Viewing leisure as wasteful undermines enjoyment

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ABSTRACT

Engagement in leisure offers a host of benefits for mental and physical health, yet many people view leisure as wasteful and unproductive. Four studies (n = 1310) demonstrate that believing leisure is wasteful undermines enjoyment of enacted leisure activities. Studies 1 and 2 document that people with a general tendency to find leisure wasteful report lower enjoyment of leisure activities on average, especially terminally-motivated leisure (performed as an end in itself) compared to instrumentally-motivated leisure (performed as a means to an end). The belief that leisure is wasteful is also associated with poorer mental health outcomes, including lower reported happiness, and greater reported depression, anxiety, and stress. Establishing causality, Studies 3 and 4 show that priming the belief that leisure is wasteful or unproductive reduces enjoyment of terminally-motivated leisure activities; unfortunately, priming the belief that leisure is productive does not increase enjoyment. We discuss implications for maximizing hedonic utility and well-being.

Leisure – time away from paid work and obligations (Voss, 1967) – is meant to be enjoyed. However, various factors can undermine this enjoyment, including whether leisure is scheduled in advance (Tonietto & Malkoc, 2016) or tracked (Etkin, 2016). Building on this prior research, we examine whether and how beliefs about leisure’s value shape the enjoyment obtained during leisure activities. Leisure has a host of established benefits: It provides a sense of control in life, facilitates social relationships (Coleman & Iso-Ahola, 1993; Glover & Parry, 2008), lowers blood pressure (Pressman et al., 2009), and reduces the risk of depression (Iwasaki, Mackay, Mactavish, Ristock, & Bartlett, 2006; Watson, 1988). Indeed, pleasurable experiences – from socializing to relaxing (Kahneman, Krueger, Schkade, Schwarz, & Stone, 2004) – are a source of happiness (Aaker, Rudd, & Mogilner, 2011; Gilovich, Kumar, & Jampol, 2015; Van Boven & Gilovich, 2003). These benefits of leisure, however, may not accrue equally. We propose that some people hold the belief that leisure is wasteful, a belief that undermines enjoyment of enacted leisure.

To be sure, there are specific instances when leisure is unproductive and serves as a way to waste time, such as when used to procrastinate or avoid more pressing responsibilities (e.g., passing up on errands to watch TV). Indeed, when asked, 153 undergraduate students (see Supplemental Online Materials, or SOM) consistently indicated leisure is wasteful when it comes at the expense of responsibilities (see Table 1). We suggest that people may come to hold a general belief that leisure is wasteful – even when it does not interfere with goal pursuit – which then impacts their enjoyment of enacted leisure.

There are several reasons why people may come to equate leisure with wastefulness. The belief that leisure is wasteful is likely a learned association stemming from instances in which the belief is objectively true – when devoting time to leisure comes at the expense of work or necessary tasks (e.g., chores). Because it is sometimes true, people might over-apply this association, leading to a general inference that leisure is wasteful. Such overgeneralization is consistent with the operation of several lay theories, in which people over-apply a lay theory that is true in some contexts to contexts in which it is not objectively true (Haws, Reczek, & Sample, 2017; Raghunathan, Naylor, & Hoyer, 2006). An ever-increasing sense of time famine – the feeling of having too much to do and not enough time to do it (Perlow, 1999) – may also contribute to a general belief that leisure is wasteful. Most people, including 80% of Americans (Whillans, 2019), report time famine, which could heighten...
their sensitivity to alternative uses of time, thereby reinforcing a general belief that leisure is wasteful. Finally, this belief is likely enhanced by the growing emphasis on productivity (Malkoc & Tonietto, 2019) and busyness, defined as a lack of leisure (Bellezza, Paharia, & Keinan, 2016). Indeed, Bellezza et al. (2016) find that an overworked lifestyle is socially desirable and signals status. The prominence of busyness implies that work produces benefits, while leisure does not.

If indeed people hold a belief that leisure is wasteful, how might this belief influence their enjoyment? To believe that leisure is wasteful is to, in essence, believe that it lacks benefits, despite the evidence to the contrary (e.g., Kahneman et al., 2004; Watson, 1988). However, the literature poses mixed predictions regarding how negative beliefs about leisure’s value might impact enjoyment. On the one hand, some activities that initially appear unappealing can turn out to be surprisingly pleasurable. For instance, interacting with a stranger during one’s morning commute (Epley and Schroeder, 2014) and going to a movie alone (Ratner & Hamilton, 2015) tend to be more pleasant than people expect. Further, believing in the benefits of activities is not always necessary to experience those benefits. For instance, people who do not believe in the effectiveness of enacting rituals in the face of loss nonetheless benefit from engaging in such rituals (Norton & Gino, 2014). Both of these streams of research suggest that people may enjoy enacted leisure regardless of their belief in its value.

