 1$ minute and 58 seconds).
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31 *Judgment bias.* The scenarios characterized by optimistic and pessimistic bias
32 also elicited differences among participants. Under optimistic bias, responses indicated
33 a good choice, while the opposite was true under pessimistic bias. With respect to
34 which players participants regarded as potentially poor players, 84.3% of respondents
35 named players on rival teams.
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41 *Choices made by participants.* Figure 1 shows the averages of the choices
42 made by the participants in the present and the future, in both the neutral and self-
43 control scenarios, with differentiation between the pessimistic and optimistic biases.
44 With respect to the pessimistic bias scenario, the ANOVA indicated no significant
45 differences between purchase decisions in the present ($F_{(1,97)} = 0.878$; *ns*) and future
46 ($F_{(1,97)} = 1.119$; *ns*). That is, participants indicated similar willingness to pay for
47 products in the future ($M_{neutral} = 63.53$; $M_{self-control} = 59.33$) and the present ($M_{neutral} =$
48 31.93 ; $M_{self-control} = 35.36$). With respect to the optimistic bias scenario, the ANOVA
49 showed significant differences between purchase decisions in the present ($F_{(1,111)} =$
50 5.263 ; $p < 0.05$) and non-significant differences between purchase decisions in the
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3 future ($F_{(1,111)} = 0.012$; $p = 0.914$). In particular, as expected, participants indicated
4 lower willingness to pay for products in the present, when received self-control
5 information ($M_{neutral} = 64.13$; $M_{self-control} = 54.06$). However, in the future participants
6 reported similar willingness to pay ($M_{neutral} = 44.36$; $M_{self-control} = 43.93$).
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11 *Pessimistic bias.* The *t*-test indicates a significant difference between priming
12 effects. In the self-control scenario, present choices averaged $M = \text{US\$ } 35.36$, and
13 future choices averaged $M = \text{US\$ } 59.33$, with a *t*-statistic of ($t_{(1)} = -6,265$; $p < 0,01$). In
14 the self-control scenario, 84.14% of participants chose to make a more indulgent
15 purchase in the future. For the neutral group, there was a significant difference ($t_{(1)} = -$
16 8.645 ; $p < 0,01$) between present choices ($M = \text{US\$ } 31.93$) and future choices ($M = \text{US\$}$
17 63.56). In the neutral scenario, 72.23% of participants chose to make a more indulgent
18 purchase in the future.
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28 *Optimistic bias.* The *t*-test indicates a difference between priming effects. In the
29 self-control condition, there is a significant difference ($t_{(1)} = 2.237$; $p < 0.05$) between
30 present choices ($M = \text{US\$ } 54.06$) and future choices ($M = \text{US\$ } 43.93$). People
31 purchasing for today's game (present) will make more indulgent choices when
32 purchasing six months from now (future) when they will tend to exercise more control in
33 their purchases of sporting goods. Regarding self-control, 67.24% of participants chose
34 to make a more indulgent purchase in the present. Regarding the neutral group, there
35 are significant differences ($t_{(1)} = 4.998$; $p < 0.01$) between present choices ($M = \text{US\$}$
36 64.13) and future choices ($M = \text{US\$ } 44.36$). Purchases in the present are more
37 indulgent, while purchases for the future exhibit greater self-control, which confirms H_1 .
38 In the neutral situation, 86.11% of participants chose to make a more indulgent
39 purchase in the present.
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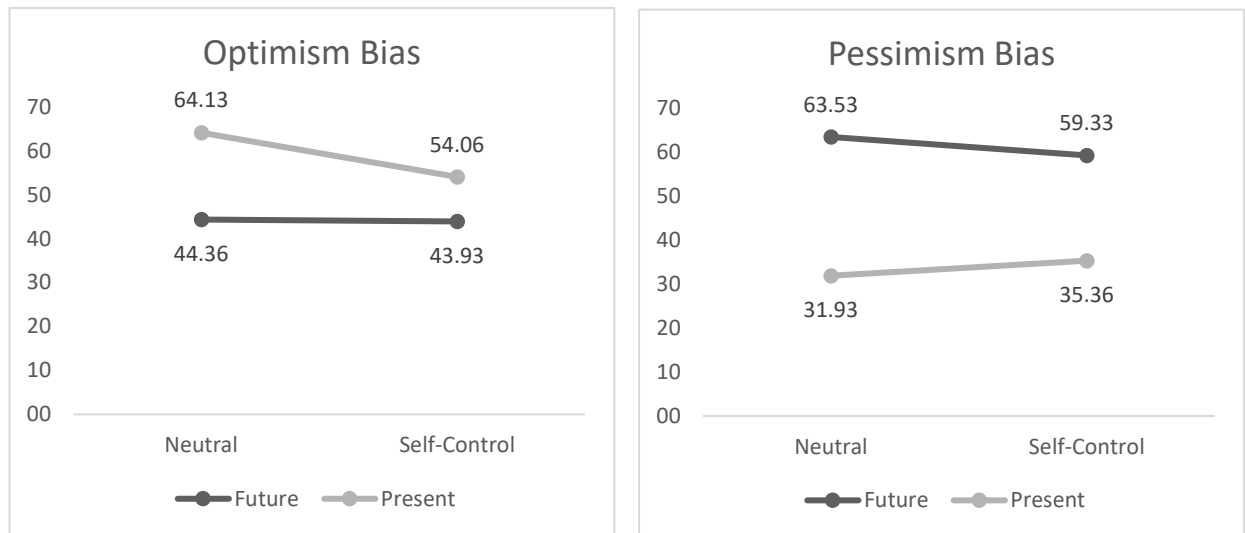


Figure 1: Results of Study 1 – Willingness to Spend (in US\$)

The findings suggest that the scenario involving optimistic judgments reverses the results of previous research (Laran, 2010). The results of study 1 show that optimistic bias among supporters can lead to more indulgent choices and preferences in the present and greater self-control in the future. Given an optimistic bias, one will exercise greater self-control in the future, supporting H_1 . Furthermore, it was found that a pessimistic bias among supporters can lead to choices and preferences that reflect greater self-control in the present and more indulgent behavior in the future.

STUDY 2: The Effects of Chronic Optimism Mediated by Perceived Control

Study 2 aims to demonstrate that judgment bias (pessimism *versus* optimism bias) may influence access to self-control information and thereby influence the total amount of sports goods purchase according to temporal distance. Study 2 extends the previous study in three ways. First, study 2 measures participants' chronic optimism (using LOT-R Scale – Scheier et al., 1994), reducing limitation of the judgment bias scenarios used in study 1. Second, this study activates positive feelings under the self-

control and neutral conditions, asking respondents to choose whether to buy sporting goods in the present and future (between subjects design). Third, in study 2, we try to demonstrate that judgments made under chronic optimism (vs pessimism) may change the impact of perceived control on the purchase of sports goods (mediation process). We predict that when participants have chronic optimism, will results in greater perceived control in the future (vs. present). However, when participants have chronic pessimism, the self-control priming information should not influence participants' perceived control. In this study, the dependent variable was the total amount of cost of the products participants chose to buy. We have asked basketball supporters to simulate a shopping trip at the NBA Store website. We have also controlled for participants' involvement in basketball, and average spending for sport-related merchandise during the NBA season.

Method

Participants and Procedure. One hundred and third nine participants, aged 18 to 72 years, from Amazon Mturk were invited to participate in an online experiment (62.6% female, $M_{\text{age}} = 39.23$, $SD = 12.39$). The design of the experiment was 2 (judgment bias: optimism *versus* pessimism bias) x 2 (priming effect: self-control *versus* neutral) x 2 (temporal distance: present *versus* future), between subjects in all conditions. The between-subjects design in study 2 aimed to reduce the within-subjects limitation in Study 1.

Procedure and stimuli. The participants were told they would participate in three independent tasks. The first task involved the measurement of participants' chronic optimism (vs. pessimism). We have employed the Life Orientation Test-Revised (LOT-R) from Scheier et al. (1994). The 10-item of LOT-R measure of optimism versus pessimism. Of the 10 items, 3 items measure optimism, 3 items measure pessimism, and 4 items serve as fillers. Respondents rated each item on a 7-point scale (1 =

strongly disagree to 7 = strongly agree). In our study, we have created a composite score of participants' chronic optimism using the three items measuring optimism and reversing the scores of the three pessimism items. Higher scores indicate optimism and lower scores indicate pessimism ($M = 4.67$; $+1SD = 6.06$; $-1SD = 3.29$). The final chronic optimism score based on the LOT-R scale was reliable in our sample ($\alpha = .911$, 6 items).

To analyze the mediation process, we have used the following scales: mood (4 items), self-esteem (3 items), self-confidence (3 items), perceived control (3 items). Is important to note that perceived control is usually treated as a chronic trait, however, we believe that judgment bias may influence participants perceived control temporarily. Our theoretical account is based on past research that shows the perception of control can then directly modify biases in comparative judgments (Lin et al., 2004; Kruger, 1999; Menon et al., 2009). Participants rated each item on a 7-point scale (1 = strongly disagree to 7 = strongly agree). Table 1 provides the details of the mediation scales used in Study 2:

Table 1. Mediation Scales in Study 2

| Scale | Items | Source |
|--|--|--|
| Mood Scale (4 items, $\alpha = .830$) | Currently, I am in a good mood. | Mood Short Form - MSF - Peterson and Sauber (1983) |
| | As I answer these questions I feel cheerful. | |
| | For some reason, I am not very comfortable right now. | |
| | At this moment, I feel edgy or irritable. | |
| Self-Esteem (3 items, $\alpha = .902$) | I have high self-esteem. | Rosenberg Self-Esteem Scale (1989) |
| | In general, I am satisfied with myself. | |
| | I have no doubt about my social competence. | |
| Self-Confidence (3 items, $\alpha = .795$) | I generally look at the brighter side of life. | Self-Confidence factor – Tafarodi and Swann (1995) |
| | I am confident that products are safe. | |
| | I am optimistic about the quality of products. | |
| Perceived Control (3 items, $\alpha = .681$) | To a great extent, my life is controlled by accidental happenings. | Levenson (1973) |
| | I feel like what happens in my life is mostly determined by powerful people. | |
| | How many friends I have depends on how nice person I am. | |

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5 The second task was intended to activate the self-control priming via a set of
6 random words and phrases (Srull and Wier, 1979). Participants were randomly
7 assigned to one of two conditions: self-control and neutral. Both priming conditions
8 followed the exact same procedure as in Study 1.
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13 After the self-control priming activation, we thanked the participants and asked
14 them to begin the third task. The following instructions were given to the participants:
15 "*On the next page, you will be asked to simulate a shopping trip at the NBA Store*
16 *website. Please click on the product (or products) that you want to buy. You can buy as*
17 *much as products as you want.*" Then, on the next page, participants entered an online
18 shopping simulation based on the original NBA website (see Figure 2 for details):
19 "Welcome to the NBA Store website. Please click on the products that you wish to buy.
20 * You can choose as many products as you want".
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31 We have used an average of prices depicted in the NBA Store by June 2017
32 and used the same pricing strategy than the official website (i.e. prices ended with \$.99
33 values). In total, eight products with different prices were listed. To avoid problems with
34 participants' team preferences, we have used icons to represent the main categories
35 on the website: jerseys, T-shirts, jackets, bags, balls, hats, shorts, and socks. We have
36 also given participants the option to not buy anything ("not buying"). For that question,
37 we have used hot spot question on Qualtrics, in which participants clicked on the
38 products: "*Instructions: One click: means you would buy the product (the product turns*
39 *green). No click or two clicks: means you would not buy the product at all*". The
40 dependent variable was the total amount of cost of the products participants chose to
41 buy.
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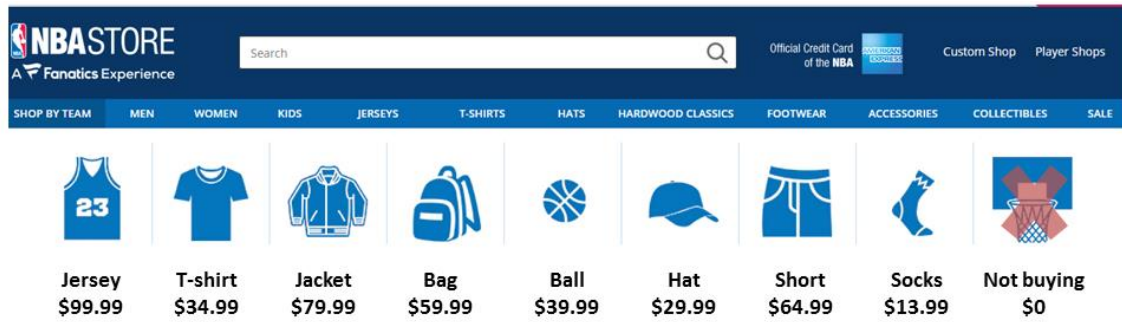


Figure 2: NBA Store simulation in Study 2.