On the other hand, deriving greater value than expected is not the same as gleaning the full value of an activity. That is, while those who deem leisure wasteful may enjoy leisure more than they anticipate, they may nonetheless derive much less enjoyment than they would in the absence of such negative beliefs. Indeed, there is reason to expect that believing leisure is wasteful will reduce enjoyment relative to holding more positive or neutral beliefs. First, people’s beliefs and expectations can become something of a self-fulfilling prophecy (Lee, Frederick, & Ariely, 2006; Raghunathan et al., 2006; Shiv, Carmon, & Ariely, 2005), in the way that, for example, believing that a glass of wine is more expensive (and thus higher quality) leads it to taste more flavorful (Plassmann, O’doherty, Shiv, & Rangel, 2008). Similarly, believing leisure is wasteful, thus lacking meaningful benefits, could diminish the enjoyment of enacted leisure. Second, believing leisure is unproductive may undermine enjoyment by decreasing immersion during leisure pursuits, as immersion positively influences enjoyment (Frey, Benesch, & Stutzer, 2007; Killingsworth & Gilbert, 2010; Tonietto & Barasch, in press). If one believes leisure is unproductive, they may also reasonably perceive a large opportunity cost of time – being particularly aware of other, (presumably) more productive uses of their time. As a result, those who deem leisure wasteful may be distracted from the leisure activity at hand (DeVoe & House, 2012), experiencing less enjoyment as a result.

Endorsing the belief that leisure is wasteful, however, should not universally diminish enjoyment. Instead, negative beliefs about leisure should be especially detrimental to leisure activities that are pursued primarily for pleasure. Prior research has distinguished between terminal leisure that is immediately rewarding and instrumental leisure that serves as an instrument to achieving a longer-term goal (Botti & McGill, 2011; Kasser & Ryan, 1996; Kruglanski et al., 2018). For terminally-motivated activities, the activity and the goal are one in the same, or “fused,” while for instrumentally-motivated activities, the activity is separate from the ultimate goal. Believing leisure is wasteful should be particularly detrimental for terminal leisure activities, performed with the primary motivation of pleasure, and less so for instrumental activities that are performed as a means to another (productive) purpose.

Four studies examine the effect of believing leisure is wasteful on enjoyment. The first two studies examine chronically held beliefs about leisure, demonstrating that more strongly endorsing the belief that leisure is wasteful is associated with lower enjoyment of terminal, but not instrumental, leisure activities. Further emphasizing the detrimental effects of negative beliefs about leisure, Study 2 finds that people who believe leisure is wasteful not only report lower enjoyment of leisure, but also report reduced happiness and greater depression, anxiety, and stress. Studies 3 and 4 then experimentally manipulate beliefs about leisure, replicating the detrimental effect of believing leisure is wasteful on enjoyment of terminal leisure activities. Participants primed to believe leisure is wasteful or unproductive experience a decrease in enjoyment, while those primed to believe leisure is productive do not experience a boost in enjoyment – supporting the notion that negative beliefs about leisure drive down hedonic pleasure rather than positive beliefs driving it up. Unless otherwise noted, we report how we determined our sample size, all data exclusions (if any), all manipulations, and all measures in the studies.

1. Study 1: terminal versus instrumental leisure

Study 1 provides an initial test of the effect of believing leisure is wasteful on enjoyment, while also examining the role of terminal versus instrumental motivations. To that end, we asked participants to recall what they did on Halloween. We chose Halloween because some common Halloween activities are relatively instrumental (e.g., taking one’s child trick or treating in order to fulfill one’s parental duties), while others are more terminal (e.g., attending a party for one’s own amusement). We predicted that believing leisure is wasteful would be associated with reduced enjoyment of terminal activities, but that this relationship would be reduced – even eliminated – for more instrumental activities.

1.1. Pretest

In order to classify common Halloween activities as relatively instrumental and terminal, 50 MTurk participants (Mage = 38.00, 38% female) completed a pretest. Participants were provided with definitions of instrumental and terminal activities (see Appendix A) and rated whether taking kids trick or treating, handing out candy to trick or treaters, going to a party, going out to a bar/pub/club, and going to a haunted house were instrumental or terminal (1 = definitely instrumental, 7 = definitely terminal).