The respondent should then choose products to buy (or not) from their favorite team. To activate temporal distance (future vs present), participants were randomly assigned between-subjects in one of the two conditions: “Please click on the products that you wish to buy NOW, today, during this research” or “Please click on the products that you wish to buy in the FUTURE, six months from today”.

After that, we have also controlled for participants’ involvement in basketball, and average spending for sport-related merchandise during the NBA season. We have measured participants involvement to the sport (basketball), in a differential semantic scale ($\alpha = .916$; 6 items): I hate basketball : I love basketball; Not a fan of basketball : I am a fan of basketball; I don't watch basketball matches: I usually watch basketball matches; I do not go to basketball arena: I often go to basketball arena; I do not buy basketball merchandising: I often buy basketball merchandising; I know nothing about basketball: I know everything about basketball. We have also asked for participants’ favorite basketball team and their average spending in sport-related merchandising during the NBA season. These variables were controlled for during the analysis of study 2 and did not influence the results. Finally, participants were interrogated to verify the procedures for debriefing (Bargh and Chartrand, 2000; Fitzsimons and Shiv, 2001). They were then thanked and dismissed.

Results and Discussion

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3 *Choices made by participants.* The three-way ANOVA indicate that there is a
4 significant interaction between chronic optimism, self-control, and temporal distance
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7 ($F_{(1,130)} = 5.74$; $p < 0.05$) (see Figure 3).
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9 *Optimistic bias.* The ANOVA indicates that in the self-control condition,
10 participants had lower spending for future choices ($M = \text{US\$ } 72.06$) when compared to
11 the neutral condition (no self-control information) ($M = \text{US\$ } 156.94$) ($F_{(1,130)} = 7.20$; $p <$
12 0.01). People purchasing for today's game (present) will make more indulgent choices
13 when purchasing six months from now (future), when they will tend to exercise more
14 control in their purchases of sporting goods, providing further support for H_1 . Regarding
15 the neutral group, there were no significant differences between present choices ($M_{\text{self-}}$
16 $\text{control} = \text{US\$ } 85.27$) ($M_{\text{neutral}} = \text{US\$ } 56.21$) ($F_{(1,130)} = .64$; ns).
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26 *Pessimistic bias.* For the pessimistic bias, the ANOVA do not indicate a
27 difference between priming effects. In the self-control condition, participants similar
28 spending for future choices ($M = \text{US\$ } 110.88$) when compared to the neutral condition
29 (no self-control information) ($M = \text{US\$ } 84.02$) ($F_{(1,130)} = .55$; $p < ns$). Regarding the
30 neutral group, there were no significant differences between present choices ($M_{\text{self-control}}$
31 $= \text{US\$ } 57.22$) ($M_{\text{neutral}} = \text{US\$ } 84.93$) ($F_{(1,130)} = .58$; ns).
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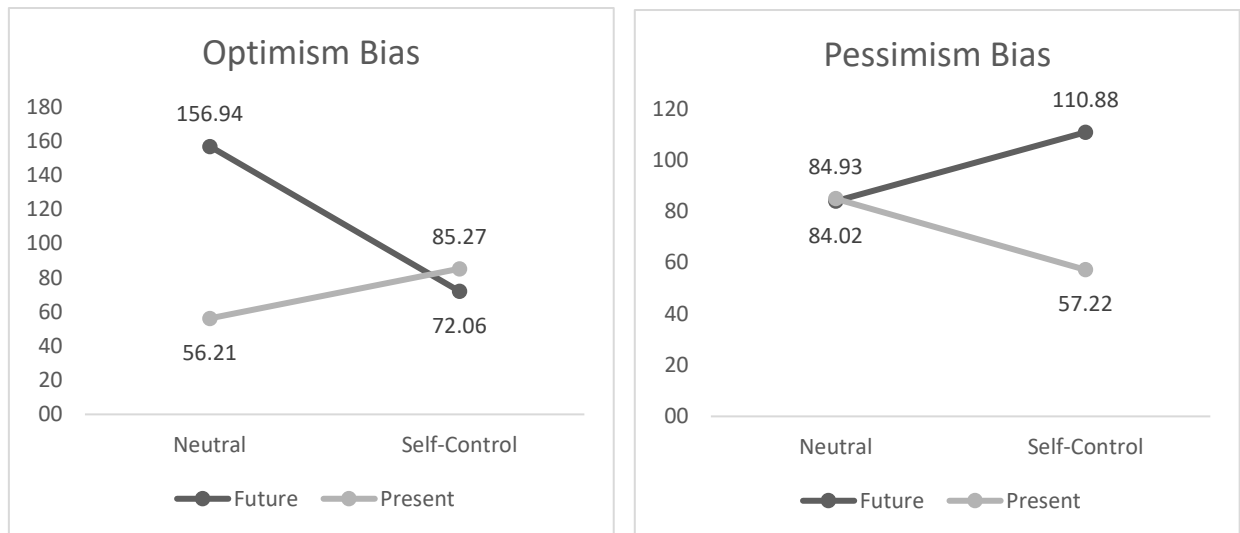


Figure 3: Results of Study 2 – Willingness to Spend (in US\$)

Mediation Analysis. This section analyzes the mediation process of self-control and temporal distance, moderated by judgment bias (Model 10 - Hayes, 2013). In this study, we have measured several potential mediators (perceived control, mood, self-esteem, and self-confidence) to test the main process and alternative paths. The analyses use the bootstrap procedure suggested by Hayes (2013) and Zhao *et al.* (2010). All the analysis presented in this section use the Hayes (2013) macro for SPSS® and 5,000 bootstrapped samples. In the bootstrapping procedure, the indirect effect (axb) is significant when the confidence interval excludes zero (Zhao *et al.*, 2010). The models assigned the four variables as the mediator (perceived control, mood, self-esteem, and self-confidence), self-control as the independent variable, judgment bias as moderator, total amount of purchase as the dependent variable, and involvement in the sport as the covariate. Involvement with the sport was an important covariate regarding the total amount of spending and was controlled for during the tests (effect = 23.55; 95% CI: 12.30 to 34.80).

Results support the mediation of perceived control, but not for the alternative mediators (mood, self-esteem, and self-confidence). The bootstrap analysis shows that

the indirect effect of self-control and judgment bias through perceived control was significant for consumers with chronic optimism and in future decisions (indirect effect (a x b) = 12.30; 95% CI: .68 to 34.09), supporting H₂. The positive valence of the mediation effects suggests that self-control is driving the effects. That is, consumers in self-control condition seem to have more perceived control of the situation, and are more optimistic about future decisions, increasing the spending on sports merchandise related to their team. The findings also indicate that perceived control does not mediate total amount of spending in the team when consumers are chronically pessimistic (indirect effect (a x b) = -3.03 and 3.29, *ns*) or when they are chronically optimistic but make decisions for the present (indirect effect (a x b) = 12.12, *ns*). Table 2 presents the mediation results for perceived control. Results for alternative mediators (mood, self-confidence, and self-esteem) did not reach significance (for details, please see the appendix).

Table 2. Mediation of Perceived Control

| Temporal Distance | Judgment Bias | Effect | BootLLCI | BootULCI | P |
|-------------------|---------------|--------|----------|----------|-----------|
| Future | Pessimism | -3.03 | -24.34 | 8.17 | <i>ns</i> |
| | Optimism | 12.30 | .68 | 34.09 | *** |
| Present | Pessimism | 3.29 | -24.08 | 10.33 | <i>ns</i> |
| | Optimism | 12.12 | -.26 | 40.11 | <i>ns</i> |

*** $p < .05$

STUDY 3: The Effects of Team Optimism in a Real Soccer Season

Study 3 provides further evidence for our hypotheses, using a different form of judgment bias that could influence access to self-control information. This study extends the previous studies in two ways. First, we have measured participants' optimism and pessimism towards their team (adapted from LOT-R Scale – Scheier et al., 1994). The optimistic or pessimistic bias was determined by whether the soccer

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3 team had a prosperous or a bad season. We have used real data from Brazilian Soccer
4 League A (see the method for details). Thus, the study can verify that the purchase
5 intention was based on an optimistic or a pessimistic bias that is based on real team
6 performance, during a national championship. Second, study 3 was also used to
7 increase the external validity of the results, using an online sample from a major
8 national sports website (ESPN – Entertainment and Sports Programming Network).
9 ESPN is the leading provider of multi-platform sports content in the Brazilian media.
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20 **Method**

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22 *Participants and Procedure.* One hundred and third-six participants, aged 15 to
23 69 years, located in more than 10 states from a major Brazilian sports website
24 (ESPN.com.br) were invited to participate in an online experiment (61.7% male, $M_{age} =$
25 35.59, $SD = 12.79$). In exchange for participation, subjects participated in a raffle of a
26 soccer jersey of their favorite team. The design of the experiment was 2 (Judgment
27 bias: optimism *versus* pessimistic bias) x 2 (priming effect: self-control vs. neutral) x 2
28 (temporal distance: present *versus* future). As in Study 2, the priming effect, judgment
29 biases, and temporal distance were manipulated between-subject. The questionnaire
30 was conducted in Portuguese, and the scales translated using the procedure of back-
31 translation (Zikmund and Babin et al., 2008).
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43 *Procedure and stimuli.* The procedures of study 3 were implemented similarly to
44 those employed for the same three tasks in study 2. There were differences only in the
45 second task, which involved the measurement of judgment bias towards their soccer
46 team (adapted from Scheier et al., 1994), enabling optimistic (vs. pessimistic) bias for a
47 prosperous (vs. bad) year. Participants informed their favorite soccer team and after
48 that, we have measured participants' optimism and pessimism towards their team
49 (adapted from LOT-R Scale – Scheier et al., 1994). The optimistic or pessimistic bias
50 was determined by whether the soccer team had a prosperous or a bad season.
51 Exemplars of team optimism were found among supporters of *Corinthians* and *Grêmio*,
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3 while exemplars of team pessimism were found among supporters of *São Paulo e EC*
4 *Vitória*. We have used real data from Brazilian Soccer League A (see Appendix). Top
5 10 teams were considered in a good season (team optimism) and teams in the bottom
6 10 places were considered to have a bad season (team pessimism). Results from one-
7 way ANOVA suggest that participants that support teams in a good season had higher
8 levels of optimism towards their team ($n = 76$, $M = 5.44$), than participants with bad
9 season teams ($n = 60$, $M = 4.87$) ($F_{(1,134)} = 11.25$; $p < 0.01$). More importantly, the
10 results of participants' optimism or pessimism towards their team were not influenced
11 by their chronic level of judgment bias (LOT-R): chronic optimism $M = 5.04$; chronic
12 pessimism $M = 5.03$ ($F_{(1,134)} = .003$; ns).

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24 After the task of priming activation, we thanked the participants and asked them
25 to begin the shopping task. We have used an average of prices depicted in the major
26 Brazilian online store by June 2017 and used the same pricing strategy (i.e. prices
27 ended with R\$.90 values). In total, eight products with different prices were listed. To
28 avoid problems with participants' team preferences, we have used icons to represent
29 the main categories on the website: official jerseys, T-shirts, jackets, bags, balls, hats,
30 shorts, and socks. As in Study 2, we have also given participants the option to not buy
31 anything ("not buying"). The dependent variable was the total amount of cost of the
32 products participants chose to buy (values in Brazilian Reais – BRL).

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43 The respondent should then choose products to buy (or not) from their favorite
44 team. To activate temporal distance (future vs present), participants were randomly
45 assigned between-subjects in one of the two conditions: "*Please click on the products*
46 *that you wish to buy NOW, today, during this research*" or "*Please click on the products*
47 *that you wish to buy in the FUTURE, six months from today*".

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54 After that, we have also controlled for participants' involvement in soccer, and
55 average spending for sport-related merchandise during the Brazilian soccer season.
56 Similarly to Study 2, we have measured participants' involvement in the sport (soccer),
57 in a differential semantic scale ($\alpha = .927$; 6 items). We have also asked for participants'
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3 favorite soccer team and their average spending in sport-related merchandising during
4 the Brazilian soccer season. These variables were controlled for during the analysis
5 and did not influence the results. Finally, participants were interrogated to verify the
6 procedures for debriefing (Bargh and Chartrand, 2000; Fitzsimons and Shiv, 2001).
7 They were then thanked and dismissed.
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13 14 15 **Results and Discussion**

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17 *Participants' Chronic Optimism.* The three-way ANOVA indicate that there is a
18 significant interaction between chronic optimism, self-control, and temporal distance
19 ($F_{(1,128)} = 5.51; p < 0.05$). To provide a better understanding of the results, we ran a
20 bootstrap analysis (model 3 – Hayes, 2013). The analyses use the bootstrap procedure
21 suggested by Hayes (2013) and Zhao *et al.* (2010). The model assigned self-control as
22 the independent variable, chronic judgment bias as moderator, total amount of
23 purchase as the dependent variable, and involvement in the sport as the covariate.
24 Involvement with the sport was an important covariate regarding the total amount of
25 spending and was controlled for during the tests (effect = 19.30; 95% CI: 10.62 to
26 27.99).
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39 The bootstrap analysis shows that the indirect effect self-control and judgment
40 bias was significant for consumers with chronic optimism and in future decisions
41 (indirect effect (axb) = 89.39; 95% CI: -1.55 to 180.33, $p = .0054$), providing further
42 support to H1. The positive valence of the indirect effects suggests that consumers in
43 self-control condition and are more optimistic about future decisions, tend to increase
44 the spending on sports merchandise related to their team. The findings also indicate
45 that self-control does not influence the total amount of spending in the team when
46 consumers are chronically pessimistic (indirect effect (a x b) = 14.01, *ns*).
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56 *Team Optimism.* In this section, we analyze the results for team optimism. We
57 ran a bootstrap analysis (model 3 – Hayes, 2013), using the procedure suggested by
58 Hayes (2013) and Zhao *et al.* (2010). The model is similar than previous analysis with
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3 the difference of using team judgment bias as moderator (instead of chronic
4 optimism/pessimism). Again, involvement with the sport was an important covariate
5 regarding the total amount of spending and was controlled for during the tests (effect =
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9 23.73; 95% CI: 12.35 to 35.11).

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11 The bootstrap analysis shows that the indirect effect self-control and judgment
12 bias was significant for consumers when the team season is good (i.e. team optimism)
13 (indirect effect (axb) = 146.74; 95% CI: 41.49 to 251.98, $p < .01$), providing further
14 support to H1. The positive valence of the indirect effects suggests that consumers in
15 self-control condition and are more optimistic about their teams, tend to increase the
16 spending on sports merchandise. The findings also indicate that self-control does not
17 influence the total amount of spending in the team when consumers are chronically
18 pessimistic about their teams (i.e. the team is in a bad season) (indirect effect (a x b) =
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-18.23, *ns*).

GENERAL DISCUSSION

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37 This article investigated how optimistic and pessimistic bias and temporal
38 distance can influence consumers' willingness to spend. Three studies conducted in
39 the context of sports goods uncover an important boundary condition of temporal
40 distance on self-control decisions. Conversely to previous research, the results show
41 that optimistic (vs. pessimistic) bias can lead to more indulgent choices in the present
42 and to greater self-control in the future. The findings also reveal that perceived control
43 mediates the effects of judgment bias and temporal distance. When participants have
44 chronic optimism (vs. pessimism), it will result in greater perceived control in the future
45 (vs. present), which in turn will influence self-control decisions.

Theoretical Implications

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3 The findings have important implications regarding self-control decisions,
4 providing two main contributions to the literature. First, this paper integrates bodies of
5 knowledge that were studied separately in the academy: influence of optimistic biases
6 in social judgment and temporal distance. The findings contribute to the research on
7 self-control and temporal distance, demonstrating that judgment bias can change the
8 way consumers focus on self-control decisions in the present and in the future. Our
9 results suggest that the optimistic bias reverses the results of the previous research
10 (Laran, 2010), leading to more indulgent choices and preferences in the present and
11 greater self-control in the future.
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22 Second, we contribute to the analysis of the effects of judgments on temporal
23 distance, since consumers tend to use biases unconsciously to evaluate products and
24 analyze future shopping behavior (Tanner and Carlson, 2009). The influence of
25 optimistic biases in social judgment has generated much discussion of the processes
26 that may underlie them (Chambers and Windschitl, 2004; Price, Smith, and Lench,
27 2006). Much of this research has focused on comparative social processes that can
28 produce judgments that are optimistic (vs. pessimistic). Our findings provide a deeper
29 understanding of the mediation process of judgment bias and temporal distance
30 through perceived control. The results reveal that optimistic (vs. pessimistic) bias and
31 temporal distance is mediated by the level of perceived control. Finally, we also provide
32 evidence to rule out alternative explanations of the mediating process (humor, self-
33 confidence, and self-esteem).
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50 **Practical Implications**

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53 Managers and retailers of brands and sports teams can use the results of this
54 study to improve their short-term and long-term strategies. Sporting goods brands can
55 distribute their inventories of products within a timeline and make marketing decisions
56 based on the judgment biases of their fans. For instance, companies can focus their
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3 marketing effort on the future when consumers hold a pessimistic view of their team
4 since the sports fans are likely to exhibit self-control in the present. However, in the
5 future, the consumers tend to become more indulgent in their purchasing decisions.
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7 The reverse is also true. That is, if consumers hold an optimistic view of their team,
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9 companies should focus their marketing efforts on the present, as the fan will exhibit
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11 greater indulgence in the present and self-control in the future.
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16 Sports teams can also use the findings of this research to organize their loyalty
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18 strategies, which are often pursued through membership campaigns. We believe that
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20 our results help managers adapt short- and long-term marketing efforts, such as loyalty
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22 programs. It is common to note the investment of sports clubs in loyalty program
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24 programs (e.g., FC Barcelona, New England Patriots, Golden State Warriors). These
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26 programs promote short- and long-term purchasing decisions. Managers of these
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28 loyalty programs should be aware based on the momentary chronic judgments of its
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30 fans. Based on our findings, we also believe that the long-term management of
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32 competitions (e.g., FIFA, NBA, NFL) should understand consumers chronic judgment
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34 biases and their effects on the consumption of present and future.
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38 Another sector that can also use the results of the paper to better develop their
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40 strategies is the sports brands sponsorship (for example, Nike, Adidas, Reebok, among
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42 others). These long-term contracts should be formulated by analyzing how pessimism
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44 and optimism bias can influence self-control decisions. This can influence the total
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46 amount of purchases of sports goods during the season. Managers of sports brands
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48 should not only concern themselves with the current performance of the athletes but
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50 also how consumers' chronic optimism in the present that may result in greater
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52 perceived control in the future (i.e., less spending in sports goods).
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55 **Limitations**

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3 This research presents important limitations that should be addressed in future
4 studies. The first study presented an important limitation in terms of judgment bias
5 manipulation. In Study 2, the optimism/pessimism bias was manipulated using a
6 scenario. We have adapted scenarios from the traditional view of judgment bias
7 (Scheier et al., 1994). Studies 2 and 3 aims to overcome this limitation and measures
8 participants' chronic optimism through LOT-R Scale (Scheier et al., 1994). This allows
9 reducing the limitation of the judgment bias scenarios used in Study 1.
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18 The temporal distance may be influenced beyond theories of pessimistic and
19 optimistic bias, such as: (i) elaboration on *pros* and *cons*, as discussed by Eyal,
20 Liberman, Trope, and Walther (2004); (ii) the mindsets of gain and loss, as discussed
21 by White *et al.* (2011); and (iii) extrinsic and intrinsic actions, as discussed by Choi and
22 Fischbach (2011). Specifically, future studies of this topic could seek to associate
23 replications of this experiment with elaborations of arguments or ideas.
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30 Another important limitation is the use of a personal chronic trait as a mediator
31 (perceived control). Our theoretical account for the mediation process is based on
32 previous literature on perceived control. We found in past research that the perception
33 of control can then directly modify biases in comparative judgments (Lin et al., 2004;
34 Kruger, 1999; Menon et al., 2009). However, it is important to note that other
35 mechanisms that induce control and judgment may have stronger effects on
36 respondents. Future studies can investigate alternative mediation processes for the
37 role of optimistic and pessimistic biases and temporal distance.
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47 In addition, this article explored self-control decisions in the present and future
48 in the context of purchase sporting goods. The option to spend or save money on a
49 specific sports article was presented to participants in various scenarios, based on self-
50 control and optimistic and pessimistic bias. Extensions of our research in different
51 consumption contexts are suggested to enable generalizations for our findings.
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3 Finally, Study 3 used an online sample from a major sports website (ESPN).
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5 Although we were not able to report response rate, we suggest that future studies
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7 using broader samples should evaluate nonresponse bias.
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APPENDICES

MEDIATION RESULTS – ALTERNATIVE MODELS

Table 3. Mediation of Mood

| Temporal Distance | Judgment Bias | Effect | BootLLCI | BootULCI | P |
|-------------------|---------------|--------|----------|----------|-----------|
| Future | Pessimism | -.43 | -10.61 | 3.20 | <i>ns</i> |
| | Optimism | .84 | -2.22 | 6.38 | <i>ns</i> |
| Present | Pessimism | 3.29 | -10.20 | 4.33 | <i>ns</i> |
| | Optimism | .93 | -4.11 | 14.36 | <i>ns</i> |

*** $p < .05$

Table 4. Mediation of Self-Esteem

| Temporal Distance | Judgment Bias | Effect | BootLLCI | BootULCI | P |
|-------------------|---------------|--------|----------|----------|-----------|
| Future | Pessimism | -.74 | -15.50 | 8.08 | <i>ns</i> |
| | Optimism | -.21 | -7.82 | 3.12 | <i>ns</i> |
| Present | Pessimism | 3.39 | -10.03 | 4.91 | <i>ns</i> |
| | Optimism | .28 | -4.57 | 10.75 | <i>ns</i> |

*** $p < .05$

Table 5. Mediation of Self-Confidence

| Temporal Distance | Judgment Bias | Effect | BootLLCI | BootULCI | P |
|-------------------|---------------|--------|----------|----------|-----------|
| Future | Pessimism | .37 | -3.37 | 9.81 | <i>ns</i> |
| | Optimism | 1.33 | -2.75 | 14.51 | <i>ns</i> |
| Present | Pessimism | .15 | -6.44 | 9.83 | <i>ns</i> |
| | Optimism | 1.11 | -2.89 | 15.39 | <i>ns</i> |

*** $p < .05$

TEAM OPTIMISM IN STUDY 3*

| Ranking | Team | Points |
|---------|---------------|--------|
| 1 | Corinthians | 36 |
| 2 | Grêmio | 28 |
| 3 | Santos | 24 |
| 4 | Flamengo | 24 |
| 5 | Palmeiras | 22 |
| 6 | Sport Recife | 21 |
| 7 | Cruzeiro | 21 |
| 8 | Vasco da Gama | 20 |
| 9 | Fluminense | 20 |
| 10 | Atlético | 20 |
| 11 | Botafogo | 19 |
| 12 | Coritiba | 19 |
| 13 | Chapecoense | 18 |
| 14 | Bahia | 16 |
| 15 | Atlético-PR | 16 |
| 16 | Ponte Preta | 15 |
| 17 | Avaí | 13 |
| 18 | São Paulo | 12 |
| 19 | EC Vitória | 12 |
| 20 | Atlético-GO | 8 |

* **Notes:** Data from July 17th, 2017 – Brazilian League A (Brasileirão Série A 2017).

Top 10 teams were considered in a good season (team optimism) and teams in the bottom 10 places were considered to have a bad season (team pessimism). Please see Study 3 for ANOVA results on participants' level of optimism (vs. pessimism) towards their team and on their chronic level of judgment bias.