As outlined in Table 2, going to a party, to a bar/pub/club, and to a haunted house were all rated as significantly above the midpoint of the scale and were thus classified as terminal. Taking kids trick or treating and handing out candy to trick or treaters were rated as directionally

<table>
<thead>
<tr>
<th>Count</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>When I’m procrastinating</td>
<td>104</td>
</tr>
<tr>
<td>When I should be working</td>
<td>98</td>
</tr>
<tr>
<td>When I should be taking care of other responsibilities</td>
<td>98</td>
</tr>
<tr>
<td>When I have a lot on my to-do list</td>
<td>98</td>
</tr>
<tr>
<td>When I have a goal I could be working towards</td>
<td>78</td>
</tr>
<tr>
<td>When I’m feeling unmotivated</td>
<td>54</td>
</tr>
<tr>
<td>When I know other people (e.g., my friends) are working</td>
<td>30</td>
</tr>
</tbody>
</table>

Note. Participants were given these categories and checked all that applied.

Table 1

When leisure feels wasteful.
Regressed on enjoyment. Neither the main effect of activity type ($B = -0.29$) nor of beliefs about leisure were significant ($B = -1.18$, $SE = 0.24$, $t(298) = -0.05, p = .96$) nor of beliefs about leisure were significant ($B = -1.13$, $SE = 0.96$, $t(298) = -1.18$, $p = .24$, $d = -0.011$, $d = -0.30$; see Fig. 1). As expected, we found that for terminal leisure activities, greater endorsement of the belief that leisure is wasteful was associated with decreased enjoyment ($B = -2.53$, $SE = 0.12$, $t(298) = -2.53, p = .012, d = -0.29$). However, there was not a significant relationship between beliefs about leisure and enjoyment for relatively instrumental leisure activities ($B = 1.32$, $SE = 1.31$, $t(298) = 1.01, p = .32, d = 0.12$). Thus, negative beliefs about leisure uniquely undermined enjoyment of relatively terminal leisure activities. Looking at the data another way, there were two Johnson-Neyman points: On average, those low on the belief that leisure is wasteful enjoyed terminal more than instrumental activities while those high on the belief that leisure is wasteful instead enjoyed instrumental activities more. While this result is intriguing, we refrain from drawing strong conclusions as this analysis compared different activities.

As an initial test of our predictions, this study relied on a limited set of activities, while keeping the context (i.e., Halloween) constant. However, leisure captures a large umbrella of activities that vary on many dimensions, which we address in Study 2.

2. Study 2: leisure enjoyment and well-being

Study 2 further examined the association between beliefs about leisure's wastefulness and enjoyment of leisure by asking participants to report how much they enjoy a variety of leisure activities. We also examined whether the relationship between beliefs about leisure and enjoyment extend to well-being. We reasoned that to the extent that enjoyment of leisure is a key precursor to leisure’s benefits for mental health, then people who more strongly believe leisure is wasteful may also report reduced well-being.

2.1. Pretest

To determine which leisure activities to utilize in Study 2, we conducted a series of three pretests. The first pretest (Table 3, Panel A) determined whether several of the most common discretionary activities (hanging out with friends, socializing, relaxing, watching TV, hobbies, exercising, meditating, volunteering; American Time Use Survey, 2020) are considered leisure. Activities that were considered leisure were retained, and a second pretest (Table 3, Panel B) determined whether these activities are considered relatively terminal or instrumental. Finally, because leisure activities can vary on dimensions other than terminality, the third pretest examined two additional dimensions: how active and how social each activity is (Table 3, Panel C) to ensure that these dimensions were not confounded with terminality.

Based on this pretesting, hanging out with friends, socializing, relaxing, watching TV, and hobbies were classified as relatively terminal, while exercising and meditating were classified as relatively more instrumental.8 The terminal and instrumental groups included both active and passive activities, and, within activities classified as terminal, there were both solitary and social activities, confirming that terminality was not conflated with activeness or socialness.

2.2. Method

The methods and analyses for this study were preregistered (https://

### Table 2

Study 1 pretest: activity classifications.