1 **November 2017**

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5 **Revision notes: Manuscript “Self-Control Today, Indulgence Tomorrow? How Judgment Bias and**
6 **Temporal Distance Influence Self-Control Decisions”**
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10 Dear Editor,

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14 We would like to thank you again for the opportunity to review the paper. We have been working hard to get a
15 revised version following *Journal of Consumer Marketing* reviewers' suggestions. In this new version, we have
16 addressed all the comments from the reviewers, resulting in a substantial change in the paper. This shows our
17 commitment and interest in publishing this paper at *Journal of Consumer Marketing* in a timely manner. First, we
18 have revised the paper entirely to ensure consistency and clarification of constructs, removing any repetition in the
19 paper. As a result, the paper reads better now and is much shorter (around 7300 words). Second, we have
20 included a discussion on methodological issues pointed by the AE and reviewer. Third, we agree with the AE and
21 reviewer to point the limitation of sports context. Since we have already collected two additional studies during the
22 previous review rounds, we have included the context limitation in the general discussion. We thank the editor and
23 AE for this possibility. Finally, we have followed the AE suggestion and changed the title: “Self-Control Today,
24 Indulgence Tomorrow? How Judgment Bias and Temporal Distance Influence Self-Control”.

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27 We are sending the new version of the manuscript and this letter, in which you will find our response to each of the
28 reviewer's comments. Once again, we thank the editor and anonymous reviewers for helping us to improve the
29 paper. So far, we have substantially changed the paper, collected two additional studies, and even received a new
30 title suggestion. We would really like to thank the editor, AE, and reviewers for your help and dedication reviewing
31 our paper!

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38 Best regards,

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| EDITOR | OUR RESPONSE |
|---|---|
| The AE is in agreement with the reviewer that the use of terminology and relationships between constructs need clarification and consistent usage. Please see both the reviewer and AE comments. | We thank the AE and reviewer for this comment. We have revised the paper entirely to ensure consistency and clarification of constructs. |
| Further, the AE finds the front end to be somewhat repetitive / some sentences that need revising. Eliminating the repetition will improve readability, but importantly will also help you cut the word count. | We have revised the entire paper and removed any repetition in the paper. As a result, the paper reads better now and is much shorter. |
| Right now, your manuscript is at 9700 words, and the JCM word count limit is 8000 words. | We have followed the AE and reviewer suggestion. Now the paper has around 7300 words. |
| Please provide complete reporting of statistics and justification of the optimism/pessimism manipulation. | We have now included a complete reporting of statistics. We also provide a justification for the optimism/pessimism manipulation in Study 1. We have tried to overcome this limitation by using an optimism/pessimism scale (LOT-R scale – Scheier et al., 1994) in Studies 2 and 3. |
| Likewise, please offer an explanation regarding the perceived control measure, or include as a weakness in your limitations. | We have included an explanation regarding perceived control measure. In addition, we offer a discussion in the limitations section. |
| I do agree that it is unfortunate that all studies examine the sports memorabilia context. Though optimally a new study with a different context would be added, I am willing to go with the AEs suggestion that you acknowledge this as a limitation in the paper. | We agree with the limitation of sports context. Since we have already collected two additional studies during the previous review rounds, we have included the context limitation in the general discussion. We thank the editor and AE for this possibility. |
| Finally, the AE suggests a title change to better capture what the paper examines. | We have followed the AE suggestion and changed the title. We thank the AE for this suggestion because now the title captures better the idea of the paper. New title (following AE and reviewer suggestion): “Self-Control Today, Indulgence Tomorrow? How Judgment Bias and Temporal Distance Influence Self-Control” |
| ASSOCIATE EDITOR | OUR RESPONSE |
| I agree with the reviewer that the terminology used throughout the paper needs to be tightened (...“balance between self-control and temporal distance”..CLT vs. temporal distance, etc.). I think the title of the paper is also a bit misleading: “Self-Control Today, Indulgence Tomorrow? How Judgment Bias Influences Self-Control and Temporal Distance” – this seems to suggest as if “Judgement Bias” influences “Temporal Distance” which is clearly not the case. Did you mean to say....“Self-Control Today, Indulgence Tomorrow? How Judgment Bias and Temporal Distance Influence Self-Control”? | We have revised the terms according to the reviewer’s suggestion. We have removed all references to the “balance between self-control and temporal distance”. We also agree that the title might be misleading. So, we used a new title following reviewer and AE suggestion. New title (reviewer and AE suggestion): “Self-Control Today, Indulgence Tomorrow? How Judgment Bias and Temporal Distance Influence Self-Control” |
| I am glad to see that more thought and discussion has gone into motivating H1 and H2. But in its current form, some of the front end theory is too spread out and repetitive. Multiple times in the paper, we are told in detail about the Laran etc. findings. The description of what is an optimistic and pessimistic judgment bias, or who is an optimist/pessimist, is also repeated at least twice. There is potential to eliminate these repetitions and tighten the front end of the paper. Currently, the front end occupies 9.5 pages. I think you should aim for cutting it down. Also, please take another stab at copy editing the paper and removing/altering some of the sentences like....“Studies of optimistic and pessimistic biases of judgment were always present in people’s decision-making studies”. This would significantly improve the readability of the manuscript. | We thank the reviewer for this suggestion. We have revised the entire paper and removed any repetition in the paper. As a result, the paper reads better now and is much shorter. We have cut more than 2000 words in the paper. Now the paper has around 7300 words. |
| Also, some of the sentences in the paper don’t seem to make much sense..... “People tend to believe that good things are more likely to happen to themselves whereas other people | We thank the reviewer for pointing out these sentences. We have now removed and changed several sentences in the paper to improve |

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| <p>1 believe that bad things are more likely to happen to 2 themselves compared to a normal person”..... “The general 3 level of optimism and pessimism in society can directly affect 4 the economy and, as a consequence, consumer actions the 5 mood of financial decision makers and can lead to the market 6 phenomenon (Nofsinger, 2005)”. Please remove or amend 7 these.</p> | <p>readability.</p> |
| <p>8 I am glad that you have collected evidence for the mediating 9 role of “perceived control”. However, your measure for 10 “perceived control” is a chronic/trait measure and not a 11 situational measure. It is generally not acceptable to use a trait 12 measure and demonstrate that it changes based on situational 13 manipulations within an experiment. I think it is important to 14 either offer an explanation or acknowledge this weakness.</p> | <p>We have included an explanation regarding perceived control measure. Our theoretical account for the mediation process is based on previous literature on perceived control. Although we understand the AE concern about perceived control being a chronic trait, we found in past research that the perception of control can then directly modify biases in comparative judgments (Lin et al., 2004). Situations with a greater perceived control lead to optimistic judgments (Kruger, 1999), whereas lower perceived control situations lead to pessimistic judgments (Menon et al., 2009). In addition, we offer a discussion in the limitations section.</p> |
| <p>21 I also agree with the reviewer that it is unfortunate that all your 22 studies only examine the sports memorabilia context. Please 23 acknowledge this as a limitation of this paper.</p> | <p>We acknowledge the limitation of sports context. Since we have already collected two additional studies during the previous review rounds, we have included the context limitation in the general discussion. We thank the editor and AE for this possibility.</p> |
| <p>27 Some of the references in the paper are missing. I found at 28 least one: Van Raaij and Gianotten, 1990. Please check to see 29 if there are more.</p> | <p>We have checked all the references in the paper. We have removed several references that were missing or repeated, reducing paper size.</p> |
| <p>31 There seem to be two tables in the paper marked as “Table 2”. 32 Please correct this.</p> | <p>We have solved the tables problem with a new round of careful copy editing.</p> |
| <p>REVIEWER 1</p> | <p>OUR RESPONSE</p> |
| <p>34 1. While I appreciate the more in-depth literature review has 35 done a good job of justifying the importance of the main 36 question, I think this manuscript could benefit strongly from 37 reviewing the terminology used in the paper. There are several 38 terms that are used in ways that confuse the main point of the 39 paper (at least on my read). A few of these that seem most 40 important for clarity: 41 a. The phrase “balance between self-control and temporal 42 distance” is used several times in the paper, including in H2, 43 and I am let confused each time. This sounds more like a 44 tradeoff between self-control and temporal distance, and it 45 seems from the paper what is really intended is a moderation 46 on the relationship between temporal distance and self-control, 47 specifically by optimism/pessimism? 48 b. Not purchasing and self-control seem to be used 49 interchangeably at times, but since self-control is manipulated, 50 it’s confusing to suggest that the people who are not 51 purchasing in the non-self-control condition are also exhibiting 52 self-control. 53 c. At times “CLT” and “present/future” seem to be used 54 interchangeably. Talking about the future vs present is more 55 than a “CLT” manipulation, and should be treated more generally as temporal distance.</p> | <p>We have revised the terms according to the reviewer’s suggestion. We have removed all references to the “balance between self-control and temporal distance” and we have carefully read the concepts related to self-control and CLT, as pointed by the reviewer.</p> |
| <p>56 2. The evidence seems to entirely focus on situations with 57 purchasing sporting team swag, but the justification for the 58 question is about consumer purchases in general. Yet people 59 seem unusually superstitious around sports memorabilia, so I 60 wonder whether the results you find in this domain extend to other domains or not. Either more justification should be provided about why we want to understand sporting goods purchases in particular, or some evidence should be provided</p> | <p>We acknowledge the limitation of sports context. Since we have already collected two additional studies during the previous review rounds, we have included the context limitation in the general discussion. We thank the editor and AE for this possibility.</p> |

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|---------------------------------|--|--|
| 1 2 3 4 5 6 7 | that this pattern exists beyond sports memorabilia. 3. Across studies, statistics are often reported incompletely, for example without degrees of freedom, and there is often no means or s.d.'s outside of figures. This makes difficult to examine the tests that were run. Particularly important to report to increase confidence that the mixed design study applied an appropriate model. | We have reported the missing statistics. We thank the reviewer for this suggestion. |
| 8 9 10 11 12 | 4. I would like to see some more justification for the optimism/pessimism manipulation. Was it used previously, or pretested, or manipulation check (the quality of the players they named was not convincing that what was manipulated was a view of the future that is artificially positive or negative)) | We have now included a complete reporting of statistics. We also provide a justification for the optimism/pessimism manipulation in Study 1. We have tried to overcome this limitation by using an optimism/pessimism scale (LOT-R scale – Scheier et al., 1994) in Studies 2 and 3. |
| 13 14 15 16 | 5. When reporting results, in several places the direction of the relationships is not specified. Describing in the narrative the direction of relationships rather than in terms of “differences” would make understanding the results much more clear. | We have now reported results showing the direction of the relationships. We thank the reviewer for this comment. |

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Self-Control Today, Indulgence Tomorrow? How Judgment Bias and Temporal Distance Influence Self-Control Decisions
Self-Control Today, Indulgence Tomorrow? How Judgment Bias Influences Self-Control and Temporal Distance

Abstract

Purpose: This research ~~aims to analyze~~analyzes how judgment bias (optimism vs. pessimism) ~~and temporal distance~~ influences ~~the balance between~~ self-control ~~decisions and temporal distance~~. This research proposes that optimism (vs. pessimism) bias can reverse previous research findings, leading to greater self-control in the future and greater indulgence in the present. This research also analyzes the mediating role of perceived ~~control~~ control on judgment bias and temporal distance ~~and alternative mediators on judgment bias and self-control decisions~~.

Design/methodology/approach: Three ~~experiments studies~~ (1 laboratory and 2 nationwide online experiments) ~~analyze~~ analyze the balance between self-control and temporal distance on consumers' willingness to pay for sporting goods, according to optimism or pessimism bias. how judgment bias and temporal distance influence self-control decisions on consumers' willingness to pay.

Findings: The ~~present research extends previous findings~~ uncover an important boundary condition of temporal distance on self-control decisions, showing that judgment bias (optimism vs. pessimism) influences the balance between self-control and temporal distance. In contrast to previous research, the findings indicate that individuals exposed to optimism (vs. pessimism) bias display more self-control in the future and make choices that are more indulgent in the present. The findings also reveal that perceived control mediates the effects of judgment bias and temporal distance.

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10 **Practical implications:** ~~These results~~The findings help managers to adapt short and
11 long-term marketing efforts, based on ~~the consumers'~~ momentary judgment biases of
12 ~~consumers (pessimism vs optimism)~~ and on their consumers' chronic judgment bias
13 orientation.

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16 **Originality/value:** ~~Theoretically, it~~ this research contributes to the research literature on
17 self-control and temporal distance, showing that judgment bias can change how
18 ~~consumers focus on~~reverses previous research findings on self-control decisions in
19 ~~the present and in the future.~~

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24 **Key-words:** self-control, judgment bias, temporal distance, optimism and pessimism
25 bias, construal level
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INTRODUCTION

East Rutherford, NJ, 2014: "The Seattle Seahawks have won their first Super Bowl title, crushing the favored Denver Broncos 43-8" (NFL.com, 2014).

Rio de Janeiro, Brazil on 8 July 2014: "Brazil v Germany: the biggest humiliation in the history of Brazilian football. A 7-1 thrashing in the World Cup signals the night the music died" (The Telegraph, 2014).

After the Super Bowl or FIFA World Cup, supporters of one team experience positive outcomes, while supporters of the other team experience negative outcomes. ~~Because of judgment biases, supporters may inflate or deflate their expectations of satisfaction from subsequent purchasing decisions, leading consumers to evaluate their choices~~ through optimistic or pessimistic lenses. These biases in judgment can lead to optimism bias (i.e., a tendency to expect positive outcomes) or a pessimism bias (i.e., a tendency to expect negative outcomes). ~~Because of judgment biases, consumers inflate or deflate their expectations of satisfaction from subsequent purchasing decisions.~~ Therefore, consumers may increase or reduce their consumption ~~at different times, variously~~-employing self-control ~~or indulgence~~-mechanisms in their actions (Goodman and Malkoc, 2012).

~~Recent~~ Research supports the notion that ~~the balance between~~ self-control and indulgence ~~depends~~ on temporal distance (Laran, 2010). Past studies show that self-control information persuades individuals to exercise self-control in the present but tends to orient them toward indulgence in the future (Laran and Janiszewski, 2009). Although ~~some previous~~ research ~~finds suggests~~ that people tend to perceive the future more clearly than the present (Busseri, Choma, and Sadava, 2009), this behavior is subject to change. ~~This is because optimists will normally expect positive results in the future, while pessimists will expect poor results (Schoier and Carver, 1985).~~ For example, in the context of sports, expectations of positive results are

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normally greater than expectations of defeat for team fans. In this case, the immediate present interferes with-in the decisions about the future (Hirut, Zillmann, Erickson, and Kennedy, 1992).

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~~Drawing on previous research, this paper addresses the following research question: How does optimism (vs. pessimism) bias influence the balance between self-control and temporal distance? The current work his research extends previous research in proposing/proposes that optimism and pessimism judgment biases influence the effects of and temporal distance influence on self-control decisions. Our studies suggest that consumers induced to exhibit self-control are more likely to be persuaded in the future but oriented toward indulgence in the present, contributing to previous research (Shah, James, Kruglanski, and Arie, 2003; Laran, 2010; Goodman and Malkoc 2012).~~

THE Moderating ROLE OF JUDGMENT BIAS, on Self-control AND TEMPORAL DISTANCE, AND SELF-CONTROL DECISIONS

Extensive research on decision-making has studied the role of optimistic and pessimistic judgment biases on consumption (Mueller, 1957, Tobin, 1959, Katona, 1975, Weinstein, 1980). The optimistic judgment bias is a trait that expresses the tendency of individuals to think that they are less likely than others to experience negative events and are more likely to experience positive events (Helweg-Larsen and Shepperd, 2001). Marketing studies have analyzed the effects of optimistic and pessimistic biases on consumer intentions and attitudes (Kochlar and Poon, 2006, Nguyen and Claus, 2013), spending and saving behavior (Katona, 1974, Zullo, 1994), consumer satisfaction (Westbrook, 1980, Johnson et al., 1995, Pasavae et al., 2005), in predicting future behavior (Adams, 1965, Tanner and Carlson, 2009, Yang and Urminsky, 2015).

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~~-purchase patterns for in the present *versus* future (Trope, Liberman, and Wakslak, 2007; Eyal, Liberman, Trope, and Walther, 2004). This occurs because present decisions are richer in detail (concrete) than future ones (abstract) (Liberman and Trope, 1998; Trope and Liberman, 2010). For example, a fan who plans to buy a ticket to watch a team on the today weekend or in six months. For the present situation (today) Many many details are involved in thinking concretely about the event, such (e.g. as which players are likely to play, the prices of tickets), the temperature on the day of the game, among others. C, whereas enversely, for the future situation (six months from now) a fan who plans to buy a ticket to watch his or her team in six months will represent the event more abstractly, as it will not be possible to know the specific details (e.g. who will be playing, how much tickets will cost) and what the temperature will be on that day. According to CLT, this occurs because our ideas (cognitions and thoughts) about the distant future are abstract and thus represented by simplified data, that is, without specific details (Freitas, Gollwitzer, and Trope, 2004; Laran, 2010; Goodman and Malkoc, 2012).~~

~~Consumers tend to use judgment biases to project their future consumption behavior (Tanner and Carlson, 2009). When people think about the near or distant future, they also make judgments that support their decisions. One key concept affecting judgment bias is the relationship of optimism/pessimism about future events (Lench and Ditto, 2008). Optimistic (vs. pessimistic) bias predisposes consumers to anticipate the good things that can happen. We argue that consumers induced to exhibit self-control are more likely to be persuaded in the future but oriented toward indulgence in the present. It is important to analyze the effect of judgments on temporal distance since consumers tend to use judgment biases to evaluate products and analyze future shopping behavior (Tanner and Carlson, 2009). Judgments are guided by information biases about what individuals know and feel (Weinstein, 1980; Taylor, Lerner, Sherman, Sage, and McDowell, 2003; Menon, Kyung, and Agrawal,~~

H1. *Optimistic (vs. pessimistic) information bias will result in greater self-control in the future and greater indulgence in the present.*

THE Mediating Role MEDIATION of PROCESS OF PERCEIVED CONTROL ON JUDGMENT BIAS on Judgment Bias

This way of acting of the individuals decisions has have generated numerous explanations from the judgment bias perspective. Most of these explanations are in the motivational and non-motivational processes that consumers develop to reach a goal (Tanner and Carlson, 2009). This happens because judgment bias serves to protect and strengthen the self, producing thoughts that increase self-esteem and reduce perceived risk (Taylor and Armor, 1996). The judgments of optimism and pessimism tend to be enhanced when individuals make comparisons (Lin et al., 2004; Menon et al., 2009). One factor that influences biases in judgment is perceived control (Klein and Helweg-Larsen, 2002). The perception of control can then directly modify biases in comparative judgments (Kasser, 1999; Lin et al., 2004). Situations with a greater perceived control lead to optimistic judgments (Kruger, 1999), whereas lower perceived control situations lead to pessimistic judgments (Menon et al., 2009).

These Previous studies have demonstrated important advances emphasizing that people's perception of control and psychological distance can influence the effect of judgment bias can be influenced by people's perception of control. This perception of control can be attenuated by the distance from the target of social comparison (Menon et al., 2009).

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H2. *Perceived control mediates the effect of optimistic (vs. pessimistic) (vs. pessimistic) information bias and temporal distance on the balance between self-control decisions and temporal distance.*

OVERVIEW OF STUDIES

This research presents three studies (1 laboratory and 2 online experiments) used to analyze how judgment bias and temporal distance influence self-control and temporal distance on consumers' willingness to pay for sport goods. Judgment bias (optimism/pessimism) was measured by scenarios (Study 1), chronically assessed in terms of participants' orientation (Study 2) or measured using real performance of soccer teams during a nationwide national championship (Study 3). Study 1 analyzes the effect of optimistic (vs. pessimistic) scenarios bias on participants' willingness to spend for sporting goods. Study 2 examines the mediation process of perceived control in which participants' chronic judgment bias orientation influence self-control decisions in the present and in the future. Study 3 shows that participants' judgment bias towards soccer teams in a real competition situation also influence self-control decisions.

STUDY 1: The Effects of Optimistic Scenarios on the Purchase of Sport Goods

Study 1 aims to examine how judgment bias (pessimism versus optimism) and temporal distance may influence access to self-control information and thereby influence the purchasing of sporting goods from their team, whether in the present or the future. In Study 1, we aim to demonstrate that judgments made under bias may change the impact of self-control on the purchase of sporting goods from their team. Study 1 includes information regarding how optimism optimistic scenario (caused, for example, by e.g. hiring a good player a talented player)

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asking respondents to choose whether to buy sporting goods in the present and future.

We predicted that when exposed to the optimistic scenario, the priming information of self-control will tend to be inhibited. However, when exposed to the pessimistic scenario, the

Method

Participants and Procedure. Two hundred and eight participants, aged 17 to 54 years, from a major Brazilian University were invited to participate in a lab experiment (85.6% male, $M_{age} = 37.165$, $SD = 9.22$). The design of the experiment was 2 (temporal distance: present versus future) x 2 (Judgment: optimism bias versus pessimism bias) x 2 (priming effect: self-control versus neutral). The priming effect was manipulated between-subjects (which means i.e. the participants received self-control or neutral information), while the temporal distance factor was manipulated within-subjects (which means i.e. each participant made a choice for the present and the future). Further studies (2 and 3) were also conducted to reduce the within-subjects design limitation⁴. The questionnaire was conducted in Portuguese, and the scales translated using the procedure of back-translation (Zikmund and Babin et al., 2008).

Procedure and stimuli. The procedure of study 1 consisted of three tasks. The first task involved activation of the cognitive process through a set of words randomly shuffled presented, the second task involved the projection of a judgment by manipulating manipulation of optimism biases (hiring a good player) and pessimism biases (hiring a poor player), and the third task involved choosing a consumption choice for the near future present vs. the distant future. Participants entered the lab where the experiment was being conducted and completed the study seated in front of a computer.

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10 The first task was intended to activate the priming effect via a set of random
11 words and phrases ~~representing these sets~~ (Srull and Wier, 1979). Participants were
12 randomly assigned to one of two conditions: self-control and neutral. In the first
13 condition, participants were presented with a random set of words ~~that were shuffled~~
14 and then asked to select the phrase that best represented the words. Forty words were
15 grouped into four different blocks used to generate the self-control priming ~~effect~~. Each
16 block contained ten words that were randomly ~~dispersed~~ presented. Eight of these ten
17 words activated self-control, using expressions such as *save, uncertainty, risk, join,*
18 *restriction*, among others. The other two expressions were ~~common words~~ familiar
19 words that, at first, had no meaning, such as *water, car, night, dog, life*, among others.
20 After observing the set of words, the participant had to choose the one that best
21 represented the ten words from four options, such as "*Tomorrow is uncertain, so we*
22 *need to save.*" The search for words and the correct choice of phrases aimed to turn
23 the information into a priming effect of self-control.

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33 The second task was associated with the judgment of optimistic or pessimistic
34 bias. The optimism/pessimism bias was manipulated using a scenario. We have
35 adapted scenarios from the traditional view of judgment bias (Scheier et al., 1994).
36 However, instead of traditional scale items (e.g. "I'm always optimistic about my future".
37 "Overall, I expect more good things to happen to me than bad"), participants read a
38 scenario about their favorite team. Specifically, in the optimistic bias, participants were
39 stimulated to answer who was the best player in the championship and were told that:
40 "Your team has just hired this player". In contrast, participants in the pessimistic
41 scenario received instructions that their team hired the worst player of the
42 championship.

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49 After the ~~optimism/pessimism task of priming manipulation activation~~, we thanked the participants and
50 asked them to begin a new task. The following instructions were given to the
51 participants: "*Imagine that you only have R\$ 1,000 (US\$ 333.33) to spend during the*
52 *month, counting all costs*". The respondent should then choose two products to buy

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10 from their favorite team, one to use today in their team's game and one that they will
11 only be able to buy in six months. It was indicated to the respondents that the products
12 were linked to the team they cheered for. In total, six products with different prices were
13 listed. The original values were in Brazilian Reais (BRL). The values were converted
14 into dollars to facilitate the analysis. Products were not described, and only the prices
15 were linked to each: R\$ 50 (US\$ 16.66); US\$ R\$ 130 (US\$ 43.66); R\$ 160 (R\$US\$
16 500 (US\$ 166.66); R\$ 200 (US\$ 66.66) and R\$ 200 (US\$ 66.66). ~~The level of passion for the team, the original value of the product (R\$)~~

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21 After observing the prices of the products, respondents were asked to choose a
22 product that represented the present (to be used today at their team's game) and
23 another that represented the future (to be purchased in six months). Before choosing
24 products, respondents received a recommendation not to take into consideration the
25 current situation of their team. The participants were then asked to indicate, on a scale
26 of 1 to 100, their level of passion for their team. This measure was used to check the
27 manipulation. The mean level of passion was 56.43% (SD = 23.58). The summary
28 statistics show that the participants were not extremely passionate about their teams,
29 which could skew the data collected.