<table>
<thead>
<tr>
<th>Activities</th>
<th>Terminal-Instrumental</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>($I = \text{definitely instrumental,}$ $7 = \text{definitely terminal}$)</td>
</tr>
<tr>
<td>Going to a party</td>
<td>5.32 (1.68)**</td>
</tr>
<tr>
<td>Going to a bar/pub/club</td>
<td>5.58 (1.64)**</td>
</tr>
<tr>
<td>Going to a haunted house</td>
<td>5.50 (1.76)**</td>
</tr>
<tr>
<td>Taking kids trick or treating</td>
<td>3.70 (2.13)</td>
</tr>
<tr>
<td>Handing out candy to trick or treaters</td>
<td>3.64 (2.16)</td>
</tr>
</tbody>
</table>

* $p < .05$, ** $p < .01$, compared to the midpoint of the scale. Note. Numbers in parentheses represent standard deviations.

Note that meditating did not emerge as clearly terminal or instrumental. However, exploratory factor analyses revealed that meditating tended to load with exercising on a separate factor from the remaining activities in both Pretest 2 and in Study 2. As such, we classified meditating as relatively more instrumental.

3 Note that these child-oriented activities likely have both instrumental and terminal components (e.g., parents may find trick or treating with their kids both necessary as well as inherently pleasurable), which can explain why they fell in the middle of the scale.

5 Two participants completed the study without submitting their completion test 2 and in Study 2. As such, we classified meditating as relatively more instrumental.

7 Multiple measures unrelated to the current investigation were included for exploratory purposes. These measures were intended to explore the possible effect of texting and posting to social media on feelings of immersion and time perception and are included in the data archive. The analyses of these measures and their correlation with enjoyment are reported in the Web Appendix of a published paper (Tonietto & Barasch, in press).

8 Note that meditating did not emerge as clearly terminal or instrumental.
Enjoyment
Belief that Leisure is Wasteful (standardized)
Terminal
Instrumental
J-N Point: 
-.84 SD from mean
Raw score: 2.13

J-N Point: 
1.68 SD from mean
Raw score: 5.72

Fig. 1. Study 1: Enjoyment by Belief that Leisure is Wasteful and Type of Leisure. Note. Error bars represent ±1 standard error. For all means, see SOM.

2.3. Results

As preregistered, we allowed the factor structure to dictate the treatment of different leisure activities. An exploratory factor analysis with varimax rotation and extraction based on Eigenvalues >1 revealed two factors, corresponding to the terminal activities (factor 1: hanging out with friends, socializing, relaxing, watching TV, hobbies) and instrumental activities (factor 2: exercising, meditating; see Table 4). As such, items loading onto a single factor were averaged together to form one scale of enjoyment of terminal activities and one scale of enjoyment of instrumental activities. Analyses of individual activities are presented in the SOM.

As in Study 1, we found that believing leisure is wasteful was associated with significantly reduced enjoyment of terminal leisure (r = -.16, p = .022) but not instrumental leisure activities (r = .06, p = .43; see Table 5). Furthermore, we found that negative beliefs about leisure were associated with lower reported happiness (r = -.14, p = .049) and greater reported depression (r = .33, p < .001), anxiety (r = .39, p < .001), and stress (r = .24, p = .001). Supporting the idea that believing leisure is wasteful may harm long term well-being by diminishing the enjoyment of terminal leisure activities, enjoyment of terminal leisure was a stronger predictor of well-being, particularly happiness and depression, than was enjoyment of instrumental leisure.

2.4. Discussion

Studies 1 and 2 provide convergent evidence that believing leisure is wasteful is associated with reduced enjoyment of terminally-motivated leisure activities. Importantly, the group of terminal activities in Study 2 included both passive and active leisure, as well as both social and solitary leisure. Thus, this study provides evidence that the motivation behind the leisure activity – whether pursued primarily for pleasure or as a means to an end – determines the effect of negative beliefs about leisure on enjoyment, rather than how active or social the activity is.

Study 2 also demonstrates that negative beliefs about leisure are associated with reduced happiness and well-being. To further examine the generality of this finding, we ran an additional study (reported in the SOM) using subsamples collected from three countries that vary in their norms towards work and leisure as indicated by Hofstede’s (2011) industry-indulgence dimension: The U.S. (n = 150), France (n = 159), and India (n = 153). Cultures high on this dimension (e.g., India) are more work-oriented and have social norms that emphasize work and a suppression of gratification. Cultures low on this dimension (e.g., France) instead have social norms that are less restrictive of enjoying life and having fun (Minkov, 2013). While the distribution of beliefs about leisure’s wastefulness varied across countries, we found that believing leisure is wasteful was associated with higher reported depression, anxiety, and stress in all three. Thus, in a variety of populations, including undergraduate students and adults from diverse cultures, believing leisure is wasteful was associated with reduced well-being, where the reduced enjoyment of leisure may be one factor contributing to this negative relationship.