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36 *Pretest.* Forty participants from the same sample evaluated the type of product
37 that should be used. The suggestion was to designate parts of team uniforms as
38 choices for the present and future. These parts included: *main team jersey, second*
39 *jersey, workout jersey, goalkeeper jersey, cold outfit*, among others. However, most
40 participants first chose the main uniform of the team as a sign of identification. As this
41 would prevent a more parsimonious choice of the respondent, it was decided not to
42 identify the product but only the price. The product was named "sports article". When
43 asked about spending on a ~~possible product~~ product associated with the club they
44 cheered for, participants agreed that values between R\$ 50 (US\$ 16.66) and R\$ 260
45 (US\$ 86.66) would be acceptable to a person who earned between R\$ 1,000 (US\$
46 333.33) and R\$ 2,000 (US\$ 666.66) per month.

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10 The optimism bias participants were encouraged to indicate who they believed
11 was the best player currently playing. In the pessimistic scenario, participants were
12 encouraged to indicate who they believed was the worst player currently playing.
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14 Directly afterward, they were given the following stimulus: "*Your team has just hired*
15 *that player*". After these statements were made in both scenarios, two questions were
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17 asked to assess whether this news would have enabled positive feelings regarding
18 their judgments. The first question was whether their team had made a good choice.
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20 The response options were dichotomous (yes vs. no). The second question consisted
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22 of six statements, where the first three exhibited pessimism bias (*fans of other teams*
23 *would make fun of the participant's team; the participant's team would make fools of*
24 *themselves when announcing the hiring, and the fans of the participant's team would*
25 *revolt against the president of the team*), and the remaining three exhibited optimism
26
27 bias (*fans of other teams would be jealous of the participant's team; the participants*
28 *would be respected if this player were hired; and the fans of the participant's team*
29 *would support the decision of the president to hire this player*).

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34 Finally, participants were ~~thoroughly~~ interrogated to verify the procedures for
35 debriefing (Bargh and Chartrand, 2000; Fitzsimons and Shiv, 2001). Directly afterward,
36 participants were informed of the real purpose of the experiment. They were then
37 thanked and dismissed.
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42 Results and Discussion

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45 *Interpretation of the priming manipulation.* Through analysis of the first data set,
46 evidence of manipulation in the first task of the experiment can be observed. With
47 respect to the above time manipulation, we did not find a significant difference between
48 the averages in the self-control and neutral conditions ($F_{(1,208)} = 0.154$; *ns*). Participants
49 in the self-control condition were exposed to a longer ~~time~~ period ($M = 2$ minutes and
50 02 seconds) than those in the neutral scenario ($M = 1$ minute and 58 seconds).
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Judgment bias. The scenarios characterized by optimistic and pessimistic bias also elicited differences among participants. Under optimistic bias, responses indicated a good choice, while the opposite was true under pessimistic bias. With respect to which players participants regarded as potentially poor players, 84.3% of respondents named players on rival teams.

Choices made by participants. Figure 1 shows the averages of the choices made by the participants in the present and the future, in both the neutral and self-control scenarios, with differentiation between the pessimistic and optimistic biases. With respect to the ~~neutral scenario and the self-control~~ pessimistic bias scenario, the ANOVA indicated no significant differences between purchase decisions in the present ($F_{(1,97)} = 0.878$; $p = 0.354$, ns) and future ($F_{(1,97)} = 1.119$; $p = 0.293$, ns). That is, participants indicated similar willingness to pay for products in the future ($M_{neutral} = 63.53$; $M_{self-control} = 59.33$) and the present ($M_{neutral} = 31.93$; $M_{self-control} = 35.36$). With respect to the ~~neutral scenario and the self-control~~ optimistic bias scenario, the ANOVA showed significant differences between purchase decisions in the present ($F_{(1,111)} = 5.263$; $p < 0.05$) and non-significant differences between purchase decisions in the future ($F_{(1,111)} = 0.012$; $p = 0.914$). In particular, as expected, participants indicated lower willingness to pay for products in the present, when received self-control information ($M_{neutral} = 64.13$; $M_{self-control} = 54.06$). However, in the future participants reported similar willingness to pay ($M_{neutral} = 44.36$; $M_{self-control} = 43.93$).

Pessimistic bias. The *t*-test indicates a significant difference between priming effects. In the self-control scenario, present choices averaged $M = \text{US\$ } 35.36$, and future choices averaged $M = \text{US\$ } 59.33$, with a *t*-statistic of ($t_{(1)} = -6.265$; $p < 0.01$). In the self-control scenario, 84.14% of participants chose to make a more indulgent purchase in the future. For the neutral group, there was a significant difference ($t_{(1)} = -8.645$; $p < 0.01$) between present choices ($M = \text{US\$ } 31.93$) and future choices ($M = \text{US\$ } 63.56$). In the neutral scenario, 72.23% of participants chose to make a more indulgent purchase in the future.

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Optimistic bias. The t-test indicates a difference between priming effects. In the self-control condition, there is a significant difference ($t_{(1)} = 2.237$; $p < 0.05$) between present choices ($M = \text{US\$ } 54.06$) and future choices ($M = \text{US\$ } 43.93$). People purchasing for today's game (present) will make more indulgent choices when purchasing six months from now (future) when they will tend to exercise more control in their purchases of sporting goods. Regarding self-control, 67.24% of participants chose to make a more indulgent purchase in the present. Regarding the neutral group, there are significant differences ($t_{(1)} = 4.998$; $p < 0.01$) between present choices ($M = \text{US\$ } 64.13$) and future choices ($M = \text{US\$ } 44.36$). Purchases in the present are more indulgent, while purchases for the future exhibit greater self-control, which confirms H_1 . In the neutral situation, 86.11% of participants chose to make a more indulgent purchase in the present.

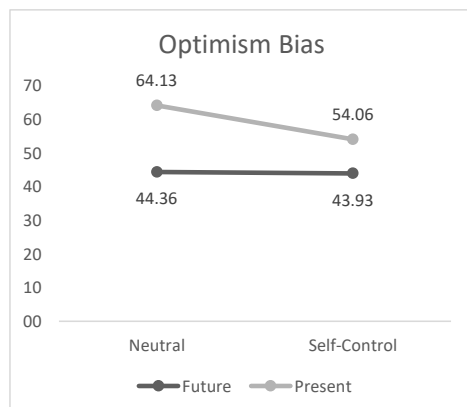
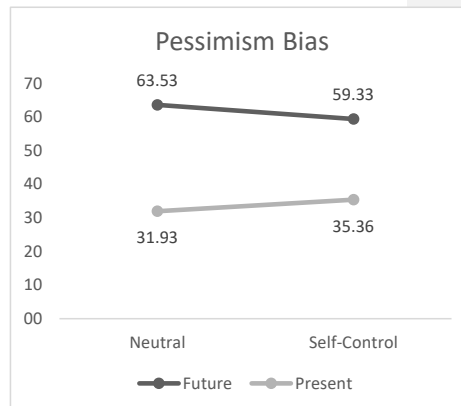


Figure 1: Results of Study 1 – Willingness to Spend (in US\$)

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10 The findings suggest that the scenario involving optimistic judgments reverses
11 the results of previous research (Laran, 2010). The results of study 1 show that
12 optimistic bias among supporters can lead to more indulgent choices and preferences
13 in the present and greater self-control in the future. Given an optimistic bias, one will
14 exercise greater self-control in the future, ~~whether in the self control or the neutral~~
15 ~~scenario, which confirms supporting~~ H₁. Furthermore, it was found that a pessimistic
16 bias among supporters can lead to choices and preferences that reflect greater self-
17 control in the present and more indulgent behavior in the future.
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24 **STUDY 2: The Effects of Chronic Optimism Mediated by Perceived Control**

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27 Study 2 aims to demonstrate that judgment bias (pessimism *versus* optimism
28 bias) may influence access to self-control information and thereby influence the total
29 amount of sports goods purchase according to temporal distance. Study 2 extends the
30 previous study in three ways. First, study 2 measures participants' chronic optimism
31 (using LOT-R Scale – Scheier et al., 1994), reducing limitation of the judgment bias
32 scenarios used in study 1. Second, this study activates positive feelings under the self-
33 control and neutral conditions, asking respondents to choose whether to buy sporting
34 goods in the present and future (between subjects design). Third, in study 2, we try to
35 demonstrate that judgments made under chronic optimism (vs pessimism) may change
36 the impact of perceived control on the purchase of sports goods (mediation process).
37 We predict that when participants have chronic optimism, will results in greater
38 perceived control in the future (vs. present). However, when participants have chronic
39 pessimism, the self-control priming information should not influence participants'
40 perceived control. In this study, the dependent variable was the total amount of cost of
41 the products participants chose to buy. We have asked basketball supporters to
42 simulate a shopping trip at the NBA Store website. We have also controlled for
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10 participants' involvement in basketball, and average spending for sport-related
11 merchandise during the NBA season².
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18 *Participants and Procedure.* One hundred and third nine participants, aged 18
19 to 72 years, from Amazon Mturk were invited to participate in an online experiment
20 (62.6% female, $M_{age} = 39.23$, $SD = 12.39$). The design of the experiment was 2
21 (judgment bias: optimism ~~bias~~ versus pessimism bias) x 2 (priming effect: self-control
22 versus neutral) x 2 (temporal distance: present versus future), between subjects in all
23 conditions. The between-subjects design in study 2 aimed to reduce the within-within-
24 subjects limitations pointed in study Study 1.
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30 *Procedure and stimuli.* The participants were told they would participate in three
31 independent tasks. The first task involved the measurement of participants' chronic
32 optimism (vs. pessimism). We have employed the Life Orientation Test-Revised
33 (LOT-R) from Scheier et al. (1994). The 10-item of LOT-R measure of optimism versus
34 pessimism. Of the 10 items, 3 items measure optimism, 3 items measure pessimism,
35 and 4 items serve as fillers. Respondents rated each item on a 7-point scale (1 =
36 strongly disagree to 7 = strongly agree). In our study, we have created a composite
37 score of participants' chronic optimism using the three items measuring optimism and
38 reversing the scores of the three pessimism items. Higher scores indicate optimism
39 and lower scores indicate pessimism ($M = 4.67$; $+1SD = 6.06$; $-1SD = 3.29$). The final
40 chronic optimism score based on the LOT-R scale was reliable in our sample ($\alpha = .911$,
41 6 items).
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48 To analyze the mediation process, we have used the following scales: mood (4
49 items), self-esteem (3 items), self-confidence (3 items), perceived control (3 items). Is
50 important to note that perceived control is usually treated as a chronic trait, however,
51 we believe that judgment bias may influence participants perceived control temporarily.
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Our theoretical account is based on past research that shows the perception of control can then directly modify biases in comparative judgments (Lin et al., 2004; Kruger, 1999; Menon et al., 2009). Respondents-Participants rated each item on a 7-point scale (1 = strongly disagree to 7 = strongly agree). Table 12 provides the details of the mediation scales used in Study 2:

Table 12. Mediation Scales in Study 2

| Scale | Items | Source |
|--|--|--|
| Mood Scale (4 items, $\alpha = .830$) | Currently, I am in a good mood. | Mood Short Form - MSF - Peterson and Sauber (1983) |
| | As I answer these questions I feel cheerful. | |
| | For some reason, I am not very comfortable right now. | |
| | At this moment, I feel edgy or irritable. | |
| Self-Esteem (3 items, $\alpha = .902$) | I have high self-esteem. | Rosenberg Self-Esteem Scale (1989) |
| | In general, I am satisfied with myself. | |
| | I have no doubt about my social competence. | |
| Self-Confidence (3 items, $\alpha = .795$) | I generally look at the brighter side of life. | Self-Confidence factor – Tafarodi and Swann (1995) |
| | I am confident that products are safe. | |
| | I am optimistic about the quality of products. | |
| Perceived Control (3 items, $\alpha = .681$) | To a great extent, my life is controlled by accidental happenings. | Levenson (1973) |
| | I feel like what happens in my life is mostly determined by powerful people. | |
| | How many friends I have depends on how nice person I am. | |

The second task was intended to activate the self-control priming effect via a set of random words and phrases representing these sets (Srull and Wier, 1979). Participants were randomly assigned to one of two conditions: self-control and neutral. Both priming conditions followed the exact same procedure as in Study 1. In the first condition, participants were presented with a set of words that were shuffled and then asked to select the phrase that best represented the words. Forty words were grouped into four different blocks used to generate the priming effect. Each block contained ten words that were randomly dispersed. Eight of these ten words activated self-control, using expressions such as *save, uncertainty, risk, join, restriction*, among others. The

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~~After the task of self-control priming activation, we thanked the participants and asked them to begin the third task. The following instructions were given to the participants: "On the next page, you will be asked to simulate a shopping trip at the NBA Store website. Please click on the product (or products) that you want to buy. You can buy as much as products as you want."~~

After the ~~task of self-control~~ priming activation, we thanked the participants and asked them to begin the third task. The following instructions were given to the participants: "~~On the next page, you will be asked to simulate a shopping trip at the NBA Store website. Please click on the product (or products) that you want to buy. You can buy as much as products as you want.~~"

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~~We have used an average of prices depicted in the NBA Store by June 2017 and used the same pricing strategy than the official website (i.e. prices ended with \$.99 values). In total, eight products with different prices were listed. To avoid problems with participants' team preferences, we have used icons to represent the main categories on the website: jerseys, T-shirts, jackets, bags, balls, hats, shorts, and socks. We have also given participants the option to not buy anything ("not buying"). For that question, we have used hot spot question on Qualtrics, in which participants clicked on the products: "Instructions: One click: means you would buy the product (the product turns green). No click or two clicks: means you would not buy the product at all". The dependent variable was the total amount of cost of the products participants chose to buy.~~

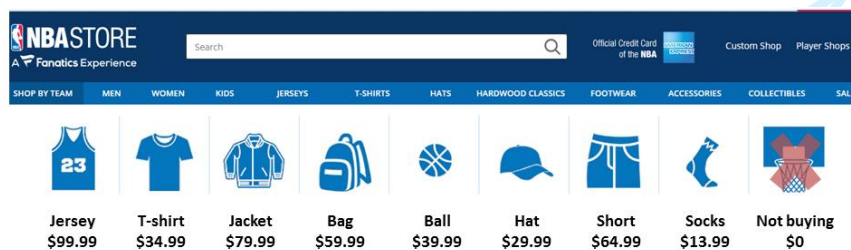


Figure 2: NBA Store simulation in Study 2.

~~We have used an average of prices depicted in the NBA Store by June 2017 and used the same pricing strategy than the official website (i.e. prices ended with \$.99~~

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team. To activate CLT-temporal distance (future vs present), participants were randomly assigned between-subjects in one of the two CLT-conditions, between subjects: "Please click on the products that you wish to buy NOW, today, during this research" or "Please click on the products that you wish to buy in the FUTURE, six months from today".

After that, we have also controlled for participants' involvement in basketball, and average spending for sport-related merchandise during the NBA season. We have measured participants involvement to the sport (basketball), in a differential semantic scale ($\alpha = .916$; 6 items): I hate basketball : I love basketball; Not a fan of basketball : I am a fan of basketball; I don't watch basketball matches: I usually watch basketball matches; I do not go to basketball arena: I often go to basketball arena; I do not buy basketball merchandising: I often buy basketball merchandising; I know nothing about basketball: I know everything about basketball. We have also asked for participants' favorite basketball team and their average spending in sport-related merchandising during the NBA season. These variables were controlled for during the analysis of study 2 and did not influence the results.

Results and Discussion

Choices made by participants. The three-way ANOVA indicate that there is a significant interaction between chronic optimism, self-control, and temporal distance ($F_{(1,130)} = 5.74$; $p < 0.05$) (see Figure 3). ~~The ANOVA indicates a significant difference between priming effects (Figure 3).~~

Optimistic bias. The ANOVA indicates a difference between priming effects that in the self-control condition, participants had lower spending for future choices ($M = \text{US\$ } 72.06$) when compared to the neutral condition (no self-control information) ($M = \text{US\$ } 156.94$) ($F_{(1,130)} = 7.20$; $p < 0.01$). People purchasing for today's game (present) will make more indulgent choices when purchasing six months from now (future), when they will tend to exercise more

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control in their purchases of sporting goods,

providing further support for H₁₂. With regard to Regarding the

neutral group, there were no significant

differences between present choices (M_{self-

$control = US\$ 85.27$) ($M_{neutral} = US\$ 56.21$)

($F_{(1,130)} = .64; ns$).

Pessimistic bias. For the pessimistic

bias, the ANOVA do not indicate a difference

between priming effects. In the self-control condition, participants similar spending for

future choices ($M = US\$ 110.88$) when compared to the neutral condition (no self-

control information) ($M = US\$ 84.02$) ($F_{(1,130)} = .55; p < ns$). With regard to Regarding the neutral group,

there were no significant differences between present choices ($M_{self-control} = US\$ 57.22$)

($M_{neutral} = US\$ 84.93$) ($F_{(1,130)} = .58; ns$).

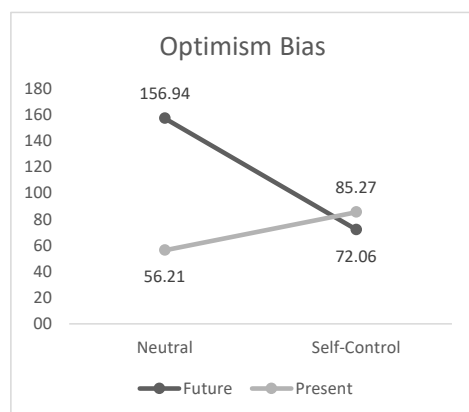
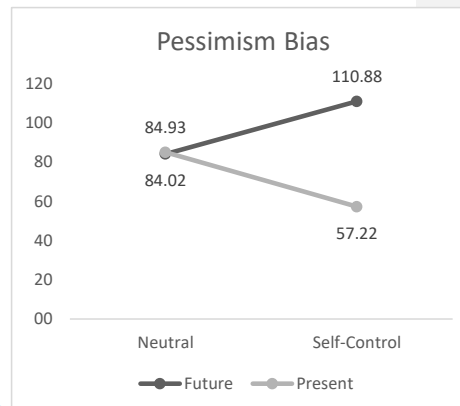


Figure 3: Results of Study 2 – Willingness to Spend (in US\$)

Mediation Analysis. This section analyzes the mediation process of self-control and temporal distance, moderated by judgment bias (Model 10 - Hayes, 2013).

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In this study, we have measured several possible-potential mediators (perceived control, mood, self-esteem, and self-confidence) to test the main process and alternative paths. The analyses use the bootstrap procedure suggested by Hayes (2013) and Zhao *et al.* (2010). All the analysis presented in this section use the Hayes (2013) macro for SPSS® and 5,000 bootstrapped samples. In the bootstrapping procedure, the indirect effect (axb) is significant when the confidence interval excludes zero (Zhao *et al.*, 2010). The models assigned the four variables as the mediator (perceived control, mood, self-esteem, and self-confidence), self-control as the independent variable, judgment bias as moderator, total amount of purchase as the dependent variable, and involvement in the sport as the covariate. Involvement with the sport was an important covariate regarding the total amount of spending and was controlled for during the tests (effect = 23.55; 95% CI: 12.30 to 34.80).

Results support the mediation of perceived control, but not for the alternative mediators (mood, self-esteem, and self-confidence). The bootstrap analysis shows that the indirect effect of self-control and judgment bias through perceived control was significant for consumers with chronic optimism and in future decisions (indirect effect ($a \times b$) = 12.30; 95% CI: .68 to 34.09), supporting mediation for perceived control^{H₂}. The positive valence of the mediation effects suggests that self-control is driving the effects. That is, consumers in self-control condition seem to have more perceived control of the situation, and are more optimistic about future decisions, increasing the spending on sports merchandise related to their team. The findings also indicate that perceived control does not mediate total amount of spending in the team when consumers are chronically pessimistic (indirect effect ($a \times b$) = -3.03 and 3.29, *ns*) or when they are chronically optimistic but make decisions for the present (indirect effect ($a \times b$) = 12.12, *ns*). Table 2 presents the mediation results for perceived control. Results for alternative mediators (mood, self-confidence, and self-esteem) did not reach significance (for details, please see the appendix).

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| <u>CLT</u> <u>Temporal</u> <u>Distance</u> | Judgment Bias | Effect | BootLLCI | BootULCI | P |
|--|------------------|--------|----------|----------|-----------|
| Future | Pessimism | -3.03 | -24.34 | 8.17 | <i>ns</i> |
| | Optimism | 12.30 | .68 | 34.09 | *** |
| Present | Pessimism | 3.29 | -24.08 | 10.33 | <i>ns</i> |
| | Optimism | 12.12 | -.26 | 40.11 | <i>ns</i> |

*** $p < .05$

The positive valence of the mediation effects suggests that self-control is driving the effects. That is, consumers in self-control condition seem to have more perceived control of the situation, and are more optimistic about future decisions, increasing the spending in sports merchandise related to their team. The findings also indicate that perceived control does not mediate total amount of spending in the team when consumers are chronically pessimistic (indirect effect $(a \times b) = -3.03$ and 3.29 , *ns*) or when they are chronically optimistic but make decisions for the present (indirect effect $(a \times b) = 12.12$, *ns*). Results for alternative mediators (mood, self-confidence, and self-esteem) did not reach significance (for details, please see the appendix).

STUDY 3: The Effects of Team Optimism in a Real Soccer Season

Study 3 provides further evidence of the findings of the previous studies for our hypotheses, using a different form of judgment bias that could influence access to self-control information, whether in the present or the future. In this study, two different points of the second study were added. This study extends the previous studies in two ways. First, we have measured participants' optimism and pessimism towards their team (adapted from LOT-R Scale – Scheier et al., 1994). The optimistic or pessimistic bias was determined by whether the soccer team had a prosperous or a bad season. We have used real data from Brazilian Soccer League A (see the method for details). Thus, the study can verify that the purchase intention was based on an optimistic or a pessimistic bias that is based on real team performance, during a national championship. Second, study 3 was also used to increase the external validity of the

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10 results, using an online sample from a major nationwide sports website (ESPN –
11 Entertainment and Sports Programming Network). ESPN is the leading provider of
12 multi-platform sports content in the Brazilian media.
13
14

15 16 Method

17
18 *Participants and Procedure.* One hundred and third-six participants, aged 15 to
19 69 years, located in more than 10 states from a major Brazilian nationwide sports
20 website (ESPN.com.br) were invited to participate in an online experiment (61.7%
21 male, $M_{age} = 35.59$, $SD = 12.79$). In exchange for participation, subjects participated in
22 a raffle of a soccer jersey of their favorite team. The design of the experiment was 2
23 (Judgment bias
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27
28 *Procedure and stimuli.* The procedures of study 3 were implemented similarly to
29 those employed for the same three tasks in study 2. There were differences only in the
30 second task, which involved the measurement of judgment bias towards their soccer
31 team (adapted from Scheier et al., 1994), enabling optimistic (vs. pessimistic) bias for a
32 prosperous (vs. bad) year. Participants informed their favorite soccer team and after
33 that, we have measured participants' optimism and pessimism towards their team
34 (adapted from LOT-R Scale – Scheier et al., 1994). The optimistic or pessimistic bias
35 was determined by whether the soccer team had a prosperous or a bad season.
36 Exemplars of team optimism were found among supporters of *Corinthians* and *Grêmio*,
37 while exemplars of team pessimism were found among supporters of *São Paulo* e *EC*
38 *Vitória*. We have used real data from Brazilian Soccer League A (see Appendix). Top
39 10 teams were considered in a good season (team optimism) and teams in the bottom
40 10 places were considered to have a bad season (team pessimism). Results from one-
41 way ANOVA suggest that participants that support teams in a good season had higher
42 levels of optimism towards their team ($n = 76$, $M = 5.44$), than participants with bad
43 season teams ($n = 60$, $M = 4.87$) ($F_{(1,134)} = 11.25$; $p < 0.01$). More importantly, the
44 results of participants' optimism or pessimism towards their team were not influenced
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10 by their chronic level of judgment bias (LOT-R): chronic optimism $M = 5.04$; chronic
11 pessimism $M = 5.03$ ($F_{(1,134)} = .003$; *ns*).

12
13 After the task of priming activation, we thanked the participants and asked them
14 to begin the shopping task. We have used an average of prices depicted in the major
15 Brazilian online store by June 2017 and used the same pricing strategy (i.e. prices
16 ended with R\$.90 values). In total, eight products with different prices were listed. To
17 avoid problems with participants' team preferences, we have used icons to represent
18 the main categories on the website: official jerseys, T-shirts, jackets, bags, balls, hats,
19 shorts, and socks. As in Study 2, we have also given participants the option to not buy
20 anything ("not buying"). The dependent variable was the total amount of cost of the
21 products participants chose to buy (values in Brazilian Reais – BRL).