Due to the correlational nature of the studies so far, it is not possible to conclude that it is the belief that leisure is wasteful that decreases enjoyment (and not vice versa). The remaining studies experimentally test the detrimental effect of believing leisure is wasteful on relatively terminal leisure activities by manipulating, rather than measuring, beliefs about leisure.

3. Study 3: priming beliefs about leisure’s value

This study examined whether priming the belief that leisure is wasteful or unproductive decreases enjoyment of a leisure activity relative to priming the belief that leisure is productive or a control (i.e., non-leisure prime). We included both a condition describing leisure as “wasteful” and a separate condition describing leisure as “unproductive” in order to test robustness to the negative connotation of the descriptor, where “wasteful” may have a particularly strong negative connotation. Because “wasteful” and “unproductive” are often used synonymously and both amount to a belief that leisure lacks value, we predicted both would decrease enjoyment of leisure relative to believing leisure is productive or a baseline control.
3.1. Pretest

We conducted a pretest to confirm that the activity used in Study 3 was considered to be leisure. As part of a lab session, 130 undergraduate participants (Mage = 22.17, 47% female) watched the funny cat video used in the main study and then indicated whether doing so was work or leisure and a chore or fun activity (1 = definitely work/a chore, 7 = definitely leisure/a fun activity; r = .67, p < .001). Confirming that watching the video is considered leisure, this activity was rated significantly above the scale midpoint (M = 4.87, SD = 1.70, t(129) = 5.84, p < .001, d = 0.51).

3.2. Method

The methods and analyses for this study were preregistered (https://aspredicted.org/bv3vd.pdf). We had access to a lab session at two large Northeastern university campuses, each with a pre-specified number of participants. We stopped data collection once the session was concluded at both campuses, which yielded a final sample of 458 participants (Mage = 21.59, 57.4% female). This sample had 80% power to detect an effect size of d = 0.31 for the omnibus test and d = 0.37 for individual pairwise comparisons. The study followed a four-cell (leisure is wasteful vs. leisure is unproductive vs. leisure is productive vs. control) between-subjects design.

Participants were told that they would read and evaluate an article (in line with prior work using fabricated news articles to temporarily prime various beliefs; Feinberg & Willer, 2011; Wisman & Goldenberg, 2005). The articles were designed to look like New York Times articles and either described leisure as wasteful (e.g., it reduces goal achievement and learning), unproductive (utilizing the same descriptions as in the wasteful condition, but replacing the word “wasteful” with “unproductive” throughout), productive (e.g., it helps manage stress and increases energy), or discussed coffee makers (control condition; see Appendix C). In order to maintain the cover story, after reading the article, participants indicated how well-written, readable, and coherent the article was (1 = not at all, 7 = extremely; see SOM for analyses of this scale). Next, participants read in order to take a short break from the study, they would watch a video. They then watched the pretested video (Best Funny Cat Videos 2019) and indicated enjoyment using two items: “How much did you enjoy watching the video?” and “How much fun was it to watch the video?” on slider scales (0 = not at all, 100 = extremely).\(^{1}\) Two items were averaged together to form one measure of enjoyment (r = .95, p < .001). Finally, participants completed the 10-item short-form Positive and Negative Affect Schedule (Thompson, 2007) by indicating the extent to which they felt five positive (a = .90) and five negative feelings (a = .92) while watching the video (1 = very slightly/not at all, 5 = extremely).

\(^{1}\) Two items were used in this study in order to increase reliability. However, analyses using only the enjoyment item yield similar results.
3.3. Results and discussion

An ANOVA revealed a significant effect of the beliefs about leisure manipulation on enjoyment ([F(3, 454)] = 2.65, p = .049, d = .26; see Fig. 2). As expected, enjoyment did not differ between the wasteful (M = 55.11, SD = 36.44) and unproductive (M = 53.88, SD = 35.52) conditions (t(225) = 0.26, p = .80, d = 0.03). More importantly, participants primed to believe leisure is wasteful enjoyed watching the video marginally less than those primed that leisure is productive (M = 62.95, SD = 32.63; t(229) = -1.72, p = .086, d = -0.23) and those in the control condition (M = 63.81, SD = 31.02; t(226) = 1.94, p = .053, d = -0.26). Likewise, participants primed to believe leisure is unproductive enjoyed the leisure experience significantly less than those primed that leisure is productive (t(228) = -2.02, p = .045, d = -0.27) and those in the control condition (t(225) = -2.24, p = .026, d = -0.30). The productive and control conditions did not differ from each other (t(229) = 0.21, p = .84, d = -0.03).

We also ran regression analyses utilizing contrast coding (see Table 6). We found that priming the belief that leisure is wasteful or unproductive decreased enjoyment and positive affect compared to the other two conditions. There were no significant effects on negative affect.

Table 6

<table>
<thead>
<tr>
<th>Study 3: regression output.</th>
</tr>
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<tbody>
<tr>
<td></td>
</tr>
<tr>
<td>Enjoyment</td>
</tr>
<tr>
<td>Constant</td>
</tr>
<tr>
<td>Contrast 1</td>
</tr>
<tr>
<td>Contrast 2</td>
</tr>
<tr>
<td>Contrast 3</td>
</tr>
</tbody>
</table>

Note. Numbers in parentheses represent standard errors.

4. Study 4: positively framing leisure’s wastefulness

The purpose of Study 4 was to ensure that the detrimental effect of the leisure is wasteful prime observed in Study 3 is not reliant on the negative framing of wastefulness. Thus, in Study 4, we altered the prime to have a more positive overall tone, describing leisure as wasteful, and framing this wastefulness as desirable with multiple beneficial outcomes (utilizing the benefits from the leisure is productive prime in Study 3).

4.1. Method

We had access to a lab session at a large Northeastern university with a pre-specified number of participants. We stopped data collection once the session was concluded, which yielded a final sample of 351 undergraduate students (M_age = 20.25, 51% female). This sample had 80% power to detect an effect size of d = 0.30. As in Study 3, participants were told that they would be evaluating a New York Times article. They were then randomly assigned to one of two between-subjects conditions (leisure is wasteful vs. control). The leisure is wasteful article was altered to have a more positive tone and argued that leisure is wasteful, but that wastefulness is what makes leisure beneficial to individuals (see Appendix D). The control article was the same as in Study 3. Participants then indicated how well-written, readable, and coherent the article was but that wastefulness is what makes leisure beneficial to individuals (see Appendix D). The control article was the same as in Study 3. Participants then indicated how well-written, readable, and coherent the article was in order to maintain the cover story for the article. Next, participants watched the same video and responded to the same two items assessing enjoyment (r = .92, p < .001) as in Study 3.

4.2. Results and discussion

We replicated the core effect, such that priming the belief that leisure is wasteful significantly reduced enjoyment (M = 59.21, SD = 32.75) compared to the control condition (M = 67.14, SD = 28.46, t(349) = -2.42, p = .016, d = -0.26). Thus, believing leisure is wasteful undermined the hedonic utility of the leisure experience, even when wastefulness was framed as positive and even necessary for productivity. Taken together, Studies 3 and 4 demonstrate that believing leisure lacks value causes terminally-motivated leisure experiences to be less enjoyable: Priming the belief that leisure is wasteful or unproductive significantly reduced enjoyment of a leisure experience.

5. General discussion

Although leisure and positive experiences are important contributors to happiness and well-being (Kahneman et al., 2004; Van Boven & Gilovich, 2003), we demonstrate that some people believe that leisure is wasteful – to their own detriment. Four studies establish that believing leisure is wasteful undermines the hedonic benefits of leisure pursuits.

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[12] For all pairwise comparisons for positive and negative affect, see SOM.
Studies 1 and 2 document that people who believe leisure is wasteful report lower enjoyment of leisure activities, particularly those that are relatively terminal, or performed predominantly in the pursuit of pleasure, as opposed to those leisure activities that also serve an instrumental purpose. Further, Study 2 (and a supplemental study) shows that negative beliefs about leisure are also associated with reduced happiness and well-being, an effect observed in samples that varied in age and country of origin. Finally, Studies 3 and 4 (and a supplemental study) demonstrate that priming the belief that leisure is wasteful or unproductive reduces enjoyment of terminally-motivated leisure.