22
23 The respondent should then choose products to buy (or not) from their favorite
24 team. To activate CLT-temporal distance (future vs present), participants were
25 randomly assigned between-subjects in one of the two CLT conditions: between
26 subjects: "Please click on the products that you wish to buy NOW, today, during this
27 research" or "Please click on the products that you wish to buy in the FUTURE, six
28 months from today".

29
30 After that, we have also controlled for participants' involvement in soccer, and
31 average spending for sport-related merchandise during the Brazilian soccer season.
32 Similarly to Study 2, we have measured participants' involvement into the sport
33 (soccer), in a differential semantic scale ($\alpha = .927$; 6 items). We have also asked for
34 participants' favorite soccer team and their average spending in sport-related
35 merchandising during the Brazilian soccer season. These variables were controlled for
36 during the analysis and did not influence the results. Finally, participants were
37 thoroughly interrogated to verify the procedures for debriefing (Bargh and Chartrand,
38 2000; Fitzsimons and Shiv, 2001). They were then thanked and dismissed.

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Results and Discussion

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Participants' Chronic Optimism. The three-way ANOVA indicate that there is a significant interaction between chronic optimism, self-control, and temporal distance ($F_{(1,128)} = 5.51$; $p < 0.05$). To provide a better understanding of the results, we ran a bootstrap analysis (model 3 – Hayes, 2013). The analyses use the bootstrap procedure suggested by Hayes (2013) and Zhao *et al.* (2010). The model assigned self-control as the independent variable, chronic judgment bias as moderator, total amount of purchase as the dependent variable, and involvement in the sport as the covariate. Involvement with the sport was an important covariate regarding the total amount of spending and was controlled for during the tests (effect = 19.30; 95% CI: 10.62 to 27.99).

The bootstrap analysis shows that the indirect effect self-control and judgment bias was significant for consumers with chronic optimism and in future decisions (indirect effect (axb) = 89.39; 95% CI: -1.55 to 180.33, $p = .0054$), providing further support to H1. The positive valence of the indirect effects suggests that consumers in self-control condition and are more optimistic about future decisions, tend to increase the spending in sports merchandise related to their team. The findings also indicate that self-control does not influence the total amount of spending in the team when consumers are chronically pessimistic (indirect effect (a x b) = 14.01, *ns*).

Team Optimism. In this section, we analyze the results for team optimism. We ran a bootstrap analysis (model 3 – Hayes, 2013), using the procedure suggested by Hayes (2013) and Zhao *et al.* (2010). The model is similar than previous analysis with the difference of using team judgment bias as moderator (instead of chronic optimism/pessimism). Again, involvement with the sport was an important covariate regarding the total amount of spending and was controlled for during the tests (effect = 23.73; 95% CI: 12.35 to 35.11).

The bootstrap analysis shows that the indirect effect self-control and judgment bias was significant for consumers when the team season is good (i.e. team optimism) (indirect effect (axb) = 146.74; 95% CI: 41.49 to 251.98, $p < .01$), providing further

support to H1. The positive valence of the indirect effects suggests that consumers in self-control condition and are more optimistic about their teams, tend to increase the spending in sports merchandise. The findings also indicate that self-control does not influence the total amount of spending in the team when consumers are chronically pessimistic about their teams (i.e. the team is in a bad season) (indirect effect (a x b) = -18.23, *ns*).

GENERAL DISCUSSION

~~—————This article investigated how optimistic and pessimistic bias and temporal distance can influence consumers' willingness to spend. Three studies conducted in the context of sports goods uncover an important boundary condition of temporal distance on self-control decisions. Conversely to previous research, the Choices and consumer preferences evolve over time, as people and events change over time (Laran, 2010). The findings of this research have interesting implications regarding self-control and the near and distant future decisions. This article investigated the temporal distance projected on an action when influenced by judgments under optimistic and pessimistic bias that help minimize or boost purchase intention.~~

~~Pessimistic bias can lead to choices and preferences that display greater self control in the near future but greater indulgence in the distant future, even if people are exposed to self-control information in the present. Therefore, whether people have an optimistic or a pessimistic bias influences the choices and preference of sports fans when purchasing sporting goods. In particular, the perception of greater (lower) self control with an optimistic (pessimistic) bias can lead sports fans to more indulgent choices and preferences (self-control) in the near future and greater self-control (indulgence) in the distant future.~~

Theoretical Implications

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10 ~~when consumers hold a pessimistic view of their team, as since~~ the sports fans ~~is are~~ likely to
11 exhibit self-control in the present. However, in the ~~distant~~ future, the ~~fan consumers will~~ tend to
12 become more indulgent in ~~his or her their~~ purchasing decisions. The reverse is also true. That is,
13 if ~~the consumers~~ holds an optimistic view of ~~his or her their~~ team, companies ~~can should~~ focus their
14 marketing efforts on the ~~near future present~~, as the fan will ~~likely exhibit exhibit~~ greater indulgence in the
15 present ~~and. However, in the distant future, fans will tend to exercise more self-control in their purchasing behavior in the future.~~

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19 ~~These findings suggest that marketing efforts in the sale of sports articles~~
20 ~~should follow a timeline in which actions should be scheduled for the short and long~~
21 ~~term, based on the momentary judgments of fans. Managers should gather market~~
22 ~~information about consumers' judgment bias about what their brands (Menon, Kyung,~~
23 ~~and Agrawal, 2009). Thus, market research can help us better understand the~~
24 ~~judgments of sports fans.~~

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29 Another sector that can also use the results of the paper to better develop their
30 strategies is the sports brands sponsorship (for example, Nike, Adidas, Reebok, among
31 others). These long-term contracts should be formulated by analyzing ~~the fact that the~~
32 ~~bias how~~ pessimism and optimism ~~bias~~ can influence ~~access to~~ self-control decisions.
33 This can influence the total amount of purchases of sports goods during the season.
34 Managers of sports brands should not only concern themselves with the current
35 performance of the athletes but also how consumers' chronic optimism in the present
36 that may result in greater perceived control in the future ~~(i.e., less spending in sports~~
37 ~~goods).~~

44 45 Limitations

46
47
48 This research presents ~~its important~~ limitations that should be addressed in
49 future studies, ~~in terms of experimental conditions. It is important to note that other~~
50 ~~mechanisms that induce control and judgment may have stronger effects on~~
51 ~~respondents. Moreover, optimistic and pessimistic bias is not the sole determinant of~~

~~The level of perceived purchase importance. The first study presented an important limitation in terms of judgment bias manipulation. In Study 2, the optimism/pessimism bias was manipulated using a scenario. We have adapted scenarios from the traditional view of judgment bias (Scheier et al., 1994). Studies 2 and 3 aims to overcome this limitation and measures participants' chronic optimism through LOT-R Scale (Scheier et al., 1994). This allows reducing the limitation of the judgment bias scenarios used in Study 1.~~

The temporal distance may be influenced ~~by a tendency of humans to entertain a partial perspective of alternatives. In this context,~~ beyond theories of pessimistic and optimistic bias, ~~other approaches can explain temporal distance in the purchase of sporting goods. Such theories includes such as:~~ (i) elaboration on *pros* and *cons*, as discussed by Eyal, Liberman, Trope, and Walther (2004); (ii) the mindsets of gain and loss, as discussed by White *et al.* (2011); and (iii) extrinsic and intrinsic actions, as discussed by Choi and Fischbach (2011). Specifically, future studies of this topic could seek to associate ~~reapplications~~ replications of this experiment with elaborations of arguments or ideas.

Another important limitation is the use of a personal chronic trait as a mediator (perceived control). Our theoretical account for the mediation process is based on previous literature on perceived control. We found in past research that the perception of control can then directly modify biases in comparative judgments (Lin et al., 2004; Kruger, 1999; Menon et al., 2009). However, it is important to note that other mechanisms that induce control and judgment may have stronger effects on respondents. Future studies can investigate alternative mediation processes for the role of optimistic and pessimistic biases and temporal distance.

In addition, this article explored self-control decisions in the ~~near and distant~~ present and future in the context of purchase sporting goods. The option to spend or save money on a specific sports article was presented to participants in various scenarios, based on self-control and optimistic and pessimistic bias.

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Extensions of our research. Application of the procedures in different consumption environments contexts are suggested for able generalizations of the findings obtained here for our findings.

Finally, Study 3 used an online sample from a major sports website nationwide (ESPN). Although we were not able to report response rate, we think it is important to suggest that future studies using broader samples should evaluate nonresponse bias in future studies using broader samples. However, despite these limitations, we hope that this article might contribute to new research into self-control and temporal distance.

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APPENDICES

Table 32. Mediation of Mood

| CLT Temporal Distance | Judgment Bias | Effect | BootLLCI | BootULCI | P |
|--|--------------------------------|---------------|-----------------|-----------------|-----------|
| Future | Pessimism | -.43 | -10.61 | 3.20 | <i>ns</i> |
| | Optimism | .84 | -2.22 | 6.38 | <i>ns</i> |
| Present | Pessimism | 3.29 | -10.20 | 4.33 | <i>ns</i> |
| | Optimism | .93 | -4.11 | 14.36 | <i>ns</i> |

*** $p < .05$

Table 43. Mediation of Self-Esteem

| Temporal Distance CLT | Judgment Bias | Effect | BootLLCI | BootULCI | P |
|--|--------------------------------|---------------|-----------------|-----------------|-----------|
| Future | Pessimism | -.74 | -15.50 | 8.08 | <i>ns</i> |
| | Optimism | -.21 | -7.82 | 3.12 | <i>ns</i> |
| Present | Pessimism | 3.39 | -10.03 | 4.91 | <i>ns</i> |
| | Optimism | .28 | -4.57 | 10.75 | <i>ns</i> |

*** $p < .05$

Table 45. Mediation of Self-Confidence

| Temporal Distance CLT | Judgment Bias | Effect | BootLLCI | BootULCI | P |
|--|--------------------------------|---------------|-----------------|-----------------|-----------|
| Future | Pessimism | .37 | -3.37 | 9.81 | <i>ns</i> |
| | Optimism | 1.33 | -2.75 | 14.51 | <i>ns</i> |
| Present | Pessimism | .15 | -6.44 | 9.83 | <i>ns</i> |
| | Optimism | 1.11 | -2.89 | 15.39 | <i>ns</i> |

*** $p < .05$

TEAM OPTIMISM IN STUDY 3*

| Ranking | Team | Points |
|----------------|----------------------|---------------|
| <u>1</u> | <u>Corinthians</u> | <u>36</u> |
| <u>2</u> | <u>Grêmio</u> | <u>28</u> |
| <u>3</u> | <u>Santos</u> | <u>24</u> |
| <u>4</u> | <u>Flamengo</u> | <u>24</u> |
| <u>5</u> | <u>Palmeiras</u> | <u>22</u> |
| <u>6</u> | <u>Sport Recife</u> | <u>21</u> |
| <u>7</u> | <u>Cruzeiro</u> | <u>21</u> |
| <u>8</u> | <u>Vasco da Gama</u> | <u>20</u> |
| <u>9</u> | <u>Fluminense</u> | <u>20</u> |
| <u>10</u> | <u>Atlético</u> | <u>20</u> |
| <u>11</u> | <u>Botafogo</u> | <u>19</u> |
| <u>12</u> | <u>Coritiba</u> | <u>19</u> |
| <u>13</u> | <u>Chapecoense</u> | <u>18</u> |
| <u>14</u> | <u>Bahia</u> | <u>16</u> |
| <u>15</u> | <u>Atlético-PR</u> | <u>16</u> |
| <u>16</u> | <u>Ponte Preta</u> | <u>15</u> |
| <u>17</u> | <u>Avai</u> | <u>13</u> |
| <u>18</u> | <u>São Paulo</u> | <u>12</u> |
| <u>19</u> | <u>EC Vitória</u> | <u>12</u> |
| <u>20</u> | <u>Atlético-GO</u> | <u>8</u> |

* **Notes:** Data from July 17th, 2017 – Brazilian League A (Brasileirão Série A 2017).

Top 10 teams were considered in a good season (team optimism) and teams in the bottom 10 places were considered to have a bad season (team pessimism). Please see Study 3 for ANOVA results on participants' level of optimism (vs. pessimism) towards their team and on their chronic level of judgment bias.

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