Our research makes several contributions to the literature. First, while beliefs about work and busyness (Bellezza et al., 2016; McHoskey, 1994) may impact the choice to engage in leisure, we show that beliefs about leisure can influence the enjoyment of enacted leisure. In so doing, we contribute to the limited research examining factors that undermine enjoyment of leisure activities (Etkin, 2016; Tonietto & Malkoc, 2016).

Second, we build on previous research examining post-consumption regret about indulgence and forbearance (Haws & Poyner, 2008; Kivetz & Keinan, 2006). Our results suggest that regret about forgoing leisure may not extend to those who believe that leisure is wasteful, because they enjoy leisure less. In this sense, counterintuitively, avoiding leisure may in some cases be a rational strategy for maximizing hedonic utility. However, the results of Study 2 and our supplemental study indicate that this may come at the expense of long-term well-being, where those who experience less pleasure from leisure report reduced happiness and greater depression, anxiety, and stress. As such, we also contribute to the literature on happiness from experiences (Gilovich et al., 2015; Van Boven & Gilovich, 2003; West, Mogilner, & DeVoe, 2021). Happiness, it seems, may be driven not only by whether people engage in leisure, but whether they find value in their leisure.

Our experimental studies establish that the observed effects are driven by a detriment from believing leisure is wasteful rather than a benefit from believing leisure is productive. While priming the belief that leisure is productive did not increase enjoyment relative to a control, future research might work to uncover other interventions to alleviate the negative impact of believing leisure is wasteful. For example, perhaps framing leisure as goal-consistent would allow people with negative beliefs about leisure to perceive leisure as more instrumental, thus mitigating the observed effects. Further, while we examined culture in a supplemental study, future research could explore other demographic factors such as gender (Giurge, Whillans, & West, 2020) and income (Smeets et al., 2020), both of which impact how people experience and spend their time. Examination of gender might be particularly impactful, where greater temporal demands and fewer opportunities for leisure exacerbate gender inequality (Giurge et al., 2021; Robinson & Godfrey, 1998). One limitation of our work is that we relied on self-reports of enjoyment and subjective well-being at a single point in time rather than longitudinal data assessing the relationship between beliefs about leisure, time spent on various leisure activities, and well-being over time. Indeed, beliefs about leisure may have other, important behavioral outcomes that shape people’s lives and experiences, which future research might explore. For instance, those who deem leisure wasteful might be particularly reluctant to engage in leisure, potentially because they enjoy it less. Alternatively, rather than decreasing the amount of time spent on leisure, beliefs about leisure’s wastefulness may instead drive people’s choices of different types of leisure, with those who deem leisure wasteful potentially opting for more productive or instrumental leisure activities on average.

6. Open practices

This article earned Open Materials, Open Data, and Preregistered badges for transparent practices. All materials and data are available on a permanent third-party archive: https://osf.io/v8frw/?view_only=505e488fe5da46658cfdf9573e3df357f. Studies 2 (https://aspredicted.org/jk6pm.pdf) and 3 (https://aspredicted.org/bv3vd.pdf) were preregistered. For both studies, the plan was registered prior to the collection of the data. No additional registrations were created for the studies other than the ones reported. No additional analyses that deviated from the registered plan were conducted, and all analyses described in the registered plan are reported either in-text or in the Supplemental Online Materials.

Appendix A

Pretests: Definitions of Terminal and Instrumental Leisure
Activities can be divided into two categories: instrumental and terminal.

Instrumental activities are performed as a means to an end. For example, a leisure activity might be performed primarily in pursuit of a goal or to fulfill one’s responsibilities.

Terminal activities are performed as an end in themselves. For example, a leisure activity might be performed for one’s own pleasure or to fulfill one’s own wants or desires.

Appendix B

We are interested in your thoughts and opinions about leisure activities. Leisure activities are those that are intrinsically motivated and fun and are done in the pursuit of pleasure, enjoyment, and/or relaxation. Such tasks include playing, relaxing, watching TV, reading, socializing, etc. Please indicate the extent to which you agree with each of the following statements about leisure activities and the time spent on such activities. (Scale: 1 = Strongly disagree, 7 = Strongly agree)

1. Time spent on leisure activities is often wasted time
2. People who engage in leisure tasks a lot have too much free time on their hands
3. Most leisure activities are a way to burn time
4. People should strive to make time spent on leisure more productive
5. Leisure activities are not a productive use of time

Interested readers can find exploratory analyses of gender and age effects for each study in the SOM. We refrain from interpreting the results as our studies were not designed to test interactions with demographic variables and may thus be underpowered.
Appendix C

Study 3 Article Primes
Leisure is wasteful condition:

Is leisure wasteful? A group of academic researchers were interested in this question and took it to the polls. These psychologists asked everyday people what they thought about leisure time. Overwhelmingly, people appeared to think about leisure time as a wasteful way to spend time.

This is in line with decades of research in psychology showing that leisure, in many ways, is wasteful. One big reason: leisure is time not spent pursuing our goals. Research shows, for example, that participating in leisure and recreation reduces goal achievement and learning. Goal achievement and learning are important for both physical and mental health.

Looking at the responses people gave when asked about their own leisure experiences shows that we have a fairly good intuition about leisure. Several people pointed to the productivity costs of leisure:

“You don’t work on your goals while partaking in leisure time.”

“Leisure doesn’t stimulate your brain. Also, we could be spending this precious time improving ourselves - learning something.”

“I often wonder why I spend time on leisure. I accomplish nothing and just get lazy.”

These are just a few examples people came up with when asked about leisure.

So to answer the question is leisure wasteful, it seems research and intuition both say “yes.”
Leisure is unproductive condition

Is Leisure Unproductive?
A recent poll says “yes.”

Is leisure unproductive? A group of academic researchers were interested in this question and took it to the polls. These psychologists asked everyday people what they thought about leisure time. Overwhelmingly, people appeared to think about leisure time as an unproductive way to spend time.

This is in line with decades of research in psychology showing that leisure, in many ways, is unproductive. One big reason: leisure is time not spent pursuing our goals. Research shows, for example, that participating in leisure and recreation reduces goal achievement and learning. Goal achievement and learning are important for both physical and mental health.

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“You don’t work on your goals while partaking in leisure time.”

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“I often wonder why I spend time on leisure. I accomplish nothing and just get lazy.”

These are just a few examples people came up with when asked about leisure.

So to answer the question is leisure unproductive, it seems research and intuition both say “yes.”
Appendix D

Leisure is productive condition

Is leisure productive? A recent poll says “yes.”

Is leisure productive? A group of academic researchers were interested in this question and took it to the polls. These psychologists asked everyday people what they thought about leisure time. Overwhelmingly, people appeared to think about leisure as a productive way to spend time.

This is in line with decades of research in psychology showing that leisure, in many ways, is productive. One big reason: it’s vital for health and happiness. Research shows, for example, that participating in leisure and recreation helps us to better manage stress and keeps us energized. Relaxation and fun, it turns out, are important for both physical and mental health.

Looking at the responses people gave when asked about their own leisure experiences shows that we have a fairly good intuition about leisure. Several people pointed to the health aspects of leisure:

“It reduces stress and allows you to not be so tense.”

“Down time restores your energy.”

“Leisure allows the core parts of our brain to take a break and rejuvenate so that you feel fresh when you return to more strenuous tasks.”

These are just a few examples people came up with when asked about leisure.

So to answer the question is leisure productive, it seems research and intuition both say “yes.”
Control condition

Are Inexpensive Coffee Makers Reliable?
Recent research by Consumer Reports says “yes.”

By JORDAN KENNEDY  MARCH 4, 2019

If you have a daily coffee habit, it's important that your machine works reliably morning after morning—and that the experience, from brewing to sipping a finished cup, is a satisfying one. But can you get a reliable coffee maker without breaking the bank? A recent survey conducted by Consumer Reports (CR) says “yes.”

The survey asked members to evaluate over 80,000 coffee makers, covering almost 30 brands. Drip machines, especially more affordable plastic models, can sometimes feel cheap and disposable. But according to the survey, these machines, as a category, are quite reliable. Just about every major brand received a moderate to highly favorable rating for predicted reliability.

Affordable household names like Cuisinart, Black+Decker, Hamilton Beach, KitchenAid, Krups, and Mr. Coffee all scored surprisingly well on predicted reliability and customer satisfaction. However, for many of these brands, these high scores were limited to drip coffee machines. Once we get into single-serve coffee, several of these big name brands start to underperform compared to their pricier competitors. This was the case for all except Cuisinart, which received ratings on its pod coffee maker that rivaled the ultra-popular Keurig machines.

So whether you are looking for a full pot or a single-serve, CR research finds that even relatively inexpensive models can get the job done reliably.
Appendix D Study 4 Leisure is Wasteful Prime

Appendix E. Supplementary data

Supplementary data to this article can be found online at https://doi.org/10.1016/j.jesp.2021.104198.

References


